

QUERY	1	10	20	30	40																																												
UniRef90_W4J777	K	Y	E	T	T	I	V	E	V	G	S	E	A	R	G	F	K	D	N	M	A	L	L	F	G	D	E	A	T	D	A	L	L	K	R	S	S	C	F	L	I	Q							
UniRef90_R2S6P5	M	I	F	E	T	Q	V	T	T	S	I	G	P	L	E	E	M	F	Q	E	N	M	L	I	F	F	G	N	E	A	P	D	D	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_R4JZW3	L	I	Y	N	T	E	V	T	T	S	I	G	P	L	E	E	M	F	Q	E	N	M	L	I	F	F	G	N	E	A	P	D	D	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_M5P1Y4	M	L	Y	K	T	K	I	N	K	R	I	G	A	L	A	A	F	S	D	E	K	M	L	I	L	F	G	E	G	A	P	E	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I			
UniRef90_G8LPM2	M	M	Y	Q	T	T	I	T	T	R	I	G	Q	E	Y	A	A	D	L	S	D	N	M	L	I	L	F	G	E	G	A	P	A	D	D	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I
UniRef90_UPI000465ED28	M	L	Y	R	T	Q	T	T	H	R	I	G	E	S	A	P	D	L	S	D	N	M	L	I	L	F	R	E	R	E	G	A	P	A	D	D	V	A	E	E	F	F	I	H	H	H	H	H	
UniRef90_R9VMG5	Y	Q	T	T	I	T	H	R	I	G	E	S	A	P	D	L	S	D	N	M	L	I	L	F	R	E	R	E	G	A	P	A	D	D	V	A	E	E	F	F	I	H	H	H	H	H			
UniRef90_P05706	Y	Q	T	T	I	T	H	R	I	G	E	S	A	P	D	L	S	D	N	M	L	I	L	F	R	E	R	E	G	A	P	A	D	D	V	A	E	E	F	F	I	H	H	H	H	H			
UniRef90_G9QN39	M	K	Y	E	N	T	I	K	S	V	G	P	A	A	I	D	L	S	D	N	M	L	I	L	F	G	R	D	S	A	P	A	D	D	L	K	E	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_UPI000469D8A3	M	K	Y	A	S	T	F	V	A	I	G	A	C	A	E	S	L	Q	D	N	F	I	I	L	F	G	E	G	A	P	D	D	L	A	E	Y	C	C	C	C	Y	N	L	I					
UniRef90_R2QQ83	M	I	F	E	T	Q	V	T	T	S	I	G	P	L	E	E	M	F	Q	E	N	M	L	I	F	F	G	N	E	A	P	D	D	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_U5LG02	K	F	E	T	K	I	N	S	I	G	P	S	V	E	F	F	Q	E	K	M	F	I	L	F	F	G	D	N	A	P	E	T	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I			
UniRef90_J0MA09	Y	Q	T	T	I	V	Q	I	G	E	C	A	R	E	L	A	D	N	M	L	I	L	F	R	E	R	E	G	A	P	A	D	I	L	Q	D	Y	C	C	C	C	Y	N	L	I				
UniRef90_R9U2Q1	M	L	Y	E	T	K	I	N	R	I	G	D	Q	A	A	F	S	D	E	K	M	L	I	L	F	R	E	R	E	G	A	P	A	D	I	L	K	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_A8GHS7	M	L	Y	Q	T	T	I	N	R	I	G	D	S	A	R	E	L	L	D	M	L	I	L	F	R	E	R	E	G	A	P	A	D	I	L	K	D	Y	C	C	C	C	Y	N	L	I			
UniRef90_Q5WIV8	M	L	Y	K	T	T	V	T	K	L	G	A	L	A	S	D	F	A	E	N	I	L	I	L	F	K	N	N	A	P	E	E	L	L	A	E	F	F	V	L	H	H	H	H	H				
UniRef90_G7LR08	F	Q	T	T	F	T	R	I	G	G	D	N	A	A	E	L	T	E	D	M	M	I	L	F	R	E	R	E	G	A	P	E	D	L	R	E	S	F	F	V	L	H	H	H	H				
UniRef90_B3WCK7	M	Q	L	T	A	T	V	T	A	I	G	K	D	A	L	S	S	K	D	P	M	I	L	L	F	G	P	Q	A	T	D	A	L	R	D	V	A	V	I	Q									
UniRef90_R2T5M5	F	E	T	Q	V	T	A	I	G	E	D	A	E	D	F	K	E	D	M	L	L	L	F	G	E	D	A	P	P	E	L	L	S	D	F	C	Y	K	I										
UniRef90_E3G6H2	Y	Q	T	T	I	T	H	R	I	G	E	S	A	P	D	L	S	D	N	M	L	I	L	F	R	E	R	E	G	A	P	A	D	I	L	E	E	F	F	V	L	H	H	H	H				
UniRef90_U2TCV2	M	K	Y	S	T	V	Q	E	L	G	V	Q	V	E	H	A	F	K	E	R	M	L	I	L	F	N	E	N	A	P	K	E	L	R	E	Y	C	C	C	C	Y	N	L	I					
UniRef90_UPI00047973E8	M	W	K	S	V	V	T	H	I	G	A	M	A	L	E	F	D	D	K	V	L	V	F	F	G	P	A	A	P	D	A	L	R	D	V	S	I	L	H										
UniRef90_UPI00046E5B4	M	K	Y	K	N	Q	V	K	S	I	G	P	M	A	T	F	L	D	E	K	M	F	I	L	F	G	N	E	A	P	Q	D	I	L	K	D	F	C	Y	S	I								
UniRef90_E8XT68	M	Y	Q	T	T	I	T	Q	I	G	G	D	F	A	R	L	T	D	E	K	M	L	I	L	F	R	E	R	E	G	A	P	A	D	I	L	K	D	Y	C	C	C	C	Y	N	L	I		
UniRef90_N1ZFL4	Y	D	N	K	V	K	G	L	G	A	C	V	A	E	F	E	G	M	F	I	L	F	G	D	N	A	P	D	T	L	K	D	Y	C	C	C	C	Y	N	L	I								
UniRef90_A5I7D9	M	K	Y	N	T	E	V	N	K	L	G	G	M	V	E	F	G	E	K	M	I	L	F	K	D	N	A	P	D	E	L	L	A	D	Y	C	C	C	C	Y	N	L	I						
UniRef90_A0A033QSN4	M	Y	K	T	E	I	N	K	R	I	G	G	K	D	A	A	E	F	E	A	E	K	M	V	I	L	F	G	D	N	A	P	D	E	L	V	D	Y	C	C	C	C	Y	N	L	I			
UniRef90_F6CCJ8	Y	E	T	E	V	V	D	I	G	K	E	A	A	Q	F	K	E	N	M	L	I	F	F	G	N	E	A	P	D	A	L	R	S	S	C	C	C	C	Y	N	L	I							
UniRef90_F4HBS5	Y	F	T	T	F	K	K	V	L	G	P	E	A	R	D	L	Q	E	N	M	L	I	L	F	K	E	G	A	P	A	D	L	E	D	Y	C	C	C	C	Y	N	L	I						
UniRef90_UPI00035F4C3B	F	E	T	R	V	V	A	L	G	P	E	A	L	G	M	I	L	F	G	E	G	A	P	A	D	L	A	E	F	F	T	I																	
UniRef90_UPI0003A6320B	M	K	Y	E	N	K	V	K	G	K	S	L	A	E	N	F	D	E	K	M	I	L	L	F	G	N	E	A	P	Q	E	L	K	D	F	C	Y	S	I										
UniRef90_UPI000255C1AB	Y	R	T	Q	I	K	S	I	G	K	S	A	K	D	F	Q	E	K	M	L	V	L	F	G	D	E	A	P	A	G	L	K	D	Y	C	C	C	C	Y	N	L	I							
UniRef90_W7YQE2	M	I	Y	Q	T	T	V	T	K	M	G	P	N	A	G	E	F	E	E	N	M	I	L	L	F	G	K	N	A	P	E	E	L	L	A	E	F	F	V	L	H								
UniRef90_Q1WR03	Y	E	T	E	V	I	E	T	G	E	E	A	K	N	F	K	E	K	M	V	I	L	F	G	E	G	A	P	D	A	L	R	P	S	C	C	C	C	Y	N	L	I							
UniRef90_C9ACL9	M	Y	K	T	V	T	E	I	G	E	L	V	E	A	F	E	S	L	L	I	L	F	G	P	E	K	A	T	P	E	L	R	A	I	S	V	I	H											
UniRef90_F2I6T9	Y	Q	T	E	V	K	N	L	G	A	D	A	E	L	F	K	E	N	M	I	L	L	F	G	E	D	A	P	A	D	L	A	D	Y	C	C	C	C	Y	N	L	I							
UniRef90_R6QLK3	M	L	Y	Q	T	T	I	K	G	M	D	Q	V	E	A	F	G	E	G	I	F	I	V	T	F	G	D	N	A	P	D	T	L	K	D	F	C	Y	S	V									
UniRef90_F3YBW0	M	Q	A	L	V	T	E	I	G	K	Y	A	L	T	E	D	E	P	M	I	L	L	F	G	E	T	A	T	A	E	L	R	E	Y	S	V	I	Q											
UniRef90_R2Q3N2	M	H	Q	T	K	I	T	E	I	G	S	L	V	E	D	F	A	E	F	L	V	L	F	G	P	E	A	T	A	E	L	R	D	I	C	V	I	H											
UniRef90_UPI0003F7C00D	M	Y	R	T	E	I	K	K	I	G	K	D	A	K	A	F	E	E	K	M	V	I	L	F	G	E	N	A	P	A	E	L	A	D	F	C	Y	L	I										
UniRef90_S0NV59	F	T	T	T	V	L	S	I	G	P	E	A	E	F	K	E	K	M	V	I	L	F	G	K	D	A	P	D	A	L	A	D	Y	C	C	C	C	Y	N	L	I								
UniRef90_UPI00047B83E7	M	K	Y	N	T	K	L	T	S	I	G	D	M	V	P	F	P	E	K	M	V	I	M	F	K	E	N	A	P	Q	D	L	A	D	Y	C	C	C	C	Y	N	L	I						
UniRef90_UPI00035E1541	Y	Q	T	T	F	T	K	I	G	D	F	A	R	D	A	A	E	N	M	L	I	L	F	K	Q	G	A	P	A	D	L	E	D	Y	C	C	C	C	Y	N	L	I							
UniRef90_C9ABJ8	F	T	T	T	V	L	S	I	G	V	E	A	E	L	F	E	N	M	L	I	L	F	G	K	D	A	P	A	A	L	A	D	Y	C	C	C	C	Y	N	L	I								
UniRef90_V3TU43	Y	Q	T	I	F	T	R	V	I	G	D	N	A	R	E	S	J	E	N	M	M	I	L	F	R	E	G	A	P	E	D	L	E	A	F	C	C	C	C	Y	N	L	I						
UniRef90_UPI0002626883	M	Y	K	S	T	V	K	Q	V	G	P	L	A	L	A	F	E	E	K	V	V	I	L	F	G	P	D	A	P	D	E	L	K	E	V	S	T	I	H										
UniRef90_UPI0003B56078	M	K	Y	E	T	T	V	N	K	L	G	S	P	E	V	A	F	E	E	K	I	L	V	L	F	G	K	N	A	P	A	E	L	A	E	Y	C	C	C	C	Y	N	L	I					
UniRef90_W4VI42	K	F	E	T	Q	V	N	K	L	G	S	S	V	A	D	F	L	E	K	L	L	I	L	F	K	D	E	N	A	P	T	E	L	S	D	Y	C	C	C	C	Y	N	L	I					
UniRef90_B9DJ20	M	Y	Q	T	E	V	I	N	L	G	Q	D	A	A	F	A	E	E	K	M	V	I	L	F	G	S	N	A	P	A	E	L	E	D	Y	C	C	C	C	Y	N	L	I						
UniRef90_A4SRM6	M	L	Y	R	T	N	V	T	Q	I	G	E	F	A	E	S	L	N	E	N	M	M	I	L	F	N	D	N	A	P	K	D	V	A	D	Y	C	C	C	C	Y	N	L	I					
UniRef90_UPI0004685274	Y	F	S	N	V	I	G	I	G	A	M	A	P	S	F	A	D	K	M	I	L	L	F	K	S																								

QUERY
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UniRef90_R2S6P5
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UniRef90_I9NQW2
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50 60 70 80
S F P E K D Q V T L A E G D H L K I G 60 N Y T I T K A V G G S F A N S N L Q S N D L A G
K V N Q I L L E P I K P G G D V M M F G D D Q T Y A I I T T A V G G S E V N N K K N L L G D D L L G G
E L K A S T E E E I K P G G Y T F S F D D D Q T A Y Q I T T A V G G D V V V N K K N L L G D D L L G G
D V N D L L K E E I K A G Y T L K L L G D D G T N Y Q I T T A V G G D V V V N K K N L L G D D L L G G
D I Q P V E E E D V M K A G S Q L L L L G G G E S Y K V V T T A V G G D V V V N K K N L L G D D L L G G
C H G E M N G E L K A G S Q L L L L G G G A R Y A V I T T A V G G D V V V N K K N L L G D D L L G G
P A A E L N G E L K A G S Q Q F V L L G G A S R Y L I T T A V G G D V V V N K K N L L G D D L L G G
N H G A L S G A L L P G A Q F E L L G G D R R Y P V V T T A V G G D V V V N K K N L L G D D L L G G
C H G E L K G G A L H P G L Q F S L L G G D R R Y P V V T T A V G G D V V V N K K N L L G D D L L G G
D V V E V K G E L I Q A G D V L Y I L G G D D E K F T I V T T A V G G D V V V N K K N L L G D D L L G G
R T D V N D G G T F A A G S T L V L L G G E K S Y P I V T T A V G G D V V V N K K N L L G D D L L G G
Q L T P S T D E L T T G M T H F F F G D D N Q S Y R I V T T A V G G D V V V N K K N L L G D D L L G G
D V K G V T E G E I A A G D T L Q L L G G C N E Y K V V T T A V G G D V V V N K K N L L G D D L L G G
C H G E L T G G Q L K P G T H F E L L G G Q Q H Y A I V T T A V G G D V V V N K K N L L G D D L L G G
D I K P V E G D F Q N E G D K L F L L G G E S Y K I T T A V G G D V V V N K K N L L G D D L L G G
R H G N T L G E L F A G G W M E L L A G G E S Y P I T T A V G G D V V V N K K N L L G D D L L G G
Q E N Q L L D N I Q P G D T A I L A S G Q A F V V T T A V G G S A V I E K N N L L R R S L L G G
Q F A D L E K L V I K A G D Q L T L L D D D E T F E M T T A Y V G G Q L A N S N L L R R K A I L L G G
L I K P I Q Q T I T P G M K V W F N K N A Y K I T T A V G G D V V V N K K N L L G D D L L G G
C H G D L A G S L R A A S A L K L L G G C Y P R I V T T A V G G S E V V Q Q N N L L R R D L L G G
C G N K L E D T V R A A G D V F C L L G G K E E Y E I V T T A V G G S E V V Q Q N N L L R R D L L G G
E S A E P F S G S L C V I G D K L V V D G Q D Y E I S K V G T Q A Q Q G N L L Q R E L L G G
D V V N V D E E I Q A G Q V L Y L A D N N E A F K I T T A V G G D V V V N K K N L L G D D L L G G
Q P G K M E G E L H R G A Y M E L I A D V R Y P V T T A V G G D V V V N K K N L L G D D L L G G
D V N P I Q Q E I K A G Q K A V I D D G K E Y N I V T T A V G G D V V V N K K N L L G D D L L G G
G R N E L N D E I Q I V G D I L F K L L G G E E Y K I T T A V G G S E V V N K N L L R N D L L G G
D I N E I D G E I T E S Q M L F L D D D N E Y K I T T A V G G S E V V N K N L L R N D L L G G
E V N D L K Q D I E V I G Q T L Q L L G G E T Q Y K I T T A V G G N E V N N R N L L R R N L L G G
S H G E L R G N I Q V V G D I V K F D D H Y E F K V T T A V G G N V A S F N L L R R N L L G G
D N K D L R G S I P V I G G K L R Y I N G G E E F E I T T A V G G D L V Q R N L L S V T D L L G G
D L V E P K D D I K P G Q V F Y I N G G E E F E I T T A V G G D L V Q R N L L S V T D L L G G
K V T P I Q G E I Q V G D H V A I A D K G T R F K I T T A V G G D L V Q R N L L S V T D L L G G
E N K L D G T I Q V G D V L S I A G T S R F T I T T A V G G D A V D K N L L Q S T D L L G G
K V S E L D S G E I K A G M T L Q I D D E K E Y K I T T A V G G N E V Q T N L L K S N L L G G
T H E D P T E D V I E A G G T F R L G G D E K E Y K I Q E A V G S A A N A N F L L G G
D V N P I Q Q G E I K P G S K L V I D D G Q E Y K I T T A V G G D V V V N K K N L L G D D L L G G
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50 60 70 80
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E K D F E Q N Y D I T V G G Q K V I T F D D Q Q E Y E I T Y V V G G P L V E A S N L L F M S T L G G
D N H E T A K N V I K T G D I L T I G N Q E Y E I T Y V V G G S E A N H T L L F M S T L G G
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T A A E I L T K G E P A V G D T L Y L C D D T K Y T I T A V V G G S E A L H T L L A E L L G G
R F I S S T G F H L Q I G D Q L R I D D D Q D Y Q V V S H V G G K L V E N N M N A N L L G G
D N K S L S G A I H E G S I L S I N G I D Y K V T S I V G G S V V E T N L L K O S L L G G
E I E K D Q Q F N L K A G S Q I V I G E O T Y N V K F S V G G S L V N Q N L L K O S L L G G
T K A A L T E D V A V G D T L R L A D D R S Y T V T A V V G G D E A M K T L L R E N L G G
T H D Q L K G E I S V G G E V I I D G N S Y P I T F V V G G G V N Q N L L R G N L L G G
N A E G L N G D L S E V G G D E L V I D G E V F S L T T F V V G G G K A N E T L L R N D L L G G
E L N Q V R K E I T C D M K L C F D K Q M Y V I T A V V G G D V V Q T N L L N E L L G G
D V N P V D G E V T P G C K L S I D G K E F K I V K V G G S L A N E N L L K N L L G G
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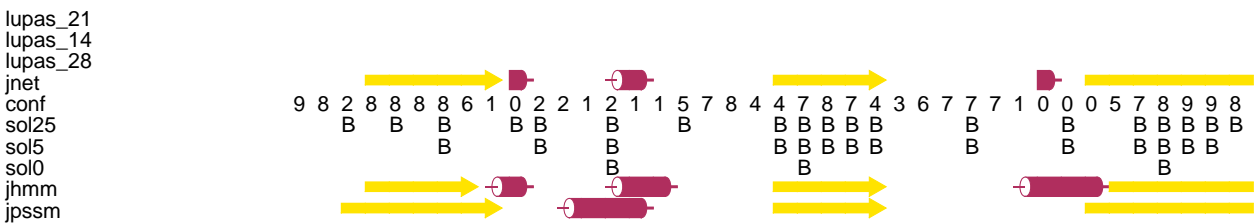
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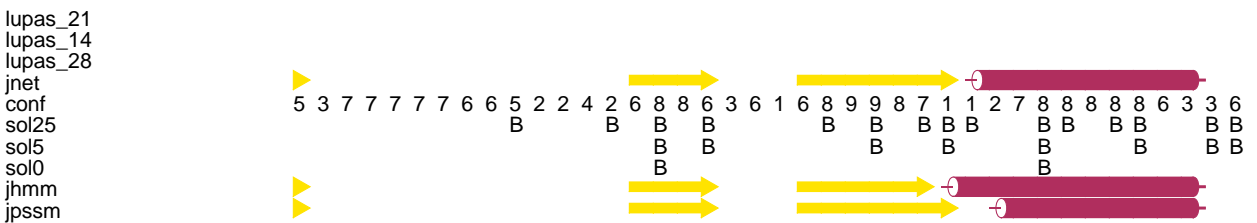
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UniRef90_F4LRR8
UniRef90_W9ALI3

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UniRef90_C9XLJ6	M K Y E V K I S G I	G S L V K E L E S N C L I	I Y D E T I N D D L K D L S V I H		
UniRef90_S1NU11	M A T S K I L S I G	Q E V N H S K E N L L I	L F G T K I T E G L S R Y A V V Q		
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UniRef90_H3LBB9	M T Y S A R I V A V	G V F V A D L T D K M L I	T F D S N G P K D C L D Y S L L E		
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UniRef90_Q03EX1	M I S A K I M S V G	P D A I S K K D A L A I	L F D E T A T P D L K N I A I I Q		
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UniRef90_U6F7R3					
UniRef90_E1NUR6					



	50	60	70	80	
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UniRef90_V7HUH4	N Y G D F P A D Y L K V G T K I S F G Q S S Q Y T T I T K V G G D L V T A N L N E E I G				
UniRef90_UPI000365D530	S G G L L A G E I K K G D K L R V G S S E Y T V M S V G S D V N N N I K E E G				
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UniRef90_I7LDH3	K F D S S T P I S F K K G D T V T V D G E T F V A E Y V G P L V E S N M K A L A				
UniRef90_A1WK10	R V G A V P A L A P P V G A S I F V G D L S T R V S A V G S T A W S K V R E L G				
UniRef90_I7L9V4	E F N S L D N F I F E K G D Q V K I N D H L Y K A L G A G R L V A D D M K E M G				
UniRef90_H3LBB9	T L L R E E S L F I L P G D T L L L A G Y S Y L I T A V G K E A Q Q S L F E L G				
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