

QUERY 1 10 20 30 40
UniRef90_E3IC33 T T P H A T G S T R Q N G A P A V S D R Q S L T V G S E G P L V L H D T H L L E
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UniRef90_B8EIZ1 D S P P M T T A Q G A P V E D D N N S L R A G D R R G P T L M A D H A F R E
UniRef90_U5XKL5 P A L T T N Q G L P V S D N Q N S L R A T P R R G P T L L L E D F I L R E
UniRef90_A3TNN3 P A M T T D Q G A P V I G D N Q N S L K A G R R G P T L L L E D F H Q F R E
UniRef90_W6M2F8 P K P P A T T T D A G I P A E S D E H S L T L G P G G P I L L Q D H Y L I E
UniRef90_X7F8D1 S K E D Q K I T T T G S G N P V D S E N T A S L T A G P K G P I L L Q D F T L I D
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UniRef90_S0NX43 E G K I L T T S N E G V K I S D N E D S L K A G D R R G P T L L L E D F V L F R E
UniRef90_C8XTA9 L T T A A G A P V V D N Q N S L T A G P R R G P M L L E D V W F L E
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UniRef90_D8NYP9 S N P T K L T T T N Q G A P V A D N Q N S K T A G Q R R G P V L L Q D Y H L I E
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UniRef90_G8NVN9 T H L T T A F G A P V V D N Q N S L T A G P R R G P L L M Q D V W L L E
UniRef90_F9DUJ2 P T T T D A G I P A P S D E F L S V G P N G P L L L Q D H Y L I Q
UniRef90_S9T5G8 K D E G Q P L T T N H G L K L T N D E H S L T I G E R R G P T I M E D F H F R E
UniRef90_V4B843 P A M T T D Q G L P V A D N Q N S L R Q G P R R G P T L L E D F I L R E
UniRef90_A5V2X4 N E K K L T T A F G A P V P D N R N S A T A G K R R G P V L M Q D V W L M E
UniRef90_D6Y307 P Y L T T T N Q G T P V A D N Q N S K A T A G T H G P T L L L E D Y H L L E
UniRef90_F2F501 P H T T T N S G A P V A S D A H S L T V G P N G P I V L H D H Y L V E
UniRef90_B2FQF1 S Q K D K T V S T T S T G T P V S G T K A S V T V G E R R G P L L L Q D V H L I D
UniRef90_T0UAW4 I T T T S G M P V S S D E H S L T V G R R G P L L L H D L Y L I E
UniRef90_F5LE13 E K K N L T S V S G R P I A E N Q N V K T A G R R G P M L L E D F W F L E
UniRef90_UPI0003050D68 E K K N L T S V S G R P I A E N Q N V K T A G R R G P M L L E D F W F L E

QUERY	T	H	Q	H	F	N	R	M	N	50	P	E	R	R	P	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V	70	80
UniRef90_E3IC33	K	L	A	H	F	N	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_E8XYG5	K	L	A	H	F	N	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_F5SC10	K	L	A	H	F	N	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_C6X7H6	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_S9PJ95	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_A4XUL5	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_V4NW10	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_H8MMX5	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_K9UIE6	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_E3I5Q9	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_R4T003	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
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UniRef90_POA324	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_R6IU69	K	L	A	H	F	D	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_A9B4C7	K	L	A	H	F	D	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_I1D1X3	K	L	A	H	F	D	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_E9C033	K	L	A	H	F	D	R	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_Q1GYP5	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_UPI0003120B5B	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_UPI0002FBA531	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G	A	G	A	F	G	E	F	F	V	T	E	D	V	S	K	Y	T	K	A	K	V		
UniRef90_F0SKC6	K	L	A	H	F	D	H	E	R	V	P	E	R	R	V	H	A	K	G	S	G</																							

QUERY	F	P	Q	G	T	K	R	T	E	T	90	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_E3IC33	F	N	G	V	K	R	T	P	V	V	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_E8XYG5	L	E	K	P	E	K	K	T	V	V	F	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_F5SC10	L	E	K	P	E	K	K	T	V	V	F	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_C6X7H6	F	N	E	G	K	Q	T	P	V	V	F	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_A0A017T5K6	L	Q	D	P	S	K	T	P	V	V	F	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_S9PJ95	F	Q	R	V	E	R	T	P	A	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_A5VGE1	L	E	K	V	G	K	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_A4XUL5	L	E	K	V	G	K	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_A7HF62	L	E	K	V	G	K	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI00046A6BC8	F	S	A	G	K	K	T	P	V	V	F	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_F0SCD5	L	L	N	D	T	T	Q	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_A5WG15	L	L	T	K	T	K	Q	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_W5QM85	L	L	N	D	T	T	Q	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_V4NW10	F	Q	R	G	E	Q	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_H8MMX5	L	L	Q	D	P	S	K	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI000376B43C	L	L	S	E	M	K	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI00047BA364	L	L	Q	D	P	S	K	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI00041CB58B	L	L	Q	D	P	S	K	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_N6V5Z9	F	Q	P	G	E	Q	T	P	V	F	F	T	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_K9UIE6	L	G	D	P	A	K	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_E3I5Q9	F	Q	R	V	E	R	T	P	A	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_D7AY94	L	S	P	D	V	T	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_S4Y7Q2	L	L	S	D	P	S	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI000416F4DB	L	L	S	E	G	K	T	P	M	F	I	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_UPI0002659694	F	S	K	V	K	R	T	P	L	A	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_F5I2V0	L	L	Q	V	G	K	R	T	E	M	L	A	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_C7Q967	L	L	S	E	A	G	R	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_J3I716	L	L	S	D	P	Q	K	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI00040AFC23	L	L	S	E	V	K	E	T	E	V	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_N6YP21	F	T	K	G	K	R	T	P	V	F	F	A	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI000255EAEF	F	S	K	G	K	E	T	P	L	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_R4T003	L	L	S	T	S	G	E	K	T	P	V	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E
UniRef90_I1C9G4	L	L	S	H	V	K	T	T	P	V	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_F0P1T0	L	L	Q	K	G	V	K	T	P	L	F	T	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI0003F874F8	L	L	Q	E	M	Q	T	T	P	V	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_P0A324	F	A	E	V	K	Q	T	P	L	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_R6IU69	F	S	E	V	K	K	T	D	C	F	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_A9B4C7	F	A	V	G	K	Q	T	P	M	L	L	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_I1D1X3	F	S	E	V	K	K	T	D	L	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_E9C033	L	L	E	R	V	K	R	T	P	L	F	T	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_Q1GYP5	L	L	E	K	G	K	Q	T	P	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI0003120B5B	L	L	Q	P	G	K	K	T	E	V	L	A	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E	
UniRef90_UPI0002FBA531	F	Q	P	G	A	V	T	E	T	L	L	R	F	S	S	V	A	G	E	100	G	P	D	T	W	R	D	V	110	R	G	F	A	L	R	F	Y	T	E	E		
UniRef90_F0SKC6	L	L	Q	E	V	G	R	T	E	V	F	V	R	F	S	T	V	A	G	E	100	G	P	D	T	W	R	D	V	11												

QUERY	130	140	150	160
UniRef90_E3IC33	G	N	Y	D
UniRef90_E8XYG5	G	N	Y	D
UniRef90_F5QCI	G	N	Y	D
UniRef90_C6X7H6	G	N	W	D
UniRef90_A0A017T5K6	G	N	F	D
UniRef90_S9PJ95	G	N	W	D
UniRef90_A5VGE1	G	N	W	D
UniRef90_A4XUL5	G	N	F	D
UniRef90_A7HF62	G	N	Y	D
UniRef90_UPI00046A6BC8	G	N	W	D
UniRef90_F0SCD5	G	N	F	D
UniRef90_A5VGI5	G	N	W	D
UniRef90_W5QM85	G	N	F	D
UniRef90_V4NW10	G	N	W	D
UniRef90_H8MMX5	G	N	F	D
UniRef90_UPI000376B43C	G	N	W	D
UniRef90_UPI00047BA364	G	N	F	D
UniRef90_UPI00041CB58B	G	N	Y	D
UniRef90_N6VSZ9	G	N	W	D
UniRef90_K9UIE6	G	N	Y	D
UniRef90_E3I5Q9	G	N	W	D
UniRef90_D7AY94	G	N	Y	D
UniRef90_S4Y7Q2	G	N	F	D
UniRef90_UPI000416F4DB	G	N	Y	D
UniRef90_UPI0002659694	G	N	W	D
UniRef90_F5I2V0	G	N	Y	D
UniRef90_C7Q967	G	N	Y	D
UniRef90_J3I716	G	N	F	D
UniRef90_UPI00040AFC23	G	N	Y	D
UniRef90_N6YP21	G	N	W	D
UniRef90_UPI000255EAEF	G	N	W	D
UniRef90_R4T003	G	N	Y	D
UniRef90_I1C9G4	G	N	W	D
UniRef90_F0P1T0	G	N	F	D
UniRef90_UPI0003F874F8	G	N	Y	D
UniRef90_POA324	G	N	W	D
UniRef90_R6IU69	G	N	W	D
UniRef90_A9B4C7	G	N	W	D
UniRef90_I1D1X3	G	N	W	D
UniRef90_E9C033	G	N	W	D
UniRef90_Q1GYP5	G	N	F	D
UniRef90_UPI0003120B5B	G	N	H	D
UniRef90_UPI0002FBA531	G	N	Y	D
UniRef90_F0SKC6	G	N	Y	D
UniRef90_C6IXP8	G	N	Y	D
UniRef90_W4CW74	G	N	Y	D
UniRef90_UPI00031A2C75	G	N	W	D
UniRef90_B3SC13	G	N	W	D
UniRef90_E6VRB5	G	N	Y	D
UniRef90_E5Y7Y1	G	N	W	D
UniRef90_UPI00037A4212	G	N	W	D
UniRef90_I1AWF4	G	N	W	D
UniRef90_B8EIZ1	G	N	W	D
UniRef90_U5XKL5	G	N	W	D
UniRef90_A3TNN3	G	N	W	D
UniRef90_W6M2F8	G	N	W	D
UniRef90_X7F8D1	G	N	W	D
UniRef90_D9V457	G	N	Y	D
UniRef90_G9C5E5	G	N	W	D
UniRef90_A0A024F826	G	N	W	D
UniRef90_Q2J8T5	G	N	F	D
UniRef90_E3J8D3	G	N	W	D
UniRef90_E8TEE7	G	N	W	D
UniRef90_T2GEQ2	G	N	Y	D
UniRef90_UPI00036AE079	G	N	W	D
UniRef90_UPI0002881FA1	G	N	Y	D
UniRef90_H8L4U2	G	N	W	D
UniRef90_F9DVW7	G	N	W	D
UniRef90_G7CFI7	G	N	F	D
UniRef90_N2IZM5	G	N	W	D
UniRef90_S0NX43	G	N	Y	D
UniRef90_C8XTA9	G	N	W	D
UniRef90_D8JSM0	G	N	W	D
UniRef90_H1Z408	G	N	Y	D
UniRef90_W4ERT8	G	N	F	D
UniRef90_D8NYP9	G	N	W	D
UniRef90_UPI00047901C5	G	N	W	D
UniRef90_G8NVN9	G	N	W	D
UniRef90_F9DUI2	G	N	Y	D
UniRef90_S9T5G8	G	N	Y	D
UniRef90_V4B843	G	N	W	D
UniRef90_A5V2X4	G	N	W	D
UniRef90_D6Y307	G	N	Y	D
UniRef90_F2F501	G	N	Y	D
UniRef90_B2FQF1	G	N	W	D
UniRef90_T0UAW4	G	N	W	D
UniRef90_F5LE13	G	N	Y	D
UniRef90_UPI00047BC0DE	G	N	Y	D
UniRef90_J9HGP0	G	N	W	D
UniRef90_F5T210	G	N	Y	D
UniRef90_UPI0003050D68	G	N	W	D

QUERY	M	Q	W	D	F	W	T	N	N	170	S	A	H	Q	V	T	Y	L	180	M	G	P	R	G	L	P	R	T	W	R	E	M	N	G	Y	G	S	H	T	Y			
UniRef90_E3IC33	A	M	W	D	F	W	S	L	S	P	E	S	L	H	Q	V	T	Y	L	F	G	D	R	G	L	P	L	T	Y	R	H	M	N	G	Y	G	S	H	T	F			
UniRef90_E8XYG5	S	F	W	D	F	W	S	L	S	P	E	S	L	H	Q	V	T	Y	L	F	G	D	R	G	L	P	L	T	Y	R	H	M	N	G	Y	G	S	H	T	F			
UniRef90_F5XC10	M	V	W	D	F	W	S	L	S	P	E	S	L	H	Q	V	T	Y	L	H	G	D	R	G	L	P	P	A	T	Y	R	H	M	N	G	Y	G	S	H	T	F		
UniRef90_C6X7H6	T	Y	W	D	F	W	S	L	M	P	E	S	T	H	M	L	W	Q	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	Q	G	F	G	V	H	T	F			
UniRef90_A0A017T5K6	S	F	W	D	F	A	S	L	M	P	E	S	T	H	M	L	M	W	A	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	Q	G	F	G	V	H	T	F		
UniRef90_S9PJ95	S	F	W	D	F	I	S	L	M	P	E	S	T	A	H	M	L	M	W	V	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	E	G	F	G	V	H	T	F	
UniRef90_A5VGE1	N	F	W	D	F	I	S	L	T	P	E	S	A	H	M	I	M	W	A	M	S	D	R	A	I	P	P	R	S	F	R	T	M	E	G	F	G	V	H	T	F		
UniRef90_A4XUL5	T	F	W	D	F	V	S	L	M	P	E	S	T	A	H	M	L	L	W	T	M	S	D	R	A	I	P	L	A	Y	R	S	M	Q	G	F	G	V	H	S	F		
UniRef90_A7HF62	T	F	W	D	F	V	S	L	M	P	E	S	T	H	M	L	L	W	L	M	S	D	R	A	I	P	P	R	S	F	S	M	M	Q	G	F	G	V	H	T	F		
UniRef90_UP100046A6BC8	T	F	W	D	F	V	S	L	M	P	E	S	T	M	H	M	L	M	W	A	M	S	D	R	A	I	P	P	R	S	F	R	M	M	Q	G	F	G	V	H	T	F	
UniRef90_F0SCD5	T	F	W	D	F	I	S	L	M	P	E	S	T	H	M	I	M	W	L	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_A5WG15	T	F	W	D	F	V	S	L	S	P	E	T	M	H	N	L	I	W	L	M	S	D	R	A	I	P	P	R	S	L	R	M	M	E	G	F	G	I	H	S	Y		
UniRef90_W5QM85	T	F	W	D	F	I	S	L	M	P	E	S	M	H	M	I	M	W	V	M	S	D	R	A	I	P	P	R	S	F	R	F	M	M	E	G	F	G	I	H	T	F	
UniRef90_V4NW10	N	F	W	D	F	I	S	L	M	P	E	S	M	H	M	I	M	W	T	M	S	D	R	A	I	P	P	R	S	G	F	R	F	M	M	E	G	F	G	V	H	T	F
UniRef90_H8MMX5	S	F	W	D	F	V	S	L	V	P	E	T	M	H	M	V	M	W	L	M	S	D	R	A	I	P	P	R	S	F	R	M	M	Q	G	F	G	V	H	T	F		
UniRef90_UP1000376B43C	T	F	W	D	F	V	S	L	M	P	E	T	L	H	T	V	I	W	A	M	S	D	R	A	I	P	P	R	S	F	R	M	M	Q	G	F	G	I	H	T	F		
UniRef90_UP100047BA364	T	F	W	D	F	V	S	L	Q	P	E	T	L	H	N	V	I	W	A	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	E	G	F	G	I	H	T	F		
UniRef90_UP100041CB58B	T	F	W	D	F	V	A	N	N	E	E	T	A	H	M	I	M	W	A	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_N6V5Z9	N	F	W	D	F	S	T	L	M	P	E	S	M	H	M	L	M	W	I	M	S	D	R	A	I	P	P	R	S	F	R	F	M	E	G	F	G	V	H	S	F		
UniRef90_K9UIE6	S	F	W	D	F	I	S	L	V	P	E	S	M	H	M	I	M	W	L	M	S	D	R	A	I	P	P	R	S	N	F	S	T	M	Q	G	F	G	V	H	T	F	
UniRef90_E3I5Q9	N	F	W	D	F	I	S	L	S	P	E	S	M	H	M	V	M	W	V	M	S	D	R	A	I	P	P	R	S	F	R	F	M	E	G	F	G	V	H	T	F		
UniRef90_D7AY94	T	L	W	D	F	V	G	L	S	L	Q	P	E	T	T	H	M	M	W	L	M	S	D	R	A	I	P	P	R	S	Y	R	T	M	Q	G	F	G	V	H	T	F	
UniRef90_S4Y7Q2	T	F	W	D	F	V	S	L	M	P	E	S	T	H	M	A	M	W	V	L	S	D	R	A	I	P	P	R	S	F	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_UP1000416F4DB	M	V	W	D	F	W	S	L	S	P	E	S	L	H	Q	V	L	Y	L	H	G	D	R	G	L	P	P	A	T	Y	R	H	M	N	G	Y	G	S	H	T	F		
UniRef90_UP10002659694	M	F	W	D	F	I	A	L	L	R	P	E	T	T	H	Q	V	L	I	L	F	S	D	R	G	L	P	D	G	Y	R	H	M	N	G	Y	G	S	H	T	F		
UniRef90_F5I2V0	A	F	W	D	F	V	S	L	T	P	E	S	T	H	Q	V	L	I	L	F	S	D	R	G	T	P	D	G	Y	R	H	M	H	G	F	G	S	H	T	F			
UniRef90_C7Q967	T	F	W	D	F	C	S	L	L	Q	P	E	S	T	H	M	L	M	W	A	M	S	D	R	A	I	P	P	R	S	L	R	M	M	Q	G	F	G	V	H	T	F	
UniRef90_J3I716	T	F	W	D	F	V	S	L	V	P	E	S	A	H	M	V	M	W	T	M	S	D	R	A	I	P	K	S	L	R	T	M	Q	G	F	G	V	H	T	F			
UniRef90_UP100040AFC23	A	V	W	D	F	A	S	L	P	E	S	T	L	H	Q	V	T	L	L	F	S	D	R	G	T	P	P	R	S	Y	R	H	M	D	G	F	S	S	H	T	F		
UniRef90_N6YP21	T	F	W	D	F	V	S	L	M	P	E	S	T	H	M	L	M	W	A	M	S	D	R	A	I	P	P	R	S	L	R	M	M	Q	G	F	G	V	H	T	F		
UniRef90_UP1000255EAEF	T	F	W	D	F	V	S	L	M	P	E	S	T	H	M	L	M	W	L	M	S	D	R	A	I	P	P	R	S	F	R	F	M	Q	G	F	G	V	H	T	F		
UniRef90_R4T003	T	F	W	D	F	V	S	L	V	P	E	S	L	H	M	V	L	W	L	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	Q	G	F	G	V	H	T	F		
UniRef90_I1C9G4	A	F	W	D	F	V	S	L	Q	P	E	S	T	L	H	Q	V	T	L	L	F	S	N	R	G	T	P	D	G	Y	R	H	L	N	G	F	S	S	H	T	L		
UniRef90_F0P1T0	T	F	W	D	F	V	S	L	M	P	E	S	A	H	M	I	M	W	V	M	S	D	R	A	I	P	P	R	S	L	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_UP10003F874F8	T	F	W	D	F	V	S	L	M	P	E	S	M	H	M	I	M	W	V	M	S	D	R	A	I	P	P	R	S	Y	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_POA324	A	A	W	D	F	W	S	L	M	P	E	S	L	H	Q	V	T	L	L	M	S	D	R	G	L	P	Q	N	Y	R	Q	Q	H	G	F	G	S	H	T	Y			
UniRef90_R6IU69	N	N	W	D	F	W	T	L	L	P	E	A	L	H	Q	V	T	I	L	M	S	S	R	G	L	P	Y	S	Y	R	H	M	H	G	F	G	S	H	T	Y			
UniRef90_A9B4C7	A	M	W	D	F	W	S	L	S	P	E	S	L	H	Q	V	T	I	L	F	S	D	R	G	L	P	L	S	Y	R	F	V	H	H	G	F	G	S	H	T	Y		
UniRef90_I1D1X3	N	N	W	D	F	W	T	N	L	P	E	S	L	H	Q	V	T	I	L	M	S	D	R	G	L	P	A	S	Y	R	H	M	H	G	F	G	S	H	T	Y			
UniRef90_E9C033	M	F	W	D	F	L	S	Q	T	P	E	S	C	H	Q	V	S	L	L	F	S	S	R	G	T	P	D	G	Y	R	H	M	H	G	F	S	S	H	T	L			
UniRef90_Q1GYP5	T	F	W	D	F	V	S	L	Q	P	E	S	A	H	A	V	I	W	A	M	S	D	R	A	I	P	P	R	S	L	R	A	M	Q	G	F	G	V	H	T	F		
UniRef90_UP10003120B5B	Q	Q	W	D	Y	W	T	L	R	P	E	S	A	H	Q	V	T	W	L	L	G	D	R	G	L	P	K	T	W	R	H	A	M	Q	D	F	G	S	H	T	Y		
UniRef90_UP10002FBA531	M	Q	W	D	F	W	T	L	S	P	E	S	A	H	Q	V	T	W	L	M	G	D	R	G	L	P	N	S	W	R	T	M	N	G	Y	G	S	H	T	F			
UniRef90_F0SKC6	T	F	W	D	F	V	S	L	T	P	E	S	M	H	M	L	M	W	A	M	S	D	R	A	I	P	P	R	S	L	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_C6IXP8	R	Y	W	D	F	M	T	L	S	T	E	S	T	H	M	M	T	W	V	F	S	D	Y	G	T	P	A	N	Y	R	M	D	G	F	G	V	H	A	F				
UniRef90_W4CW74	T	F	W	D	F	I	A	N	N	Q	E	S	A	H	M	A	M	W	L	M	S	D	R	A	I	P	P	R	S	F	R	M	M	E	G	F	G	V	H	T	F		
UniRef90_UP100031A2C75	T	F	W	D	F	A	S	L	M	P	E	S	T	H	M	L	M	W	A	M	S	D	R	T	L	P	P	R	S	L	R	M	E	G	F	G	V	H	T	F			
UniRef90_B3SC13	M	F	W	D	F	I	S	L	R	R	E	T	T	H	Q	V	S	F	L	F	T	D	R	G	T	P	D	G	Y	R	H	M	N	G	Y	G	S	H	T	F			
UniRef90_E6VRB5	M	A	W	D	F	W	S	L	T	P	E	S	I	H	Q	V	T	I	L	F	S	D	R	G	T	P	A	T	F	R	N	M	N	G	Y	S	S	H	T	Y			
UniRef90_E5Y7Y1	N	N	W	D	F	W	T	L	L	P	E	A	L	H	Q	V	T	V	V	M	S	D	R	T	L	P	A	S	Y	R	H	M	H	G	F	G	S	H	T	Y			
UniRef90_UP100037A4212	T	F	W	D	F	I	S	L	T	P	E	A	M	H	M	V	M	W	I	M	S	D	R	T	L	P	P	R	S	L	R	M	E	G	F	G	V	H	S	F			
UniRef90_I1AWF4	N	F	W	D	F	I	S	L	M	P	E	S	M	N	M	V	L	W	L	M	S	D	R	A	I	P	P	R	S	F	R	F	M	E	G	F	G	V	H	T	F		
UniRef90_B8EIZ1	T	F	W	D	F	V	S	L	M	P	E	S	T	H	M	I	M	W	A	M	S	D	R	T	L	P	P	R	S	L	R	T	M	E	G	F	G						

QUERY	210	220	230	240
UniRef90_E3IC33	KVVVNAEKGG	EAQVWV	KYHFFK	STNQGGV
UniRef90_E8XYG5	RFLVNDKQGG	KATFVW	KYHFFK	SLDQAGG
UniRef90_F5SC10	KWVFNADKQ	QKQFVW	KYHFFK	SLDQGGV
UniRef90_C6X7H6	RLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A0A017T5K6	RLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_S9PJ95	RLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A5VGE1	RLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A4XUL5	RLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A7HF62	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI00046A6BC8	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_F0SCD5	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A5WGI5	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_W5QM85	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_V4NW10	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_H8MMX5	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI000376B43C	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI00047BA364	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI00041CB58B	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_N6VSZ9	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_K9UIE6	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_E3I5Q9	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_D7AY94	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_S4Y7Q2	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI000416F4DB	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI0002659694	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F5I2V0	MWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_C7Q967	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_J3I716	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI00040AFC23	SWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_N6YP21	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI000255EAEF	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_R4T003	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_I1C9G4	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_F0P1T0	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI0003F874F8	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_POA324	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_R6IU69	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_A9B4C7	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_I1D1X3	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_E9C033	KMVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_Q1GYP5	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI0003120B5B	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI0002FBA531	MWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F0SKC6	RMEFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_C6IXP8	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_W4CW74	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_UPI00031A2C75	KMVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_B3SC13	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_E6VRB5	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_E5Y7Y1	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI00037A4212	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_I1AWF4	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_B8EIZ1	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_U5XKL5	KMVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_A3TNN3	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_W6M2F8	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_X7F8D1	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_D9V457	MWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_G9C5E5	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A0A024F826	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_Q2J8T5	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_E3J8D3	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_E8TEE7	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_T2GEQ2	LWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI00036AE079	SLVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI0002881FA1	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_H8L4U2	SLVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F9DVW7	SWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_G7CFI7	SWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_N2IZM5	SWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_S0NX43	LWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_C8XTA9	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_D8JSM0	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_H1Z408	LWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_W4ERT8	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_D8NYP9	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI00047901C5	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_G8NVN9	SLVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F9DUI2	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_S9T5G8	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_V4B843	KMLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_A5V2X4	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_D6Y307	LWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F2F501	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_B2FQF1	RFLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_T0UAW4	SLVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_F5LE13	KWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI00047BC0DE	QWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_J9HGP0	KLVNDKQNE	SQVFC	KYHFFK	SLVAGV
UniRef90_F5T210	LWVFNADKQ	DEFVY	KYHFFK	STNQGGV
UniRef90_UPI0003050D68	SFVFNADKQ	DEFVY	KYHFFK	STNQGGV

QUERY	K	T	I	S	Q	K	D	Y	P	R	I	K	V	G	T	L	T	L	N	300	P	E	N	H	F	A	Q	I	E	S	A	A	F	S	P	S	N	T	V	320				
UniRef90_E3IC33	K	V	W	S	H	K	D	Y	P	L	I	E	V	G	R	M	V	L	N	R	R	N	P	E	N	F	A	E	E	Q	S	A	A	F	F	P	G	N	L	V				
UniRef90_E8XYG5	K	L	I	P	E	K	L	V	P	V	E	L	I	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	S	A	A	F	H	P	G	N	L	V			
UniRef90_F5SC10	K	T	I	V	S	E	K	D	Y	P	R	I	E	V	G	K	L	V	L	N	R	R	N	P	E	N	H	F	A	E	E	Q	S	A	A	F	T	P	G	N	L	V		
UniRef90_C6X7H6	K	L	I	P	E	E	E	M	V	P	V	T	P	I	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	T	A	S	N	L	V		
UniRef90_A0A017T5K6	K	L	I	P	E	E	E	L	V	P	V	R	R	V	G	K	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_S9PJ95	K	L	I	P	E	E	E	L	V	P	V	R	R	V	G	K	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_A5VGE1	K	I	I	P	E	E	E	L	V	P	V	R	V	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_A4XUL5	K	L	V	P	E	E	E	L	V	P	V	R	V	V	G	R	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	H	V	I	G	H	V	V		
UniRef90_A7HF62	K	L	V	P	E	E	E	L	V	P	V	R	T	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_UPI00046A6BC8	K	I	V	P	E	E	E	L	V	P	V	M	P	V	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_F0SCD5	K	I	I	P	E	E	E	L	V	P	V	R	R	V	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	H	V	I	G	H	V	V		
UniRef90_A5WGI5	K	L	I	P	E	E	E	L	V	P	V	K	I	V	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_W5QM85	K	I	V	P	E	E	E	L	V	P	V	T	P	I	G	K	L	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	I	A	F	H	T	P	G	S	H	L	V	
UniRef90_V4NW10	K	L	I	P	E	E	E	L	V	P	V	R	V	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_H8MMX5	K	L	I	P	E	E	E	L	V	P	V	Q	I	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_UPI000376B43C	K	I	I	P	E	E	E	L	V	P	V	R	V	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	L	P	S	N	I	V			
UniRef90_UPI00047BA364	K	L	I	P	E	E	S	L	V	P	V	R	V	V	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	A	S	N	L	V
UniRef90_UPI00041CB58B	K	L	W	P	E	E	A	V	P	V	K	L	I	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	A	A	F	C	P	P	G	N	I	V			
UniRef90_N6V5Z9	K	I	I	P	E	E	E	V	P	V	R	K	V	G	K	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	T	Q	N	I	V				
UniRef90_K9UIE6	K	M	I	P	E	E	E	V	P	V	R	P	I	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	Q	Q	T	S	N	I	V			
UniRef90_E3I5Q9	K	I	I	P	E	E	E	V	P	V	R	V	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	Q	N	I	V		
UniRef90_D7AY94	K	I	I	P	E	E	E	Q	V	P	V	R	P	I	G	K	L	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	H	T	T	A	N	I	V		
UniRef90_S4Y7Q2	K	L	V	P	E	E	E	V	P	V	R	R	I	G	K	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	H	T	T	A	N	I	V			
UniRef90_UPI000416F4DB	K	T	I	V	P	K	D	Y	P	R	I	E	V	G	R	M	V	L	N	R	R	N	P	E	N	F	A	E	E	Q	A	A	F	S	P	A	N	L	V					
UniRef90_UPI0002659694	K	V	W	S	H	A	Q	Y	P	L	I	P	V	G	K	I	V	L	N	R	R	N	P	T	N	Y	F	A	E	E	Q	A	A	F	S	P	A	N	L	V				
UniRef90_F5I2V0	K	V	W	F	H	S	D	Y	P	L	I	P	V	G	K	I	V	L	N	R	R	N	P	Q	E	N	F	F	A	E	E	Q	A	A	F	S	P	A	N	L	V			
UniRef90_C7Q967	K	L	I	P	E	E	L	V	P	V	K	V	I	G	R	M	V	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	H	T	T	A	N	I	V			
UniRef90_J3I716	K	I	I	P	E	E	L	V	P	I	T	P	L	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	P	G	H	I	V				
UniRef90_UPI00040AFC23	K	V	W	P	H	A	A	H	P	L	T	E	I	G	E	L	V	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	S	A	F	S	P	A	N	I	V				
UniRef90_N6YP21	K	L	V	P	E	E	L	C	P	V	L	T	V	G	R	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	T	A	S	N	L	V		
UniRef90_UPI000255EAEF	K	I	I	P	E	E	Q	V	P	V	R	F	I	G	T	M	Q	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	M	T	T	A	N	I	V			
UniRef90_R4T003	K	L	I	P	E	E	Q	V	P	V	R	P	V	G	R	M	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	A	A	F	H	T	T	A	N	I	V			
UniRef90_I1C9G4	K	V	W	S	H	K	D	Y	P	V	L	K	V	G	K	L	T	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	S	P	S	H	I	V				
UniRef90_F0P1T0	K	I	V	P	E	E	V	V	P	V	K	T	I	G	T	M	T	L	N	K	N	P	D	N	F	F	A	E	E	Q	I	A	F	D	P	G	R	I	V					
UniRef90_UPI0003F874F8	K	I	V	P	E	E	I	V	P	I	T	I	I	G	R	M	V	L	N	K	N	P	D	N	F	F	A	E	E	Q	I	A	F	H	T	T	A	N	I	V				
UniRef90_P0A324	K	V	W	P	H	A	D	Y	P	L	I	E	V	G	V	L	E	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	T	P	A	N	I	V				
UniRef90_R6IU69	K	V	W	P	H	K	D	F	P	L	M	D	V	G	I	L	E	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	N	P	M	N	T	V				
UniRef90_A9B4C7	K	V	W	S	H	K	D	Y	P	L	I	E	V	G	T	M	E	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	N	P	A	N	I	V				
UniRef90_I1D1X3	K	V	W	S	Q	K	A	Y	P	L	I	E	V	G	E	W	E	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	N	P	A	N	I	V				
UniRef90_E9C033	K	V	W	S	Q	K	A	Y	P	L	I	E	V	G	R	M	V	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	S	P	S	H	M	V				
UniRef90_Q1GYP5	K	I	V	P	E	E	L	V	P	I	T	P	L	G	K	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	A	A	F	S	P	G	N	L	V				
UniRef90_UPI0003120B5B	K	V	W	S	Q	K	D	Y	P	L	I	E	V	G	K	L	T	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	S	P	S	N	L	V				
UniRef90_UPI0002FBA531	K	V	W	P	Q	G	D	Y	P	L	I	E	V	G	K	L	T	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	A	P	S	N	F	V				
UniRef90_F0SKC6	K	L	V	P	E	E	M	V	P	L	Q	L	P	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	P	S	H	V	L	V			
UniRef90_C6IXP8	K	V	W	P	E	D	S	Y	P	L	I	K	I	G	T	M	T	L	N	R	R	N	P	Q	N	F	F	A	E	E	Q	S	A	F	S	P	S	V	L	V				
UniRef90_W4CW74	K	L	W	P	E	E	D	V	P	V	Q	T	V	G	K	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	H	P	G	H	I	V				
UniRef90_UPI00031A2C75	K	L	I	P	E	E	S	D	V	P	V	R	I	I	G	T	M	T	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	L	P	S	N	I	V			
UniRef90_B3SC13	K	I	W	P	H	S	E	F	P	L	I	P	V	G	K	M	V	L	N	R	R	N	P	K	N	F	F	A	E	E	Q	I	A	F	A	P	A	N	I	V				
UniRef90_E6VRB5	K	V	W	P	H	K	E	V	P	P	I	T	V	G	K	L	V	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	N	P	S	N	L	V				
UniRef90_E5Y7Y1	K	V	W	Y	H	K	D	Y	P	L	I	E	V	G	E	L	E	L	N	R	R	N	P	E	N	F	F	A	E	E	Q	A	A	F	N	P	A	N	I	V				
UniRef90_UPI00037A4212	K	L	I	P	E	E	L	V	P	L	Q	V	I	G	R	M	M	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	P	S	H	V	L	V		
UniRef90_I1AWF4	K	L	I	P	E	E	D	L	P	V	R	V	V	G	R	L	V	L	N	R	R	N	P	D	N	F	F	A	E	E	Q	V	A	F	C	C	C	T	Q	N	I	V		
UniRef90_B8EIZ1	K	I	I	P	E	E	S	L	P	V	R	L	I	G	R	M	V	L	N	D	R	Y	P	D	N	F	F	A	E	E	Q	V	A	F</										

QUERY UniRef90_E3IC33 UniRef90_E8XYG5 UniRef90_F5SC10 UniRef90_C6X7H6 UniRef90_A0A017T5K6 UniRef90_S9PJ95 UniRef90_A5VGE1 UniRef90_A4XUL5 UniRef90_A7HF62 UniRef90_UPI00046A6BC8 UniRef90_F0SCD5 UniRef90_A5WGI5 UniRef90_W5QM85 UniRef90_V4NW10 UniRef90_H8MMX5 UniRef90_UPI000376B43C UniRef90_UPI00047BA364 UniRef90_UPI00041CB58B UniRef90_N6VSZ9 UniRef90_K9UIE6 UniRef90_E3I5Q9 UniRef90_D7AY94 UniRef90_S4Y7Q2 UniRef90_UPI000416F4DB UniRef90_UPI0002659694 UniRef90_F5I2V0 UniRef90_C7Q967 UniRef90_J3I716 UniRef90_UPI00040AFC23 UniRef90_N6YP21 UniRef90_UPI000255EAEF UniRef90_R4T003 UniRef90_I1C9G4 UniRef90_F0P1T0 UniRef90_UPI0003F874F8 UniRef90_POA324 UniRef90_R6IU69 UniRef90_A9B4C7 UniRef90_I1D1X3 UniRef90_E9C033 UniRef90_Q1GYP5 UniRef90_UPI0003120B5B UniRef90_UPI0002FBA531 UniRef90_F0SKC6 UniRef90_C6IXP8 UniRef90_W4CW74 UniRef90_UPI00031A2C75 UniRef90_B3SC13 UniRef90_E6VRB5 UniRef90_E5Y7Y1 UniRef90_UPI00037A4212 UniRef90_I1AWF4 UniRef90_B8EIZ1 UniRef90_U5XKL5 UniRef90_A3TNN3 UniRef90_W6M2F8 UniRef90_X7F8D1 UniRef90_D9V457 UniRef90_G9C5E5 UniRef90_A0A024F826 UniRef90_Q2J8T5 UniRef90_E3J8D3 UniRef90_E8TEE7 UniRef90_T2GEQ2 UniRef90_UPI00036AE079 UniRef90_UPI0002881FA1 UniRef90_H8L4U2 UniRef90_F9DVW7 UniRef90_G7CFI7 UniRef90_N2IZM5 UniRef90_S0NX43 UniRef90_C8XTA9 UniRef90_D8JSM0 UniRef90_H1Z408 UniRef90_W4ERT8 UniRef90_D8NYP9 UniRef90_UPI00047901C5 UniRef90_G8NVN9 UniRef90_F9DUI2 UniRef90_S9T5G8 UniRef90_V4B843 UniRef90_A5V2X4 UniRef90_D6Y307 UniRef90_F2F501 UniRef90_B2FQF1 UniRef90_T0UAW4 UniRef90_F5LE13 UniRef90_UPI00047BC0DE UniRef90_J9HGP0 UniRef90_F5T210 UniRef90_UPI0003050D68

A V H N Y A F E G Q M W Y D H T G D R S T Y V P N S S F N G D S W S D E T G P V D D
E V N N N Y Q R D D G G F M R F D N N D G T G S V N Y Y E P N S S F N G D S W S D E T G P V D D
P F H N N F Q R D D G G M H R Q D I N D T G N E P A N Y E E P N S S L L N G N W P E E D R K P K N A A S G A
D V H H N N Q R D D G G Y M A V G N G D G G E P A N Y E E P N S S L L N G N W P E E D R K P K N A A S G A
P V H H N N Q R D D G G M H R Q S I I P T R G R V A Y E E P N S S L L A G G G C C P A E F Q A G M Q G F Y
P V D N N H Q Q D D G G F H K R I I P T E R K A N Y Y T P N S S L L I G G G C C P A E F Q A G M Q G F Y
UniRef90_S9PJ95 P V H H N N Q R D D G G F H K R H T I P T E G R A N Y Y T P N S S L L I G G G C C P A E F Q A G M Q G F Y
UniRef90_A5VGE1 P V A H F Q Q D D G G H M A M T N P R R G R V A Y E E P N S S W G G G P P R E T D P V R G F R
UniRef90_A4XUL5 P F H H N N Q R D D A P H R Q Q A I I N R R G R A A Y E E P N S S L L D G G N W P P P A P T G T
UniRef90_A7HF62 Q Q V H H N V Q R D D G M H R Q A I I N R R G R A A Y E E P N S S L L A G G G C C P F Q Q A G A A G F
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UniRef90_A5WGI5 P F A N N M Q Q D D G H M Q M Q V P K K G R V M Y E E P N Q S L L D P S K P R E S E K E K G F F
UniRef90_W5QM85 P S H N N Q R D D A K M R M Q T I N K G R V A Y D E P N S S L S F G C P F Q A K I K E F
UniRef90_V4NW10 P F H H N F Q Q D D G F H M A M T N P N K G R V A Y E E P N S S Y G G G P R E S Q A T G F R S F
UniRef90_H8MMX5 P V H H N H Q Q D D G F G R H T S N V G R A N Y Y F P N S S L L G G G C C P S Q Q G G Y V H H
UniRef90_UPI000376B43C P Y A N M M R D D G M M Q T Q V P R G R A N Y E E P N S S L D Q A G E E T G P R A N G
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UniRef90_UPI00041CB58B P F H H N N Q Y D G Y H R M T I N Q G P V A Y H Q N S S L L N N N D P R A P A S A S E E
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UniRef90_E3I5Q9 P F A T F Q Q D D G H M T M R N P R G R A N Y E E P N S S W G G P R E S P E K G F K
UniRef90_D7AY94 P V S N N Q R D D G F A Q H R V I H R G G T S Y H P N S S L G G G C C P A E G V Y R H Y
UniRef90_S4Y7Q2 P V H H N N Q R D D G F M Q Q R I K Q G R A H Y V P N S S L A G G G C C P V T A S W E T
UniRef90_UPI000416F4DB G A N N Y Q R D D G F M R T D N G G S V N Y E E P N S S F D D G P S E T D R G R I D
UniRef90_UPI0002659694 T V R N T Q R D D G P M C N G N Q G A A P N Y H P N S S F G S L A C D P Q Y K E H S
UniRef90_F5I2V0 P M H H N Y Q R D D G H M G I G S Q E S A P N Y Y A P N S S F N G P A P D A K F T P P
UniRef90_C7Q967 D V H H T N H R D D G Y G N Q Q V I H R S G V S Y A P N S S L S G N N P H Q A G Q E R P Q
UniRef90_J3I716 P F H H N G Q R D D A Q H R T T I D K G R A S Y E E P N S S L D S G W P K E T P P A F E P
UniRef90_UPI00040AFC23 A V A N N Q R D D G A M R F D N N G K G V A Y E E P N S S F G G P K Q D P A A A E P
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UniRef90_UPI000255EAEF P V M H F Q R D D G H M Q M G R Q A G R A N Y E E P N S S F T G A G G P R A D R Q A
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UniRef90_I1C9G4 R V S N H Q R D D G Q M A V N G N G S A P N Y E E P N S S F S G P Q Q T N A A T T F T
UniRef90_F0P1T0 Q K H N N Q K D G S S R I D I L K G N V S Y F P N S S K A S G C C P Y Q A M W K G E
UniRef90_UPI0003F874F8 P V H H N N Q R D D G H M R Q E I N K G R V S Y H P N S S L G G G C C P Y A K I A E G P
UniRef90_POA324 P F H S F H R D D G M G R V D N G G A T L N Y E E P N S S F G E W R E A K H A E P
UniRef90_R6IU69 P F H A Y H R D D G A M R V D N Y G A A K G Y E E P N S S F G E W K D S P E K A E P
UniRef90_A9B4C7 P V N T Y H R D D G A M R F D N G G S T V N Y E E P N S S F G G P V Q N E R Y A E P
UniRef90_I1D1X3 P V N S Y H R D D G A M R V D N Q G S T P G I E P N S S Y G R W Q E P A Y R E P
UniRef90_E9C033 A V S N H Q R D D G F M A N G N G G K L P N Y E P S S S F G G P K E D K T T D A S
UniRef90_Q1GYP5 P F H H N N Q R D D A L H R T T I H K Q Q A A Y E E P N S S L D G G W P A Q D P P A A K D
UniRef90_UPI0003120B5B P V H S Y Y K D G A S Q I W N D P K E I L P V Y A P N S S Y G G P A A D P A D N E G
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UniRef90_F0SKC6 P F H N L Q R D D G H M Q M D V P T G R V A N E E P N S S L S K E T P R E D E T G F R
UniRef90_C6IXP8 P V R N H Q R D D G F M N V K Q D P S P I N Y E E P N S S F D S P K E P R A Y R D S
UniRef90_W4CW74 P F H N N Q R D D G Y G R Q T I N Q G S V S Y H N N S L A Q N T P R P V P E A E T
UniRef90_UPI00031A2C75 P F G N F Q R D D G M M Q T M V P K G R A N Y E E P N S S L A G P R E S A A K G F S T
UniRef90_B3SC13 T V G N Y Q R D D G P Q T F D N H S G V P N Y Y P N S S F N G P I A N V N R A T P H
UniRef90_E6VRB5 P E K S Y Q R D D G A M R T D H N G G G P N Y W P N S S F G G P A P D N T S I E P
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QUERY UniRef90_E3IC33 UniRef90_E8XYG5 UniRef90_F5XC10 UniRef90_C6X7H6 UniRef90_A0A017T5K6 UniRef90_S9PJ95 UniRef90_A5VGE1 UniRef90_A4XUL5 UniRef90_A7HF62 UniRef90_UPI00046A6BC8 UniRef90_F0SCD5 UniRef90_A5WGI5 UniRef90_W5QM85 UniRef90_V4NW10 UniRef90_H8MMX5 UniRef90_UPI000376B43C UniRef90_UPI00047BA364 UniRef90_UPI00041CB58B UniRef90_N6VSZ9 UniRef90_K9UIE6 UniRef90_E3I5Q9 UniRef90_D7AY94 UniRef90_S4Y7Q2 UniRef90_UPI000416F4DB UniRef90_UPI0002659694 UniRef90_F5I2V0 UniRef90_C7Q967 UniRef90_J3I716 UniRef90_UPI00040AFC23 UniRef90_N6YP21 UniRef90_UPI000255EAEF UniRef90_R4T003 UniRef90_I1C9G4 UniRef90_F0P1T0 UniRef90_UPI0003F874F8 UniRef90_POA324 UniRef90_R6IU69 UniRef90_A9B4C7 UniRef90_I1D1X3 UniRef90_E9C033 UniRef90_Q1GYP5 UniRef90_UPI0003120B5B UniRef90_UPI0002FBA531 UniRef90_F0SKC6 UniRef90_C6IXP8 UniRef90_W4CW74 UniRef90_UPI00031A2C75 UniRef90_B3SC13 UniRef90_E6VRB5 UniRef90_E5Y7Y1 UniRef90_UPI00037A4212 UniRef90_I1AWF4 UniRef90_B8E1Z1 UniRef90_U5XKL5 UniRef90_A3TNN3 UniRef90_W6M2F8 UniRef90_X7F8D1 UniRef90_D9V457 UniRef90_G9C5E5 UniRef90_A0A024F826 UniRef90_Q2J8T5 UniRef90_E3J8D3 UniRef90_E8TEE7 UniRef90_T2GEQ2 UniRef90_UPI00036AE079 UniRef90_UPI0002881FA1 UniRef90_H8L4U2 UniRef90_F9DVW7 UniRef90_G7CFI7 UniRef90_N2IZM5 UniRef90_S0NX43 UniRef90_C8XTA9 UniRef90_D8JSM0 UniRef90_H1Z408 UniRef90_W4ERT8 UniRef90_D8NYP9 UniRef90_UPI00047901C5 UniRef90_G8NVN9 UniRef90_F9DUI2 UniRef90_S9T5G8 UniRef90_V4B843 UniRef90_A5V2X4 UniRef90_D6Y307 UniRef90_F2F501 UniRef90_B2FQF1 UniRef90_T0UAW4 UniRef90_F5LE13 UniRef90_UPI00047BC0DE UniRef90_J9HGP0 UniRef90_F5T210 UniRef90_UPI0003050D68

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QUERY R H E G D G I P G V E A G G E A R I
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UniRef9																																												

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UniRef90_I0H7M1 G N F D L V G N N M P V F F I I Q D D G I K F P D L I H A A K R E P P Q A Q T A H D
UniRef90_UPI00041B9789 G N Y D L V G N N N T P V F F I I R R D A I K F P D F I H T Q K R R D P Y R T G S Q E P
UniRef90_T2NST3 G N Y D L V G N N N T P I F F I I R R D P L K F P D F I H T Q K R R P R T H L K N P
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UniRef90_K2GBD8 G N F D L V G N N N T P V F F I I Q D D A I K F P D L V H A A K P E P H H N G L P Q H D
UniRef90_U1YJ01 G T Y D L V G N N N I P V F F I I Q D D G I K F P D L V H A A K P H P D R E I P Q H D
UniRef90_U4W149 G N Y D L V G N H L P V F F I I R R D A L K F P D M V H S L K P S P D T N L Q D P D
UniRef90_G3M459 G N W D L T G N N V P I F F I I R R D P M L F P S F V H T Q K R N P K T N L L R S A T
UniRef90_V4RAM5 G N W D I V G N N N T P V F F I I R R D P L K F P D F I H T Q K R H P K T N L R S A T
UniRef90_L8EQV4 G N Y D L V G N N N F P V F F I I Q D D G I K F P D F V H A V K P E P H N D G L P T H D
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UniRef90_K2PYC0 G F D L V G N N M P I F F I I Q D D A M K F P D L I H S V K P E P N R E P Q H D
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UniRef90_R9GT77 M M W D F W S L N P E S L H Q V T I L M S D D R G T P Y S F R H M H G F G S H T F

UniRef90_E7RV21 A A W D F W S L S P E S L H Q V T I L M S D D R G T P A S F R F M N G Y G S H T Y

UniRef90_G8NNR7 A K W D F W S L L P E S L H Q V T I T M S D D R G I P R S W R H M H G F G S H T Y

UniRef90_K9PRY5 A Q W D F W S L N P E S L H Q V T I L F S D D R G I P A S Y R H M N G Y G S H T L

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UniRef90_G3M459 M F W D F M S L R P E T T H M V T F L F T D R G T P D G Y R H M N G Y S S H T Y

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UniRef90_UPI00029B168F T F Y D F V S R T P E T L H N H I W A M S D D R A I P R S F R M M E G F G I H T F

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		250	260	270	280
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UniRef90_A2STT2	N Q R D L F F A I	E R K E F P R W T M Y F	L Q I M T E E E E A R N Y R K E N P F D I L S		
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UniRef90_UPI00037806BC	H R R D L Y E A I	A D G S F P E W E F G V	Q I V M T E E E E A D S L P F D L D A T		
UniRef90_I2N5G6	H R R D L Y E S I	A S G N A P S W T L Y M	Q I M P A D D D A P G Y F D N P F D L P T		
UniRef90_W1SRN8	H R R Q D L F E A I	E K G D F P E W E L G I	Q V I M T E E E E A K Q V P Y N P F D L L T		
UniRef90_UPI000225BD4D	H Q R D L F E S I	E K G D F P K W T L Y I	Q V M T E E E E A K Q V P Y N P F D L L T		
UniRef90_UPI00036DB826	H R R D L Y E A I	E M G N F P E W E L G V	Q I L K E E D E A F A F D F D L L D D P T		
UniRef90_T1KQX5	S R R D L Y N A I	S S G D F P S W I F Y V	Q I M T E E E Q A K F F D F D L L D D P T		
UniRef90_UPI0003120624	A Q R D L Y D A I	E Q G D F P R W R V C V	Q I M P E A D A E R T S A F N P F D L L T		
UniRef90_D5QEW1	H R R D L W N A I	N A G D Y P S W L G V	Q I M F D D E F A D K F A F D L L D A T		
UniRef90_UPI000203A576	G L R D L Y N A I	A N G N Y P S W S F Y I	Q V M T F E E Q A E T S P F N P F D S T		
UniRef90_V8P1G2	T E D G N W D L V	G N N T P I F F I R D A	M L R N P Q T H L K D P N M A W D F W		
UniRef90_J1L313	N Q R D L M E S I	D R G D F P R W T M F I	Q V M T Q E Q A K A M P Y N P F D L L T		
UniRef90_F4H7U1	H R R D L W D H I	A A G D F P R W T L S V	Q V M P P Y E D A K T Y R F N P F D L L T		
UniRef90_Q24F10	A T E D L F K H I	A Q G G S A S W T L N V	Q V M P P I N D G Y K Y R W N I F D V T		
UniRef90_D7W373	H K R D L W E A I	E N G G E F P E W E L G V	Q L P E E D E H K F N D F D L L D D P T		
UniRef90_D1JAS3	L T R D L Y D T I	A R G E E V E Y E L N V	Q I L M D P E A D E L K Q N F D P L D A T		
UniRef90_R2T3H4	L T D E L F Q A I	E T G D F P S W T L C V	Q I J P Y E E G L N Y K Y D L F D V T		
UniRef90_R7XU39	H R R D L Y A A I	E S G D F P Q W D L G V	Q V F D D A F A D K F D D F D V L D A T		
UniRef90_A3CTV8	N R R D L W E A I	E M G D Y P E F E L G V	Q M I E E A D E H N F E F D L L D A T		
UniRef90_E3H048	H R R D L R E A I	E R G D Y P A W T L Y V	Q I M P E A D A K T Y R I N P F D L L T		
UniRef90_J2L4M8	S Q R D L Y E A I	A S G D Y P A W D L G V	Q I V M P E A E A A K Q P Y D V L D S T		
UniRef90_I6ZJ45	S Q R D L F E A I	E R G D F P R W T M Y V	Q I V M P E A E A A S Y R F Y P F D L L T		
UniRef90_C0GK27	N R R D L W D A I	E Q G N Y P E Y E L G V	Q L I E E E D E F S F D F D L L D D P T		
UniRef90_UPI00035DC67E	Y R R D L Y E A I	E R G D F P A W R V S V	Q V M P Y E E D A K T Y R F N P F D L L T		
UniRef90_G1Y091	H R R D L F D A I	E R G D F P Q W E L G L	Q V I E E D D E F K Y G V D L L D P T		
UniRef90_D5ZT97	H R R D L S E A I	E R G E F P S W T L H V	Q V M P Y A E A K D Y R F N P F D L L T		
UniRef90_R9GT77	A Q R E D L V Q A I	E R G D F P K W D L K I	Q L M S P E A Q A A K T F R W N P F D L L T		
UniRef90_E7RV21	Y Q E D L F N A I	E R G E F P K W T L Y I	Q V M P E E E D A A E K T P Y N P F D L L T		
UniRef90_G8NNR7	H Q R D L F E S I	E K G D F P R W K L Y V	Q I M P E E E D A N T Y R I H P F D I L T		
UniRef90_K9PRY5	H Q R D L F E A I	A R G E F P S W T L K I	Q I M T E E E Q A K T F R W N P F D L L T		
UniRef90_E4WAD9	H Q R D L W E H I	D G G D Y P T W T L K M	Q I M P Y E E E A A K T Y R F N P F D L L T		
UniRef90_S2JRL0	A T Q D L F E A I	E R G D F P A W D V F I	Q I M E P K D A K T Y R W N P F D V T		
UniRef90_F5Z250	N R R D L W D S I	E A G Q Y P E W E L G V	Q L V M A E E S D E F N F D F D L L D A T		
UniRef90_R6Z6Q3	H Q R D L Y E S I	E R G D F P R W T M Y V	Q I M P E E E E A R N Y K L N P F D L L T		
UniRef90_I1F2G2	A K D L Y D A I	A A K N Y P S W T L Y I	Q V M T F E E Q A K E F E W N P F D L L T		
UniRef90_E8UEG8	H Q R D L Y A I	D K G D Y P K W T M Y V	Q I M P E K E A E E V I P H P F D L L T		
UniRef90_UPI000426D98E	A T A D L Y E N I	N K G N F P S W E L S V	Q I L K P E D L D K E F D F N P L D P T		
UniRef90_UPI0003704E8B	A T R D M Y A A I	E K G E Y P Q W D L S I	K V L K P S Q L N S F N Y N P L D A T		
UniRef90_Q05017	A A R D L F E A I	E R K E F P K W K F C L	Q I M P E K E A E T Y R F N P F D L L T		
UniRef90_UPI000287B543	N R R M M W E D I	E N G D F L E Y E F G I	V V I E E D E H N F D F D L L D D P T		
UniRef90_I0H7M1	H R R D L T D S I	D A G L F F E Y E L G V	Q V M P D T D E T F Q G G I D L L D D P T		
UniRef90_UPI00041B9789	H Q R D L R E S I	E R G E F P S W T V S V	Q I M P A A E A A T Y R F N P F D L L T		
UniRef90_T2NST3	H I E D L Y K A I	E A K E Y P S W T L Y V	Q I P P A E E G W S A A V N I F D V T		
UniRef90_F4C3B7	A Q R D L F E A I	E R G D F P R W K L Y I	Q I M T E E E Q A K A F R W N P F D L L T		
UniRef90_UPI0003061142	H R K D L Y E S I	E K G D F P E W E L G L	Q I T R D E G Q E F D F D F D L L D P T		
UniRef90_K2GBD8	H R A D L Y E A I	E N G D F V E F E L G L	I D R E G D E H S F D F D V L D P T		
UniRef90_U1YJ01	H R R D L A D A I	E A G A Y P Q W E L G I	Q A F P D T E D Q M F G I D L L D D P T		
UniRef90_U4W149	A T R D L Y D H I	E A G D F P Q W T Y V	I M P I D E L D S L D Y D P L D P T		
UniRef90_G3M459	A T R D L Y N A I	A D G N Y P S W T Y I	Q V M T F A E A E R F R F N P F D L L T		
UniRef90_V4RAM5	A Q R D L F E S I	E Q G D Y P R W K F C V	Q V M P E A D A D K H W Y N P F D L L T		
UniRef90_L8EQV4	N R R D L W D T I	E A G A Y P E W E L G V	Q L V P D E S E A H D F D F D L L D A T		
UniRef90_A0A059G8M0	H R R D L W N A I	E M G D F P E W E L G V	I F D D E K F A D F D V R D A T		
UniRef90_K2PYC0	H R R D L W E A I	E A G N Y P Q W E L G I	Q V I P E E D E H K F D F D L L D A T		
UniRef90_R7L8R7	N Q R D L F E H I	E K G D F P R W K L C I	Q I M T Q E R Q A K K M P Y N P F D L L T		
UniRef90_V4NXJ4	Y Q E A L F G T I	E T G N F P R W D V K V	Q I M P Q E R D A D T T S Y N P F D L L T		
UniRef90_UPI000475DCC1	H R R D M W E T L	N K G D T I E W E M G M	Q I F D D A F A E Q F D F D V L D D P T		
UniRef90_UPI00029B168F	H R R D L W E A I	E A G Q Y P E W E L G M	Q I V P D A D E H K F E F D L D D P T		
UniRef90_UPI0004261F95	H R R D L W D A I	D A G H F P E W E L G V	Q I P P E K D E H K F E F D L L D P T		
UniRef90_C6X118	S Q R D L F D N I	E Q G N F P K W K M F I	Q I M T E E E Q A K T Y R F H P F D L L T		
UniRef90_C7MB52	H R R D L S D A I	E S G A H P S W E L G I	Q V F P D T E A Q T F G I D L L D D P T		
UniRef90_Q59602	H Q R D L Y E A I	E R G E F P K W T M Y I	Q V M P E A D A A K V P Y H P F D L L T		
UniRef90_H8GWB3	H R Q D L F S A I	E K G D Y P K W K V S I	Q V M P E A D A A E T Y H I H P F D L L T		
UniRef90_A0A024K9X3	Y Q E E L F G T I	D R G E F P R W T M Q V	Q I M T E E A D A D K H W Y N P F D L L T		
UniRef90_J9JLF8	S N R D L F N A I	A N G N H P T W T L Y I	Q V M T F E E A D A K N F N P F D I T		
UniRef90_H7F1V9	L Q D D L Y Q A I	E A G D F P S W T L Y V	Q I L P Y E E G L N Y K Y D I F D V T		
UniRef90_K9UVK4	A R R D L F D H I	D K G G E A A W K V S V	Q I V L P L E A A D T Y E F D I E D I T		
UniRef90_W7ZY46	H R R D L W N V I	E A G G E A W E L G I	V I E K E D E F S F D F D L L D S T		
UniRef90_I2B790	A Q R D L F T A I	E Q Q N F P R W T L Y V	Q V M P E A D A G R L P Y N P F D L L T		
UniRef90_L8LN69	H R R D L W E S I	E Q G N Y P E F E L G V	Q I I E A D E H K F D F D L L D S T		
UniRef90_I0KH92	A Q R D L M E H I	D I G E F P R W T L Q V	Q I M P E A D A K T Y R W N P F D L L S		
UniRef90_K0JTN5	H R A D L W H A I	E R G E F P S W T L K V	Q V M P Y E D A K D Y R F N P F D L L T		
UniRef90_UPI000366AE40	H R R D L H D A I	E A G D F P S W T L S I	Q A M P Y E D A K T Y H L N P F D L L T		
UniRef90_V4TFV8	A T Q D L Y D S I	A A G N Y P E W K L S I	Q T I D P D H E D Q T F D F D P L D V T		
UniRef90_C5CZY7	A Q R D L F D A I	E R G E L P R W L L Q V	Q L M S E A E A A Q L P F N P F D A T		
UniRef90_C6VNB5	L Q D D L Y D A I	Q E K N Y P S W T M Y V	Q I L P Y E E G L N Y K W D I E D V T		
UniRef90_D9T362	H R R D L Y D A I	E A G A Y P E W E L G I	Q V F P D T P E E T F G I D L L D P T		
UniRef90_J2EX86	A Q R D L Y T S I	E E G R F P Q W K L Y V	Q I M P E A E A G S Y P I N P F D L L T		
UniRef90_D7KJ38	A T K D L H D A I	S S G N Y P E W K L F I	Q T M D P A D E D K F D F D P L D V T		
UniRef90_G8QQM4	A T R D L F D A I	E R G D Y P W S V Y V	Q I M T S K Q A K D Y P F D P F D V T		
UniRef90_A0A021X8J9	S Q R D L F D S I	E N G D F P R W S L Y I	Q I M T E D E A N A C A I N P F D P T		

		290	300	310	320																																					
UniRef90_J0JMF0	K	L	T	P	E	S	V	P	V	K	L	V	G	R	M	V	L	D	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_UPI0003800B0D	K	V	W	P	E	D	R	F	P	L	T	E	V	G	T	M	T	L	H	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_H3AGW8	K	V	W	P	E	H	K	D	Y	P	L	I	P	G	K	F	L	E	N	D	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I
UniRef90_V4P5X8	K	I	I	P	E	L	V	P	V	K	L	V	G	R	M	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_W4F5P4	K	V	W	Y	K	S	E	F	P	L	I	P	V	G	E	F	E	L	N	D	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I
UniRef90_M9S9S8	K	V	W	P	H	K	E	F	P	L	I	E	V	G	E	L	E	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_A2STT2	K	V	W	S	H	K	E	Y	P	M	I	E	V	G	V	L	E	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_UPI00035F5BF5	K	I	I	P	E	E	V	P	V	R	P	V	G	K	L	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_B2GHN7	K	T	W	S	K	E	D	Y	P	R	H	K	V	G	T	M	T	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_D7VTM5	K	I	I	P	E	E	L	V	P	V	E	I	V	G	T	M	T	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_S5TGE6	K	I	I	P	E	E	L	A	P	V	Q	L	V	G	T	M	T	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_UPI00036B0333	K	V	W	P	H	S	D	Y	P	L	I	E	V	G	V	V	T	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_UPI000255CC16	K	V	W	P	H	S	E	Y	P	L	I	D	V	G	I	L	E	L	N	E	I	P	A	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_UPI00037806BC	K	I	V	P	E	E	V	A	P	I	R	I	G	R	M	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_I2N5G6	K	V	W	P	H	G	D	Y	P	L	I	E	V	G	R	M	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_W1SRN8	K	L	W	P	E	E	V	P	V	K	I	V	G	K	M	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_UPI000225BD4D	K	V	W	P	K	G	D	F	P	L	I	E	V	G	E	V	E	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_UPI00036DB826	K	I	W	P	E	E	D	P	V	K	L	I	G	K	L	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_T1KQX5	K	V	W	S	H	K	E	F	P	L	I	E	V	G	K	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_UPI0003120624	K	V	W	P	H	G	E	Y	P	L	I	D	V	G	V	L	E	L	N	R	R	N	P	E	H	Y	F	A	E	T	E	Q	S	S	F	S	P	S	N	V	I	
UniRef90_D5QEW1	K	L	I	P	E	E	L	V	P	V	R	I	V	G	R	L	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_UPI000203A576	K	V	W	P	H	G	D	Y	P	L	I	P	V	G	K	I	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_V8P1G2	S	L	C	P	E	S	L	H	Q	V	I	P	D	G	H	R	H	M	N	G	Y	G	S	H	T	F	K	L	V	N	A	Y	G	N	A	V	I	C				
UniRef90_J1L3J3	K	V	W	Y	K	G	E	Y	P	L	I	E	V	G	V	L	E	L	N	R	R	N	P	D	N	Y	F	A	E	T	E	Q	A	A	F	N	P	A	A	V		
UniRef90_F4H7U1	K	V	W	P	H	K	G	D	Y	P	L	I	E	V	G	V	M	E	L	N	R	R	N	P	D	N	Y	F	A	E	T	E	Q	A	T	F	A	P	S	N	V	I
UniRef90_Q24F10	K	V	W	P	H	G	D	Y	P	L	I	P	V	G	K	L	V	L	N	R	R	N	P	E	N	Y	F	A	E	T	E	Q	S	A	F	S	P	S	H	L	V	
UniRef90_D7W373	K	L	V	P	E	E	V	P	V	E	I	V	G	T	K	M	V	L	N	R	R	N	P	D	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_D1JAS3	K	T	W	P	E	D	K	F	P	L	M	P	V	G	K	M	V	L	N	R	R	N	P	E	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_R2T3H4	K	V	V	S	Q	K	D	Y	P	L	I	E	V	G	K	M	T	L	N	E	N	P	Q	N	Y	F	T	D	V	E	E	T	A	F	S	P	A	N	V	I		
UniRef90_R7XU39	K	I	I	P	E	E	V	L	P	V	R	I	A	R	L	I	D	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I			
UniRef90_A3CTV8	K	L	W	P	E	E	E	V	P	I	R	W	I	G	K	M	I	L	N	R	R	N	P	D	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_E3H048	K	I	W	P	H	S	D	Y	P	L	V	K	V	G	R	M	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_J2L4M8	K	L	I	P	E	E	D	P	V	E	I	V	G	R	L	V	L	N	R	R	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_I6ZJ45	K	L	W	S	K	K	D	Y	P	L	I	E	V	G	Y	Y	E	L	N	R	R	N	A	D	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_C0GK27	K	I	W	P	E	E	Q	V	P	V	K	P	I	G	K	M	T	L	N	K	N	P	D	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_UPI00035DC67E	K	V	W	P	H	S	D	Y	P	L	I	E	V	G	I	H	T	L	N	E	N	P	Q	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_G1Y091	K	I	I	P	E	E	M	V	P	V	R	R	V	G	L	M	T	L	T	A	N	P	G	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I		
UniRef90_D5ZT97	K	V	W	P	H	A	D	Y	P	L	I	K	V	G	T	M	T	L	N	R	R	N	P	E	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_R9GT77	K	V	W	P	H	K	E	F	S	L	I	D	V	G	V	L	E	L	N	R	R	N	P	D	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
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UniRef90_K9PRY5	K	V	W	P	H	A	D	Y	P	L	I	E	V	G	I	L	E	L	N	R	R	N	A	E	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
UniRef90_E4WAD9	K	V	W	P	H	A	D	Y	P	L	I	D	V	G	T	M	K	L	N	R	R	N	P	A	D	Y	H	C	E	I	E	Q	V	A	F	L	P	S	N	V	I	
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UniRef90_F5Z250	K	I	I	P	E	E	Q	V	P	V	R	P	V	G	K	M	V	L	N	R	R	N	P	D	N	F	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
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UniRef90_I1F2G2	K	I	W	P	Q	K	E	F	P	L	I	P	V	G	R	M	V	L	N	R	R	N	P	A	N	Y	F	A	E	T	E	Q	V	A	F	L	P	S	N	V	I	
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UniRef90_T2NST3</																																										

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P L A I S G D A E R Y N H R E N D D D F S Q P R A L F R K V L F D D Q G Q K E R N
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A I P L I E G T K V R I R S E T F A D H F S Q A R L F F R S V S Q T K P E Q A H
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UniRef90_Q52PH2

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UniRef90_Q52PH2 T L I N K A G K A H Y V V K F H W K P T C G V K S L L E E A A I K I G A N H S H

		250	260	270	280																																									
UniRef90_I0JV87	N	R	R	D	L	W	D	A	I	E	A	G	Q	Y	P	E	Y	E	L	G	V	Q	L	V	D	E	S	R	E	F	D	F	D	L	L	D	D	P	T							
UniRef90_I0UYC7	N	R	R	D	L	W	D	A	I	E	A	G	H	F	P	E	Y	E	L	G	V	Q	L	V	E	E	K	D	E	F	A	F	D	F	D	L	L	D	D	P	T					
UniRef90_S3N472	H	R	R	D	L	W	D	S	A	E	Q	G	N	Y	P	E	W	E	L	G	V	G	A	I	F	E	E	D	D	T	S	I	F	D	D	L	L	D	D	P	T					
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UniRef90_N9MDX8	H	R	R	D	L	Y	Q	A	I	E	N	G	F	Y	P	E	W	E	L	G	V	Q	I	V	E	Q	D	E	D	S	M	F	F	D	F	D	L	L	D	D	P	T				
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UniRef90_D5GLQ2	H	R	R	Q	D	L	F	D	A	I	E	S	K	N	Y	P	E	W	D	I	G	V	Q	V	F	P	D	D	D	D	V	L	R	F	G	F	D	L	L	N	D	P	T			
UniRef90_C5C0T6	H	R	R	D	L	V	E	A	I	E	R	G	E	F	P	S	W	S	V	K	V	Q	V	M	P	Y	E	A	D	A	A	A	Y	R	F	N	P	F	D	L	L	T	T			
UniRef90_W0VC46	A	Q	R	D	L	F	G	A	I	E	R	G	E	F	P	Q	W	D	V	K	V	Q	V	A	T	P	E	E	Q	D	E	A	R	T	G	R	F	N	P	F	D	L	L	T	T	
UniRef90_UPI0001E89398	H	T	Q	D	L	F	N	S	I	E	K	G	D	Y	P	A	W	K	L	V	Q	V	M	P	Y	E	E	Q	D	A	D	T	Y	R	F	N	P	F	D	L	L	T	T			
UniRef90_UPI00037B7D89	A	Q	R	D	L	F	F	E	N	I	E	S	G	N	F	P	K	W	D	L	K	I	Q	V	M	P	Y	E	E	S	S	T	Y	H	I	N	P	F	D	L	L	T	T			
UniRef90_V5PWK9	H	R	R	D	L	F	D	A	I	A	R	G	E	H	P	S	W	L	M	S	V	Q	V	M	P	Y	E	E	Q	A	K	Q	Y	R	F	N	P	F	D	L	L	T	T			
UniRef90_C1C2S0	A	Q	R	D	L	Y	N	S	I	A	A	G	E	N	Y	P	S	Y	T	M	H	I	Q	V	M	T	Y	E	E	Q	A	K	D	N	L	E	S	D	P	F	D	L	L	T	T	
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UniRef90_U1SZB9	H	L	R	D	L	Y	Q	S	I	E	R	G	D	Y	P	R	W	T	L	C	V	Q	V	I	M	T	E	E	D	E	A	A	S	G	R	H	P	H	N	P	F	D	L	L	T	T
UniRef90_UPI000345DC3D	H	R	R	D	L	F	E	A	I	E	R	G	D	H	P	S	W	L	S	M	Q	I	M	P	I	E	D	E	Q	A	A	S	G	R	Y	R	N	P	F	D	L	L	T	T		
UniRef90_M7NVP8	H	R	R	D	L	W	N	A	I	V	E	Q	G	F	Y	P	E	Y	E	L	G	V	Q	I	L	A	E	E	D	E	F	S	L	G	F	D	L	L	D	S	T	T	T			
UniRef90_UPI00037703D9	H	R	R	D	L	F	D	A	I	E	E	K	G	D	N	P	S	W	T	L	K	V	Q	I	M	P	E	F	E	D	A	K	T	Y	R	L	N	P	F	D	L	L	T	T		
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UniRef90_P17336	S	L	R	D	L	Y	N	R	I	K	T	C	K	G	N	F	P	S	W	L	M	Y	I	Q	V	M	T	Y	E	S	D	A	K	K	F	K	N	P	F	D	L	L	T	T		
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UniRef90_X8JVP2	G	T	Q	D	L	F	E	A	I	V	E	N	G	E	A	Q	K	W	D	V	F	I	Q	T	M	T	P	E	Q	A	E	N	F	R	Y	N	L	L	D	L	T	T				
UniRef90_V5FE17	H	Q	K	D	L	Y	E	S	I	E	N	G	D	F	P	K	W	N	L	Q	V	I	M	P	E	K	D	A	E	T	V	S	Y	N	P	F	D	L	L	T	T					
UniRef90_J8SQ20	H	R	R	D	L	F	N	A	I	D	Q	G	E	H	P	S	W	L	F	W	Q	V	M	P	Y	E	E	Q	D	A	K	T	Y	R	L	N	P	F	D	L	L	T	T			
UniRef90_A6C2C3	T	Q	E	D	L	F	Y	A	I	E	K	G	D	F	P	K	W	N	M	Q	I	Q	V	M	P	E	T	D	A	D	L	T	P	Y	N	P	F	D	L	L	T	T				
UniRef90_UPI00036243CB	A	S	R	D	L	Y	E	A	I	E	E	R	G	D	F	P	E	W	D	L	Y	V	Q	I	L	D	P	A	D	M	D	Q	F	G	F	D	F	D	P	L	D	A	T	T		
UniRef90_UPI00036DF0F1	H	R	R	D	L	A	D	A	I	E	A	G	A	F	P	E	W	E	L	G	V	G	A	I	F	P	D	T	P	E	D	T	F	P	D	T	P	E	D	L	L	D	P	T		
UniRef90_M2QWV0	G	L	Q	S	L	F	E	D	I	E	S	G	N	P	P	S	W	T	V	S	V	Q	T	M	T	P	E	Q	A	E	K	F	F	R	Y	N	V	L	D	L	L	T	T			
UniRef90_I4VVQ0	H	R	R	D	L	F	E	A	I	Q	R	G	D	F	P	E	W	E	L	A	V	Q	L	L	F	T	Q	E	A	A	D	T	F	P	F	D	H	L	D	A	T	T				
UniRef90_Q1LBL8	H	Q	R	D	L	F	E	S	I	E	R	G	D	F	P	R	W	K	L	C	V	Q	V	I	M	P	E	A	E	A	S	K	V	P	Y	H	P	F	D	L	L	T	T			
UniRef90_A0A010ZSN7	H	R	R	D	L	M	A	D	S	I	E	N	G	A	F	L	E	Y	E	L	G	L	Q	L	F	P	D	E	D	E	T	F	E	G	I	D	L	L	D	P	T	T				
UniRef90_D8PTL6	H	R	K	D	L	E	E	A	I	N	N	G	A	P	A	K	W	T	F	A	I	Q	T	T	A	E	K	H	N	F	E	F	D	L	L	D	A	T	T	T	T					
UniRef90_UPI0004655242	H	G	R	D	L	L	N	A	I	E	R	K	D	F	P	R	W	T	L	F	I	Q	V	M	T	L	E	Q	A	K	A	H	K	H	N	P	F	D	L	L	T	T				
UniRef90_W8Z1Q1	N	R	R	D	L	Y	E	A	I	E	A	G	R	Y	P	E	F	E	F	G	I	Q	V	L	E	E	E	E	E	F	K	F	D	F	D	L	L	D	P	T	T	T				
UniRef90_W9XVG6	H	R	K	D	L	Y	E	A	I	D	N	K	A	Y	A	K	W	K	F	G	I	Q	V	V	A	E	E	K	K	F	D	F	D	L	L	D	A	T	T	T	T					
UniRef90_B5JLB0	Y	Q	E	D	L	F	G	A	I	E	K	G	E	F	P	K	W	T	M	Y	V	Q	V	M	P	E	A	E	A	E	K	T	S	Y	N	P	F	D	L	L	T	T				
UniRef90_H3F8T7	S	L	R	D	L	F	D	A	I	E	R	G	D	Y	P	Q	W	N	M	F	L	Q	V	M	T	F	D	Q	A	E	K	W	K	F	N	P	F	D	L	L	T	T				
UniRef90_H2Y9Q3	S	L	R	D	L	Y	N	S	I	E	A	D	N	K	F	P	S	W	T	M	Y	I	Q	V	M	T	Y	D	Q	A	S	K	F	Q	W	N	P	F	D	L	L	T	T			
UniRef90_E4N1S1	H	Q	R	D	L	H	Q	A	I	E	R	G	V	F	P	S	W	T	L	Y	V	Q	V	L	M	P	V	E	D	A	A	D	Y	R	F	N	P	F	D	L	L	T	T			
UniRef90_H01U5	Y	Q	E	A	L	F	G	T	S	I	E	E	G	N	Y	P	R	W	L	A	Q	V	Q	V	M	T	E	A	Q	A	G	E	L	P	F	N	P	F	D	V	T	T				
UniRef90_I2F9J5	H	Q	R	D	L	F	E	S	I	E	K	G	D	Y	P	K	W	T	V	S	J	Q	V	M	P	E	S	E	A	K	T	Y	R	F	H	P	F	D	V	T	T					
UniRef90_H2VXQ2	A	Q	R	D	L	F	N	A	I	D	R	K	D	F	P	E	W	T	L	L	I	Q	V	M	T	F	E	E	A	E	K	T	W	E	M	N	P	F	D	V	T	T				
UniRef90_A7E5H2	H	T	Q	D	L	F	D	A	I	E	K	G	D	Y	P	S	W	S	V	V	Q	V	L	S	P	E	Q	A	E	K	F	F	R	W	N	I	F	D	L	L	T	T				
UniRef90_E8V2Y9	H	R	R	D	L	W	N	S	I	D	Q	K	G	R	F	P	E	W	E	L	C	V	Q	L	F	D	E	E	F	V	N	R	F	E	F	D	V	L	D	A	T	T				
UniRef90_C7HUS5	H	Q	R	D	L	F	E	A	I	E	K	K	K	Y	P	E	W	K	M	Y	I	Q	V	M	P	E	E	E	E	A	N	N	M	E	V	N	P	F	D	L	L	T	T			
UniRef90_Q1YKQ6	Y	Q	E	A	L	Y	G	M	I	E	D	G	R	F	P	K	W	T	M	Y	I	Q	V	M	P	E	G	E	E	V	Q	F	G	W	S	A	F	D	L	L	T	T				
UniRef90_U5HA99	A	T	Q	D	L	F	E	A	I	E	K	G	D	F	P	S	W	T	L	H	I	Q	T	M	T	A	K	Q	A	Q	E	F	E	H	N	L	L	D	L	T	T	T				
UniRef90_UPI000365EF89	H	R	R	D	L	A	D	A	I	E	A	G	A	F	P	E	W	D	M	G	I	Q	V	F	P	D	T	D	E	T	F	E	G	I	D	L	L	D	P	T	T	T				
UniRef90_R5TDA1	H	G	R	D	L	Y	E	S	I	V	K	G	E	Y	P	R	W	T	M	Y	V	Q	I	M	T	E	E	Q	A	R	N	H	Y	E	N	P	F	D	I	T	T	T				
UniRef90_B7DM58	A	T	R	D	L	F	D	A	I	E	E	R	K	E	F	P	S	W	T	L	Y	V	Q	I	M	P	E	E	D	A	E	E	Y	A	F	D	P	F	D	V	T	T				
UniRef90_UPI0003655B3A	H	R	R	D	L	W	D	A	I	E	R	G	D	F	P	S	W	T</																												

	290										300										310										320																	
UniRef90_I0JV87	K	I	I	P	E	E	E	V	P	V	R	P	V	V	G	K	L	V	L	D	R	N	P	D	N	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V				
UniRef90_I0UYC7	K	I	I	P	E	E	E	Q	V	P	V	R	P	V	V	G	K	M	V	L	D	R	N	P	D	N	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V			
UniRef90_S3N472	K	L	I	P	E	E	E	L	V	P	V	Q	P	L	L	G	K	F	V	L	D	N	R	N	P	D	D	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V		
UniRef90_UPI0003B752BD	K	F	V	P	E	E	E	L	V	P	V	Q	P	L	L	G	K	M	V	L	D	N	R	N	P	D	D	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V		
UniRef90_N9MDX8	K	L	I	P	E	E	E	L	V	P	V	Q	P	L	L	G	K	M	V	L	D	N	R	N	P	D	D	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V		
UniRef90_A0A022LPN2	K	I	V	P	E	E	L	V	P	V	Q	P	L	L	G	K	T	M	T	L	D	N	R	N	P	D	D	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V		
UniRef90_D5GLQ2	K	I	V	P	E	E	L	V	P	V	Q	P	L	L	G	K	L	V	L	D	N	R	N	P	D	D	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V			
UniRef90_C5C0T6	K	V	W	S	Q	K	D	Y	P	L	I	D	V	V	G	T	M	R	L	D	R	N	P	E	D	F	H	A	E	I	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_W0VC46	K	V	W	S	H	K	D	F	P	L	I	D	V	V	G	V	F	E	L	D	R	N	P	E	A	N	Y	H	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI0001E89398	K	V	W	S	K	K	D	Y	P	L	I	D	V	V	G	R	M	V	L	D	R	N	P	E	A	N	Y	H	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI00037B7D89	K	V	W	P	H	G	D	Y	P	L	I	D	V	V	G	Q	I	E	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_V5PWK9	K	T	W	S	H	K	D	Y	P	L	I	K	V	V	G	R	M	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_C1C2S0	K	V	W	S	H	K	A	F	P	L	I	D	V	V	G	Q	M	L	V	L	D	R	N	P	E	D	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V
UniRef90_A9BLW0	K	V	W	S	K	Q	D	Y	P	L	I	E	V	V	G	V	M	E	L	D	R	N	P	R	N	Y	H	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_U1SZB9	K	V	W	S	H	A	N	Y	P	L	I	E	V	V	G	V	L	E	L	D	R	N	P	D	D	N	H	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI000345DC3D	K	V	W	P	K	A	D	Y	P	L	I	E	V	V	G	R	M	V	L	D	R	N	P	D	D	N	H	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_M7NVP8	K	I	W	P	E	E	D	I	P	V	N	I	I	G	K	M	T	L	D	R	N	P	D	N	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V					
UniRef90_UPI00037703D9	K	V	W	P	K	A	D	Y	P	L	H	E	V	V	G	Q	L	E	L	D	R	N	P	V	D	H	F	A	E	I	E	Q	V	V	A	F	F	Q	P	N	N	L	V	V				
UniRef90_A0A024F7C8	K	V	W	P	H	G	D	F	P	M	I	E	V	V	G	M	M	E	L	D	R	N	P	R	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI000378C4F5	K	V	W	P	H	A	D	Y	P	L	I	E	V	V	G	R	L	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	N	P	A	N	F	V	V			
UniRef90_P17336	K	V	W	S	Q	K	E	Y	P	L	I	P	V	V	G	K	M	V	L	D	R	N	P	K	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI00035FA89D	K	V	W	P	H	G	D	Y	P	L	I	D	V	V	G	Q	M	E	L	D	R	N	A	D	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_X8JVP2	K	I	W	P	H	K	E	F	P	L	K	P	I	G	T	L	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_V5FE17	K	V	W	P	H	H	D	D	Y	P	L	H	D	V	V	G	V	F	E	L	D	R	N	P	Q	N	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_J8SQ20	K	I	W	P	H	A	D	Y	P	L	I	E	V	V	G	K	L	T	L	D	R	N	P	T	D	F	H	S	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_A6C2C3	K	V	W	P	H	G	D	Y	P	L	I	D	V	V	G	T	M	E	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI00036243CB	K	D	W	F	E	D	V	I	P	Y	Q	L	V	V	G	T	M	L	L	D	R	N	P	D	N	V	F	A	E	T	E	S	V	G	F	N	L	G	V	V	V	V	V	V	V	V	V	
UniRef90_UPI00036DF0F1	K	I	V	P	E	E	M	A	Q	V	Q	P	I	G	L	T	L	L	D	R	N	P	S	N	Y	F	F	A	E	T	E	S	V	V	A	F	F	H	L	G	V	V	V	V	V			
UniRef90_M2QWV0	K	V	W	P	H	K	E	F	P	L	R	P	V	V	G	K	L	V	L	D	R	N	P	Q	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_I4VVLQ0	K	L	I	P	E	E	L	V	P	L	T	V	I	G	R	M	V	L	D	R	N	P	D	D	N	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_Q1LVL8	K	I	W	P	K	K	D	Y	P	L	I	E	V	V	G	V	L	E	L	D	R	N	P	D	D	N	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_A0A010ZSN7	K	I	V	P	E	E	L	V	P	V	Q	L	V	V	G	K	L	T	L	D	R	N	P	T	N	Y	F	F	A	E	T	E	Q	V	V	A	F	F	H	L	G	N	L	V	V			
UniRef90_D8PTL6	K	I	W	P	E	E	L	V	P	L	E	P	I	G	E	M	E	L	D	R	N	P	V	D	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI0004655242	K	V	W	P	K	A	D	Y	P	L	I	E	V	V	G	V	M	E	L	D	R	N	P	D	D	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V	
UniRef90_W8Z1Q1	K	L	W	P	E	E	L	V	P	V	Q	R	I	G	K	L	T	L	D	R	N	P	T	D	N	F	F	A	E	T	E	Q	V	V	A	F	F	H	T	A	N	N	V	V				
UniRef90_W9XVG6	K	V	W	P	E	E	L	V	P	L	R	I	Y	I	G	E	M	E	L	D	R	N	P	V	D	N	Y	F	F	A	E	T	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V	
UniRef90_B5JLB0	K	V	W	P	H	G	E	Y	P	L	I	E	V	V	G	E	F	E	L	D	R	N	A	D	N	Y	F	T	D	I	E	M	A	Y	F	S	T	S	N	V	V	V	V	V	V			
UniRef90_H3F8T7	K	V	W	P	H	G	E	F	P	L	I	P	V	V	G	K	F	V	L	D	R	N	P	Q	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_H2Y9Q3	K	I	W	P	K	A	D	Y	P	L	I	P	V	V	G	R	M	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_E4N1S1	K	V	W	P	H	A	D	Y	P	L	V	K	V	G	R	L	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_H01U5	K	V	W	P	H	A	D	F	P	P	I	E	I	G	V	L	E	L	D	R	N	P	D	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V			
UniRef90_I2F9J5	K	T	W	S	H	K	D	Y	P	L	I	E	V	V	G	I	M	T	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_H2VXQ2	K	V	W	P	H	K	E	H	P	L	I	M	E	V	G	K	M	V	L	D	R	N	P	T	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_A7E5H2	K	V	W	P	Q	A	E	V	P	L	R	P	F	G	K	M	T	L	D	R	N	P	V	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_E8V2Y9	K	L	I	P	E	E	Q	L	V	P	L	R	V	V	G	K	M	V	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_C7HUS5	K	M	W	L	K	K	D	H	P	F	I	E	V	V	G	E	F	E	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_Q1YKQ6	K	V	W	P	H	G	M	Y	P	L	I	K	V	V	G	E	M	E	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_U5HA99	K	I	W	P	H	K	D	Y	P	L	R	E	V	V	G	K	L	T	L	D	R	N	P	E	N	Y	F	F	A	E	V	E	Q	V	V	A	F	F	S	P	S	T	N	L	V	V		
UniRef90_UPI000365EF89	K	I	V	P	E	E	L	V	P	V	Q	V	I	G	L	T	L	L	D	R	N	P	K	N	Y																							

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G F F T A P N R N P G G T L Q R T V I S T F W S Q P R L F Y A S L D P V I E Q Q F
P F H V S G E A K R Y D V I G K E D N F S Q A T V F Y Q R T L N E E E R Q R
R W E S D G E L R Y A A T L H S E D D D F G Q A G T L Y R E V F S D E E K A E
R G F F T A P G R M V N R E L S P S F N D V W S Q P R L F Y N S L T V F E K Q F
E E L D S A H V I A F F D R A N K D D N D H Y T Q P G L L Y S K A M N D E D R K N
E P E Y N A K L V R A P K I D R T N D Y A Q A G E T Y R R L A K W E Q D E
T P L V S G E L S R K S I D R T N D Y A Q A G E T Y R R L A K W E Q D E
A S W Q S G E L V R Q A Y T P H R D D D D D F V Q P R A L I R D V M D D A A R S R
P Y K I C G D V A R F D S G E T E D D N Y A Q V I T D F Y R V L D A P A R R
P F I D H P A P V A E S V K E R G N P E D H Y T Q T R L F W L S M S D V I E K E H
P L K I S G D A A R Y D H R V G Q D D D Y S Q V T A L F N L E D E G Q K N R
P Q K V D G S V K Q R Y R G E K F N E H Y N Q A Q L F Y N S L T D Y E K A H
Q T P L T G T V I Q Q I G T K E R N F K Q A G E L Y R S Y T A K E R D D
P A L A L E K A A L H Y D F R E Y D E Y Y T Q P G N L Y R L M D A E Q Q R
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S W Q S D G E L V R S A A T L H S E D D D F S Q A H D L V R N I Y T D Q E R A D
S W A T D T E L V R A Y E L H S E D D D F G Q A G T L V R D L F T A E E R E D
N G F F T A P A R R I T D G R Y V R E M D H F W S Q P R L F W N S S P D E Q Q M
R W E S D G E L V R S A A T L H A E D D D F G Q A H T L I R E V Y S E E E R Q G
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K Q P I N G V A A K Q A F Y K P N N F G Q A G Q V L W R K Y S K E V Q D T
K E H P Q K V V G V K M R A R G A K F D E H W N Q A Q L F Y N S L S E V E K T H
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UniRef90_C7QBS1	K	L	A	R	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_U3HSV0	K	L	A	R	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_S2XFJ1	K	L	A	R	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_F1YL21	Q	M	A	Q	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_HOG2Y6	K	L	A	R	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_E3QPS4	K	I	H	R	F	D	H	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_W2RWH1	K	I	M	R	F	D	H	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_I1C787	K	V	M	H	F	D	H	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_F0RPY2	K	I	H	H	F	D	H	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_COZE39	K	L	T	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_UPI00047E98EA	K	L	A	A	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_F7NR18	K	L	Q	R	F	A	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_H8H0E8	K	L	S	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_R9XRW1	K	L	S	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_E3Q851	K	I	T	H	F	D	H	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_UPI0002DCB04C	K	L	A	Q	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
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UniRef90_F5LBN9	K	L	S	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
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UniRef90_W4JPD2	L	L	A	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_D5DGN9	K	L	S	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_M7ATW8	E	M	A	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
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UniRef90_F6FT20	K	L	A	Q	F	N	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
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UniRef90_W9ADN8	K	L	Q	R	F	A	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_D2PUL9	K	L	S	H	F	D	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_D7GH83	T	L	S	H	F	N	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
UniRef90_E2MYL3	K	L	A	H	F	N	R	E	R	E	R	I	P	E	R	V	V	H	A	R	G	G	A	G	A	Y	G	V	F	E	S	Y	G	N	D	L	S	K	Y	T	R	A	S	A	I
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L T D T S C T T P F V R F S S T V I H G H P A G S S A D T V R D D V R G F A I K F Y T D E Q
F Q G G K K T P V L V R F S S T V I H G H P A G S S A D T D R D D V R G F A V K F Y T D E D
F A E I K R T P I L A M R F S S T V I H G H P A G S S A P E T V R D D P R G F A I K F Y T D E
L E K G K K T P M F V R I S T V I H G H P A G S S A P D T V R D D V H R G F A L R F Y T D E Q
F S E I K T T D V L S R F S S T V I H G H P A G S S A D A E R D D V R G F S L R F Y T D E Q
L S P E K E T P V F L R F S S T V I H G H P A G S S A P D T A R D D V H R G F A L R F Y T D E
L C S V K K V R L T A R F S S T V I H G H P A G S S A D T A R D D P R G F S L K L R T E E E
F N K V K Q S P V V A R F S S T V I H G H P A G S S A D T A R D D P R G F S I K L K T E E E
L Q E G K K T P L F V R F S S T V I H G H P A G S S A D T A R D D R C L G V K F Y T E E E
F Q K G K V T P V F V R F S S T V I H S K G S S A P E T L R D D P R G F A T K F Y T D E Q
K T V G K K T K A V T R F S S T V I H G H P A G S S A D S A R D D P R G F S I T R F Y T E E E
F Q P N K V T P M G L R F S S T V I H G H P A G S S A D T W R D D V H R G F A L R F W T E E E
D T V G K K T K I F T R F S S T V I H G H P A G S S A D S A R D D P R G F A T R F Y T E E E
L C P S K K T P V F V R F S S T V I H G H P A G S S A P D C V R D D V R G F A T R F Y T D E E
F S E V K Q T E M F A R F S S T V I H G H P A G S S A D A E R D I R G F A L R F Y T E E E
F Q P G K V T P M G V R F S S T V I H G H P A G S S A P D T W R D D V H R G F A L R F Y T E E E
L Q D P E K T P V F T R F S S T V I H G H P A G S S A D T V R D D P R G F A V K F Y T E E E
L S K K K R T P V L A R F S S T V I H G H P A G S S A D T A R D D P R G F A I K F Y T D E Q
L Q K G R E T P V F V R F S S T V I H G H P A G S S A D T V R D D V R G F A V K F Y T D E D
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F Q K G K Q T P V F V R F S S T V I H G H P A G S S A P E T L R D D P R G F A V K F Y T D E D
F D K R K R T A V A M R F S S T V I H G H P A G S S A D T V R E Q R G F A V K F Y T D D
F S D V K K T E M F A R F S S T V I H G H P A G S S A D A E R D I R G F A L K F Y T D D
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F Q E R R T E L A V R F S S T V I H G H P A G S S A E T A R D D P R G F A V K F Y T E D
L N G I K K T A L F T R F S S T V I H G H P A G S S A D S A R D D P R G F A I K F Y T Q E D
F K N L D E T P I V R F S S T V I H G H P A G S S A D T Y R D D P R G F A I K F Y T D D D
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L T V G K K T K I F T R F S S T V I H G H P A G S S A D S A R D D P R G F A T K F Y T E E E
F Q P G T K T P V F V R F S S T V I H G H P A G S S A P E Q A R D D P R G F A T K F Y T E Q
L S E G K K T P L T I R F S S T V I H G H P A G S S A D T A R D D R C Q G V K L Y T E E E
L A K N K E T P V F V R F S S T V I H G H P A G S S A P E Y L R D D P R G F A T K F Y T D E E
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F Q P G R V T P M L A R F S S T V I H G H P A G S S A P D G W R D D V R G F A L K F Y T Q E E
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	170	180	190	200
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UniRef90_L7UEW3	R F F D F F S H L P	E S T H M L T Q V Y S	D D R G I V P A N Y R R Q	M D G H V H A F
UniRef90_C7QBS1	N V F D F L V A H T P	E A T L H M V T W L Y	G D R G I V P A D Y R R H	M D G Y S S V H A F
UniRef90_U3HSV0	R F Y D F V Q A H H P	E A T L H M V T W V K S	P W G I V P A D Y R R H	M D G Y S S V N T Y
UniRef90_S2XFJ1	R L F D F M G L S P E	A T N M L T I H L F T	D E G I V P Q D Y R R H	I R G S S S V H S F
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UniRef90_W2RWH1	T A W D F F S Q Q P E	S T L H T L F W A M S	G W G I V P R S Y R H	T D G F G V H S F
UniRef90_I1C787	T A Y D F F S Q H T E	T L H T V M W A L S	G R G T V P R S Y R Q	V E G F G V H T F
UniRef90_F0RPY2	T F W D F I S L T P E	S M H M I M W Q M S	D R T G I V P R Y F D T	M E G F G V H T F
UniRef90_COZE39	R I F D F L S N T P E	S A M H M I T F L F S	P W G I V P A S N Y R	Q M G S G V N T Y
UniRef90_UPI00047E98EA	R V F D F F S N I P E	S A M H M I T R V Y S	D Y G I V P A S Y R E	M D G F G V H A Y
UniRef90_F7NR18	R V F D F M S H E P G	S T Q M L T F V Y S	D L G I V P A S Y R E	M D G F G V H A Y
UniRef90_H8H0E8	R L F D F L S G T P E	S A M H M I T F L F S	P W G I V P A N Y R E	M D G S G V N T Y
UniRef90_R9XRW1	A A W D F W S R H P E	S M H Q I M T L F S	D R G I V P A T L R E	H M N G Y G S H T Y
UniRef90_E3Q851	S A W D F F S S Q T S	S L H T L F W A M A	G Y G I V P R S Y R H	M D G F G V H T F
UniRef90_UPI0002DCB04C	M Q W D F W Y N E P A	S A H Q V T Y L M G	D R G I V P R S Y R E	M Q G F A S H T F
UniRef90_A0A017S6S8	N F W D F A Y M H T E	S T H M Q V Q W M S	D R A I V P R S Y R E	M M Q G F G V N T F
UniRef90_U3H9F6	R R F D F F S H V P E	S I R T L T L Y S N E	G T V P A G Y R F	M D G N G V H A Y
UniRef90_UPI000299FACB	M Q W D F W T L S P E	T T H Q V T W L M G	D R G I V P K T W R E	M Q G F G S H T Y
UniRef90_F5LBN9	R M F D F L S N T P E	S A M H M I T F L F S	P W G I V P A N Y R E	M Q G S G V N T Y
UniRef90_UPI0004171999	R I F D F I S Q S P E	A M H M I T F L F S	P W G I V P A S Y R H	M Q G S G V N T Y
UniRef90_W4JPD2	M F W D Y L G Q N P E	S A H Q I M L F S D R	G I V P D G F H N Q	H G Y S G H T Y
UniRef90_D5DGN9	R I F D F I S H T P E	A M H M I T F L F S	P W G I V P A N Y R Q	M Q G S G V N T Y
UniRef90_M7ATW8		A M L V S L F S D R	G I V P D G H R H M H	G F G S H T F
UniRef90_UPI00047E9EBD	M Q W D F W T L N P E	S A H Q V T Y V M G	D R G I V P K S W R T	M N G Y G S H T Y
UniRef90_F6FT20	M Q W D F W T L S P E	S A H Q V T Y L M G	D R G I V P R S W R E	V N G Y G S H T Y
UniRef90_A6E919	M M W D F W S L N P E	S L H Q V M L M S D R	G T V P Y S Y R H	M D G F G S H T F
UniRef90_UPI00037D5311	R R F D F F S H V P E	S T H G L T R L Y S N	M G I V P A S Y R	Q M G N S V H A Y
UniRef90_UPI00046C8F69	M Q W D Y W S L S P E	S A H Q V T W L M G	D R G I V P A S W R H	M D G F S S H T Y
UniRef90_W9ADN8	R F F D F F S L E P S	A T N M L T W V Y S	N L G I V P A S Y R M	M D G F G V H A Y
UniRef90_D2PUL9	R A F D F L S Q T P E	S A H M V T L V F S	P R G I V P A S Y R H	Q M G F G V N T Y
UniRef90_D7GH83	M Q W D F W T L S P E	S A H Q V A Y L M G	D R G I V P A T W R E	M N G Y S S H T Y
UniRef90_E2MYL3	M Q W D F W T A S P E	S A H Q V T Y L M G	D R G I V P K D F R H	M D G F G S H T Y
UniRef90_D3UIM6	A A W D F W S Q C P E	S L H Q V T L L M S	D R G I V P K N Y R H	M H G Y S H T F
UniRef90_K1WQP9	N F W D F Q L H S E	A T H M F W A M S D R	G I V P R S Y R M	M Q G F G V N T Y
UniRef90_F0RZ65	N N W D F W S A L P E	S L H Q V T I T M G	D R G I V P K S F R H	M D G F G S H T Y
UniRef90_X7EMS2	A M F D F W A G Q P E	S V H Q V T L L M S	D R G I V P K S P F	H Q N G Y S H T F
UniRef90_A0MTQ4	R I M D F L S H H P E	S A H M L S F L L D	D V G I V P K C Y R T	M P G F G V H T F
UniRef90_D7W1Q7	R V F D F M A N I P E	A T H M L T W L F S	D Y G I V P A N Y R E	M Q G N G V H A F
UniRef90_A9TG35	A F W D F L S L V P E	S T H Q V L I T F S	P R G I V P D G H R H M	H G Y S H T Y
UniRef90_Q3ID55	R V F D F F S H E P G	S T H M L T W V Y S	D Y G T V P A S L R	K M H G W G V H S Y
UniRef90_W4KNZ9	N F W D F V G L Q P E	A A H M V M W V M S	D R G T V P R S F R M	M Q G F G V N T Y
UniRef90_M7P4G0	R M F D F V S R S P E	A T H M L T F L F S	P W G R V P A T Y R H	M Q G S G V N T Y
UniRef90_U4U2E5	M F W D F C S L R T E	T T H Q T L I T F S	D R G V P R S Y R H	M H G Y G S H T Y
UniRef90_S2JCG4	T A Y D F F A E F P E	T M H T V L W A L S	G R G I V P R S L R Q	I E G F G V H T F
UniRef90_UPI0004776783	A M F D F W A A Q P E	S S H Q V T L L M S	D R G I V P K N P M Y	M D G Y G S H T F
UniRef90_R0I19	T A W D F F S Q Q P S	S M H T L M W A M S	G H G T I R S Y R H	T D G W G V H T F
UniRef90_Q9C1M8	M F W D Y L G Q N P E	S I H Q M M I L F S D R	G T V P D G V H Q M H	G Y S G H T F
UniRef90_F4RR37	M F W D Y L S Q N A E	S I H Q V M L F S D R	G V P D G Y R G M N G	Y S G H T F
UniRef90_UPI00041CE0BF	T F W D Y V A J N N P E	S L H M T L W V M S D R	G I V P R S Y R M	M E G S W S V N T Y
UniRef90_A6WHY2	R F F D F F S H E A G	S T H M L T Q V Y S N	L G I V P A S Y R E	M D G W G V H A Y
UniRef90_L8FTE8	M F W D Y L S T H P E	S A H Q V M H L F S D R	G T V P Y S Y R H	M N G Y S G H T H
UniRef90_U2GJD8	M Q W D F W T R T Q E	S A H Q V T Y L M G	D R G T V P K T S R H	Q D G F S H T F
UniRef90_G3AFX7	M F W D Y L T T N Q E	S I H Q V M I L F S D R	G T V P A S Y R E	M N G Y S G H T Y
UniRef90_I1C786	S T Y D F F A Q Q P E	T T H T V L W V L S	G R G I V P K S Y R Q	V E G F G V N T F
UniRef90_UPI000414F236	T N W D F W T S L P E	S L H Q V T I T M S D R	G I V P S S Y R F	M H G F S S H T Y
UniRef90_Q8FTZ8	M Q W D F W T R A P E	S A H Q V T Y L M G	D R G T V P K T T R H	M N G Y G S H T F
UniRef90_F7NFT4	R F W D F V S L R P E	S M N F L Y L F S D R	L G T V R S Y R T	I P G F G I N T Y
UniRef90_A0A058Z635	A F W D F A S L V P E	S L H Q F T V L F S S	R G T V D G F R H	M H G F S S N T L
UniRef90_M2Q9R5	T F W D F V S L H T E	A T H H V M W A M S	D R G I V P R S Y R T	M E G F G V H T F
UniRef90_V4T8F7	R I F D F M S Q T P E	S M H M L T H L F S	P R G I V P A S Y R H	M E G F G V N T Y
UniRef90_W7YFV7	R F F D F C S N S P E	S F H M V T F V Y S	P W G I V P A N H R	M M Q S G V N T Y
UniRef90_A0AMY5	M F W D F M T L R P E	T L H A L L M Y F S D R	G T V P D G Y R H L H	G Y G V H T Y
UniRef90_UPI00030100F1	N N W D F W T S L P E	S A L H Q V T I V M S	D R G I V P A S Y R H	M H G F G S H T Y
UniRef90_J9ID17	T M W D F F S Q V P E	S L H A V T I Q Y T D R	G T V P A G Y R H	M H G Y S A N T F
UniRef90_A0A023FA54	M I W D F F T L R P E	S T Y Q L L I H Y S D R	G T V P D G F R H M H	G Y G S N T Y
UniRef90_E5A273	D F Q K V L Y M H A E	A T H M F M W A M S	D R T I V P A S Y R M	M M Q G F G V N T Y
UniRef90_J9YEX4	R I F D F F S H V P E	S T H T L T M L F S D Y	G T V P A S Y L N	M D G S G V H A F
UniRef90_Q96VB8	M F W D Y L T N N P E	S L H Q I M Y L F S N R	G T V P T S Y R K	M N G Y S G H S Y
UniRef90_U5EB31	T F W D F V T L H T E	A T H T F W S M D R	A L P R S L R M M E	G F G I H T F
UniRef90_UPI000362E3C3	M Q W D F W T L S P E	S S H Q V T Y L M G	D R G I V P R T W R N	M N G Y S H T Y
UniRef90_D5G9V6	N F W D F M Y M H S E	S T H M S I W A M S D R	G I V P R S Y R M	M Q G F G V N T F
UniRef90_C7R3Q0	M Q W D F W T L S P E	S A H Q V T Y L M G	D R G I V P K T W R H	M N G Y G S H T Y
UniRef90_A0A022MC77	R I F D F M S Q T P E	S M H M L V N L F S	P R G I V P A D Y R H	M M Q G F G V N T Y
UniRef90_G8ZNE5	M Y W D F L C N N P E	S V H N T M I F S D R	G T V P F S Y R H M H	G F S T H T F
UniRef90_U4U072	A F W D F V S L R P E	S T H Q T L Q L F T D R	G I V P A S H R T	M H G Y G A N T Y
UniRef90_UPI0003B5090D	R V F D F A S Q T P E	S L H M F S L V L F S	P R G I V P A S Y R E	M Q G F G V N T Y
UniRef90_G8BCZ0	M F W D Y L T S N P E	S V H Q V C I L F S D R	G T V P A S Y R H M H	G F S G H T Y
UniRef90_W6WHY3	L A F D F F A H T P E	A T N M L T H M Y A N E	G M P D S Y R H M D	G F A V H A F
UniRef90_UPI000225AFE5	H F W D Y V A J N N P E	S I H M V T W L M S D R	G I V P R S Y R M	M E G S W S I N T Y
UniRef90_F2PDC2	R F F D F F S H N P S	A T H M L T Q L Y S N	M G T V P A S Y R E	M D G F G V H A Y
UniRef90_U1GVH2	N F W D F Q Y L H S E	A T H M F M W A M S	D R A I V P R S F R M	M Q G F G V N T F
UniRef90_W4VL82	T F W D F V A J N N P E	S A H M V M W A M S	D R A I V P R S F R M	M E G F G V H T F
UniRef90_UPI000361984F	M Q W D F W T R T P E	S A H Q V A Y L M G	D R G I V P T N F R H	M D G F G S H T Y
UniRef90_UPI000377F585	L A F D F F A H S P E	A T N M L T R M Y S L	E G M P D S Y R H	M N G S A V H A F
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UniRef90_C5E502	M F W D F L N N P E	S V H N T M F V F S D R	G T V P F S Y R H M H	G Y S A H T Y
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210 220 230 240
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Q W E N A G E G V R S V L V K Y F F K S D Q Q G G I K N L L T S E E Q A A R E I V I Q A G E K D V G S
K L V N A E K G E A V L C K F S F E P K L G V I K N M T T E E A A E E Q Q G K D F S F H
K W I S E D G K T T Y I K L R W V P K Q Q G G I K N L L T E E A A E E Q Q G K D F S F H
L W I N A A S D R K H W V K Y H F L S D Q Q G G I K N L L T Q D A E A D R L I A G Q R D S F S
S M I N A A N A R H W V K F T L R S D Q Q G G I K N L L T D D E A A D I I G L R D D R E S
T L I N D K G E R H F V K F H F T P E L G V I H S L L V W D E A A K L L A G Q D P D F
R M V T D E G E S K L V K F H F K S L L Q Q G G R A S N L V W D E A A Q Q L I A S A G N P D F
R F I N A Q G Q S T F V K Y H W K P V N G G V H S L L V W D E S Q K I M G K D P D F
K W V N H E G K A V L V K Y H W K P A L Q Q G V I K N L L T A E Q Q A E E I Q Q G K D F N H
K W I N D S D D V Y V K Y T W K S L Q Q G G V I R N L L T A E Q Q A T A L Q Q G K D F N H
K F I N D K G Q V H Y V K F N W R S Q Q Q G V K R N L L D A D Q Q T K T Q Q G M D F N H
K W V N K A G E A H L V K Y H W V P K Q Q G I K N L L T Q D Q P E A E K V Q Q G K D F N H
S F V N A N N E R F W V K F H F K T Q Q Q G H K F F T N E E A A K V V V G G E K D R E S
R M V T N D G K S K L I K W H W K T L Q Q G K A S L V W E E A A Q V S G K N A D Y
S W I N E A G E R F W V K Y H F H S D D Q Q K H E G F S A D D A D E M A G Q D A D F
S L V N S E G K R H F V K F F T P E L G V I H S L V W D E A A K L I A G Q Q D P D F
K L V N A K G E T H Y V K F H W K T L Q Q G I R N L L D P K E V E A L V A G G K D Y S H
Q M I N A A E G V R H W V K F H F K T N Q Q G I R N L L T Q D A D E A D R I A G G K N A D Y
K W I N A D D G E G V L V K Y H W E P H N G G I K N L L V Q R E A D R E I A G G K N Y S H
K W V N A D G E S V L V K Y H W E P V Q Q G G I K N L L S Q D E A A M K V L Q G G K N F N H
K F V R E D D G E W V L V Q H F R A D D G G F K T L D N D Q A V R L I G G E N P D Y
K W I N K D G D A V L V K Y H W E P K Q Q G I K N L L T Q K Q A E E I L Q G G K N S H
K L I N A Q G K A V Y C K F H A K T D Q Q G I K N L L S V E E A G E R L A S T D P D Y
M W I N A A G E R F W V K Y H F M S S R Q Q G V I H T F T N E S A A D A E A L A G A D A D F
Q W I N A A G E R F W V K Y H F L S R Q Q G V I H T F T N E S A A D A E A L A G A D A D F
S M I N A N N E R V W V K F H F K T Q Q Q G I Q N F T G P E A D A M R T Q D M D H
K F I N A K G E V H Y V K F R W R T L Q Q G E K N L L D P Q Q Q V A E I A G G T T F S H
M W I N A A G R R F W V K Y H F R T D Q Q G N D F L L D P Q Q Q A D R L A G G V D A D Y
K W I N N K G D V N Y V K F Q W K S Q Q Q G V K S L L R P N E V A E I A G G K D F N H
K W V N A Q G G E T K L I K Y H W P L Q Q G V K R N L L T A E A A N I Q A T D L G S F
S W I N A G G E L F W V K Y H F L S A Q Q G V R N M T A A E A E I A G D N A D F
Q W I N A E G E R F W V K Y H F K S T R Q Q G W D F L L T D D E A A E L I V G E N T A D H
T F I N A E K N E V S F V K F H F L K S M Q G G I Q N L L T N A E A E K I A G Q M D R E S
T L I N A E G V R S F V K F H F T P T L G V I H S L V W D E A A K I A G K D P D F
S F I N A K N E R V W V K F T L K T Q Q Q G I E F L T D A E A A A V V A N D R E S
S L W N D Q G E R F W V K F H F R N H Q G G H E H F T N E E A E K I A G S T R E Q
R L M A N G K E T L V K F H W I P K A G T H S L L D D E E A V V V G G T N H S H
K W V N A K G E V T Y V K Y K W V P K Q Q G E R N L L T Q E E A D K I V Q S T Q Q E H
K W V N K E G K A H W V K F H F L S D Q Q G I K N L L T H E R A V E L A G G N P D Y
K M I N K S G D V K Y V K F H W V S K Q Q G I E N L L N A K E V A E V Q Q G Q D F Q H
T L F K E S G E Q Y F V K F H F I P E L G V I H S L M W D E A A K V C Q Q Q D P D F
K W V N D K G E A V L V K Y H W E P K Q Q G I R N L L T T K E A M E I A G G K S V G H
G F V N N E G K F N W V K Y H F V T N Q Q G I K N I K S Q E A Q Q L A G Q Q D P D Y
R L V N E Q G V S T Y A K F V W K P K Q Q G L S N L L W D E A A Q K I A G K D P D F
S M W N A K G E R F W V K F F R F S T Q Q G H E H Y T N E E A E S L G K T R E S
R F V Q D D G K S K L V K F R F R S L Q Q G K A L L W E E A Q T T A A M N A D A
K W L K D D G S F T Y V Q V H C R A D S G F K A T L D G E T A H R L T A A D N P D Y
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H Q F V E A G R L G R S Q T T R A E D D Y R Q T Q A G E R Y R S F E D D W E R R D D
D Q P L S G V A G K N A I E K T N N F G S Q A G E T Y R S Y F E D D S T K Q A R
Q W A A D G P L V R S A Y V D H P A D D D D V S E Q P R A L L T R D V M D D D G E Q R D R A
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K S I F V N T S T A Q Q K I K D R S N D F K Q A G E F Y R S L L S E D W E R E R
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P L Q I E R E A A H F N F R E Y D E D Y S Q P A A L Y N L F T A E E K D R
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F K E T L C G Q M A I T V D R I R E Q G F F E Y W T N V D A D L G V H L R E
V E A A L A F E L S H C D E P I V K R M S E R L A D I D L T L A Q N V A K M V G
F I D T L T G Q G K S L R P E V I Q E R F F G Y W G S V D S N L G Q T L R E G V G G
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UniRef90_A4NWF1		M F A R F T T V	A G E R G A	A D A E R D I R G F A L K F Y T E E
UniRef90_M4C466	F S E V K R T P	V A A R F S L V	T G E H G S	P D T I R D D P R G F A L K F Y T E K E
UniRef90_T1JS61	L S K P K R T K	V A V R F S T V	A G S K G S	A D T V R D D P R G F S V K L Y T D E
UniRef90_G8Y847	F Q S V Y K C P	V S V R F S T V	G G E R G S	A D T I R D D P R G F S T K F K T D D
UniRef90_Q6C3J7	F Q K I Y K C P	T T V R F S T V	G G E R G S	P D T A R D D P R G F A V K H K T D D W
UniRef90_G6D2N2	F S K V K R T P	V A A R F S P V	V V E R G S	S D T S R D A R G F A V K F Y T D E
UniRef90_W718X0	F Q A G K R C P	L S I R F S T V	G G E S G S	H D C A R D D P R G F A I K F R T D E E
UniRef90_J3Q5T8	F N K V N K A P	V V A R F S T V	G G E R G S	P E T A R D D P R G F S V K K T T E E E
UniRef90_E7DDY7	L G G G R K T E	V F V R F S T V	I H S K G S	P E T L R D D P R G F A V K F K I A E E
UniRef90_S3DLC6	L S K G V K T P	V F M R F S T V	T L G R E F	P D L A R N D P R G F A I K F Y T G E
UniRef90_A0A024G451	S K V G K R T P	I A V R F S Q V	A L E S G S	P E T V R D V R G F A V K F F Y S E K
UniRef90_T0CJ79	F Q P G A R T P	V F V R F S S V	I H G T H S	P E T L R D D P R G F A V K F Y T E D
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UniRef90_Q6CQS8	Y Q P G Y K C P	G I I R C S T V	G G E S G A	A D T A R D D P R G F S M K F Y T K W
UniRef90_Q2ULK1	L S K G K K S P	V L L R V S T V	G P E A G S	A D T T R D V H G W A M K L Y T D E
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UniRef90_C5DUL8	Y Q K P Y K C P	G T V R F S T V	G G E S G S	P D T A R D D P R G T S W K M Y T D W
UniRef90_C5E1N5	F Q D P G Y T P	I T V R F S T V	G G E S A S	P D T M R D P R G F S I K L K T D V
UniRef90_D8F8C9				M R G F A L K F Y T T E
UniRef90_G8C2G3	Y Q K V Y K C P	G M I R I S T V	A G S S G S	A D T V R D D P R G F S F K F Y T E W
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UniRef90_F7W971	L N K		K G S S D T	V R D I R G F A L K F F T E E
UniRef90_V5FMB6	L V G V K K T P	C V T R F S T T	G L E R G S	S E G I R D L K G M A T K F Y T K Q
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UniRef90_F4S8V8	I G K K T P	I S I R F S T V	G G E Q G S	G D Q A R D D P R G F A L K F R T Q K
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UniRef90_S8BV83	L N G L K K S Q	V L L R V S T V	G P E R G G	A D T I R D V R G W G M K L F T E E
UniRef90_F3JJZ9	F K S G E K T P	V F V R F S S V	V H G N H S	P E T L R D D P R G F A T K F Y T A D
UniRef90_C4JUN0	L R G S V T T P	V F V R F S T V	T F G R E F	P D S G R N D P R G F A L K F Y T G E
UniRef90_W2E3I7				
UniRef90_V5GZM9				
UniRef90_W9SPU5				
UniRef90_Q68IQ0	F S E V K Q T E	M F A R F S T V	A G E R G A	A D A E R D I R G F A L K F Y T D E
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UniRef90_W1SE87				

UniRef90_E1ZF83 G N F D M V G N N N P V F F I R D P A K F P H F I H S L K P N P K S H I Q E G W
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UniRef90_T0H367 G N W D L V G N N T P I F F I R D A M Q F P S L N R S H S L K P S V T N K Q D P N
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UniRef90_W1SE87 G N W D L V G N N T P V F F F R D P K L F A S L N H A V K R D P R T N M R S A Q

UniRef90_E1ZF83 R I A D F F S H H P E A M H M F T F L M D D W G V P R D Y R H M E G F G V H T F
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UniRef90_Q6CQS8 N N Q L L F E K L 250 E A G G E R P K F N C C Y V Q T M T P E Q A E E F R Y S I N D L T
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UniRef90_D0VUY2 A T Q D L L Y D S I 250 A A G N Y P E W K L Y I Q T M T P D H E D Q F D F D P L D V T
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	290	300	310	320
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UniRef90_S0F3T7	K T W P E K D F P	M I Q V V G R M V L	N N N Q N A M D N Y F F A N E I T E S Q Q V L A F N P A H M P	
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UniRef90_K2RFP5	K T W P H A D Y P	L R Q V V G K L T L	N N R N P S N Y F F A N E I T E S Q Q V L A F N P A H M P	
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UniRef90_T0H367	K E W L G V P	F R K I G E M T L	T D R M P S N Y F F A N E I T E S Q Q V L A F N P A H M P	
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UniRef90_V5FXH9	K V W P H S D Y P	L R R F G K I T L	N N K N P E N Y F F A N E I T E S Q Q V L A F N P A H M P	
UniRef90_H8WVW0	K T W P H K D Y P	L R R F G K I T L	N N K N P E N Y F F A N E I T E S Q Q V L A F N P A H M P	
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M F W D Y L G Q N P E S L H Q M M I L F S D R G T P D G V D S M H G Y S G H T F
N N W D F W T G L P E A L H Q V I T L L M S D R G T P K D L R H M H G F G S H T Y
R G S A D T V R M V R G F A V K F Y
N F W D F V G L Q P E S A H M V M W V M S D R G L P R S Y R M M Q G F G V N T Y
A L F N L L A N T P E A N H A G L M F Y S D H G T P Q G W R F N H G Y G H T F
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M N A Y S G H T Y
A V P A F F G A H P E A A P F L A W I K T A K P S A S Y A T E T Y N S V N A F
K L K A F F D A H P E T A A F R A W M K T A K P S A S Y V T E T Y Y S L N A F
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290 300 310 320

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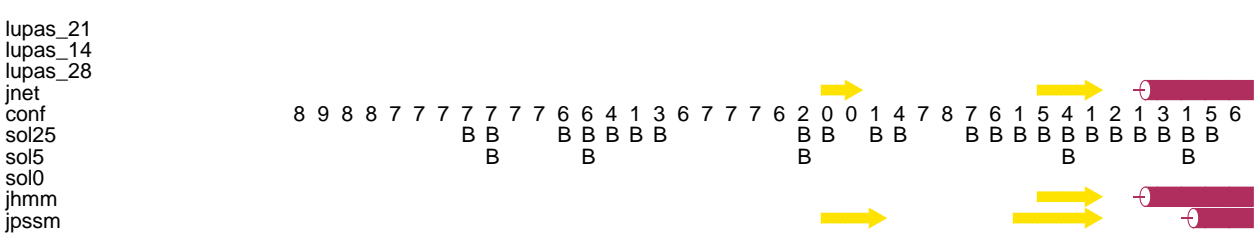
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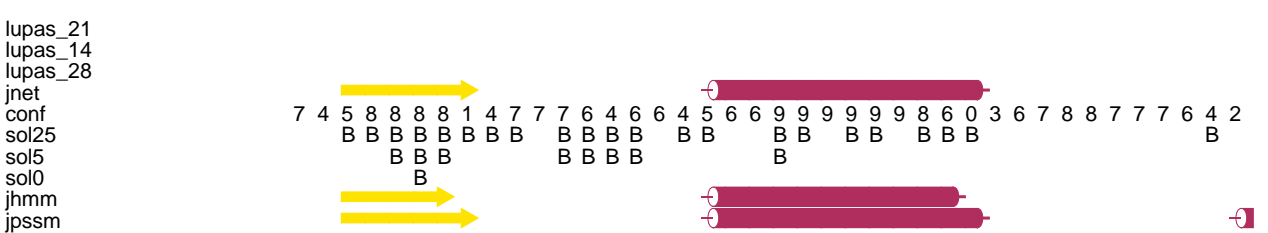
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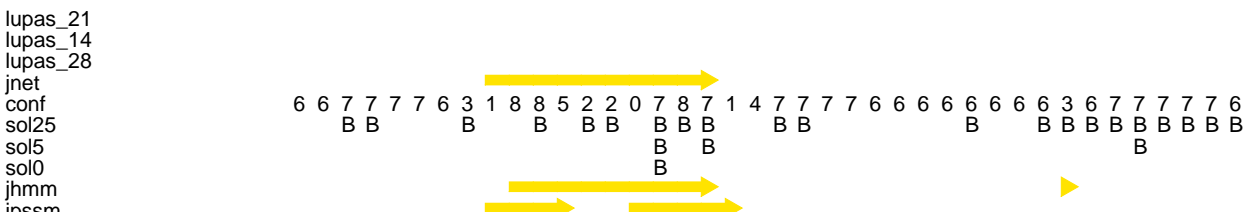
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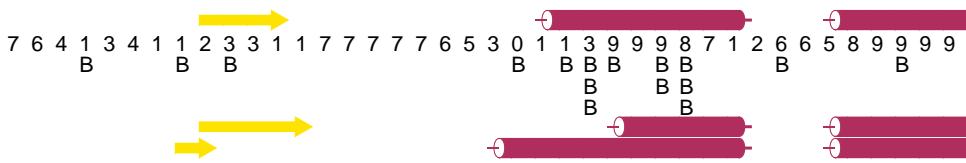
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