

QUERY 1 10 20 30 40
UniRef90_UPI0003B757EA M H L N P A E K E K L L L I F F T A A G L V L A E R R R K K A R G G V L K L N N Y P P E A A V I A A I T S
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QUERY	S	F	I	L	M	E	G	A	R	D	G	K	T	V	A	M	L	M	E	E	G	K	H	V	L	T	R	D	D	V	M	D	G	V	P	A	M	I	D	D	V							
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UniRef90_L8N1J3	A	E	I	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	Y	G	A	T	L	L	L	T	R	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_V4BRA5	L	Q	L	Q	E	L	A	R	D	G	L	S	V	V	A	E	L	L	M	D	L	G	R	R	M	L	S	G	R	N	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
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UniRef90_N1V1H8	Y	E	L	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	Y	G	T	T	L	L	S	T	S	R	S	E	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V	
UniRef90_UPI00035D8A67	M	H	I	M	E	G	A	R	D	G	K	T	V	A	E	L	L	M	N	E	G	R	E	V	L	L	S	T	T	R	R	E	Q	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V
UniRef90_B1XLM3	G	L	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	E	G	Q	T	L	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_Q5E726	F	E	I	M	E	G	A	R	D	G	K	T	V	A	E	L	L	M	N	Y	G	R	T	L	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_UPI0003F491E2	S	Q	L	H	E	L	I	R	D	G	H	T	V	A	E	L	L	M	D	L	G	K	K	M	L	L	S	G	R	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_D6CNN5	A	A	V	M	E	G	A	R	D	G	G	R	T	V	A	E	L	L	M	S	F	G	R	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_UPI0003F08B23	C	Q	I	M	E	Y	I	R	D	G	H	T	V	A	E	L	L	M	S	D	M	G	S	R	M	L	L	S	G	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_UPI0002B458DF	A	F	I	M	E	G	A	R	D	G	E	T	V	A	E	L	L	M	E	A	G	R	H	V	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_C7RGZ6	A	E	L	Y	M	A	R	D	G	K	T	V	A	E	L	L	M	A	F	E	G	R	K	V	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_V4YDH8	A	A	V	M	E	G	A	R	D	G	R	S	V	A	E	L	L	M	A	F	G	R	T	V	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_A1SYX9	M	E	I	T	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	D	Y	G	R	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_A0A017SVK1	T	E	V	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	D	L	G	K	R	F	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V		
UniRef90_Q9RYJ3	A	E	V	L	L	E	G	A	R	D	G	R	R	V	A	E	L	L	M	S	F	G	A	L	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_Q1QC34	M	L	L	M	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	E	G	A	T	Y	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_F0JE31	S	A	I	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	Y	G	T	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_Q2JJ72	A	A	V	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	E	G	L	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_G4U2F1	S	V	L	Q	E	R	I	R	D	G	H	T	V	A	E	L	L	M	Q	H	G	K	N	L	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_A9BUC7	A	A	V	L	L	E	W	A	R	D	G	K	T	V	A	E	L	L	M	H	L	G	T	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_T0PUR3	T	Q	M	L	L	E	L	I	R	D	G	K	T	V	A	E	L	L	M	S	L	L	G	K	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V		
UniRef90_D5RSE0	D	F	V	V	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	R	D	G	A	S	V	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V	
UniRef90_S2K6F9	S	Q	L	L	L	E	L	M	R	D	G	K	T	V	A	E	L	L	M	D	I	V	G	K	Q	M	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V	
UniRef90_A9GP81	T	Q	L	L	L	E	L	I	R	D	G	K	T	V	A	E	L	L	M	D	V	G	R	R	L	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V		
UniRef90_B2GI08	Y	E	L	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	W	G	S	T	L	L	S	T	T	R	D	D	V	M	D	G	V	P	A	E	M	I	D	D	V			
UniRef90_A0A038GM42	A	A	L	L	L	E	G	A	R	D	G	K	T	V	A	E	L	L	M	S	H	Y	G	T	L	L	L	S	T	T																		

QUERY	Q	A	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	S
UniRef90_UPI0003B757EA	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	S
UniRef90_A1KBB7	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_L8GQX0	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	V	H	A	P	A
UniRef90_UPI000314363A	Q	I	E	A	M	F	P	D	G	T	K	L	V	T	I	H	N	P	I
UniRef90_UPI0003672EE2	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	I	H	N	P	I
UniRef90_K0C0N5	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	I	H	D	P	I
UniRef90_B7K906	Q	I	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_I4A1L7	Q	I	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_L8N1J3	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_V4BRA5	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	A	P	C
UniRef90_Q1MZ31	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	A
UniRef90_W1N185	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	T
UniRef90_Q89UG3	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	E	P	Q
UniRef90_H2IBI0	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_R6U8G5	Q	I	E	S	T	M	P	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_D5XBT0	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_B1XLM3	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	I	H	N	P	Q
UniRef90_Q5E726	Q	V	E	C	T	F	P	D	G	T	K	L	V	T	S	I	H	E	A
UniRef90_UPI0003F491E2	Q	V	E	G	T	F	P	D	G	T	F	L	V	T	V	H	D	P	C
UniRef90_D6CNN5	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	Q	P	A
UniRef90_UPI0003F08B23	Q	I	E	A	T	F	Q	D	G	T	K	L	V	T	V	H	D	P	S
UniRef90_UPI0002B458DF	Q	V	E	A	T	F	P	D	G	S	K	L	V	T	V	H	N	P	I
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UniRef90_V4YDH8	Q	V	E	A	T	F	A	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_A1SYX9	Q	V	E	A	T	F	V	D	G	T	K	L	V	T	V	H	N	P	A
UniRef90_A0A017SVK1	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	V	H	D	P	I
UniRef90_Q9RYJ3	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	V	H	D	P	I
UniRef90_Q1QC34	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_F0JE31	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_Q2JJ72	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	L	H	H	P	I
UniRef90_G4U2F1	Q	V	E	G	T	F	P	D	G	V	F	L	V	T	V	H	D	P	C
UniRef90_A9BUC7	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	H	P	C
UniRef90_T0PUR3	Q	I	E	G	T	F	P	D	G	T	K	L	V	T	V	H	S	P	C
UniRef90_D5RSE0	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	A
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UniRef90_A9GP81	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	V	H	H	P	A
UniRef90_B2GI08	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	D	P	I
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UniRef90_G4MYL6	Q	V	E	G	T	F	P	S	G	T	Y	L	V	T	V	H	N	P	L
UniRef90_A9TNN7	Q	V	E	G	T	F	R	D	G	T	K	L	V	T	I	H	E	P	F
UniRef90_UPI00037FB2E7	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	S	P	Q
UniRef90_C3ZLX4	Q	V	E	G	T	F	R	D	G	T	K	L	V	T	V	H	Q	P	I
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UniRef90_I3TLC9	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_C2FXK2	Q	I	E	V	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_D0LX09	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
UniRef90_UPI00002EA326	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	H	P	I
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UniRef90_D8REU5	Q	V	E	G	T	F	A	D	G	T	K	L	V	T	V	H	H	P	I
UniRef90_U7V8W6	Q	V	E	A	T	F	R	D	G	T	K	L	V	T	V	H	N	P	Q
UniRef90_B7GT16	E	V	E	V	T	F	P	D	G	T	K	L	V	T	S	I	H	D	I
UniRef90_H0TW22	Q	V	E	A	T	F	A	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_M1ZJM0	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	Q	P	I
UniRef90_K6W2A6	Q	V	E	A	T	F	P	D	G	S	K	L	V	T	V	H	Q	P	I
UniRef90_UPI0002B43889	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	V	H	N	P	F
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UniRef90_Q11VN4	Q	I	E	G	T	F	P	D	G	T	K	L	V	T	V	H	H	P	C
UniRef90_S8EAN2	Q	V	E	G	T	F	P	D	G	T	K	L	I	T	V	H	D	P	A
UniRef90_D8JUH6	Q	V	E	A	T	F	R	D	G	T	K	L	V	T	V	H	D	P	L
UniRef90_A7RYZ6	Q	V	E	G	T	F	P	D	G	T	K	L	V	T	I	H	N	P	C
UniRef90_S5TLN0	Q	V	E	V	T	F	P	D	G	T	K	L	V	T	V	H	D	P	I
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UniRef90_A2C4S0	Q	I	E	A	V	F	P	D	G	T	K	L	V	T	L	H	N	P	I
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UniRef90_G5ZXG8	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	H	P	I
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UniRef90_D5WRE0	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	V	H	R	P	Q
UniRef90_R1DEX6	Q	I	E	A	T	F	E	D	G	T	K	L	L	T	V	H	S	P	S
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UniRef90_UPI00016BFDD4	Q	I	E	G	T	F	P	D	G	T	K	L	V	T	V	H	N	P	I
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UniRef90_Q733J4	Q	V	E	A	T	F	P	D	G	T	K	L	V	T	I	H	Q	P	I
UniRef90_Q9SR52	Q	V	E	G	T	F	R	D	G	T	K	L	V	T	V	H	E	P	S
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UniRef90_A0PSG4 MRLLTTPHHEQEKRLKLLS YTAAGLVV AERRRRKAQRKGLLKKLN HHPPEAAVIAFLITST
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UniRef90_M7THT7 MHLVTPPKREKDKKLLMLL SFTTAAGLVV AERRRRKAQRKGLLKKLN HHPPEAAVIAFLITST
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UniRef90_Q9ZMZ4 MKLTTTPPKREKDKKLLMLL SFTTAAGLVV AERRRRKAQRKGLLKKLN HHPPEAAVIAFLITST
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UniRef90_J1FLW5 M H L N P R E H V Q K L L L T H L A G E L A A K R R L K R G V L K L L N N Y P P E A S I A Y I C
UniRef90_UPI0003601D71 M L L T P S D T E K L L L S I A G L V A R D R R Q A R G G V R L L N N Y P P E A S V A L L I T T
UniRef90_L7LH16 M H L T P R E L D K L L T I L N L A M V A R K R R K A R G G L K L L N N H P P E A T A V A L I S S
UniRef90_S3XXP0 M L F T P R E H E K L L I S Y A A C A R K R R K A K G L K L L N N Y P P E A M A I L S S
UniRef90_UPI00037B7694 M H F T P R E T D K L L M I Y T L A Q V A Q Q R R K A K G L K L L N N H P P E T V S L I S S
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UniRef90_D9T749 M H L T P K E F D K L L T I H S L A M V A N A R R K A R G V K L L N N H P P E A V A L I C
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		50	60	70	80																																		
UniRef90_A4F7F5	D	H	V	V	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_C5BDC2	V	T	A	M	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_C7PWL1	S	F	L	L	E	R	A	R	D	G	H	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V		
UniRef90_R7WT41	T	W	V	L	E	R	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_D8PNC8	S	Q	L	Q	E	R	I	R	D	G	N	T	S	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_F8I5J2	D	A	L	L	E	A	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_UPI0001AEF2C6	V	H	V	Y	E	E	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_B7G7W5	M	Q	M	M	E	K	I	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_D1AER0	Q	E	I	L	E	A	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_UPI0003A09FA6	L	V	M	L	E	L	I	R	D	G	H	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_B6K144	S	Q	I	Q	E	F	I	R	D	G	H	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_C0S126	S	N	I	Q	E	L	I	R	D	G	H	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_J7L2K5	C	W	V	I	E	R	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_M3USB6	T	W	V	L	E	R	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_A1DDE4	S	V	L	H	E	L	I	R	D	G	H	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_UPI0003F600CF	S	A	L	Y	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_R5VHT8	S	A	A	L	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_A6SZ05	A	A	I	M	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_H2FUP9	A	A	V	M	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_X0PCR2	Y	E	V	L	E	K	I	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_J1RYH9	V	H	V	L	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_W5WTA5	E	A	C	I	E	A	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_K9ACV9	T	W	V	L	E	R	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
UniRef90_F4S0E7	C	V	L	Q	E	L	I	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
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UniRef90_S3XXP0	D	F	L	L	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
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UniRef90_E5Y670	A	A	A	L	E	E	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
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UniRef90_C7MGL7	S	Y	L	L	E	G	A	R	D	G	K	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
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UniRef90_T5A8T3	S	N	L	Q	E	L	I	R	D	G	H	T	R	V	V	E	E	L	M	K	S	R	E	V	L	T	A	Q	V	D	V	A	D	M	V	R	E	V	
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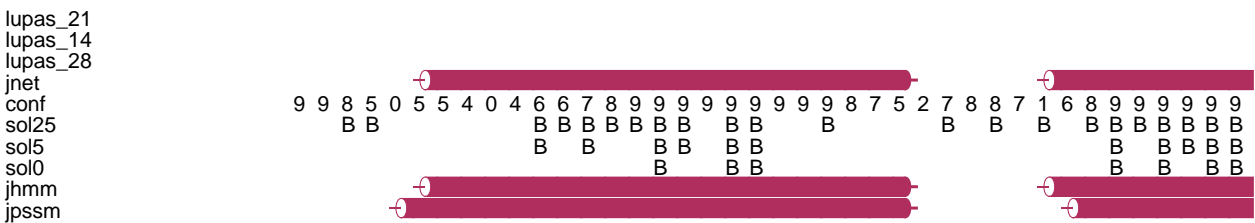
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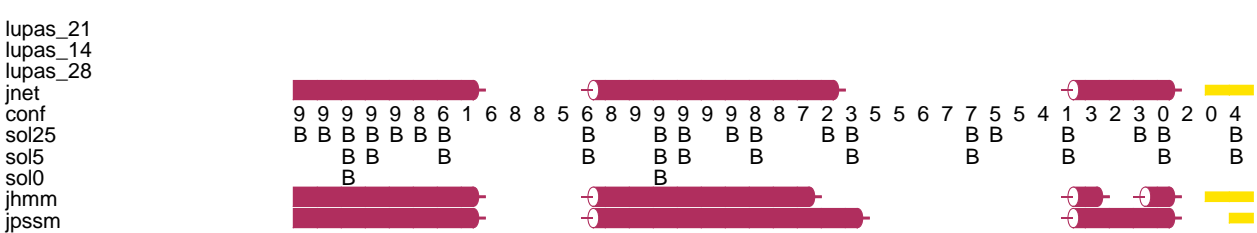
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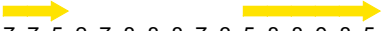
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