

QUERY 1 10 20 30 40
UniRef90_U7K214 Y R E I V P V G S A I V S P N P N K Q Q P H R E V F D A E D L A E E L V H S S V T K E F F G G L L
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UniRef90_H1D0A0 V M E I A V R D R I S P N P W Q P R R D F P K E G A L T A L A E S S I S I S I S I S I K E N G G L L
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UniRef90_E3GR84 L Q I N K R L R P N A D Q Q P R R K K F N R E K L E E L L A A S S I S I S I S I S I K E H G G L L
UniRef90_Q1GCL6 I V E I P V I A A I V P N Q Y Q P R R K V F D Q T E I N E L L A S A Q T I S I S I S I S I R V H H G G L L
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UniRef90_E8SHT3 V Q R L A L S D E I R P N P Y Q P R R K T F D A E H D M D E L V H S S V K E I G G V L L
UniRef90_U7V761 L P I S D I H P N R K Y Q P R R V D F D A E H D M D E L V H S S V K E I G G V L L
UniRef90_L8DAM5 L P I S D I H P N R K Y Q P R R V D F D A E H D M D E L V H S S V K E I G G V L L
UniRef90_R7CH60 L V K I S S V E P N V N Q P R R K Q F D E E D A L L E L L A S S I S I S I S I S I K Q Y G G L L
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UniRef90_D5BUE5 V I D P V E W I N S G P Y Q P R R L K F D K T A E L A E L A S S I S I S I S I S I R Q K G G L L
UniRef90_K7A0B8 L Q K I P L E F L E Q P G K Y Q P R R K D M S S E A L A E D L A S S I S I S I S I S I R S Q Q G G L L
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UniRef90_D4J4Y7 V K I D E I P N R S Q P R R Q N F D E D A L Q E E L L A D S S I S I S I S I S I K L H H G G L L
UniRef90_B6GDN3 P D T E M S I D E I V P N P N Q P R T H F N E S L Q E E L L A S S I S I S I S I S I R E N G G L L
UniRef90_D7GRR5 Q T L K L N L I E P N S E Q P R K N F D E E S L Q E E L L A S S I S I S I S I S I K Q Y G G L L
UniRef90_B0K5M8 V E T I N I A Y I H P N Q Y Q P R K Q F P E D S L K E E L L A S S I S I S I S I S I K Q H H G G L L
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UniRef90_H5SEN9 V V E L A V D L I D P S P R Y Q P R T R Y D E D E R L R E L L A D S S I S I S I S I S I R T H G G L L
UniRef90_UPI000372ABB1 E L A V D I H P N P Y Q P R Q V F D E D E Q L A E L A F S S I S I S I S I S I K E L G G L L
UniRef90_K1LJYO V T E V E L S Q I R P N P Y Q P R K H F D P E A L A E L A E S S I S I S I S I S I R K T G V F

QUERY	WK	P	M	L	L	A	K	I	P	50	T	D	E	Y	L	I	V	D	60	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_U7K214	Q	P	I	V	V	R	P	A	P	E	D	D	F	E	L	I	V	D	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_D6YAM2	Q	P	V	V	V	R	A	R	E	G	D	D	R	E	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_W4HJ70	Q	P	I	V	V	R	A	R	P	G	D	D	R	E	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_A3K2X5	Q	P	L	I	V	R	Q	D	P	D	D	D	R	E	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_K0URU1	Q	P	I	V	V	R	E	E	N	G	D	D	R	E	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_D0L9C5	Q	P	I	V	V	R	P	T	P	E	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_G2IS22	Q	P	I	V	V	R	P	T	P	A	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_H5U0N8	Q	P	I	V	V	R	P	T	P	A	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_A3SKT5	Q	P	L	I	V	R	S	H	P	K	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_UPI0003940466	Q	P	I	V	V	R	P	I	D	N	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_K2JN87	Q	P	I	V	V	R	P	V	G	G	V	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_U5EFN2	Q	P	I	V	V	R	R	V	P	G	V	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_K2BNG0	Q	P	I	V	V	R	P	V	S	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_A1U7I2	Q	P	V	V	V	R	P	V	S	G	E	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_R4VMY9	Q	P	I	V	V	R	P	L	P	S	G	E	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80	
UniRef90_I3TR69	Q	P	I	L	V	R	P	V	D	D	G	G	F	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_U3GWU9	Q	P	I	V	V	R	R	A	P	H	G	T	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_B9JV49	Q	P	V	V	V	R	T	I	A	T	G	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_H2GZH3	Q	P	I	V	V	R	R	V	K	E	D	E	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_F8I2Z9	Q	P	V	V	L	R	A	V	K	G	G	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_UPI0003A553BA	Q	P	L	L	V	R	P	K	S	D	G	T	T	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_B8KLK0	Q	P	L	L	V	R	P	I	A	N	E	R	F	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_R6BA36	Q	P	L	L	V	R	P	L	G	G	V	Y	Q	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80				
UniRef90_A0A013XTS0	Q	P	I	L	V	R	P	H	L	G	G	V	Y	Q	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_U2JKM1	Q	P	I	L	V	R	P	L	L	G	L	N	Y	Q	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_UPI00037DA56D	Q	P	I	V	V	R	P	L	L	G	D	D	R	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_R5Q0K2	Q	P	L	V	R	R	K	N	G	E	E	N	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_UPI000317E086	Q	P	I	L	V	R	P	L	G	Q	A	G	S	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_B7S285	Q	P	I	V	V	R	P	L	S	D	R	K	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_D0DA58	Q	P	I	V	V	R	P	A	P	G	E	Q	F	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80			
UniRef90_A0LWWV6	Q	P	V	V	V	R	P	H	D	H	G	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80				
UniRef90_UPI0002E98A90	Q	P	I	V	V	R	A	V	P	N	V	D	V	F	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_UPI000405EB3E	Q	P	V	V	V	R	A	V	P	G	N	G	N	G	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80	
UniRef90_B3Q8A4	Q	P	I	V	V	R	P	V	K	G	A	D	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_A5E8H1	Q	P	I	V	V	R	P	V	K	G	A	D	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
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UniRef90_G7Q6W1	Q	P	V	L	V	R	P	V	A	D	A	G	T	H	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
UniRef90_R5E6D7	Q	P	L	L	V	R	P	L	T	L	G	O	E	D	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80
UniRef90_K2AEA6	Q	P	L	L	V	R	P	L	V	V	D	G	R	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I	70	80		
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UniRef90_H1D0A0	Q	P	V	V	V	R	Q	K	K	N	G	T	Y	E	L	V	D	M	G	H	H	R	W	A	G	L	Q	K	L	G	A	K	R	A	P	S	V	I					

QUERY	D	Y	F	K	G	D	V	L	N	K	V	I	E	R	L	K	A	E	G	L	E	V	I	E	D	E	K	A										
UniRef90_U7K214	Q	T	T	D	D	A	L	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	H	A	Y	H	Q	L	L	E			
UniRef90_D6YAM2	K	T	Q	D	E	M	L	R	E	A	L	I	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	A	Y	Q	Q	L	L	E		
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UniRef90_KOURU1	E	T	A	D	D	S	M	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	A	A	A	Y	Q	Q	L	L	E		
UniRef90_D0L9C5	E	T	E	P	D	D	M	L	R	D	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	A	Y	Q	Q	L	L	E	
UniRef90_G2IS22	D	F	S	E	E	T	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	A	Y	R	R	L	L	E		
UniRef90_H5U0N8	E	T	P	D	D	M	L	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	A	A	Y	Q	Q	L	L	E			
UniRef90_A3SKT5	E	F	N	D	E	V	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	A	G	Y	A	Q	L	L	E	
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UniRef90_K2JN87	D	V	P	D	D	A	V	A	L	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	V	A	L	K	R	L	L	E			
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UniRef90_R4VMY9	D	D	L	P	D	E	A	V	A	L	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	T	A	L	H	R	L	L	E		
UniRef90_I3TR69	H	M	A	D	D	A	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	D	G	Y	R	R	L	L	E		
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UniRef90_H2GZH3	Q	T	D	D	D	M	L	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	A	A	Y	Q	Q	L	L	E			
UniRef90_F8I2Z9	E	L	S	D	D	A	M	E	L	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	S	Q	A	Y	A	R	L	L	E		
UniRef90_UPI0003A553BA	N	V	S	D	E	A	I	A	M	S	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	L	E	R	L	L	E			
UniRef90_B8KLG0	E	M	D	E	E	Q	M	E	I	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	S	G	Y	K	L	L	E			
UniRef90_R6BA36	D	F	D	E	E	T	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	E	A	Y	R	K	L	L	E		
UniRef90_A0A013XTS0	E	L	T	D	E	E	M	A	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	N	A	Y	A	Q	L	L	E		
UniRef90_U2JKM1	N	T	A	D	E	A	M	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	A	A	Y	Q	Q	L	L	E			
UniRef90_UPI00037DA56D	T	F	S	D	E	A	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	E	G	Y	R	R	L	L	E	
UniRef90_R5Q0K2	E	V	A	D	E	A	V	A	M	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	H	G	V	K	R	L	L	E		
UniRef90_UPI000317E086	D	V	P	D	E	A	I	A	M	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	S	L	Q	R	L	L	E		
UniRef90_B7S285	D	L	D	D	E	T	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	G	Y	K	Q	L	L	E		
UniRef90_D0DA58	E	T	S	D	D	A	M	R	D	A	L	L	E	N	I	H	R	V	Q	L	N	N	A	L	L	E	A	A	A	Y	A	Q	L	L	E			
UniRef90_A0LWWV6	E	A	D	D	R	A	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	V	G	Y	E	Q	L	L	E		
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UniRef90_UPI0003689877	E	V	D	D	E	Q	L	A	L	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	A	L	N	L	L	L	E			
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UniRef90_R5E6D7	E	F	T	D	E	T	M	E	I	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	L	L	A	Y	K	Q	L	L	E	
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UniRef90_G6YHS5	D	Y	D	D	R	S	M	E	M	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	Q	G	Y	Q	Q	L	L	E		
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UniRef90_Q2L2R6	D	V	A	D	D	S	N	A	I	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	Q	G	V	R	R	L	L	E		
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UniRef90_Q1GCL6	D	M	S	D	E	M	L	E	V	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	A	Q	S	Y	K	Q	L	L	E	
UniRef90_H3RMR0	K	M	T	D	E	S	A	S	L	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	Q	A	Y	K	Q	L	L	E		
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UniRef90_L0GT78	E	V	D	E	P	A	V	A	L	G	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	N	A	L	H	R	L	L	E		
UniRef90_Q1MZ49	D	V	P	D	E	A	I	A	M	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	R	A	L	H	R	L	L	E		
UniRef90_D5EUW2	T	T	D	D	K	T	M	E	M	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	I	A	L	A	Y	Q	R	L	L	E	
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UniRef90_L8DAM5	D	V	A	D	E	A	V	A	I	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A	L	L	E	A	I	A	L	Q	R	L	L	E		
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UniRef90_K7QWM3	D	L	T	D	E	A	L	E	I	A	L	L	E	N	I	Q	R	R	A	D	L	N	N	A</														

QUERY UniRef90_U7K214 UniRef90_D6YAM2 UniRef90_W4HJ70 UniRef90_A3K2X5 UniRef90_K0URU1 UniRef90_D0LCU5 UniRef90_G2IS22 UniRef90_H5U0N8 UniRef90_A3SKT5 UniRef90_UPI0003940466 UniRef90_K2JN87 UniRef90_U5EFN2 UniRef90_K2BNG0 UniRef90_A1U7I2 UniRef90_R4VMY9 UniRef90_I3TR69 UniRef90_U3GWU9 UniRef90_B9JV49 UniRef90_H2GZH3 UniRef90_F8I2Z9 UniRef90_UPI0003A553BA UniRef90_B8KLK0 UniRef90_R6BA36 UniRef90_A0A13XTS0 UniRef90_U2JKM1 UniRef90_UPI00037DA56D UniRef90_R5Q0K2 UniRef90_UPI000317E086 UniRef90_B7S285 UniRef90_D0DA58 UniRef90_A0LWW6 UniRef90_UPI0002E98A90 UniRef90_UPI000405EB3E UniRef90_B3Q8A4 UniRef90_A5E8H1 UniRef90_UPI0003689877 UniRef90_G7Q6W1 UniRef90_R5E6D7 UniRef90_K2AEA6 UniRef90_UPI000225C163 UniRef90_R6QZ87 UniRef90_R6MZH6 UniRef90_G6YHS5 UniRef90_H1D0A0 UniRef90_Q2L2R6 UniRef90_E3GR84 UniRef90_Q1GCL6 UniRef90_H3RMR0 UniRef90_UPI0002F4015D UniRef90_L0GT78 UniRef90_Q1MZ49 UniRef90_D5EUW2 UniRef90_E8SHT3 UniRef90_U7V761 UniRef90_L8DAM5 UniRef90_R7CH60 UniRef90_UPI00035FB3AD UniRef90_K7QWM3 UniRef90_E3C661 UniRef90_D5BUE5 UniRef90_K7A0B8 UniRef90_D4JZH0 UniRef90_K4LQE3 UniRef90_E8N945 UniRef90_UPI000255BAD8 UniRef90_K0CGN8 UniRef90_G8MB13 UniRef90_R7NLN7 UniRef90_C5C6N1 UniRef90_Y5PDX3 UniRef90_B7V799 UniRef90_R6CFA2 UniRef90_UPI000418CB24 UniRef90_V8QTX3 UniRef90_UPI00036400D5 UniRef90_UPI00046F07FD UniRef90_F9N5I3 UniRef90_R5W3Z8 UniRef90_W9ABG0 UniRef90_D4J4Y7 UniRef90_B6GDN3 UniRef90_D7GRR5 UniRef90_B0K5M8 UniRef90_A8DJK8 UniRef90_K2KM18 UniRef90_UPI0003B570ED UniRef90_UPI0004220300 UniRef90_R6WV19 UniRef90_H5SEN9 UniRef90_UPI000372ABB1 UniRef90_K1LJY0

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

QUERY UniRef90_U7K214 UniRef90_D6YAM2 UniRef90_W4HJ70 UniRef90_A3K2X5 UniRef90_KOURU1 UniRef90_D0L9C5 UniRef90_G2IS22 UniRef90_H5U0N8 UniRef90_A3SKT5 UniRef90_UPI0003940466 UniRef90_K2JN87 UniRef90_U5EFN2 UniRef90_K2BNG0 UniRef90_A1U712 UniRef90_R4VMY9 UniRef90_I3TR69 UniRef90_U3GWU9 UniRef90_B9JV49 UniRef90_H2GZH3 UniRef90_F8I2Z9 UniRef90_UPI0003A553BA UniRef90_B8KLK0 UniRef90_R6BA36 UniRef90_A0A013XTS0 UniRef90_U2JKM1 UniRef90_UPI00037DA56D UniRef90_R5Q0K2 UniRef90_UPI000317E086 UniRef90_B7S285 UniRef90_D0DA58 UniRef90_A0LWWV6 UniRef90_UPI0002E98A90 UniRef90_UPI000405EB3E UniRef90_B3Q8A4 UniRef90_A5E8H1 UniRef90_UPI0003689877 UniRef90_G7Q6W1 UniRef90_R5E6D7 UniRef90_K2AEA6 UniRef90_UPI000225C163 UniRef90_R6QZ87 UniRef90_R6MZH6 UniRef90_G6YHS5 UniRef90_H1D0A0 UniRef90_Q2L2R6 UniRef90_E3GR84 UniRef90_Q1GCL6 UniRef90_H3RMR0 UniRef90_UPI0002F4015D UniRef90_L0GT78 UniRef90_Q1MZ49 UniRef90_D5EUW2 UniRef90_E8SHT3 UniRef90_U7V761 UniRef90_L8DAM5 UniRef90_R7CH60 UniRef90_UPI00035FB3AD UniRef90_K7QWM3 UniRef90_E3C661 UniRef90_D5BUE5 UniRef90_K7A0B8 UniRef90_D4JZH0 UniRef90_K4LEQ3 UniRef90_E8N945 UniRef90_UPI000255BAD8 UniRef90_K0CGN8 UniRef90_G8MB13 UniRef90_R7NLN7 UniRef90_C5C6N1 UniRef90_Y5PDX3 UniRef90_B7V799 UniRef90_R6CFA2 UniRef90_UPI000418CB24 UniRef90_V8QTX3 UniRef90_UPI00036400D5 UniRef90_UPI00046F07FD UniRef90_F9N513 UniRef90_R5W3Z8 UniRef90_W9ABG0 UniRef90_D4J4Y7 UniRef90_B6GDN3 UniRef90_D7GRR5 UniRef90_B0K5M8 UniRef90_A8DJK8 UniRef90_K2KM18 UniRef90_UPI0003B570ED UniRef90_UPI0004220300 UniRef90_R6WV19 UniRef90_H5SEN9 UniRef90_UPI000372ABB1 UniRef90_K1LJY0

A K E I E L V Y Y G L K E D A K A D M E K G E I D Y V F I R K A P T K E E V M E
S S G H A R A L L G L Q E K E Q M S Q L A E R V V A E G L S V R T V E E A V V
A A G T I T A G H A R A L L A L D A P E Q Q S L A N R I V V A E G L S V R D T V E E K
S A G H A R A L V T P S A T A Q D P S A L A R Q V V A R K G L S V R D T E E K
S A G H A R A L I T A P N P E V L A K T I V D K G L S V R D T E E K
S A G H A R A L L A L E G G A E K Q E E L A A R I V A E G M S V R A T E E A V T
S A G H A R A L L S L E T G S D A D A Q Q E A L A A R I V A E G L S V R A T E E A V T
M G G Q L S M G H G R A L L I G A A D S Q Q E A L A A R I V A E G L S V R R A T E E K
S A G H A R A L L S L E T G S D A Q Q E A L A A R I V A E G L S V R R A T E E K
S E G Q L S A G H A R A L L I T S D D A E K A L A K Q V I S K G L S V R R A T E E K
E K K I E M G H A R A L L M L E G E A Q Q A E L A S Q V A K K Q L S V R R A T E E K
H G D L E M G H A R A L L A L T G D G Q S D A A R L V A G K G L S V R R A T E E K
S A G H A R A L L G L D A G A D A Q E V L A A R I V A E G L S V R A T E E A V T
E R G M L E M G H A R T L I T L P E S V Q L I E T A K L I V S R N M S V R R A T E E N
H G D L E M G H G R A M L T L P E S Q Q M Q V A R Q V V A K S L S V R R A T E E A
N G E L E M G H A R A L L S L D E A G Q A E A A R Q I V A E G L S V R R A T E E A
S M G H A R A I A T A D D P S A L A K R I V D R G L S V R R A T E E A V T
S A G H A R A L L G L K A G A Q A Q E A L A D R I V A E G L S V R A T E E A V V
G S L S A G H A R A L L I T S D P N S L A R Q I V S K G M S V R R A T E E A V R
S A G H A R A L L G V K E D T Q A E L A Q R I I A E G L S V R A T E E A V T
R E L I S V A G H A K V L L S I D G P R R V E L A E R I G G W T V R K Q L E G
R D G N I S A G H A R A L L A V T D M D A A E L A R R I S H A L T V R D A E E
D M G H A R C L L T L D A D Q Q I Q L A R R V V A K G L S V R R A T E E A
E E G E V S P G H A R A L L S F D D P Q R M D V A Q K V R T K G K Y S V R R A T E E R
S M G H A R A L I G V P D C E T L A R Q V E Q K G L S V R R A T E E Q
S A G H A R A L L G I S D E K L L S E T A A K A A D G K L S V R A V I E K
N V L S A G H A R A L L S L D N P R Q E E L A A R I V A E G L S V R R A T E E K
E Q G K L T S G H A R A L L L N A K D P P E Q L A E I V I S K G L S V R R A T E E K
A G D I D M G H A R A L L A T E A A N Q Q L L A N E I I A R R L S V R R A T E E K
H G D L E M G H A R A L L A L E G G D Q S H A A G Q V V G K A M S V R R A T E E A
N G E L S A G H A R T L V T A R D P E T M A Q Q I M D K K L S V R R A T E E A
T A G H A R A L L A L N D A T A Q E E L A Q R I V A E G L S V R A V I E E
G V L S A G H A R A L L S V S D P E A I A E R V V A Q G L N V R D V A E T
T A G H A R A L I A A P D P V P S T I A K R I V A E G L N V R R A T E E A
T A G H A R A L I G L P D P S T I A K R I V A E G L N V R R A T E E A
G E I S A G H A R A L L I N L P D P L T A A K K I A A G L N V R R A T E E A
H G D I E M G H A R C L L A L E G E Q Q I E T A R L V A A K G L S V R R D T E E K
A S Q A M T A G H A R A L L S L A D E E E R Q A L W Q R I V A T G M S V R R A T E E E
D G K I S A G H A R A L L T L E N E E L M E L A D E I V A K D L S V R R A T E E K
T A G H A R A L V T T N N A T E L A L Q V V G R G L S V R R E T E D
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S E E M I T T G H A R A L L A L E D D Q Q E T A M K V F D E K G L S V R R A T E E K
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G R I T E R H G R A L L S L D E D Q Q R T L M E I V N Q H W N V R R A T E D
A E Q K L T V A H A K F L L S L D P G K R L E L A E R A V K E E W T L R Q L I E T
A G R M E M G H A R A L L G L R G A D Q S H A A R E V V E R G L S V R R A T E R
H G D I D M G H A R A L L G L R G A D Q S H A A R E V V S K A L T V R R A T E A
D M G H A R A L L S L E S P S A Q L K L F K D V H R N G Y S V R K V E E M V Q
E G Q L S G G H G R T L L A L K T P E T M V H A K L A I R E S W S V R A V I E Q
S A G H A R A L L M L T D Q A Q I E T L A K K I V N E G L S V R A V I E E
H G D I E M G H A R S L L A L E G H L Q S E A N L V V A K A L T V R R A T E E K
I D E M I T A G H A R A L L S L A D K E K E E L A M K I E D E K L S V R R A T E A
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E E G R I S A G H A R A L L M L P E E K R L W G L R E L E K G L S V R R A T E A
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D G Q L T M G Q V R P L I G H E D A S A L A E E I S K N L S A R Q V I E A
H G D I E M G H A R A L L A L Q G E A Q N Q A A Q I V S G K G L T V R D T E N
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E M G H A R A L L A L A G D K Q V E A A R Q V V A K G L S V R R A T E V
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A D G R I S S G H A R A L L S L E N V D M L T I S Q E I L D K D L S V R R A T E K
S A G H A R A L L G L S D G A A M E R L A Q R I V A E G L S V R R A T E E
V R E H R M S G H G R T L L A L K D V N T M K I G K Q A I K E G W S V R Y L I E K
S H G D L E M G H A R A L L G L P A E R Q V E G A R H V V A H G L T V R R A T E A
K K L T V G H A K V L C G L S S E S V I Q E M A E R T M T N F W T V R R A T E K
S A G H A R A L L G L P D A A A M E R L A Q R I V A E G L S V R R A T E E
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S A G H A R A L L S H P N P V I A A A E V I S R G L S V R R A T E A
T V G Q A R P L L A L A E E H L Q L Q A L E R I K E G L N A R Q L E Q L V K E
E D G R L S A G H A R T L V V V P K E Y Q Y K L A K G C D N Q M T V R E M E K
Q K Q L E M G H A R A L L A L D D Q Q Q L A T A Q I T I N K L L T V R A E E K
E M I S S G H G R A L L A I T D D P E Q Y T L A M K I E D N K L S V R R A T E R
E G K L T A G H A R A L L A V I P D E A R K L A E K V V A E G L S V R R A T E N
S S G H A R A L L G L E E G E R Q Y Q V A K I I E K L S V R D V I E K
T I G H A K V I L S L P N K N L Q R R V A Q S V I E R G L S V R R A T E R
S P G H A R A L L A L D R E E L V P N S E S L L G Q V I A K G L S V R R D T E K
E E G K I S A G H A R A L L V V P N S E S L L G Q V I A K G L S V R R D T E K
G K L S T G H V R P L I V V E D T K Q A E L A Q T A V D M K L S V R R A T E K
R G D I E L G H A K L L L A L Q G D Q S D V A R T I A A K G M T V R R A T E A
K T G L L S T G H A K V L L G V E D P H I Q E L L C L V I K D G L S V R R Q L I E E
E E G K L S V G H A K A L L S L S A D Q R Q L A Q E V V A E G L S V R R A T E A
S S G H A R A L L A L T D P A E M E R L A Q R I V A E G L S V R R A T E E
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L K I P V V E S E A L V A G G P F F Q P R R Q D F M S P E A S L A A S E T R R A H H G
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I K N E R R L R L D D E L R S P N P F Y Q Q P R R K S F F D Q E E A G L E E L A A S S S L R T E Y G
I T M V K V V T G S D I L E P N K D Q Q P R R V I F D D E D E K L S E L L A D S S I S K E E L G G
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L R Q S T L L S Q I R Q T N N P Y Q Q P R R K E F F S P E E E K L A E D L E A G S S I L R V N G G
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I Q K I A M T T V K A N P Y Q Q P R R T V F E A K R A F A E E L V H S I R E F F G G
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I I Q L G L N E L R P N P Y Q Q P R R T F D D E A H S L K E L A N S S I E R T H H G
I H N I N I N D E V I K S T D N Q Q P R R K Y F D D D S K I S E L A A S S I R T H H G
V T M I S P D Y I S P N P D Q Q P R R Y F D P D G L T E L A E S S I R V H H G
I P L D N K I K G K D K D Q Q P R R T F F D S E K L A S E L T S S I K A Q H H G
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I V S L D I S P A G N D E Q P R R H H F D D E Q S L Y E E L T A S S I E A H H G
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UniRef90_R5V3Z7	Q Q P I V I R E I R	94	L A G L K E	P P A I V A
UniRef90_R6PV20	Q Q P L I V R Q K R	95	L A G L K E	P P V I I K
UniRef90_G3IWU3	Q Q P V V V R K K I	96	L A G L K E	P P V V I K
UniRef90_Q2RFJ2	Q Q P I V V R K P A	97	L A G L K E	P P A I I K
UniRef90_G4SWW1	Q Q P I V V R K K I	98	L A G L K E	P P V V V R
UniRef90_UPI000366D389	Q Q P I L V R K K S	99	L A G L K E	P P V I V L
UniRef90_Q040U3	Q Q P I I I R K K S	100	L A G L K E	P P A I I R
UniRef90_UPI0003B53085	Q Q P I I V R P H G	101	L A G L K E	P P V V V R
UniRef90_E6MIL5	Q Q P L V V R K P E	102	L A G L K E	P P V I V R
UniRef90_J9G3E5	Q Q P I T L R Q M E	103	L A G L K E	P P A Y I V
UniRef90_A1ALJ5	Q Q P L V V R T K K	104	L A G L K E	P P V V I R
UniRef90_UPI00037B1482	Q Q P I V I R P V S	105	L A G L K E	P P V I I R
UniRef90_A6EPG0	Q Q P I T V R K K L	106	L A G L K E	P P A Y I V
UniRef90_A8FJF4	Q Q P I I V R K S I	107	L A G L K E	P P A I V R
UniRef90_X1G8J2	Q P V I V V R P E G	108	L A G L K E	P P S L I R
UniRef90_W0EUP3	Q Q P V S L R Q L A	109	L A G L K E	P P A Y I V
UniRef90_S2WUH1	Q Q P I V V R E I I	110	L A G L K E	P P A I V R
UniRef90_Q2S6N2	Q Q P I V V R E I S	111	L A G L K E	P P V I I R
UniRef90_K2NQU8	Q Q P V V V R S G E	112	L A G L K E	P P V I L R
UniRef90_UPI00034C1F67	Q Q P V V V R R K L	113	L A G L K E	P P A I V R
UniRef90_D7UV41	Q Q P I I L R N A K	114	L A G L K E	P P A V V R
UniRef90_R5R528	Q Q P I I V R K Y S	115	L A G L K E	P P C A M I
UniRef90_UPI00036CAF85	Q Q P L L V R P S K	116	L A G L K E	P P A M V R
UniRef90_R5VIQ7	Q Q P L V V A K Q K	117	L A G L K E	P P V T I K
UniRef90_UPI00037F555C	Q Q P I I V R K K S	118	L A G L K E	P P A I I K
UniRef90_Q1PZX9	Q Q P I I V T P T A	119	L A G L K E	P P A I I R
UniRef90_S1N2S2	Q Q P I I V R R S Q	120	L A G L K E	P P A I I K
UniRef90_UPI00041A01D7	Q Q P I V V R M F E	121	L A G L K E	P P V I I K
UniRef90_L1QPK6	Q Q P I L L K K D N	122	L A G L K E	P P A I I M
UniRef90_R5HVG5	Q Q P L S V R R K G	123	L A G L K E	P P C L V L
UniRef90_U5N0M7	Q Q P L I L R K E T	124	L A G L K E	P P A I V M
UniRef90_X0PDY5	Q Q P I I V R P S I	125	L A G L K E	P P A I V R
UniRef90_A4CPZ8	Q Q P I T V R K I L	126	L A G L K E	P P A Y I R
UniRef90_C6XF55	Q Q P L I V R R A I	127	L A G L K E	P P V T I R
UniRef90_UPI00037C1A75	Q Q P I T V R K L L	128	L A G L K E	P P A Y I R
UniRef90_R5QEJ8	Q Q P I V V R K K V	129	L A G L K E	P P C I I E
UniRef90_B3EN06	Q Q P V T V R S R D	130	L A G L K E	P P G Y I T
UniRef90_V6S795	Q Q P I T V R K T D	131	L A G L K E	P P A Y I V
UniRef90_E3I9J4	Q Q P L I V R K S I	132	L A G L K E	P P V V V R
UniRef90_UPI0003643085	Q Q P L I V R R A G	133	L A G L K E	P P A I V R
UniRef90_UPI0003684818	Q P V I V V Q K G E	134	L A G L K E	P P A I V R
UniRef90_UPI000362C719	Q Q P I I V R S V L	135	L A G L K E	P P A V V R
UniRef90_R7ETW4	Q Q P L S L R M L A	136	L A G L K E	P P A Y I V
UniRef90_R6NRY5	Q Q P L L V R K Q K	137	L A G L K E	P P V I V K
UniRef90_N1ZRH6	Q Q P L I V R S S S	138	L A G L K E	P P A I V R
UniRef90_E8UFE3	Q P I L V R P L A K	139	L A G L K E	P P A L I K
UniRef90_R1AQM4	Q Q P I I V R K K K	140	L A G L K E	P P C L I K
UniRef90_B8I3R9	Q Q P I I V K K S D	141	L A G L K E	P P V I V N

	90	100	110	120
UniRef90_C0ZA59	A Y T D Q Q M E I A L I E N L	Q Q R E N G L N T P L I V E E E A E A Y D K L I S H H D		
UniRef90_U1Y1Q0	D F N N E Q A A A L A L I E N L	Q Q R E N G L N T P L I V E E E A E A Y D K L I D D I H		
UniRef90_UPI000470B90F	D N L S E N Q A M A A A L I E N L	Q Q R E A D L N N P I V E E E A E A G F N R L L M D D Y S		
UniRef90_G7QPG8	N V S E N Q M E M A I V E N I	Q Q R E A D L N N P I V E E E A E A G F N R L L S E K		
UniRef90_R6T7U6	D A N D Q M L E M A I V E N I	Q Q R E N D L N D P I V E E V A M S Y Q R L I D E C S L T T Q		
UniRef90_R7MEM0	D L D D D E M M S I A L I E N I	Q Q R E D L D N A I V E E E A L A Y K K M I T E E		
UniRef90_UPI00037CEC57	I A D D D E S L T M A L V E N I	Q Q R Q D L D N A I V E E I A L S Y Q R L I D E		
UniRef90_A0A011VWW9	E L D D R Q M Q M A L I E N I	Q Q R A D L D S P I V E E E A K A Y K N L M D S Y R		
UniRef90_M2XW01	D T D D D L L R D A L I E N L	H R S Q L D L N P I V E E E A A A Y Q Q L L I E D		
UniRef90_F9P9F1	E V D D D E M M K Q A L I E N L	Q Q R E D L D N P I V E E E A A Q S Y Q Y L I D		
UniRef90_C1A3J2	N V D D K T L T L A M I E N L	Q Q R A D L D N P I V E E E A A D G Y Q R L I D		
UniRef90_T1ZH06	S L T D D E M I T A I I E N L	Q Q R E D L D N P I V E E E A A Q S Y Q Y L I D		
UniRef90_S0EVB2	H V E D D A V V L A L I E N I	Q Q R E D L N P I V E E E A A K A Y L R M M R		
UniRef90_A6W3T6	T T A D D M L R D A L I E N L	H R V A L N P I V E E E A A A Y Q Q L I D		
UniRef90_UPI0003B2E43F	N L N D D E T A S V A L I E N L	Q Q R E E L T A I V E E E A A A Y Q Q L I E L H D		
UniRef90_Q5KU60	E F N D S Q T A I A L I E N L	Q Q R E E L T A I V E E E A I A Y A K L I D L H		
UniRef90_X0RRB7	E V P D E A L A L S I E N I	Q Q R E D L T P L I V E E A A T G I Q R L I E		
UniRef90_Q0ADD9	E F D D E A M Q I A V L E N I	Q Q R E D L T P L I V E E E A E A Y E M L M K N L Q		
UniRef90_R2PJC7	D F D D K Q M E L A L I E N I	Q Q R E D L S A I V E E E A K A Y K F M D N M		
UniRef90_R6GU17	T L T D D E M L L A I I E N M	Q Q R E D L N P I V E E E A E G L E K M I K		
UniRef90_X8K2P1	E T N D D N L R D A L I E N L	H R S Q L D L N P I V E E E A A A Y Q Q L L E D F G T T H		
UniRef90_UPI0003F5E024	T T S D E M L R D A L I E N L	H R V A L N P I V E E E A A A Y Q Q L L E D F G T T H		
UniRef90_M4REY7	E Y T P Q E M E I A L I E N I	Q Q R K Q A L N P I V E E E A I A Y K S L L D		
UniRef90_R5YY02	E C S D E Q L A I G I E N I	Q Q R K Q A L N P I V E E E A Q A L Q R L L D		
UniRef90_B5ER50	T T S D E N M R D A L I E N L	H R V A L N P I V E E E A A A Y A Q L I D		
UniRef90_I4M3A9	D I P D Q A A A M S L I E N I	Q Q R E D L N P I V E E E A G A L H R L L		
UniRef90_UPI00036F9BFC	D I D D K S L E F A I V E N V	Q Q R Q D L N P I V E E E A S G Y Q R L L		
UniRef90_UPI0003760BDA	E T A D E N M R D A L I E N I	H R A N L N P I V E E E A S A Y Q Q L I D		
UniRef90_I0R1N5	D A T D E Q M E I A V M E N L	Q Q R E D L N P I V E E E A K A Y E M L M H L D I S		
UniRef90_G2KU08	D V D D E T F A L A L V E N I	Q Q R E D L N P I V E E E A A G Y Q L L Q		
UniRef90_UPI000463641E	S L T D E D M E L A I V E N L	Q Q R E D L N A I V E E E A E S Y R K L M D		
UniRef90_Q49UL4	A Y D D T M M Q A A V L E N I	Q Q R E N L S P I V E E E A L A Y K Q M M D V L H		
UniRef90_F8I0L1	E V P D E A L A M S I E N I	Q Q R E N L S P I V E E E A L G I Q R L I R		
UniRef90_Q2Y5B7	Q L D D D A M A A A L V E N I	Q Q R A D L N N P I V E E E A E G L Q R L I R D Y T		
UniRef90_K7T7X4	D L S D D Q A I A L A L I E N I	Q Q R Q D L N A I V E E Q A L A L Q R F H E		
UniRef90_N8ZRS9	E V D D D E N L A M A L V E N I	Q Q R Q D L N A I V E E I A L G M Q R L I D		
UniRef90_D4IP26	T A K D E S M E M A L V E N I	Q Q R E D L N P I V E E I A L A Y E H L I E D S S M T Q		
UniRef90_A0A010YBZ6	E M S D D E T A M A L I E N L	Q Q R E G L S A I V E E E A H A Y Q Q L M T L N H		
UniRef90_UPI00037361F3	N M D D D Q A A L A L I E N I	Q Q R E D L N P I V E E E A K A Y T N L M K L N D		
UniRef90_F6CF12	E V A E A A V A M A L I E N I	Q Q R Q D L T P L I V E E E A D A L K R L V E D F D L T H		
UniRef90_I4VNC8	D L S D E V A S V A L I E N I	Q Q R K D L N P I V E E E A D A F N R L I E L Y		
UniRef90_K2E020	E M T D E A L Q I G I E N V	Q Q R S D L N P I V E E E A E A F Q R L I D		
UniRef90_J9DG45	D Y S S Q Q V E I S I I E N V	Q Q R A D L N N P I V E E E A M A Y Q M L I R D Y		
UniRef90_H1HU48	D F N D Q Q M E L S I I E N I	Q Q R E N L N G I V E E E A R S Y Q A M K E		
UniRef90_R5V3Z7	E Y T R E A V E I A L I E N I	Q Q R E N L N P I V E E E A M A F K R L L T		
UniRef90_R6PV20	E I D D R A M A I A L I E N I	Q Q R E D L N N P I V E E E A E A L R R L L D		
UniRef90_G3IWU3	T L D D R A A E I S L I E N L	Q Q R E D L N P I V E E E A E A Y E A L I E		
UniRef90_Q2RFJ2	D I D D K A M A L A L I E N I	Q Q R E D L N P I V E E E A D A L R R L L I T		
UniRef90_G4SWW1	D V D D K S L E F A I L E N I	Q Q R T D L N G I V E E E A L G Y D N L V K		
UniRef90_UPI000366D389	K F D E A Q M E V A V L E N I	Q Q R E D L T P L I V E E E A Q A Y E M L Q K N		
UniRef90_Q040U3	D Y S D E T L Q I A L I E N I	Q Q R Q D L N A I V E E E A R A Y Q R L L D		
UniRef90_UPI0003B53085	D L J A R D V I E I A L I E N V	Q Q R E D L N P I V E E E A M A Y E H L T K A Y H		
UniRef90_E6MIL5	T A T D E N M Q M A L V E N I	Q Q R E D L N A I V E E I A L A Y Q N L I E R Y Q		
UniRef90_J9G3E5	E A S E N A L E L A L I E N I	Q Q R Q D L N A I V E E E A Q A Y R S L I E		
UniRef90_A1ALJ5	E I P D E A L A M S L I E N I	Q Q R E N L N P I V E E E A L G I Q R L I D		
UniRef90_UPI00037B1482	I A N D E S L E M A L V E N I	Q Q R E D L S P I V E E I A L S Y Q R L I D		
UniRef90_A6EPG0	E F S E T L M E I A L I E N L	Q Q R E D L S P I V E E E A E A Y A S L I D H L S		
UniRef90_A8FJF4	S M P K Q Q L E I S L V E N L	Q Q R E D L N P I V E E I A L A Y Q K L I E L Y Q L T Q S		
UniRef90_X1G8J2	T A E D E T M E M A L I E N I	Q Q R E D L N A I V E E I A L A F Q K L I E L Y Q L T Q S		
UniRef90_W0EUP3	N T D D E L L R E A L V E N I	H R T Q L N P I V E E E A N A Y A Q L M		
UniRef90_S2WUH1	D V P D E A I A M A L I E N I	Q Q R E N L N P I V E E E A M A L Q R L L Q D		
UniRef90_Q2S6N2	E V D D K A L E L A I E N V	Q Q R A D L N P I V E E E A R G Y Q Q L I D		
UniRef90_K2NQU8	E T D D D L L R D A L I E N L	H R Q Q L D L N P I V E E E A A A Y Q Q L L D		
UniRef90_UPI00034C1F67	D M T D E M M E L S V I E N L	Q Q R E D L S P I V E E E A E S Y Q F L M S N L E		
UniRef90_D7UV41	D I T D D K Q V T L A I E N I	Q Q R E N L S P I V E E E A N A Y K T L I D T Y D		
UniRef90_R5R528	E L S D E V L E I G V V E N V	Q Q R A N L N P I V E E E A S A Y R N L M D		
UniRef90_UPI00036CAFB5	D Y S P Q E M E V A L I E N I	Q Q R E D L N P I V E E E A K A Y K N L I D		
UniRef90_R5VIQ7	E L S D R Q M E F A I I E N L	Q Q R E N L N P I V E E E A G S Y R E L M D		
UniRef90_UPI00037F555C	K T D D E S L E I A L I E N I	Q Q R E D L N P I V E E K A L G F R E L V K K		
UniRef90_Q1PZX9	E F D E E M M Q I A V L E N L	Q Q R E D L S P I V E E E A E A Y D M L M K N L D		
UniRef90_S1N2S2	D F N D E T A S V A L I E N L	Q Q R E E L S P I V E E E A M A Y A R L L E L H E		
UniRef90_UPI00041A01D7	D L T D K Q L E V S L I E N I	Q Q R E D L N S P I V E E E A V A Y K K L I E		
UniRef90_L1QPK6	E V S R E S S L L S I I E N L	Q Q R R D L D F W E E E A K A L E R L I E		
UniRef90_R5HVH5	E L S R D L L E L S I I E N I	Q Q R Q D L N P I V E E E A L A Y K N L I E		
UniRef90_U5N0M7	Q I S D A Q M E T A V L E N I	Q Q R E D L N P I V E E E A Q A Y E T L I K		
UniRef90_X0PDY5	I A N D E T L E M A L V E N I	Q Q R Q D L D P I V E E I A L S Y Q R L I D		
UniRef90_A4CPZ8	N V D N K S L E I A I E N V	Q Q R K D L D P I V E E E A L G Y E Q R L I D		
UniRef90_C6XF55	L A N D E M L E M A L V E N I	Q Q R K N L D P I V E E E A L S Y Q R L I D		
UniRef90_UPI00037C1A75	D Y D D K Q T Q L A I I E N I	Q Q R E D L S P I V E E E A K A Y Q A L I K		
UniRef90_R5QEJ8	E A G E D A L E M A L I E N I	Q Q R E D L N A I V E E I A I A L K S L V T T C		
UniRef90_B3EN06	L A N D D S L V M A L V E N I	Q Q R H D L D P I V E E I A L S Y Q R L I D E I Q L T Q		
UniRef90_V6S795	E L T D Q Q M E F A L I E N L	Q Q R E D L N P I V E E E A M A Y K T L M D		
UniRef90_E3I9J4	P A S D E M L E L A L V E N L	Q Q R S D L P I V E E E A R G Y A L L Q E		
UniRef90_UPI0003643085	E T T D E S L E L A L I E N L	Q Q R Q D L N P I V E E E A D G Y A R L A K		
UniRef90_UPI0003684818	S F S D Q Q M E I A L I E N L	Q Q R E N L N A M I V A L A L R K L I D T Y A		
UniRef90_UPI000362C719	K A S D A E I E M A L I E N I	Q Q R E N L N S P I V E E V A L A L R K L I D T Y A		
UniRef90_R7ETW4	E L T D E E T V E I S L I E N I	Q Q R E N L N P I V E E E A A A Y R R L I D		
UniRef90_R6NRY5	Q L D D E M M E I A V L E N L	Q Q R E D L T P L I V E E E A Q A Y N T L M E N L H		
UniRef90_N1ZRH6	D V N D Q K S A S I A L I E N M	Q Q R E D L K P I V E E E A K G I R K L I D		
UniRef90_E8UFM3	E L N E Q K S T E I A L I E N I	Q Q R E D L N P I V E E E A L A Y N G L M D K Y D		
UniRef90_R1AQM4	N F S N K Q M E V A L I E N L	Q Q R E D L N P I V E E E A E A F L H L M D		
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UniRef90_C0ZA59 Y T Q E Q L 130 A K R I L G K S R P H V A N M L L Q L P E K I V R K M V S A A E L
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UniRef90_F9P9F1 F G L T H K E E I A Q R T M G K S R S P Q Y I T N Y L L R L L P L N I M E A I K E G R I
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UniRef90_S0EV2 E F G L T Q Q E V A Q R V G K K T R T A I A N A L R L L Q L P E E V Q E S I
UniRef90_A6W3T6 D F H L T Q Q E V A D T V G K S R S T V A N R L L R L L G L T P E E V R R L L E
UniRef90_UPI0003B2E43F E F G L T Q E Q L A K S V G K S R P Q T A N R L M N L P A S V Q K D V I A G K L
UniRef90_Q5KU60 G L T Q E S L A Q R L G K G Q S T I A N K L L H L P E V V Q N A I L S R V I
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UniRef90_R2PJC7 G Y T Q E M L A N R F N K S R T Y I T N L L G L L K L P S L V Q D M V I
UniRef90_R6GU17 V Y G F T Q D K V S K S V S K S R P Y I T N A L R L L N L P E S R V R K E V
UniRef90_X8K2P1 E Q Q L A D R I V G R S R P Q V I T S N R L L K L P A S V Q K K V A A G V L
UniRef90_UPI0003F5E024 E F G L T Q A Q L A S K S V S K S R P Q I A N R L L N L P A S V Q K K V A A G V L
UniRef90_M4REY7 E Y N L K Q D E L A K K M S K S R A A I A N S M R L L K L A E D V Q E M I
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U N I R E F 9 0 _ U P I 0 0 0 4 1 0 D 7 7 E
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U N I R E F 9 0 _ C 1 F 5 L 6
D D L S E A F V L G L V E N L Q R R E S L S P M E T A A G I K R L G E F T L T H
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E M D D E V L E V G L V E N I Q R R A D L N Y P M E E A N A Y A V L M E
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S M D E Q R S A L A L V E N I Q R R C D L N Y F E E A M A I Q K L M K M
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D I P E T S L E I A L V E N L Q R R S D L N P V E E I A V G L N Q L I E E C T
U N I R E F 9 0 _ I 0 I S 0 7
T H K N D A A V L A I I E N L Q R R E D L N F I E E E A E G Y A N L S
U N I R E F 9 0 _ A 6 T X E 2
T Y N N D V L E V Q I I E N L Q R R Q D V L E P T E E A E A I A Y L S
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V R D I P E L I D D G P K N D R L S F G D A D V A L A Q S I A A H G Q
I E E I D P E L I D L E K Q M R S K D F T V D S L M E L G N D M K R D G Q
P L S R I V V N P I Q P R L A R T D D Q Q M E R L T T S I A V A G K I
V D E D H A Q A L A A S I M A G E R G Q I
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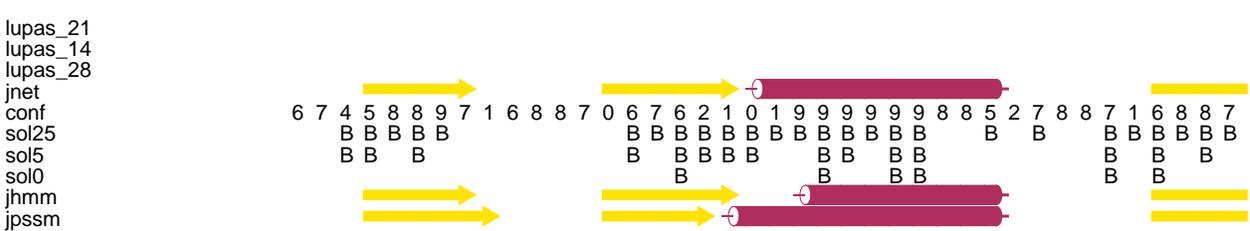
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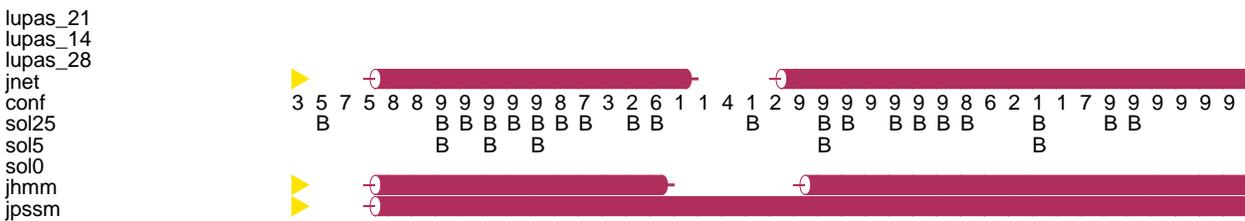
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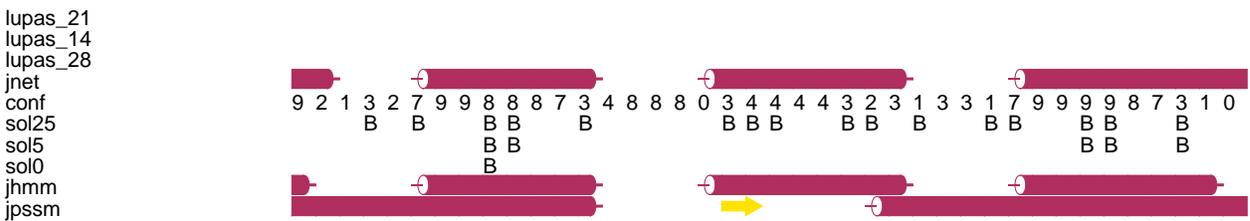
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