

1 10 20 30 40
QUERY S S A I T K M S S L F V T K G K N L E S E I H T V L K H L V L E N N Q L S V H E D D
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V A Y R R F L E L E L I Q L L S R R V A T S V D N F E S A I W A Q F S K A D R P A Y R R W L L D S A
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T T E D S I K V Y Q L L M R V I P Y E E L E N M W K Q L A E N P K Y R R W M L D S
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A P L K F V L E L L I Q L L M R V A R F E T I E S L W A Q F K S R P D H R Y W L L N A
T T E D A I R V Y Q L L R V I D Y E G L E A M W K Q F K G N E E Y R R W F L D M
A A R L M Q L V Q L L L R V A P H R A F S E I W S W A K T Q P E P R R W L L E A
T S S N I L A L I Q L L R K T T Y S E N L E L L W A Q L S G N A E H H R R W F L D D T
T T D D I L K V Y Q L L M R V I P Y E E L E S M W K Q F A D S P V H R R W F L D L
T T E N N I K L Y Q L L R V M P Y E E G L E T M W K Q F S G N T L Q R N W F L D D I
T S E D T I K L Y Q L L L R A M P Y E E G L D L W K Q F A G N E E Q R R W F L D D M
T S E D V V L F Q L L R V T S L E N H E V L W K Q F S G N D E H R R W L L D D T
T T E D S I K L Y H L L R V T P Y E E L E N M W K Q L A V N P K Y R R W F L D S
T S T E T L D L I Q L L M R V T T L E D N L E H L W K Q V S A G N D E H R R W F L D L
T T E D T L K L Y Q L L M R V T P Y E E G L E I M W R Q F A E N E H H R R W F L D M
S T E D C M K L Y Q L L M K V V P F E G L T V L W K E F E G N P E Q R R W F L D V
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S T E D V M R A Y Q L L R V V P F E G L D T M W K Q F A G N A E H R R W F L N L
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T T E D A I R V Y Q L L R V I D Y E G L E A M W K Q F K G N E E Y R R W F L D M
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T N E N A I K L Y Q L L R G I P L D Q L K A M W R K V E G N A Q E R K W F L H T
T R F V Y L V N L L R K M S E N I N Y S E V F D P Y F S Q V H R A T I L D L
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A P L K F L Q L L V Q L L L R V A T F E K I Q T I W D Q Y K T K P V H R R W I L D A
A P L K F L E L L I Q L L L R R Q T D L S G L R T R L N A Q G P E R K W V V D A
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T L T K F S I M A R V I R T M S Y E Q L K K A Y S K A S P K S D A W T A F R D A
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L L E K F T I L C A H L L R T M N K E Q M L Q V D K D V R I S P N A W T I L K S A
T L S K F D I M A R V V R T M S A E Q L K K A S E N L Y F P Q Q A W T A F R D A
A P L K F L Q L L V Q L L F R T A D Q S E Y F D S F F A K R Y S N Q P A Y R R V I L D L
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T L S K F N V L V S V L H T M N V T Q L R N E A T E K L Y D D Q Q Y Q A W F R D A
L P Y Y F H L I N A L R G L S Q T E L R N I Y Q N R I R N P K E R Q W L D A
T M S K F N I L T R A L R A M G Y E D I Y E L A Q K Y F V S Q K E R Q V L R D A

90 100 110 120

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D C H G V D N A T V L L Y S P Y I Q R E T A F L R R R L T L L A Y G T L V K K Y Y A
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T R D V T E E A G S L L K K V H P R S T G T P L H K I A Y L V Y G S L V H K Y Y F
D L D T I K L T S S L A M K E I T S N P A P R K V V M L G Y G S L V A K Y Y V
D L E S L Q L T I S G L A M T P K V K E N P V L R R E I S M L G F G S M V Y K Y Y T
D R Q S V S A A K G L L S V A H V Q H S S I L R R Q I V I L G Y G S M V M R Y Y A
D R Q S V S A A K G L L S V A H V Q H S S I L R R Q I V I L G Y G S M V M R Y Y A
N T E A I E L V K A L A A H N K I L E N P V L R R E I V L L G Y G T M V S K Y Y A
D V E I R L I S T M A G H R K I V E N H P V L R R E I A M L G Y G T M I A K Y Y V
S A E A I K L V K A L A G N N K I V E N P V L R R K I V L L G F G T M I S K Y Y V
D R D A I Q Q T A D L A L S P K I K A I P A V R E V V M L G Y G S M V A R H H A S
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S P E A I K M V A A L T T N D K I L E S P V L R R E I V F L G Y G T M I A K Y Y V
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D L D T I Q L T A S L A M H E K I A K P A L R R E V V M L G Y G T M I A R H H V
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QUERY	D	P	R	K	V	Q	E	I	V	L	P	L	F	L	N	V	A	L	K	S	E	L	R	L	R	S	C	I	V	F	E	S	K	P	S	V	A	L	V				
UniRef90_UPI0003EAB6A5	D	R	R	K	K	V	Q	E	V	A	L	L	F	M	N	R	E	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_Q92093	E	P	R	R	M	V	Q	E	V	A	L	L	F	M	N	R	E	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_UPI0003D0CACD	E	D	F	K	Q	G	L	D	L	I	R	L	F	M	D	R	K	S	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_B9V4K3	E	P	K	L	I	Q	D	M	A	V	L	L	F	M	D	K	S	L	H	S	E	L	R	R	T	A	A	L	V	F	E	E	T	K	P	S	V	A	L	V			
UniRef90_B2KS16	E	D	S	K	L	V	Q	E	V	A	L	L	F	M	D	K	S	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_U3JUH8	E	D	S	K	T	V	Q	E	G	Y	L	L	F	M	D	R	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_M3XL36	E	P	R	K	V	Q	E	I	A	L	L	L	F	M	D	R	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_Q589G6	E	R	R	R	V	Q	E	I	A	L	L	L	F	M	D	R	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_Q589T1	E	P	R	K	M	I	Q	E	D	I	A	L	L	F	M	G	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_D4NUV4	E	P	R	M	I	Q	E	L	A	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_R0JQ97	E	D	P	A	K	V	Q	E	L	A	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
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UniRef90_K7GGJ3	D	P	A	K	V	Q	E	I	L	L	L	L	F	V	D	Q	S	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_UPI0003EAB427	Q	D	P	S	K	V	Q	E	I	L	L	L	F	M	D	R	R	D	V	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V
UniRef90_P18709	E	D	P	R	K	V	Q	E	I	L	L	L	F	M	D	R	D	V	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_L8BRQ8	E	P	R	K	V	Q	E	I	A	L	L	L	F	L	G	C	N	F	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_C9WPN8	E	P	R	M	V	Q	E	L	V	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_L8BPX1	E	P	K	K	V	Q	E	I	L	L	L	L	F	M	N	N	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
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UniRef90_UPI0004443BCE	E	D	P	K	L	I	Q	E	I	A	L	L	F	M	D	R	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_Q7SZF6	E	D	P	R	K	V	Q	E	L	L	L	L	F	M	D	R	D	V	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_H3C1V2	E	P	R	M	V	Q	E	N	I	A	V	L	L	F	M	D	K	T	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
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UniRef90_H2V6G6	I	P	R	E	I	Q	E	L	A	L	L	L	F	M	D	K	N	L	D	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_Q98T86	E	P	R	L	I	Q	E	M	V	V	L	L	F	M	D	K	G	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_UPI0003C2866D	E	D	T	R	R	I	Q	E	I	T	L	L	L	F	M	D	K	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_D8V1K5	E	D	T	P	K	L	V	Q	E	P	V	L	L	L	D	R	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_H2LP13	E	P	K	M	I	Q	E	M	A	V	L	L	L	F	M	N	K	E	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_UPI000457541D	D	D	P	Q	K	V	Q	D	I	T	V	L	L	F	M	N	R	K	N	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V
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UniRef90_D5L0B5	E	P	K	M	I	Q	E	L	A	L	L	L	F	M	D	K	S	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_B9V416	E	F	K	R	V	Q	E	V	A	L	L	L	F	M	D	K	T	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_G3P5Q0	E	P	R	M	I	Q	E	V	A	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_UPI000440A3FF	E	P	K	L	V	Q	E	V	A	L	L	L	F	M	D	R	T	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_K7GG70	D	D	P	R	K	V	Q	D	I	L	L	L	L	F	A	D	H	S	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_B9V4K6	E	P	R	M	I	K	E	L	A	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_S6A926	E	P	K	L	I	Q	N	L	A	V	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_Q60I28	E	P	K	L	V	Q	E	V	A	L	L	L	L	F	M	D	R	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_Q6JXK9	E	P	R	L	V	Q	E	L	A	L	L	L	F	M	D	K	A	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_H2V6H0	E	P	K	R	I	Q	E	L	A	L	L	L	F	M	D	K	N	L	D	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_Q90243	E	P	K	K	V	Q	E	L	T	M	L	L	F	M	D	H	Q	L	L	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V	
UniRef90_W5MPP0	D	P	K	S	V	Q	E	I	T	M	K	I	F	L	D	K	N	I	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V		
UniRef90_UPI0003D08DFE	N	A	A	K	V	Q	E	I	L	L	L	L	F	V	D	R	S	L	S	P	N	V	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V			
UniRef90_UPI0003C42971	D	D	P	R	R	V	Q	D	I	T	Q	E	I	F	L	N	H	K	I	D	H	S	E	L	R	R	M	V	A	C	I	V	F	E	E	T	K	P	S	V	A	L	V

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UniRef90_E9HZ16	L	M	L	S	G	T	N	P	S	L	M	L	V	R	E	W	L	I	Q	G	K	I	V	G	E	Q	A	V	Q	A	I	S	A	L	V	P	T	V	T	P					
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UniRef90_L5LB65	V	T	S	A	Q	T	P	D	S	L	D	A	I	L	D	F	L	D	F	K	S	S	N	I	L	Q	E	R	F	L	Y	A	C	G	F	A	S	H	P						
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UniRef90_B4PW44	L	F	R	T	G	T	S	A	E	S	A	R	V	L	K	Q	L	I	S	K	F	D	E	K	E	K	L	L	A	I	L	S	L	N	L	V	K	S	V						
UniRef90_I3K0T7	L	F	Q	C	G	T	S	E	C	T	S	A	I	L	Q	I	R	T	I	D	G	V	S	L	E	T	D	A	L	V	Y	A	L	S	L	L	Q	A	D	P					
UniRef90_S0BCV4	L	P	Y	L	A	S	T	G	S	M	E	L	I	K	N	M	I	T	E	A	A	I	D	T	E	T	R	H	E	W	L	M	S	M	A	M	I	P	R	P					
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UniRef90_N1PB39	V	P	T	L	S	T	D	A	A	N	K	A	V	I	T	M	V	E	E	N	I	V	T	G	L	P	A	S	L	M	I	N	M	M	T	L	T	A	Q	N	P				
UniRef90_I3JFT0	L	A	Q	C	G	T	P	E	C	T	S	A	M	L	K	L	L	R	T	F	D	G	D	A	V	E	V	D	A	V	V	Y	A	L	G	L	L	A	P	N	P				
UniRef90_K7HIZ0	I	P	R	L	I	Q	C	G	T	P	E	C	V	Y	A	V	L	R	D	L	V	L	R	E	K	D	L	K	S	T	I	A	V	Q	L	L	L	S	I	P	F	H	I	E	L
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UniRef90_W4VR27	L	P	T	V	G	T	K	A	S	A	I	F	V	K	N	L	I	K	K	H	T	V	K	D	Y	V	A	T	Q	M	L	Y	S	L	G	K	N	V	R	A					
UniRef90_T1HDK5	V	I	Q	A	N	S	A	S	V	E	V	M	A	E	L	I	K	R	K	E	V	T	G	S	K	A	Q	Y	F	Y	L	L	L	G	S	V	K	H	A						
UniRef90_K7IN7	I	P	H	L	G	T	P	Y	A	A	W	F	T	K	N	I	I	E	E	D	K	V	E	S	I	A	L	D	M	L	T	K	L	P	M	Y	L	N	P						
UniRef90_M7ANL9	L	I	Q	C	G	T	P	D	C	F	G	S	I	L	Q	I	R	T	G	N	V	D	E	S	L	V	A	D	A	V	T	Y	S	L	G	L	L	P	F	P					
UniRef90_W8BIF3	L	F	R	T	G	T	A	E	S	A	K	A	I	F	K	Q	L	N	K	M	D	E	K	E	K	L	I	A	I	S	L	N	L	V	Q	S	V								
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Q O S P C S E I S E V Q Q F V H L L K L S L E A G E K Q V D D H L V L L A S V K N A G
R G G C K L P A V V E A K K L L L G G L G K A E K D D D V K M Y L L A L L K N A Q
K N I A D C D D V K P N I T Q A E N F L N Y E R V E I L M S L K A L L K N A Q
E Y D C S K L Q Y E K Y V K T V K E T L A Q A K D Y P A K V V L I Q T L A R N L N
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M Q Q N I G M D V L R S V V G E L R S M L R S A S S N E E K L L I K T I G N F G
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N P E V Y P Q Q T L Q Y I K A L S A K L M S A K S V R G K L L I A Q A L A H T G
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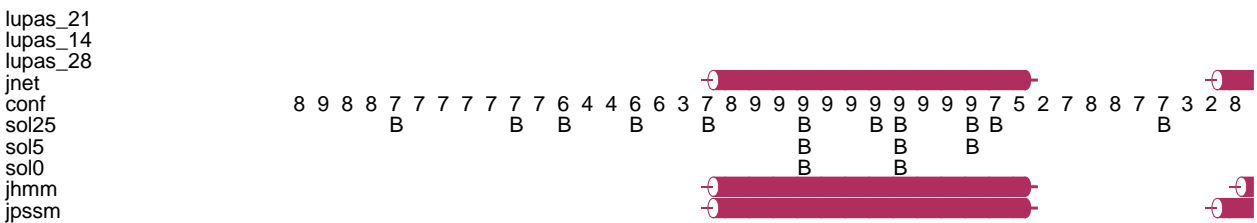
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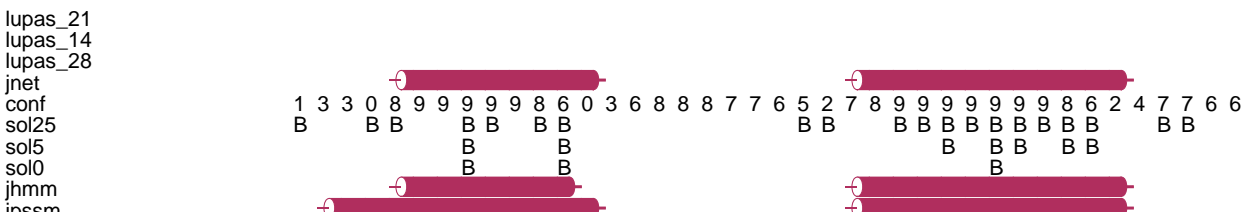
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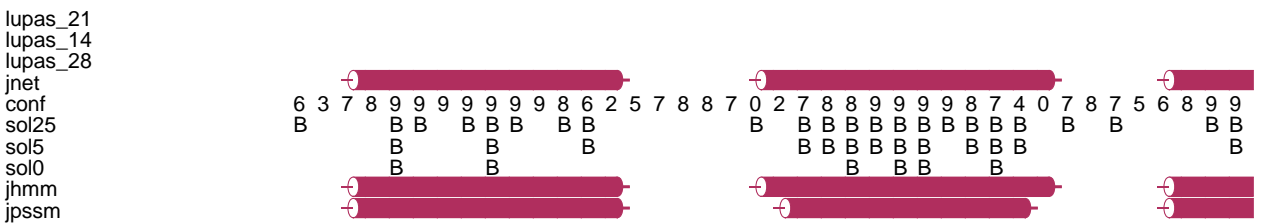
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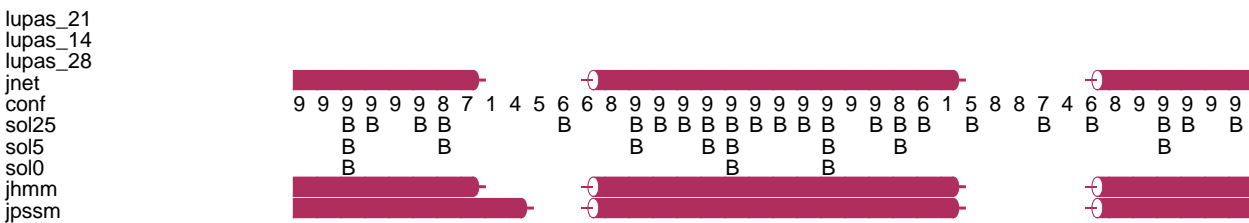
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