

QUERY 1 10 20 30 40
UniRef90_F8ADL1 Q Q S D L L T T R R I V N [A] K R E D D G G E F F F F N N N P V L K E A A F K A K R E T G G A L V H L L F G L
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UniRef90_QOTQY9 Q Q E E F T T R I V T T K S I K E N G E F F F F T N N K A F L K S I N E N A K E K K G S A L H L L F M G L
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UniRef90_R6G035 Q Q E L L T T R I V T T K A I K D D G G D F F F D N K A F L L N A M K H V K K K N G T A L H L L Y G L
UniRef90_E8WHZ5 Q Q D L L T T R I S K S I D D D G G D F F F Y Q N P A L V E C M A K T K A G S G T L H L L A G L
UniRef90_R5KCC3 Q Q E L L T T K I S K S I D D D G G D F F F Y Q N P A L V E C M A K T K A G S G T L H L L A G L
UniRef90_QOPIF9 Q Q E L L T T R I S K E I E T G G E F F E K N E P V L A A A M D R L S G T G K A L H L L M G L
UniRef90_N2ABP5 Q Q E L L T T R I S K E I E T G G E F F E K N E P V L A A A M D R L S G T G K A L H L L M G L
UniRef90_Q8PYF8 Q Q D L L T T K I N [V] A I R N D G S D F F F E N P A L T Q A A H L A K T S N G G R L H L L M G L
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UniRef90_A5CYN6 Q Q E L L T T R I S R A I K D G G S T F F F Q N A V E L V R Y A R E N N K A L H L L M G L
UniRef90_C8VXZ8 Q Q E L L T T R I S R A I K D G G S T F F F Q N A V E L V R Y A R E N N K A L H L L M G L
UniRef90_D5WR88 Q Q D L L T T R I V S K A I R E G G D F F F R N P A L L L G A M R H V K E R D S S R L H L L A G L
UniRef90_I0JQC4 Q Q D L L T T R I N [L] S I R E G G E F F F Y E N E V L L D G A V K H N A K A K T P L H L L Y A L
UniRef90_UPI000470D911 Q Q D L L T T R I N [L] S I R E G G D F F F E N E T L L V G A V K H N A K A K T G K K A L H L L Y A L
UniRef90_R5N933 Q Q E L L T T R I T K S I E D G G D F F F S I P E F V E A I E N C K K N T K L H L L I G L
UniRef90_K4L5N9 Q Q E L L T T R I F K A M D E D G G D L V K N E V L R E A M T R A R D S N G K A F H L L L G L
UniRef90_R6D260 Q Q N L L T T R I N [S] I R N G D D F F F K N P V F L N A I S K V K A N D S S L H L L M G L
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UniRef90_B0K881 Q Q E L L T T R I S K S I K K D I K K G D F F F K K E F L D A I E N V C K K N S S L H L L F G L
UniRef90_B9MS48 Q Q E E F T T R I S K S I K K D I K K G D F F F K K E F L D A I E N V C K K N S S L H L L F G L
UniRef90_UPI00036A083E Q Q E L L T T R I S R E I R Q G G D F F F R N D V L L G A V N H A R L F G G A L H L L M G L
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UniRef90_D4J2B2 Q Q D L L T T R I T T K A I N D G G E F F F E N K V L L Q A I E N C K K N D S D L H L L W G L
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UniRef90_J8T5V7 Q Q S L L T T R I V N [L] S I R E G G E F F F S E N E T L N N A M A H V T E K N S A L H L L Y G L
UniRef90_L7EPF1 Q Q S L L T T R I T T K A I R E D G G E F F F S E N E A L N K A V T S A L E K D N S T L H L L M G L
UniRef90_S9T8D0 Q Q D L L T T R I T T K S I R E D G G D F F S E N E T L L A A V K T A K E N N K A L H L L Y G L
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UniRef90_R6P4Z1 Q Q E L L T T K I T T K A I E D G G D F F T N K A L L S A V E N C K K N N S D L H L L F G L
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UniRef90_UPI00035C59E6 Q Q D L L T T R I S K S I R D G G E F F F Q N E V L K R A M N A A V R K N K T L H L L Y G L
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UniRef90_Q39QQ8 Q Q D L L T T R I T T K A I Q D D G D F F F E N P V L L L E C I A K T K A A G G R L H L L A G L
UniRef90_R5SXN5 Q Q E L L T T R I S K E I E E G G E F F F K N E E L V K A I K N V K E N N S S L H L L M G L
UniRef90_R4KSJ3 Q Q E L L T T R I S R [V] I R D R D E D F F Y K N E V L L E A M D K V R D R T N H S L H L L M G L
UniRef90_F0T1Q2 Q Q E L L T T R I F K D I R D D E D F F Y K N E V L L E A M D K V R D R T N H S L H L L M G L
UniRef90_F7NJQ8 Q Q E L L T T R I S K A I R D G G D F F A N P V L C G T M D Q T Q A G H G A L H L L M G L
UniRef90_U4WR82 Q Q D L L T T R I T T K S I K E D G D F F F E N T T L I S K A F K H A K A N N K A V H F F G L
UniRef90_R6J4E6 Q Q E L L T T R I T T K A I K E D G D F F E N T V L S K A M Q T V K A N G S A L H L L L G L
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UniRef90_I5ARB2 Q Q D L L T T R I T T K S I K D G G D F F F E N E E L L K A V N N A K A N N G D L H L L W G L
UniRef90_R6Y9V5 Q Q E L L T T R I T T K S I E D D G D F F Q T N P E L V D A I E N C K K N H T N L H L L M G L
UniRef90_W7CKL4 Q Q S L L T T R I D K A I T D G E F F Q T N P V L N G A Y E T H T K K N D S N L H L L F G L
UniRef90_F4BLS9 Q Q S L L T T R I D K A I E D G G E F F Q T N P V L S D A M E R T I K Y Q S N L H L L F G L
UniRef90_R5WRK1 Q Q S L L T T R I T T K S I K D G G D F F F E N P A F L N K A A E Y A R K N N G K A L H L L M G L
UniRef90_K0J437 Q Q S L L T T R I N [V] A I R E G G E F F F E N Q A L N K A I D R A L T K N K A L H L L V F G L
UniRef90_R5JLN9 Q Q E L L T T R I T T K A I K D G G D F F F E N K E M L D A I E N C K K N N S D L H L L W G L

QUERY	L	S	D	G	G	V	H	S	H	50	L	Y	A	L	L	R	L	A	A	60	L	A	A	K	K	R	E	G	L	V	K	R	V	V	70	L	H	G	F	L	D	D	R	R	D	D	80				
UniRef90_F8ADL1	L	V	S	D	G	G	V	H	S	H	L	D	H	L	L	F	A	L	L	R	L	A	A	K	K	R	E	G	L	V	K	R	V	V	L	H	G	F	L	D	D	R	R	D	D	P					
UniRef90_F6B4K9	L	L	S	D	G	G	V	H	S	H	L	I	F	F	A	L	R	E	L	R	L	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P				
UniRef90_UPI00037B32BD	L	L	L	S	D	G	G	V	H	S	H	I	K	D	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
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UniRef90_K4LD76	L	L	L	S	D	G	G	V	H	S	H	I	L	A	N	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P
UniRef90_R5AC68	L	L	L	S	D	G	G	V	H	S	H	I	N	T	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
UniRef90_Q0TQY9	L	L	S	N	D	G	G	V	H	S	H	I	D	H	L	K	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_R1CEN5	L	V	S	D	G	G	V	H	S	H	I	N	S	H	L	Y	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
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UniRef90_UPI000422B6C5	L	L	S	D	G	G	V	H	S	H	I	E	H	L	L	F	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_UPI00041A7935	L	L	L	S	N	D	G	G	V	H	S	H	I	D	H	L	K	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
UniRef90_K6DI07	L	L	S	D	G	G	V	H	S	H	I	N	D	M	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P			
UniRef90_I4DC85	L	L	S	D	G	G	V	H	S	H	I	N	D	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_W0EBT8	V	S	D	G	G	V	H	S	H	I	L	D	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_UPI00046F8CAC	V	S	D	G	G	V	H	S	H	I	L	D	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_I4AEA8	L	L	S	D	G	G	V	H	S	H	I	S	E	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_UPI000413D8C6	L	L	S	N	D	G	G	V	H	S	H	I	D	H	L	L	J	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
UniRef90_E0RAG8	L	L	S	D	G	G	V	H	S	H	I	S	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_UPI000363603C	L	L	S	D	G	G	V	H	S	H	I	S	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_W4QIZ8	L	L	S	D	G	G	V	H	S	H	I	N	I	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_G2FZ18	L	L	S	D	G	G	V	H	S	H	I	I	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_A8FHJ1	L	L	S	D	G	G	V	H	S	H	I	I	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_B4UM80	V	S	D	G	G	V	H	S	H	I	V	E	H	L	L	H	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_E6TRC8	L	L	S	D	G	G	V	H	S	H	I	K	K	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_R6G035	L	L	S	D	G	G	V	H	S	H	I	N	T	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_E8WHZ5	L	L	S	D	G	G	V	H	S	H	I	N	T	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_R5KCC3	L	L	S	D	G	G	V	H	S	H	I	T	D	H	L	Y	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_Q0PIF9	L	L	S	D	G	G	V	H	S	H	I	T	D	H	L	Y	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P	
UniRef90_N2ABP5	V	S	D	G	G	V	H	S	H	I	N	T	H	L	Y	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P			
UniRef90_Q8PYF8	L	S	Y	D	G	G	V	H	S	H	I	M	T	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_F3Z457	V	S	D	G	G	V	H	S	H	I	H	E	K	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_R6GEC5	L	L	S	D	G	G	V	H	S	H	I	N	T	H	L	Y	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_A5CYN6	L	L	S	D	G	G	V	H	S	H	I	S	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_C8VXZ8	L	L	S	D	G	G	V	H	S	H	I	S	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_D5WR88	L	L	S	D	G	G	V	H	S	H	I	E	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_I0JQC4	L	L	S	D	G	G	V	H	S	H	I	D	M	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P				
UniRef90_UPI000470D911	V	S	D	G	G	V	H	S	H	I	N	N	H	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P			
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UniRef90_K4L5N9	L	L	S	D	G	G	V	H	S	H	I	R	R	H	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_R6D260	L	L	S	D	G	G	V	H	S	H	I	L	E	H	L	Y	G	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_Q8TMI6	V	S	C	D	G	G	V	H	S	H	I	T	P	H	L	H	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_B0K881	L	L	S	D	G	G	V	H	S	H	I	T	H	L	L	F	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_B9MS48	L	L	S	D	G	G	V	H	S	H	I	T	H	L	L	Y	A	L	L	R	E	L	R	A	A	K	K	R	E	G	L	V	K	R	V	V	L	F	H	G	F	L	D	D	R	R	D	D	P		
UniRef90_UPI00036A083E	L	L	S	D	G	G	V	H	S	H	I	T	H	L	L	J	A																																		

QUERY
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90 100 110 120
P Q T A P Q Y I K E Q K K M E E Y V G E I A T L S G R Y Y A M D R D D K R W D
K S A L G Y I T E I L Q Q K K M E E L L G G G G I V A S T S S G R Y Y A M D R D D K R W E
A S A K R Y M R E A L Q A K K M K E E L L G G G G I V A S T S S G R Y Y A M D R D D K R W E
D S A V R Y M E Q L L Q A K K M K E E L L G G G G I V A S T S S G R Y Y A M D R D D K R W E
D S A V G Y T I E E Q L Q Q E K K I K E E V I V I G G G Q I A T T V Q G G R Y Y A M D R D D K R W E
P T S G A G Y I E E E A E R D K K C R E I I G G G K I A T T V M G R Y Y A M D R D D K R W E
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P S S G K E F Y I V E E L E E N A M K E E I I G G G K I A T T V S S G R Y Y A M D R D D K R W E
P Q T A K G Y I I E E Q T E E Q K L M Q E E L L G V V V G G K I A T T V S S G R Y Y S M D R D D K R W D
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P S S G K E F I E E K T E E A M M K E E V I G V V V G G Q I A T T V S S G R Y Y A M D R D D N R W E
P Q T A K G Y I I E E A E E K K M K E E I I G V V V G G K I A T T V S S G R Y Y S M D R D D K R W D
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P Q S A K T Y L G Q L N E K K M E E E I I G V V V G G K I A T T V S S G R Y Y L M D R D D Q R W D
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P Q T A K T Y I R Q T L D K M K E E Y G V V V G G K I A T T V I S S G R Y Y S M D R D D K R W D
Q T S A E I Y V R N L Q D K L Q S E E L L G L I G G K I A S L L H G R Y Y A M D R D D K R W E
S A K L Y I A Q L E E E Q I I K E E L L G L I G G K I A S L V S S G R Y Y V M D R D D H R W E
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P K S G L D Y L A A V E R R L A A E T L G G Y G G K V I A T T V T G R Y Y A M D R D D K R W D
P T S A E T Y I R Q T E E T K I I K E E L L G G L V G G K I A T S I E G R Y Y A M D R D D K R W D
P Q S G A E Y L A R L E E A K I A K E R I I G G F G G R I A T T V I G R Y Y A M D R D D N R W D
P A S G K D Y V E A L E A K K M K A E I I G V V V G G K I A S L S S G R Y Y A M D R D D N R W D
P A N A K E Y V E A L D K K A Q I I G G G V G G K I A T I S S G R Y Y A M D R D D K R W E
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K A A L G D V R K E L D A M C N I G G Q S V K I A T T V Q G R Y Y A M D R D D K R W E
P T S G A G Y V R K E L D A M K M K E E I I G V V V G G K I A S V I G R Y Y A M D R D D K R W E
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P A S G E G Y I R Q K L E A K K M K E E K L G V V V G G K I A S I S S G R Y Y A M D R D D K R W Q
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P T S G A G F V K A L G D Y M Q Q L I Q F G G K I A T T V C G R Y Y A M D R D D N R W D
Q K S A K Q Y I E A A Q M D E I I G V V V G G K F A T T I S S G R Y Y S M D R D D K R W D
P A S G K G F L E E L I A K T K E I I G V V V G K V A S L S S G R Y Y A M D R D D N R W D

QUERY	130	140	150	160
UniRef90_F8ADL1	R[V]E K A Y R A M[V]Y G E G P T Y R D S A L V E A V I K D E A Y N E R G G E T D D E F F I V L P S			
UniRef90_F6B4K9	R[T]E Q A Y Y R A M[V]Y A E G G L E Q V A N S P L V E A I K D V E A Y E R R G S E T D D E F F V K M P T T			
UniRef90_UPI00037B32BD	R[R]T E K S Y R A M[V]Y G E G P K Y T T D P L V E A I K V E A Y E R R S G S V F D D E F F V M P T T			
UniRef90_U1YJU9	R[T]E K S Y R A M[V]Y G E G P K Y T T D P L V E A V V R Q R A S Y E R R S G S V F D D E F F V M P T T			
UniRef90_UPI0003B35036	R[T]E K S Y R A M[V]Y G E G P T Y R D S P L V E A V V R Q R A S Y E R R S G S V F D D E F F V M P T T			
UniRef90_K4LD76	R[V]E K A F N A M[V]Y G E G P T V T T D A V Q A I R R D S Y E A G N K T D D E F F V L P T T			
UniRef90_R5AC68	R[V]Q E A Y N A M[V]L G R G T T A T D A V Q A I R R D S Y E A G N K T D D E F F V L P T T			
UniRef90_Q0TQY9	R[V]E L A Y N A M[V]L G G E G R E K A S S A V I E A M N R S Y Y H Q D N K T D D E F F V V L P T T			
UniRef90_R1CEN5	R[T]Q K A Y D A M[V]L G K G R E K A S S A I E A M N R S Y Y H Q D N K T D D E F F V V L P T T			
UniRef90_UPI000225AE67	R[V]K K A Y D A M[V]Y G E G P S T Y K S A L E V V E D S Y Q N G D L Y D D E F F V L P S T			
UniRef90_D9QU81	R[T]E K A Y N A L A F G E G V T A T S N A L E A V V E D S Y Q N G D L Y D D E F F V L P S T			
UniRef90_UPI000422B6C5	R[V]K K S Y D A M[V]Y G E G P K Y K T P Y E V V D D S Y E K N E T T Y D D E F F V L P S T			
UniRef90_UPI00041A7935	R[V]E L A Y N A L V K G T G E T S N S A V E A I E D N S Y H D N G K T D D E F F V L P S T			
UniRef90_K6DI07	R[V]L K K S Y D A M[V]Y G E G P S F A N S A M E C V D D N S Y D K N G T T Y D D E F F V L P S T			
UniRef90_U4DC85	R[V]E K G Y Q A L A Y G Q G G L K F A P S A L A A V E D D N S Y D V R V V N D D E F F V L P S T			
UniRef90_W0EBT8	R[V]E K A Y N A L V Q G E G L K A S P N L F A A V E Q S Y D V R V V N D D E F F V V P T T			
UniRef90_UPI00046F8CAC	R[T]Q K A Y D A L V L G T G E F A S S A V E A M E Q S Y D K A D V V T D D E F F V R A P T T			
UniRef90_I4AEA8	R[V]E K G Y R A L V D G E G L K A S P N L A A T I R V V T D D E F F V A P T T			
UniRef90_UPI000413D8C6	R[V]E K S Y R A M[V]Y G E G P S Y T D P L E V V E D S Y K N E I Y D D E F F I P T S			
UniRef90_E0RAG8	R[V]E K S Y R A L V Y G E G P Q Y T D P M E A L K D D S Y K N S G I Y F D D E F F V E P T S			
UniRef90_UPI000363603C	R[V]E K A Y R A M[V]Y G E G P K Y R D P F A C V D D S Y K N S G I Y F D D E F F V I P T S			
UniRef90_W4QIZ8	R[V]E K S Y R A M[V]Y G E G P T Y T D P V Q V I E D N Y K N D I F D D E F F V I P S T			
UniRef90_G2FZ18	R[V]E K G Y R A L A L G E G P S C A A S A L A A V D S S Y E V N G R V Y D D E F F V L P S T			
UniRef90_A8FHJ1	R[V]E K A Y R A M A Y G E G P S Y A Q S A L Y D V V D D S Y E V N G R V Y D D E F F V L P S T			
UniRef90_B4UM80	R[V]A Q A Y A A L V S G E G F K A A S G T A A M E A A Y A R N G E T D D E F F V K P T T			
UniRef90_E6TRC8	R[V]E K S Y R S M[V]Y G D G N L K Y A S P V E A L I Q Q A S Y K N D K T H D D E F F V L P T T			
UniRef90_R6G035	R[V]E K A Y A A L V Y G E G N E A A D A V E A I Q Q A S Y K N D K T H D D E F F V L P T T			
UniRef90_E8WHZ5	R[V]E K A Y R A M[V]Y G E G N P F P S A E A A L K K S Y A D G V T D D E F F V M P S			
UniRef90_R5KCC3	R[V]E K A Y A S L V Y G E G E T A T D A V Q A M A D S Y A K R D T D D E F F V L P T T			
UniRef90_Q0PIF9	R[V]K R A W D A I V Y G E G E K A P L G S A A V E T A Y H A R L T D D E F F V L P T T			
UniRef90_N2ABP5	R[V]E K A Y A A L T K G E G V K A S D P V A A M Q A S Y D D E K T D D E F F V L P T T			
UniRef90_Q8PYF8	R[T]K L A Y D A L T L G Q V P Y K T S D A V T A V I S E A Y A A R G E T D D E F F I K P R			
UniRef90_F3Z457	R[N]E L A Y D A L T L G Q V P Y K T S D A V T A V I S E A Y A A R G E T D D E F F I K P R			
UniRef90_R6GEC5	R[V]E L A F K A M T K G E G V K G T D A A E A V V Q A S Y D A E K T D D E F F V L P T T			
UniRef90_A5CYN6	R[V]E R A Y N A M[V]L G E G I Q V A T P L I E A V D D L G Y G K D E T D D E F F I Q P T T			
UniRef90_C8VXZ8	R[V]A R A Y E A M[V]Y G R G Q V A P N P L I E A V D D L G Y G K D E T D D E F F V E P T T			
UniRef90_D5WR88	R[T]A K A Y R A M[V]Y G E G E T Y T D P L E A L V E A S Y F R R G V T D D E F F V V P M			
UniRef90_I0JQC4	R[V]K L A Y D A L A Y G E G H K Y T D D A L Q A V I E D S Y Q N S V Y D D E F F V E P V C			
UniRef90_UPI000470D911	R[V]E K T Y R A M[V]Y G E G A K F T D A L L Q A V I T A S Y Q N S V Y D D E F F I E P C			
UniRef90_R5N933	R[V]Q K C Y D A M V F G K G E K A T S P T Q A I E S S Y Q K E V F D D E F F V P T T			
UniRef90_K4L5N9	R[V]E K A Y K A L V A G E G V M A C E N A L A A V E N A Y A N D K I V D D E F F V D P C			
UniRef90_R6D260	R[V]E K A Y D V L V R S K G V V C E D A L L Q A M A S A Y A K N D V I T D D E F F V V P C			
UniRef90_Q8TMI6	R[T]K L A Y D V L T L G S Q Y K A P N A E T A V I S E A Y S G R G E T D D E F F V K P T T			
UniRef90_B0K881	R[T]K K A Y D A L V L G K G V Y A N S P M E A V D D L A Y S K G D Q N T D D E F F V E P T T			
UniRef90_B9MS48	R[V]E K A Y N A M[V]F G E G Y A S S G L E A V E S A Y E K G N T D D E F F V I P T T			
UniRef90_UPI00036A083E	R[T]E R A Y R A M[V]L G E G R K A L S G Q A A I S E A Y K R G E T D D E F F V Q P T T			
UniRef90_UPI00047AFA7D	R[T]E K A Y R A M[V]Y G D G P T S T D P I Q V L K Q A S Y A K D V T D D E F F V I P T T			
UniRef90_R5U902	R[V]E R A Y N A L V K G E G V Q A E S A T A G L K Q A S Y A D A D K T D D E F F V E P M			
UniRef90_D4J2B2	R[V]Q K A Y D S L V K G E G V K A T S V P D A M Q A S Y D E G V T D D E F F V L P T T			
UniRef90_Q1DCX8	R[V]E H Q A Y E A L V F G R G P K A P S D A L S A T I R A S Y A E K V T D D E F F V K P T T			
UniRef90_D9RZ27	R[T]E K A Y N A M[V]L G E G P L R A E S A M K A L I R E A Y K R G E T D D E F F V I P T T			
UniRef90_J8TSV7	R[V]E K S Y R A M[V]Y G E G P S Y H S P A E A I Q D S Y G N S V H D D E F F L I P S			
UniRef90_L7EPF1	R[V]Q L A Y N A L V L G G E G E T A G S A L E A V E E K S Y H S N K T D D E F F V L P T T			
UniRef90_S9T8D0	R[V]E K S Y R A M[V]Y G E G P K Y R D P I A A V E E S Y S Q S V Y D D E F F V M P T T			
UniRef90_UPI0004229286	R[V]E K S Y R A M[V]Y G E G E T Y S S T K E A L D A S Y S K E V H D D E F F V L P T T			
UniRef90_R5ASJ3	R[V]E K A Y A A L T Y G E G L T A S S A A E A M Q D S Y A D A G V T D D E F F V V P T T			
UniRef90_R5KWZ2	R[V]E K A Y V A M T K G E G V Q T E T D P V A A I K Q D S Y A K D V T D D E F F M L P T T			
UniRef90_R6P4Z1	R[T]E K A Y N A I T L G E G N T A E S A E A C M T A S Y A E G V N D D E F F V V P T T			
UniRef90_J9HKQ3	R[V]A K A Y N A M[V]H A E G E Q V T D L V Q A V I T K S Y A N D V T D D E F F V L P T T			
UniRef90_UPI00035C59E6	R[V]E K A F R A V A Y G E G P Q T K D P L T V V T S S Y A Q E V Y D D E F F V E P S			
UniRef90_C9LYH6	R[V]E K A Y D A I A K G D G V K K A T A K E A I E A S Y A E K V T D D E F F V V P A			
UniRef90_R6QD34	R[V]E K A Y K A L V M G E G V M K D S A V D A I A A D S Y K E A V N D D E F F V L P S			
UniRef90_Q39Q08	R[V]E R A Y N A M[V]Q G E G V Q R A S S A E A I E A S Y A A D V T D D E F F V E P S			
UniRef90_R5SXN5	R[E]K L A Y D A I A Y G I G N K F K N A E K A I E A S Y E A E E F D D E F F V K P T T			
UniRef90_R4KSJ3	R[T]K D A Y A M[V]R G E G Y R A S S A L D A L I E A Y A G R Q V T D D E F F V K P T T			
UniRef90_F0T1Q2	R[V]N Q A Y K A M[V]Y G E G E M A P N A L A A I Q K C Y E C K V L D D E F F V Q P T T			
UniRef90_F7NJQ8	R[V]E K A Y D A L V C R E G L H A G S A V E A I Q Q A Y Q R G E T D D E F F V L P T T			
UniRef90_U4WR82	R[V]E K A Y R A M[V]Y G D A P H Y S D A I K A V I K R A S Y A K S V T D D E F F V M P A			
UniRef90_R6J4E6	R[V]Q K A Y D A M V L H D G T V C T D A V S G V I K R A S Y A G G V T D D E F F V V P F			
UniRef90_R5XDS2	R[V]E K A Y K A M V C G E G E T S T S A S E A L E E S Y K K G A T D D E F F I V P T			
UniRef90_A0A011SF14	R[V]K R A Y D A L V H G E G A K A T D P V K A M K D S Y K K G E V M D D E F F V E P T			
UniRef90_UPI00047925AB	R[V]E K S Y R A M[V]Y G E G P A A T D A V A A V K K E S Y A N N V Y D D E F F V P T			
UniRef90_A3DBQ2	R[V]K L A Y D A M V L G R G N Q A Q S A K E A V A M E S Y K R Q E F D D E F F V K P T F			
UniRef90_M3EMT8	R[V]E L A Y R V L V D G V G K T A E S A K A G I M S Y D E D V M D D E F F V V P C			
UniRef90_UPI000404DFA5	R[V]E K S Y R V L V G E G P A F N S P E E A I E H S Y N E E V W D D E F F L E P C			
UniRef90_I9NV64	R[V]E K A Y N A M V C R E G E E A A S A S E A V I E T S Y K L G K T D D E F F V A P T T			
UniRef90_B3E3M3	R[V]E K A Y N A L V L G G E G C H A S S A E A I E T S Y G A G V I H D D E F F V V P C			
UniRef90_W4EQE3	R[V]E K V Y Q A L V D A K G E E A S S A K T G V I Q N S Y A K D V I K D D E F F V V P F			
UniRef90_Q12UT0	R[T]E D A Y N A I T R G D V I Y S K G P V D A L S E G Y G R G E N D D E F F I K P T T			
UniRef90_R7IMT6	R[V]Q K A Y L A M T E G K G E T A E S C V K A M E A N S Y A A D V T D D E F F V K P V G			
UniRef90_E4KPA8	R[V]Q L A Y E A L V H G K G E T F E S A Q A V L D D N S Y A K E V Y D D E F F I V P T T			
UniRef90_R6R4V0	R[V]E K A Y S A M V Y G E G N K A C C P V K A V E E S Y A N D V T D D E F F V V P T T			
UniRef90_T4VWI5	R[I]Q L A Y D A M V D G K G E T A T S A K E A V I E E S Y A K E D K T D D E F F V L P T T			
UniRef90_G4Q2P4	R[I]Q K A Y D A M V T G A E S L T A P S A L E A G L Q A A Y E R G V T D D E F F V E P F			
UniRef90_I5ARB2	R[V]E L A Y T A L T K G E G V D G V D P V Q A V Q A S Y D N G K T D D E F F V I P T T			
UniRef90_R6Y9V5	R[V]E K A Y K A L V K G E G I K A N S A L A G I E E S Y Q K E V V D D E F F V E P T T			
UniRef90_W7CKL4	R[V]E K A Y N A I T N G T G A T A S A K E A I E A S Y A A G K N D D E F F V V P T T			
UniRef90_F4BLS9	R[V]E K A Y N A V A H G E G V K A T S A L E A V Q T S Y D K E K F D D E F F V M P T T			
UniRef90_R5WRK1	R[V]E K A Y D M L A L G G E R T A T D P L V A L N D E A S Y A E D V I Y D D E F F V L P T T			
UniRef90_K0J437	R[V]Q K S Y N A M[V]Y G E G P T A K D P L A A V V D N E A S Y A E D V I Y D D E F F I L P T T			
UniRef90_R5JLN9	R[V]E L A Y K S L V I G E G V Q A E D P V A A I Q E S Y D K E V Y D D E F F I L P T T			

QUERY	V	I	V	R	E	D	G	R	P	170	A	T	I	Q	D	N	D	A	180	F	Y	N	F	R	P	D	R	A	190	I	S	N	T	F	T	N	E	D	200							
UniRef90_F8ADL1	V	I	V	K	N	G	K	P	V	L	A	L	I	E	D	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	R	A	L	T	D	D						
UniRef90_F6B4K9	V	I	T	D	E	H	K	Q	S	P	V	A	R	I	A	S	G	D	S	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	D				
UniRef90_UPI00037B32BD	V	I	V	K	E	D	K	Q	S	P	V	G	L	I	E	A	S	G	D	S	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	D			
UniRef90_U1YJU9	V	I	T	D	A	D	Q	Q	S	P	V	L	A	T	I	K	D	N	D	A	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	D			
UniRef90_UPI0003B35036	V	I	V	D	E	H	N	G	R	P	V	G	T	I	V	K	D	N	D	A	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	D			
UniRef90_K4LD76	V	I	V	K	E	D	S	G	M	A	T	A	K	I	S	D	H	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	E	I	T	R	S	L	C	D	P	D				
UniRef90_R5AC68	V	I	V	K	E	D	S	G	H	P	V	A	R	I	K	D	D	N	D	S	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	R	A	I	V	D	P	E			
UniRef90_Q0TQY9	V	I	V	E	E	D	D	G	H	P	V	A	R	I	K	D	D	N	D	S	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	R	A	I	V	D	P	E			
UniRef90_R1CEN5	V	I	V	E	K	N	G	P	V	I	A	T	I	V	K	D	D	N	D	S	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	R	A	I	V	D	P	E			
UniRef90_UPI000225AE67	V	I	T	D	E	N	G	A	P	V	G	K	V	E	D	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	T	F	A	N	E	D		
UniRef90_D9QU81	V	I	T	D	K	N	G	Q	P	V	G	K	V	E	D	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	I	D		
UniRef90_UPI000422B6C5	V	I	V	D	E	N	G	Q	P	V	K	G	T	I	K	D	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	I	D	
UniRef90_UPI00041A7935	V	I	L	E	D	G	H	P	T	A	T	I	K	N	K	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	L	T	N	K	E	D				
UniRef90_K6DI07	V	I	L	K	D	N	G	H	P	T	A	K	I	K	N	K	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	L	T	N	K	E	D			
UniRef90_I4DC85	V	I	L	G	Q	D	G	K	P	V	L	G	L	I	S	Q	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	E	E	
UniRef90_W0EBT8	V	I	L	D	G	A	G	Q	P	V	L	G	K	I	Q	E	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	H	A	F	V	D	E	E		
UniRef90_UPI00046F8CAC	V	V	L	E	N	G	K	P	V	A	T	I	E	P	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	I	Q	N	P	E				
UniRef90_I4AEA8	V	I	V	D	S	E	N	G	K	A	V	G	T	I	Q	D	N	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	L	V	N	E	E			
UniRef90_UPI000413D8C6	V	I	T	N	E	D	G	T	P	V	A	T	I	V	Q	D	N	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	E	D		
UniRef90_E0RAG8	V	I	V	K	A	D	G	S	P	V	G	L	V	E	K	D	R	N	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	A	E	
UniRef90_UPI000363603C	V	M	V	D	E	N	G	E	P	V	A	T	I	V	K	D	R	N	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	N	A	F	T	N	E	E	
UniRef90_W4QIZ8	V	I	T	E	E	D	G	S	P	V	G	T	I	V	Q	D	D	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	E	D		
UniRef90_G2FZ18	V	I	T	D	E	N	G	K	P	V	A	T	I	V	Q	E	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	H	A	F	V	D	D	E		
UniRef90_A8FHJ1	V	I	T	R	E	N	G	E	P	V	A	K	V	R	D	E	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	N	A	F	T	N	E	D		
UniRef90_B4UM80	V	V	V	N	G	D	G	K	P	V	G	A	I	R	D	E	G	D	A	I	L	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	T	Q	E	N	E	G	
UniRef90_E6TRC8	V	I	T	K	K	D	D	G	T	P	V	G	T	I	Q	D	E	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	E	A	P	E
UniRef90_R6G035	V	I	T	K	K	D	D	G	T	P	V	G	T	I	Q	D	E	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	E	A	P	E
UniRef90_E8WHZ5	V	I	I	A	G	G	V	P	L	S	G	R	I	V	G	D	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	T	D	P	G	E		
UniRef90_R5KCC3	V	I	V	D	E	A	G	K	P	L	S	L	V	K	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	T	D	K	E	D		
UniRef90_Q0PIF9	V	I	L	D	E	K	G	E	P	R	G	T	V	A	D	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	H	V	F	T	D	Q	N	D		
UniRef90_N2ABP5	V	I	E	E	D	G	K	P	V	A	T	I	V	K	D	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	M	T	R	V	F	C	C	D	D	D	D			
UniRef90_Q8PYF8	I	V	T	D	S	E	N	G	A	P	E	A	V	I	Q	D	T	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	W	A	F	V	K	D	A	E	
UniRef90_F3Z457	V	V	V	D	A	N	G	A	P	L	G	T	V	Q	D	G	D	V	I	V	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	H	D	A	E	E		
UniRef90_R6GEC5	V	I	E	K	E	G	K	P	V	A	T	I	V	Q	D	K	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	C	D	D	D	D		
UniRef90_A5CYN6	V	V	V	L	N	D	N	G	P	V	A	A	K	I	M	K	G	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	V	D	E	D		
UniRef90_C8VXZ8	V	I	L	K	D	N	S	G	P	V	A	V	V	E	S	D	N	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	V	D	K	D	D		
UniRef90_D5WR88	V	M	V	D	E	A	G	R	P	V	G	S	V	E	D	E	G	D	A	V	I	V	F	F	N	F	R	P	D	R	V	Q	I	L	S	R	A	F	T	E	K	D	D			
UniRef90_I0JQC4	V	L	T	D	E	N	G	E	A	Q	G	T	V	E	N	D	E	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	T	F	A	N	D	D		
UniRef90_UPI000470D911	V	I	V	D	N	E	G	K	P	V	A	T	I	V	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	V	F	T	N	A	D	D		
UniRef90_R5N933	V	I	Y	N	G	D	K	P	V	A	T	I	V	D	D	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	L	V	D	P	E	N	D	
UniRef90_K4L5N9	V	I	T	D	E	S	G	R	P	V	A	V	I	E	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	I	E	E	N	D	D			
UniRef90_R6D260	V	I	G	N	P	E	E	G	R	I	S	A	N	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	T	R	L	V	D	P	D	D	D				
UniRef90_Q8TMI6	V	I	T	D	H	E	E	K	P	V	A	T	I	V	R	D	K	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	W	A	F	V	K	D	D	D	
UniRef90_B0K881	V	I	L	E	N	G	K	P	V	A	T	I	V	E	A	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	I	D	E	V	E	D	
UniRef90_B9MS48	V	V	L	E	N	G	K	P	V	A	T	I	V	E	A	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	C	D	V	E	D	D	
UniRef90_UPI00036A083E	V	I	E	Q	P	D	G	S	P	L	A	T	V	R	E	G	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	A	F	V	D	G	D	D		
UniRef90_UPI00047AFA7D	T	I	V	G	T	D	D	G	A	P	V	G	L	V	E	N	D	S	V	I	L	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	V	F	T	N	E	A	D	D
UniRef90_R5U902	V	I	V	K	D	G	A	P	V	A	T	I	V	K	D	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	R	T	F	C	D	D	N	D	D	
UniRef90_D4J2B2	V	I	T	D	A	A	G	N	P	L	S	V	V	K	N	G	D	S	V	I	F	F	N	F	R	P	D	R	A	R	R	E	L	T	S	R	A	F	C	D	D	D	K	E	D	
UniRef90_Q1DCX8	V	I	L	A	A	G	D	G	T	P	V	G	R	I	Q	D	G	D	A	V	I	F	F	N	F	R	P	D	R	A	R	R	Q	Q	L	T	S	Q	A	L	A	F	P	E	D	D

QUERY UniRef90_F8ADL1 UniRef90_F6B4K9 UniRef90_UPI00037B32BD UniRef90_U1YJU9 UniRef90_UPI0003B35036 UniRef90_K4LD76 UniRef90_R5AC68 UniRef90_Q0TQY9 UniRef90_R1CEN5 UniRef90_UPI000225AE67 UniRef90_D9QU81 UniRef90_UPI000422B6C5 UniRef90_UPI00041A7935 UniRef90_K6DI07 UniRef90_I4DC85 UniRef90_W0EBT8 UniRef90_UPI00046F8CAC UniRef90_I4AEA8 UniRef90_UPI000413D8C6 UniRef90_E0RAG8 UniRef90_UPI000363603C UniRef90_W4QIZ8 UniRef90_G2FZ18 UniRef90_A8FHJ1 UniRef90_B4UM80 UniRef90_E6TRC8 UniRef90_R6G035 UniRef90_E8WHZ5 UniRef90_R5KCC3 UniRef90_Q0PIF9 UniRef90_N2ABP5 UniRef90_Q8PYF8 UniRef90_F3Z457 UniRef90_R6GEC5 UniRef90_A5CYN6 UniRef90_C8VXZ8 UniRef90_D5WR88 UniRef90_I0JQC4 UniRef90_UPI000470D911 UniRef90_R5N933 UniRef90_K4L5N9 UniRef90_R6D260 UniRef90_Q8TMi6 UniRef90_B0K881 UniRef90_B9MS48 UniRef90_UPI00036A083E UniRef90_UPI00047AFA7D UniRef90_R5U902 UniRef90_D4J2B2 UniRef90_Q1DCX8 UniRef90_D9RZ27 UniRef90_J8Tsv7 UniRef90_L7EPF1 UniRef90_S9T8D0 UniRef90_UPI0004229286 UniRef90_R5ASJ3 UniRef90_R5KWZ2 UniRef90_R6P4Z1 UniRef90_J9HKQ3 UniRef90_UPI00035C59E6 UniRef90_C9LYH6 UniRef90_R6QD34 UniRef90_Q39Q08 UniRef90_R5SXN5 UniRef90_R4KSJ3 UniRef90_F0T1Q2 UniRef90_F7NJQ8 UniRef90_U4WR82 UniRef90_R6J4E6 UniRef90_R5XDS2 UniRef90_A0A011SF14 UniRef90_UPI00047925AB UniRef90_A3DBQ2 UniRef90_M3EMT8 UniRef90_UPI000404DFA5 UniRef90_I9NV64 UniRef90_B3E3M3 UniRef90_W4EQE3 UniRef90_Q12UT0 UniRef90_R7IMT6 UniRef90_E4KPA8 UniRef90_R6R4V0 UniRef90_T4VWI5 UniRef90_G4Q2P4 UniRef90_I5ARB2 UniRef90_R6Y9V5 UniRef90_W7CKL4 UniRef90_F4BLS9 UniRef90_R5WRK1 UniRef90_K0J437 UniRef90_R5JLN9

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

	1	10	20	30	40																																							
UniRef90_M7P521	Q	S	L	T	R	I	N	K	S	I	R	E	K	D	F	F	E	N	E	M	L	S	A	F	R	N	A	K	K	P	G	R	A	L	H	I	M	G	L					
UniRef90_A8MFY1	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	G	L	M	G	A	I	S	V	K	K	K	G	K	A	L	H	L	M	G	L				
UniRef90_R5NIX6	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	E	L	L	M	G	A	I	S	V	K	K	K	G	K	A	L	H	L	M	G	L			
UniRef90_R5DRKQ7	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	E	L	L	M	G	A	I	S	V	K	K	K	G	K	A	L	H	L	M	G	L			
UniRef90_A9WJ95	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	P	V	L	L	Q	A	I	V	K	K	K	G	K	A	L	H	L	M	G	L				
UniRef90_D9R620	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	V	A	G	F	L	A	V	K	K	K	G	K	A	L	H	L	M	G	L					
UniRef90_L0KAF1	Q	Q	D	F	T	T	R	I	N	K	S	I	R	E	K	D	F	F	E	N	E	A	I	A	K	A	I	V	K	K	K	G	K	A	L	H	L	M	G	L				
UniRef90_UPI0003B55315	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	A	L	L	D	A	V	N	N	C	K	K	K	G	K	A	L	H	L	M	G	L			
UniRef90_UPI0003B47F30	Q	Q	D	L	T	T	R	I	S	K	A	I	R	E	K	D	F	F	E	N	E	V	I	A	A	A	M	D	N	C	K	K	K	G	K	A	L	H	L	M	G	L		
UniRef90_W3AEA7	Q	Q	N	L	T	T	R	I	H	K	S	I	R	E	K	D	F	F	E	N	E	P	A	F	L	E	A	V	N	N	A	K	A	L	H	L	M	G	L					
UniRef90_UPI00046D4B55	Q	Q	D	Y	T	T	R	I	N	L	A	I	R	E	K	D	F	F	E	N	E	P	V	L	V	D	S	C	R	R	V	K	E	T	G	G	A	L	H	L	M	G	L	
UniRef90_V6QDI8	Q	Q	D	L	T	T	R	I	T	K	A	I	R	E	K	D	F	F	E	N	E	P	V	L	L	L	Q	G	I	R	N	A	K	E	H	D	S	A	L	H	L	M	G	L
UniRef90_S7U4Y4	Q	Q	D	M	T	T	R	I	D	V	S	I	R	E	K	D	F	F	E	N	E	P	A	F	L	D	C	I	A	K	V	K	A	S	G	G	R	L	H	L	M	G	L	
UniRef90_R6PBD6	Q	Q	S	L	T	T	R	I	N	K	E	I	R	E	K	D	F	F	E	N	E	K	A	F	K	Q	D	A	I	H	V	K	K	D	S	S	A	L	H	L	M	G	L	
UniRef90_D6Y130	Q	Q	S	L	T	T	R	I	N	L	A	I	R	E	K	D	F	F	E	N	E	K	A	F	N	Q	A	I	H	V	K	K	D	S	S	A	L	H	L	M	G	L		
UniRef90_E8REY0	Q	Q	D	F	T	T	R	I	N	L	A	I	R	E	K	D	F	F	E	N	E	P	V	F	N	R	V	M	E	Q	V	K	A	N	D	S	S	A	L	H	L	M	G	L
UniRef90_F9DXN5	Q	Q	S	L	T	T	R	I	D	K	S	I	R	E	K	D	F	F	E	N	E	A	L	L	E	A	T	M	E	H	V	K	M	N	K	G	G	D	L	H	L	M	G	L
UniRef90_UPI000479E9C0	Q	Q	E	L	T	T	R	I	D	K	E	I	R	E	K	D	F	F	E	N	E	A	L	L	E	A	T	M	E	H	V	K	M	N	K	G	G	D	L	H	L	M	G	L
UniRef90_R6EH65	Q	Q	M	L	V	K	I	S	K	S	I	R	E	K	D	F	F	E	N	E	A	L	L	K	A	C	E	N	C	K	K	K	G	T	A	L	H	L	M	G	L			
UniRef90_UPI0003662214	Q	Q	S	L	T	T	R	I	N	L	A	I	R	E	K	D	F	F	E	N	E	A	L	L	E	A	T	M	E	H	V	K	M	N	K	G	G	D	L	H	L	M	G	L
UniRef90_R6ET79	Q	Q	E	L	T	T	R	I	N	L	A	I	R	E	K	D	F	F	E	N	E	A	L	L	K	A	C	E	N	C	K	K	K	G	T	A	L	H	L	M	G	L		
UniRef90_A0A017RWP7	Q	Q	D	F	T	T	R	I	N	K	E	I	R	E	K	D	F	F	E	N	E	T	L	L	E	A	I	E	N	A	K	K	F	N	S	S	A	L	H	L	M	G	L	
UniRef90_F7XKE4	Q	Q	E	L	T	T	R	I	N	K	S	I	R	E	K	D	F	F	E	N	E	Q	D	G	G	A	I	E	N	V	K	E	H	D	S	S	A	L	H	L	M	G	L	
UniRef90_R6NIR7	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	Q	D	G	G	A	I	E	N	V	K	E	H	D	S	S	A	L	H	L	M	G	L	
UniRef90_K2HBN4	Q	Q	S	L	T	T	R	I	N	M	A	I	R	E	K	D	F	F	E	N	E	T	L	L	G	A	V	R	H	A	K	D	N	D	K	S	L	H	L	M	G	L		
UniRef90_UPI00047AEDE4	Q	Q	E	F	A	R	K	S	K	A	I	R	E	K	D	F	F	E	N	E	V	L	V	K	A	V	D	N	A	I	E	H	K	G	S	A	L	H	L	M	G	L		
UniRef90_R7KPB9	Q	Q	M	L	V	K	I	S	K	D	I	K	D	G	E	F	F	K	N	E	A	L	V	T	A	M	E	N	C	K	K	G	S	A	L	H	L	M	G	L				
UniRef90_H6LDP3	Q	Q	E	L	T	T	R	I	T	K	A	I	R	E	K	D	F	F	E	N	E	A	F	L	S	G	I	R	T	A	K	E	K	G	G	A	L	H	L	M	G	L		
UniRef90_E0E554	Q	Q	D	L	T	T	R	I	T	K	A	I	R	E	K	D	F	F	E	N	E	P	A	L	V	E	A	M	E	N	A	K	D	K	S	A	L	H	L	M	G	L		
UniRef90_UPI000380AD44	Q	Q	D	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	A	T	L	V	G	A	V	E	N	C	K	K	N	G	S	A	L	H	L	M	G	L	
UniRef90_D4LE84	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	A	L	T	G	A	V	E	N	C	K	K	N	G	S	A	L	H	L	M	G	L		
UniRef90_B3PGV8	Q	Q	S	F	T	T	R	I	N	K	S	I	R	E	K	D	F	F	E	N	E	P	E	Y	V	K	A	I	D	S	A	I	T	A	N	D	R	A	V	H	L	M	G	L
UniRef90_S7URB5	Q	Q	D	L	T	T	R	I	D	R	A	I	R	E	K	D	F	F	E	N	E	V	F	S	D	T	M	A	S	V	I	K	A	N	D	R	A	V	H	L	M	G	L	
UniRef90_UPI00047E4125	Q	Q	E	L	T	T	R	I	N	K	A	I	R	E	K	D	F	F	E	N	E	E	F	I	A	A	I	N	S	A	K	K	N	G	K	S	L	H	L	M	G	L		
UniRef90_H3NHW4	Q	Q	S	L	T	T	R	I	D	Q	A	I	R	E	K	D	F	F	E	N	E	A	F	N	R	A	F	D	H	V	K	T	E	G	S	N	L	H	L	M	G	L		
UniRef90_A5N2N6	Q	Q	A	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	V	L	N	S	A	V	D	N	A	V	K	N	N	S	D	L	H	L	M	G	L		
UniRef90_UPI00047AB8F3	Q	Q	A	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	T	E	L	T	D	A	V	K	N	A	K	A	N	G	S	A	L	H	L	M	G	L	
UniRef90_R7GZB3	Q	Q	L	T	V	K	I	S	K	D	I	K	D	G	E	F	F	E	N	E	P	A	L	L	A	A	M	E	D	C	K	K	K	N	D	S	A	L	H	L	M	G	L	
UniRef90_K8EJS1	Q	Q	S	L	T	T	R	I	S	D	K	A	I	R	E	K	D	F	F	E	N	E	A	L	N	A	F	H	T	K	E	N	N	S	D	L	H	L	M	G	L			
UniRef90_R7RTN7	Q	Q	E	Y	T	T	R	I	N	K	E	I	R	E	K	D	F	F	E	N	E	D	A	F	I	K	A	I	E	N	A	K	N	N	S	D	V	H	L	M	G	L		
UniRef90_I1DT46	Q	Q	D	F	T	T	R	I	T	K	A	I	R	E	K	D	F	F	E	N	E	P	A	L	V	D	A	V	N	S	A	Q	Q	N	H	K	S	A	L	H	L	M	G	L
UniRef90_UPI000289BFC8	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	P	A	F	L	C	I	K	S	A	K	D	N	S	M	H	I	M	G	L				
UniRef90_DOMJR2	Q	Q	E	L	T	T	R	I	D	K	E	I	R	E	K	D	F	F	E	N	E	V	L	V	R	A	A	R	H	A	R	E	H	N	T	R	L	H	L	M	G	L		
UniRef90_R8VTT5	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	A	F	L	H	A	V	D	Q	C	K	W	F	N	S	T	L	H	L	M	G	L		
UniRef90_R7GH61	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	A	F	L	H	A	V	D	Q	C	K	W	F	N	S	T	L	H	L	M	G	L		
UniRef90_UPI0003B4C4CC	Q	Q	S	L	T	T	R	I	D	K	S	I	R	E	K	D	F	F	E	N	E	A	F	L	H	A	V	D	Q	C	K	W	F	N	S	T	L	H	L	M	G	L		
UniRef90_B0PCE9	Q	Q	E	L	T	T	R	I	D	K	S	I	R	E	K	D	F	F	E	N	E	A	F	L	H	A	V	D	Q	C	K	W	F	N	S	T	L	H	L	M	G	L		
UniRef90_R6IDS5	Q	Q	D	L	T	T	R	I	S	K	S	I	R	E	K	D	F	F	E	N	E	A	F	L	H	A	V	D	Q	C	K	W	F	N	S	T	L	H	L	M	G	L		
UniRef90_A6TU31	Q	Q	E	L	T	T	R	I	S	R	A	I	R	E	K	D	F	F	E	N	E	H	F	L	K	L	L	R	K	L	K	T	S	G	K	A	L	H	L	M	G	L		
UniRef90_S0NZ38	Q	Q	S	L	T	T	R	I	D	K	S	I	R	E	K	D	F	F	E	N	E	A	L	L	D	L	F	D	F	V	K	K	N	S	N	L	H	L	M	G	L			
UniRef90_B6FY89	Q	Q	E	L	T	T	R	I	T	K	S	I	R	E	K	D	F	F	E	N	E	V	L	C	Q	A	M	E	N	A	K	E	N	S	A	L	H	L	M	G	L			
UniRef90_W0F5Y9	Q	Q	E	L	T	T	R	I	N	V	A	I	R	E	K	D	F	F	E	N	E	P	E	L	L	N	T	I	S	Y	A	K	E	N	N	K	P	L	H	L	M	G	L	
UniRef90_C9KMI3	Q	Q	Q	L	T	T	R	I	T	R	D	I	K	N	G	D	F	F	E	N	E	V	L	V	K	I	M	Q	D	A	K	A	N											

	50	60	70	80
UniRef90_M7P521	L	D	L	G
UniRef90_A8MFY1	L	D	G	G
UniRef90_R5NIX6	L	D	G	G
UniRef90_R5DRQ7	L	D	G	G
UniRef90_A9WJ95	F	G	P	G
UniRef90_D9R620	V	S	D	G
UniRef90_L0KAF1	V	S	D	G
UniRef90_UPI0003B55315	V	S	D	G
UniRef90_UPI0003B47F30	L	S	D	G
UniRef90_W3AEA7	L	S	D	G
UniRef90_UPI00046D4B55	L	S	D	G
UniRef90_F7V6T2	L	S	D	G
UniRef90_V6QDI8	L	S	D	G
UniRef90_S7U4Y4	L	S	D	G
UniRef90_R6PBD6	V	S	D	G
UniRef90_D6Y130	L	S	D	G
UniRef90_E8REY0	V	S	D	G
UniRef90_F9DXN5	L	S	D	G
UniRef90_UPI000479E9C0	L	S	D	G
UniRef90_R6EH65	L	S	D	G
UniRef90_UPI0003662214	L	S	D	G
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UniRef90_A0A017RWP7	L	S	D	G
UniRef90_F7XKE4	V	S	D	G
UniRef90_R6NIR7	M	S	D	G
UniRef90_K2HBN4	L	S	D	G
UniRef90_UPI00047AEDE4	V	S	D	G
UniRef90_R7KPB9	L	S	D	G
UniRef90_H6LDP3	L	S	D	G
UniRef90_E0E554	L	S	D	G
UniRef90_UPI000380AD44	L	S	D	G
UniRef90_D4LE84	L	S	D	G
UniRef90_B3PGV8	L	S	D	G
UniRef90_S7URB5	V	S	D	G
UniRef90_UPI00047E4125	V	S	D	G
UniRef90_H3NHW4	L	S	D	G
UniRef90_A5N2N6	L	S	D	G
UniRef90_UPI00047AB8F3	L	S	D	G
UniRef90_R7GZB3	L	S	D	G
UniRef90_K8EJS1	L	S	D	G
UniRef90_R7RTN7	L	S	D	G
UniRef90_I1DT46	L	S	D	G
UniRef90_UPI000289BFC8	L	S	D	G
UniRef90_DOMJR2	F	S	D	G
UniRef90_R8VTT5	M	S	D	G
UniRef90_R7GH61	V	S	D	G
UniRef90_UPI0003B4C4CC	V	S	D	G
UniRef90_B0PCE9	C	S	D	G
UniRef90_R6IDS5	L	S	D	G
UniRef90_A6TU31	V	S	D	G
UniRef90_S0NZ38	V	S	D	G
UniRef90_B6FY89	V	S	D	G
UniRef90_W0F5Y9	V	S	D	G
UniRef90_C9KMI3	V	S	D	G
UniRef90_M1ZAG2	V	S	D	G
UniRef90_B1C833	V	S	D	G
UniRef90_T0NIX3	L	S	D	G
UniRef90_B110X9	L	S	D	G
UniRef90_UPI000464A340	L	S	D	G
UniRef90_C7LNN3	V	S	D	G
UniRef90_R6M4C9	L	S	D	G
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UniRef90_X8GSG3	V	S	D	G
UniRef90_A9KPF4	L	S	D	G
UniRef90_R6GSI6	L	S	D	G
UniRef90_UPI00037AC544	L	S	D	G
UniRef90_X0YQU1	V	S	D	G
UniRef90_G9WJZ1	V	S	D	G
UniRef90_U2Q0Z7	L	S	D	G
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UniRef90_B9EAH0	L	S	D	G
UniRef90_A0A033V042	L	S	D	G
UniRef90_G0VNR3	V	S	D	G
UniRef90_Q2BHX0	L	S	D	G
UniRef90_R5SH33	L	S	D	G
UniRef90_X8K4B8	L	S	D	G
UniRef90_Q3A1E5	L	S	D	G
UniRef90_UPI00016C0EE7	L	S	D	G
UniRef90_UPI0003B39162	L	S	D	G
UniRef90_D1AFV6	M	S	D	G
UniRef90_R5SGX9	V	S	D	G
UniRef90_UPI00047C72A6	V	S	D	G
UniRef90_R5AXB9	V	S	D	G
UniRef90_E4THT6	L	S	D	G
UniRef90_E8LJU5	L	S	D	G
UniRef90_B9DJJ8	L	S	D	G
UniRef90_B4VX78	C	S	D	G
UniRef90_A1S1L6	L	S	D	G

	90	100	110	120
UniRef90_M7P521	P	K	T	A
UniRef90_A8MFY1	P	K	S	A
UniRef90_R5NIX6	P	T	D	G
UniRef90_R5DRQ7	T	D	G	A
UniRef90_A9WJ95	P	R	S	A
UniRef90_D9R620	P	A	S	A
UniRef90_L0KAF1	P	Q	S	A
UniRef90_UPI0003B55315	P	E	S	G
UniRef90_UPI0003B47F30	P	A	S	A
UniRef90_W3AEA7	P	Q	S	G
UniRef90_UPI00046D4B55	P	Q	S	G
UniRef90_F7V6T2	P	T	S	G
UniRef90_V6QDI8	P	T	S	G
UniRef90_S7U4Y4	P	Q	G	G
UniRef90_R6PBD6	P	K	T	A
UniRef90_D6Y130	P	T	T	G
UniRef90_E8REY0	P	T	S	G
UniRef90_F9DXN5	P	T	T	A
UniRef90_UPI000479E9C0	P	A	S	G
UniRef90_R6EH65	V	T	S	G
UniRef90_UPI0003662214	P	K	T	A
UniRef90_R6ET79	P	A	S	G
UniRef90_A0A017RWP7	P	Q	S	A
UniRef90_F7XKE4	P	T	N	A
UniRef90_R6NIR7	P	T	S	A
UniRef90_K2HBN4	P	Q	S	A
UniRef90_UPI00047AEDE4	P	A	C	A
UniRef90_R7KPB9	P	S	S	A
UniRef90_H6LDP3	P	D	S	G
UniRef90_E0E554	P	S	A	I
UniRef90_UPI000380AD44	P	D	S	G
UniRef90_D4LE84	P	S	S	G
UniRef90_B3PGV8	P	S	A	E
UniRef90_S7URB5	P	T	G	G
UniRef90_UPI00047E4125	P	N	A	G
UniRef90_H3NHW4	P	K	A	G
UniRef90_A5N2N6	P	S	S	A
UniRef90_UPI00047AB8F3	P	A	S	A
UniRef90_R7GZB3	P	S	S	A
UniRef90_K8EJS1	P	D	S	G
UniRef90_R7RTN7	P	S	S	A
UniRef90_I1DT46	P	R	S	A
UniRef90_UPI000289BFC8	P	S	S	A
UniRef90_DOMJR2	P	K	S	G
UniRef90_R8VTT5	P	T	S	G
UniRef90_R7GH61	P	A	S	A
UniRef90_UPI0003B4C4CC	P	H	A	G
UniRef90_B0PCE9	P	T	S	G
UniRef90_R6IDS5	P	R	S	A
UniRef90_A6TU31	P	Q	S	G
UniRef90_S0NZ38	P	T	S	G
UniRef90_B6FY89	P	R	S	A
UniRef90_W0F5Y9	P	K	S	G
UniRef90_C9KMI3	P	S	A	Q
UniRef90_M1ZAG2	P	T	T	G
UniRef90_B1C833	P	K	S	G
UniRef90_T0NIX3	P	S	S	A
UniRef90_B110X9	P	N	A	L
UniRef90_UPI000464A340	R	Q	S	A
UniRef90_C7LNN3	P	T	S	G
UniRef90_R6M4C9	P	T	S	G
UniRef90_Q97L53	P	S	S	A
UniRef90_F2JKZ0	P	A	S	G
UniRef90_E3PWF6	P	Q	S	G
UniRef90_B1HVS3	P	T	T	A
UniRef90_X8GSG3	P	T	S	A
UniRef90_A9KPF4	P	T	S	G
UniRef90_R6GSI6	P	T	S	G
UniRef90_UPI00037AC544	P	S	S	A
UniRef90_X0YQU1	P	R	S	A
UniRef90_G9WJZ1	P	D	S	G
UniRef90_U2Q0Z7	P	S	S	G
UniRef90_G4KRN0	P	T	S	G
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UniRef90_B9EAH0	Q	Q	T	A
UniRef90_A0A033V042	Q	K	S	A
UniRef90_G0VNR3	P	R	S	A
UniRef90_Q2BHX0	P	T	S	A
UniRef90_R5SH33	P	T	S	G
UniRef90_X8K4B8	P	K	S	A
UniRef90_Q3A1E5	P	Q	S	G
UniRef90_UPI00016C0EE7	P	D	S	G
UniRef90_UPI0003B39162	P	T	S	G
UniRef90_D1AFV6	P	K	S	G
UniRef90_R5SGX9	P	S	S	A
UniRef90_UPI00047C72A6	P	S	S	G
UniRef90_R5AXB9	P	T	S	G
UniRef90_E4THT6	P	T	S	G
UniRef90_E8LJU5	P	R	S	L
UniRef90_B9DJJ8	Q	K	S	A
UniRef90_B4VX78	P	N	S	G
UniRef90_A1S1L6	P	R	S	A

UniRef90_M7P521 R V K L A Y D A I L T D G T G G L A R S A A E G V E A A Y G R D E M T D E F V I L I P F
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UniRef90_R5NIX6 R I E K A Y D A I L A T E A N G K G L V A S D P L D A V V E A S Y A N R K D E L M T D E F F V L I P T
UniRef90_R5DRQ7 R L E A A Y K A L A T E A N G K G L V A S D P L D A V V E A S Y A N R K D E L M T D E F F V L I P T
UniRef90_A9WJ95 R T G R A Y A A L T V D G V G E K A P S A R A C A I I E A S Y A A R D K V I T S D D E F F V L I P T
UniRef90_D9R620 R T E R A Y N A L T K G E G N R H G D S A T A G I E Q A S Y D Q E D I Y T D E F F V L I P T
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UniRef90_UPI0003B47F30 R V E Q L A Y D S L V A G E G V M A E D A S V Q A M A R A D S Y A K D G V L H D E F F V L I P T
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UniRef90_UPI00046D4B55 R V E K A W D A L V R G R G A P A P S A T E A V R Q A A Y A L G Q T T D E F F V L I P R
UniRef90_F7V6T2 R E E K A Y R A L T L G E G Q T A E D P V V Q A M Q D S Y A D A N G V T D D E F F V L I P
UniRef90_V6QDI8 R V E K A Y N A L L V N G E G V K A E D P V V Q A I K Q D S Y A D A N G V T N D D E F F V L I
UniRef90_S7U4Y4 R N Q R A F E A M V L G R G E R T D D P L A A V I Q A S Y A D A N G K T T D D E F F I E P T
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UniRef90_W9V0F1	Q	N	F	T	T	R	I	S	K	A	I	R	E	D	G	D	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_V5B975	Q	D	F	S	K	V	N	D	A	I	K	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_UPI000347B4A6	Q	D	L	V	K	I	S	K	A	L	E	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_Q67SW0	Q	T	L	V	R	I	W	S	R	I	Q	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_K8GFJ3	Q	E	L	V	R	I	S	D	A	V	E	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_D6Z192	Q	D	F	T	T	R	I	G	L	S	V	H	N	G	E	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_E1SR19	Q	E	L	T	T	R	I	G	K	A	I	S	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_K1ZGE8	Q	D	L	T	T	R	I	D	L	A	I	K	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_D5BHS0	Q	D	L	V	K	I	N	Q	A	V	E	R	E	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_UPI0003653614	Q	E	L	T	T	R	I	N	S	K	D	I	R	E	N	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L
UniRef90_UPI0003680825	Q	N	F	T	T	R	I	S	K	A	I	S	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_K6X642	Q	D	F	T	T	R	I	S	K	A	I	S	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_X81NJ1	Q	D	L	P	R	I	N	K	S	I	E	S	T	G	N	E	F	Y	T	N	K	V	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_UPI00035D0539	Q	N	F	T	T	R	I	N	K	A	V	E	E	G	A	L	F	E	N	K	V	L	D	A	I	D	K	A	V	A	S	G	G	A	V	L	H	L	M	G	L			
UniRef90_K9YZG3	Q	E	L	T	T	R	I	S	D	A	V	E	E	G	S	L	F	S	N	P	V	L	E	E	L	C	Q	V	N	K	S	E	G	K	L	H	L	M	G	L				
UniRef90_H3NMX8	Q	D	L	T	T	R	I	S	K	E	I	E	E	G	V	F	Y	N	Q	Y	L	V	E	A	V	K	K	A	K	E	N	N	K	A	V	L	H	L	M	G	L			
UniRef90_Q1C282	Q	D	L	T	T	R	I	D	K	E	I	K	E	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L		
UniRef90_UPI00040E85D5	Q	E	L	T	T	R	I	N	V	A	I	R	T	G	S	F	A	K	N	E	V	L	L	N	A	V	R	A	K	N	N	K	P	L	H	L	M	G	L					
UniRef90_UPI00035C998E	Q	E	L	T	T	R	I	N	V	A	I	R	T	G	S	F	A	K	N	E	V	L	L	N	A	V	R	A	K	N	N	K	P	L	H	L	M	G	L					
UniRef90_Q11NP9	Q	D	L	V	K	I	N	L	A	V	E	N	N	T	L	A	D	E	P	A	I	K	D	A	F	N	Y	A	K	T	N	N	K	K	V	L	H	L	M	G	L			
UniRef90_K2FE10	Q	N	L	P	K	I	T	L	S	V	Q	E	K	G	F	F	S	N	P	V	E	S	E	V	M	E	N	S	K	N	S	L	H	L	M	G	L							
UniRef90_M1WLB7	Q	D	M	T	R	I	D	M	A	I	K	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L			
UniRef90_D4K344	Q	Q	L	T	T	R	I	T	K	S	I	R	E	D	G	E	M	L	K	N	P	V	L	V	K	N	M	K	A	A	I	D	A	G	K	A	L	H	L	M	G	L		
UniRef90_C6BY17	Q	D	M	T	R	I	D	A	I	K	E	K	G	E	L	A	T	N	A	I	S	G	K	A	F	S	D	A	I	A	S	G	K	R	V	L	H	L	M	G	L			
UniRef90_R7ZZ05	Q	D	L	V	K	I	N	K	A	V	E	R	G	E	L	N	G	H	A	P	V	L	K	K	A	F	S	D	A	I	A	S	G	K	R	V	L	H	L	M	G	L		
UniRef90_E1VHM1	Q	D	F	T	T	R	I	T	K	A	I	R	E	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C	R	E	W	G	S	S	L	H	L	M	G	L	
UniRef90_M7DC31	Q	S	L	T	T	R	I	D	K	D	L	E	R	D	S	H	F	Q	E	N	P	V	L	C	C	S	A	I	D	K	A	V	A	S	G	R	A	V	L	H	L	M	G	L
UniRef90_UPI0002EB8279	Q	D	L	V	K	I	N	R	A	L	C	R	D	D	S	L	E	L	K	N	P	E	I	V	K	A	F	S	Y	A	K	Q	V	H	F	M	G	L						
UniRef90_Q3SGA3	Q	E	F	T	T	R	I	D	R	A	T	E	S	G	Y	F	Y	T	N	P	A	L	L	N	A	V	H	L	A	R	D	N	G	K	T	L	H	L	M	G	L			
UniRef90_D0Z1F1	Q	D	L	T	T	R	I	T	K	A	I	S	D	G	D	F	F	F	K	N	S	A	F	L	E	A	M	D	N	C</														

				50	60	70	80																																							
UniRef90_F4XCZ7	L	S	D	G	G	V	H	S	H	I	T	H	L	F	A	L	L	K	M	A	K	K	E	Q	G	L	L	K	K	V	Y	V	H	C	F	L	D	D	G	R	D	V	P			
UniRef90_W6NGW7	L	S	D	P	G	G	V	H	S	H	S	E	H	L	K	G	L	L	K	F	A	K	K	E	Q	G	L	L	K	K	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	P	
UniRef90_Q21NH1	L	S	D	P	G	G	V	H	S	H	E	E	H	M	I	A	M	M	E	L	A	V	K	K	R	G	L	L	K	K	V	Y	M	H	A	F	L	D	D	G	R	D	V	P		
UniRef90_UPI00034693A7	L	S	D	P	G	G	V	H	S	H	E	E	H	I	A	A	V	E	L	A	A	K	K	R	G	L	L	K	K	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	P		
UniRef90_U2RJE3	M	S	D	G	G	V	H	S	H	E	N	H	I	I	G	L	V	E	D	M	A	K	K	R	G	L	L	K	K	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	P		
UniRef90_E1IBU3	F	G	P	G	G	V	H	S	H	E	D	H	L	F	A	L	L	E	L	A	R	R	H	A	F	E	R	K	V	Y	L	H	L	F	L	D	D	G	R	D	V	L				
UniRef90_B7S0T9	L	S	D	P	G	G	V	H	S	H	E	D	Q	L	F	A	V	K	M	A	S	D	R	H	A	F	G	A	S	L	H	H	A	F	L	D	D	G	R	D	V	L				
UniRef90_G7UW63	L	S	D	P	G	G	V	H	S	H	E	R	H	L	W	A	L	L	D	L	A	R	Q	R	E	G	L	L	K	K	V	Y	A	V	H	H	A	F	L	D	D	G	R	D	V	P
UniRef90_UPI00047CAF98	L	S	D	G	G	V	H	S	H	T	S	K	N	H	L	Y	A	L	L	K	L	K	A	K	Q	E	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	G	
UniRef90_G8TMR4	L	S	D	G	G	V	H	S	H	T	S	K	N	H	L	K	A	I	L	L	C	H	A	A	E	M	N	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	G
UniRef90_UPI000472565E	L	S	D	G	G	V	H	S	H	T	S	K	N	H	L	F	A	L	L	R	L	A	A	E	M	N	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	G	
UniRef90_UPI0003B79BC4	L	S	D	E	G	G	V	H	S	H	Q	E	H	L	J	A	M	I	E	L	A	A	Q	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	G		
UniRef90_C4L5H5	L	S	D	G	G	V	H	S	H	I	N	H	M	F	A	I	V	E	F	A	A	K	L	H	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_K2DWK6	L	S	N	G	G	V	H	S	R	N	T	H	L	E	A	M	V	E	L	A	V	K	K	R	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_K2DZK8	L	S	D	P	G	G	V	H	S	H	E	D	H	L	Y	A	L	L	E	M	A	K	N	G	L	L	K	K	V	Y	F	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_W9V0F1	L	S	D	P	G	G	V	H	S	H	E	E	H	M	F	A	L	L	E	L	A	V	K	K	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_V5B975	L	S	D	P	G	G	V	H	S	H	E	T	Q	I	A	A	M	V	E	L	A	V	K	K	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_UPI000347B4A6	V	S	D	G	G	V	H	S	H	I	D	H	L	L	K	G	L	L	C	T	L	A	G	E	A	N	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_Q67SW0	L	S	D	G	G	V	H	S	H	I	D	H	L	L	J	A	L	L	E	L	A	K	R	E	N	V	E	R	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_K8GJF3	C	S	D	G	G	V	H	S	H	L	T	H	L	F	G	L	L	E	L	A	K	D	Q	Q	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D			
UniRef90_D6Z192	L	S	D	G	G	V	H	S	H	L	D	H	L	V	A	L	L	E	L	A	A	R	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_E1SR19	L	S	D	P	G	G	V	H	S	H	E	D	H	L	E	A	M	V	R	M	A	E	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_K1ZGE8	L	S	D	P	G	G	V	H	S	H	E	E	H	I	H	A	M	L	K	L	A	K	K	H	H	A	E	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_D5BHS0	L	S	D	D	G	G	V	H	S	H	K	H	I	K	Y	A	L	L	S	A	A	E	D	Y	G	I	T	S	K	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_UPI0003653614	L	S	D	D	G	G	V	H	S	H	T	H	L	K	Y	A	L	L	K	L	A	K	Q	M	Q	V	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_UPI0003680825	L	S	D	P	G	G	V	H	S	H	E	E	H	M	I	A	L	M	E	M	A	A	A	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_K6X642	L	S	D	P	G	G	V	H	S	H	Q	D	H	L	F	A	M	V	K	M	A	V	H	K	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_X8INJ1	C	S	D	G	G	V	H	S	K	L	J	E	H	L	Y	A	V	L	E	M	A	K	R	S	K	V	L	L	K	K	V	Y	L	H	C	Y	L	D	D	G	R	D	V	C	D	
UniRef90_UPI00035D0539	L	S	D	P	G	G	V	H	S	H	E	E	Q	I	F	A	L	L	E	M	A	V	K	K	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_K9YZG3	C	S	D	G	G	V	H	S	H	L	T	H	L	J	G	L	L	D	L	A	K	K	H	D	L	L	K	K	V	Y	C	V	L	L	I	L	D	D	G	R	D	V	C	D		
UniRef90_H3NMX8	S	Y	G	G	V	H	S	H	L	T	H	L	F	A	L	L	E	L	A	K	K	H	Q	D	L	L	K	K	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_Q1C282	L	S	A	G	G	V	H	S	H	E	D	H	I	M	A	M	V	E	L	A	A	K	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_UPI00040E85D5	L	S	D	D	G	G	V	H	S	H	T	S	H	L	K	A	L	L	C	D	V	L	C	K	A	E	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_UPI00035C998E	F	S	D	G	G	V	H	S	H	N	E	H	L	F	A	L	L	E	L	C	K	N	H	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_Q11NP9	V	S	D	G	G	V	H	S	H	V	N	H	L	V	K	G	L	L	N	L	A	N	Y	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D			
UniRef90_K2FE10	V	S	G	E	G	S	V	H	S	Y	A	D	H	L	Q	A	L	L	T	M	A	K	E	K	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_M1WLB7	V	S	D	G	G	V	H	S	H	A	D	H	L	D	A	I	L	L	K	L	A	K	K	E	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_D4K344	V	S	T	G	G	V	H	S	H	A	D	H	L	W	F	G	V	L	E	M	A	K	Q	M	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_C6BY17	L	S	D	D	G	G	V	H	S	H	I	N	H	L	F	S	L	L	E	V	A	K	D	A	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_R7ZZ05	V	S	D	G	G	V	H	S	H	I	Y	H	L	K	G	L	L	C	D	A	K	A	N	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D			
UniRef90_E1VHM1	L	S	D	P	G	G	V	H	S	H	E	D	H	I	V	A	M	V	E	L	A	A	Q	R	G	L	L	K	K	V	Y	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_M7DC31	L	S	D	P	G	G	V	H	S	H	E	D	H	L	L	A	A	E	M	A	N	R	Y	G	L	L	K	K	V	Y	V	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_UPI0002EB8279	L	S	D	D	G	G	V	H	S	S	L	D	H	L	F	K	L	L	C	I	S	K	N	R	G	L	L	K	K	V	Y	F	V	H	H	A	F	L	D	D	G	R	D	V	C	D
UniRef90_Q3SGA3	L	S	D	G	G	V	H	S	H	E	L	H	F	H	A	L	L	D	L	A	A	R	E	G	L	L	K	K	V	Y	C	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_D0Z1F1	M	S	D	P	G	G	V	H	S	H	E	D	H	L	K	A	A	V	E	M	A	A	K	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_A6VDP9	L	S	D	P	G	G	V	H	S	H	E	D	H	L	V	A	M	A	Q	M	A	A	R	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D	
UniRef90_UPI00040A6DFE	C	S	D	G	G	V	H	S	H	L	D	H	L	Y	G	L	L	N	L	A	K	A	K	N	I	R	D	V	Y	C	I	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_B0S1G8	L	S	F	G	G	V	H	S	H	Y	D	H	L	V	A	L	L	K	L	C	A	K	L	D	F	K	D	V	V	L	H	C	F	L	D	D	G	R	D	V	C	D				
UniRef90_A7MID1	A	S	D	P	G	G	V	H	S	H	E	D	H	I	V	A	M	I	E	L	A	A	R	G	L	L	K	K	V	Y	L	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_X0VHP4	C	S	D	G	G	V	H	S	H	L	D	H	L	Y	G	L	L	E	L	A	K	R	N	D	I	R	D	V	Y	C	I	H	H	A	F	L	D	D	G	R	D	V	C	D		
UniRef90_K1ZIU6	V	S	A	G	G	V	H	S	H	L</																																				

	90	100	110	120
UniRef90_F4XCZ7	P	T	S	G
UniRef90_W6NGW7	P	S	S	A
UniRef90_Q21NH1	P	R	S	A
UniRef90_UPI00034693A7	P	R	S	A
UniRef90_U2RJE3	P	E	S	G
UniRef90_E1IBU3	P	Q	S	A
UniRef90_B7S0T9	P	Q	S	A
UniRef90_G7UW63	P	R	S	A
UniRef90_UPI00047CAF98	P	Q	S	A
UniRef90_G8TMR4	P	K	S	A
UniRef90_UPI000472565E	P	K	T	A
UniRef90_UPI0003B79BC4	P	R	S	A
UniRef90_C4L5H5	P	K	S	G
UniRef90_K2DWK6	P	K	S	A
UniRef90_K2DZK8	Q	D	S	G
UniRef90_W9V0F1	P	R	S	A
UniRef90_V5B975	P	Q	S	A
UniRef90_UPI000347B4A6	P	K	S	G
UniRef90_Q67SW0	P	K	S	A
UniRef90_K8GJF3	P	E	S	G
UniRef90_D6Z192	P	D	G	G
UniRef90_E1SR19	P	R	S	A
UniRef90_K1ZGE8	P	Q	S	A
UniRef90_D5BHS0	P	H	S	G
UniRef90_UPI0003653614	P	Q	S	G
UniRef90_UPI0003680825	P	R	S	A
UniRef90_K6X642	P	R	S	A
UniRef90_X8INJ1	P	R	S	A
UniRef90_UPI00035D0539	P	R	S	A
UniRef90_K9YZG3	T	T	E	G
UniRef90_H3NMX8	P	T	A	G
UniRef90_Q1C282	P	R	S	A
UniRef90_UPI00040E85D5	P	K	S	G
UniRef90_UPI00035C998E	P	Q	G	G
UniRef90_Q11NP9	P	K	S	G
UniRef90_K2FE10	P	T	S	A
UniRef90_M1WLB7	P	T	S	G
UniRef90_D4K344	P	H	S	G
UniRef90_C6BY17	P	T	S	G
UniRef90_R7ZZ05	P	K	S	G
UniRef90_E1VHM1	P	K	S	A
UniRef90_M7DC31	P	R	S	A
UniRef90_UPI0002EB8279	P	R	S	A
UniRef90_Q3SGA3	P	K	S	A
UniRef90_D0Z1F1	P	R	S	A
UniRef90_A6VDP9	P	K	S	A
UniRef90_UPI00040A6DFE	P	K	D	G
UniRef90_B0S1G8	P	T	S	A
UniRef90_A7MID1	P	R	S	A
UniRef90_X0VHP4	P	D	S	G
UniRef90_K1ZIU6	R	N	T	A
UniRef90_UPI00029B4A06	P	K	S	G
UniRef90_K9W9W1	P	M	D	G
UniRef90_S7T4Z9	P	R	A	G
UniRef90_A3YAQ1	P	R	S	A
UniRef90_P59177	P	R	D	A
UniRef90_UPI0003B3813D	P	R	S	A
UniRef90_E4TV30	P	N	G	K
UniRef90_Q898R1	P	S	S	A
UniRef90_A0A021W2M8	P	K	S	A
UniRef90_T0MP96	P	T	A	G
UniRef90_K1ZMH5	P	M	S	G
UniRef90_K0NINO	P	A	S	G
UniRef90_H8KRH2	P	K	S	G
UniRef90_C3W9T8	P	Q	S	A
UniRef90_A9KF70	P	K	S	A
UniRef90_C5BC37	P	R	S	A
UniRef90_UPI000367E815	P	R	S	A
UniRef90_Q117D6	P	K	S	G
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UniRef90_P74507	T	N	E	G
UniRef90_F3L2D7	P	R	S	A
UniRef90_Q47VY2	P	R	S	A
UniRef90_B9KYT9	P	T	S	G
UniRef90_UPI00047942F6	P	R	S	A
UniRef90_B7K189	T	N	E	G
UniRef90_K1ZJG2	P	R	S	A
UniRef90_I3C5K3	P	Q	S	G
UniRef90_E3H865	P	Q	S	S
UniRef90_A6FG09	P	R	S	A
UniRef90_UPI000412B73F	P	R	S	A
UniRef90_UPI000463C43B	P	R	S	A
UniRef90_UPI000470AB65	P	R	S	A
UniRef90_UPI00046FF39F	P	R	S	A
UniRef90_K9SR56	P	T	S	S
UniRef90_I2JHZ5	P	R	S	A
UniRef90_S6CEQ0	S	K	G	G
UniRef90_UPI0003B79A42	P	K	G	V
UniRef90_F8E4H2	P	K	S	G
UniRef90_D6SS42	P	T	S	G
UniRef90_A6EKS1	P	N	S	G
UniRef90_R1J277	P	R	S	A

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UniRef90_E1IBU3 R T L E L A Y D A L F S G A G E T A A S A S D E A I K E A A Y A R G D V T S D D E F F V V K P T T
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UniRef90_D6Z192 R V V Q A Y W G A V V D G Q K F T A A D P L A A A V T E A Y G R G D E N D D E F F I V K P T T
UniRef90_E1SR19 R V E Q A Y D L L T E G K G H Q A D H A V D A L L H A A Y G R G D E N D D E F F V A K P T T
UniRef90_K1ZGE8 R L E A A Y D L L T E G K A Y E A P D A L N A L I Q Q L A Y E R G E T D D E F F V V K A T T
UniRef90_D5BHS0 R E E K A Y D L L V K G E G K P Y Q N T P V Q A I Q Q E S Y D E Q Q I Y D D E F F V V K P T T
UniRef90_UPI0003653614 R V E K A Y Q A L I T G S A P K A Y A T A V D A V L Q Q A A Y E R G E Q I Y D D E F F V V K P C
UniRef90_UPI0003680825 R V V E L A Y D A M T L G G Q P Q R F D S A Q A A L L A E A S Y E R G E N D D E F F V V Q A T T
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UniRef90_M1WLB7 R V E K A Y K A L V E G I G N I V S D P L S G I Q K A S Y D A G E T D D E F F E P S
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UniRef90_E1VHM1 R V S A A Y H L I T L G E D Y V I S T T A A E A L L A A A Y E R G E N D D E F F V V K A T T
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UniRef90_K0NINO R V E K A Y K L F T A A A G V M E Q D P V C A V I Q Q E S Y D S N D K T D D E F F P P P T T
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UniRef90_UPI000470AB65 R V E R A Y D L L T L A Q G E H A T S A V E G L E A A Y A R E N D D E F F V A P T T
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UniRef90_E4KXJ9	V	S	K	G
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C D N V S L S A K H P Q N L K F I T F T S Y D E T Q V F S S I A Y E
P W D F D T S P P E T H Y V T M T Q Y D E T F D L P V A Y P P
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F E P F I R G P K L D N L Y F A T M T Q Y D A S L P V E V A F K P P P
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F T G F E R Q Q I K P L S F A T F T Q Y D S D L P V A V A F A P P
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F E H F E R G S F Q P V T V T C L T L Y D A Q F D L P V A F P P P P P
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UniRef90_UPI0004754AC8	Q	E	E	L	A	R	I	N	K	A	I	R	D	G	D	E	L	A	R	N	E	K	L	Q	N	A	V	A	L	V	A	K	K	N	K	A	I	H	L	L	F	M	G	L	L	L	G	L	
UniRef90_UPI0004076154	Q	E	L	T	R	I	N	L	A	V	Q	H	K	T	L	N	E	K	S	V	V	Q	N	A	F	S	Y	A	K	N	N	H	K	A	V	H	L	L	L	G	L	L	L	G	L				
UniRef90_U1NZ19	Q	S	Y	T	R	I	V	D	S	I	E	D	D	G	S	F	F	R	E	N	S	A	L	N	E	A	L	E	N	A	D	D	N	D	G	A	V	H	L	L	L	G	L	L	L	G	L		
UniRef90_I3BU56	Q	D	L	V	R	I	E	D	A	I	V	E	D	D	G	S	F	F	K	N	H	S	L	N	A	L	E	N	A	K	A	S	G	G	K	L	H	L	L	L	G	L	L	L	G	L			
UniRef90_UPI0003451296	Q	E	L	V	R	I	S	D	A	V	E	D	D	G	S	L	L	D	N	Q	V	L	I	D	A	C	T	K	A	N	A	S	G	G	K	L	H	L	L	L	G	L	L	L	G	L			
UniRef90_UPI00026C80C8	Q	D	F	T	K	I	N	D	S	I	K	K	D	D	E	F	F	A	N	N	P	V	L	Q	D	V	I	K	L	L	Q	A	T	S	K	K	S	L	H	L	L	L	M	G	L	L	L	G	L
UniRef90_B8DJS4	Q	D	L	T	R	I	D	M	A	V	E	K	T	G	E	L	A	D	N	P	A	L	C	G	L	L	E	A	L	V	A	K	G	G	R	L	H	L	L	M	G	L	L	L	G	L			
UniRef90_R7YTJ5	Q	D	V	V	R	I	D	L	T	I	K	K	G	E	E	M	N	K	E	N	I	T	K	S	F	Q	R	A	I	D	T	N	G	A	R	L	H	L	L	C	G	L	L	L	G	L			
UniRef90_A4Y077	Q	D	F	T	R	I	T	K	A	I	R	D	G	E	F	F	S	N	A	I	N	Q	A	V	D	K	A	V	A	G	G	K	A	V	H	L	L	L	G	L	L	L	G	L					
UniRef90_Q7NMMK9	Q	E	E	L	V	R	I	S	D	A	V	E	E	G	T	L	S	N	P	A	L	R	L	C	R	T	V	R	E	R	G	G	K	A	V	H	I	G	V	L	L	L	G	L	L	L	G	L	
UniRef90_Q3JF23	Q	E	Y	T	R	I	V	N	R	A	L	R	T	G	S	F	F	T	N	H	T	L	E	A	V	D	R	A	V	K	S	D	K	A	I	H	I	L	L	G	L	L	L	G	L				
UniRef90_Q5X7P2	Q	D	F	T	R	I	N	E	A	I	N	N	G	K	F	A	K	N	A	V	E	H	E	V	I	D	Q	L	K	K	N	E	K	A	I	H	L	L	M	G	L	L	L	G	L				
UniRef90_G8X594	Q	D	L	A	K	I	N	L	A	V	Q	N	K	T	L	N	N	K	V	L	N	A	Y	E	Y	A	K	K	N	N	P	V	H	F	L	L	L	G	L	L	L	G	L	L	L	G	L		
UniRef90_K1XR48	Q	D	V	V	R	I	D	Q	T	I	K	K	N	E	L	N	K	N	E	V	I	M	K	A	F	N	A	K	E	G	N	G	R	L	H	L	L	A	G	L	L	L	L	G	L				
UniRef90_B1WZ17	Q	E	L	V	R	I	S	D	A	V	E	D	D	G	T	L	N	E	A	L	V	N	L	C	E	D	V	R	K	S	R	K	R	L	H	L	L	L	A	G	L	L	L	L	G	L			
UniRef90_L2FHY6	Q	D	L	V	R	I	D	Q	T	I	K	N	G	Q	L	P	D	N	A	V	I	K	K	T	F	E	S	A	K	N	G	N	G	R	L	H	L	L	C	G	L	L	L	L	G	L			
UniRef90_G1UWH0	Q	D	M	T	R	I	D	V	A	L	E	D	D	G	S	F	A	A	N	P	V	L	N	G	L	L	E	T	L	K	K	S	G	G	R	L	H	L	L	A	G	L	L	L	L	G	L		
UniRef90_R6Y6T2	Q	S	L	E	L	N	R	A	I	K	K	R	E	F	H	K	N	E	S	F	L	N	A	L	S	F	K	R	A	K	E	N	G	K	L	H	L	L	M	G	L	L	L	L	G	L			
UniRef90_D8QI53	Q	D	I	V	R	I	D	V	A	L	K	K	R	E	F	H	K	N	E	S	F	L	N	A	L	S	F	K	R	A	K	E	N	G	R	L	H	L	L	L	G	L	L	L	L	G	L		
UniRef90_D1W5Z2	Q	D	L	V	K	I	N	R	A	C	K	D	G	S	I	L	Q	N	P	E	I	V	S	A	Y	T	Y	A	Q	K	T	G	K	K	L	H	L	L	M	G	L	L	L	L	G	L			
UniRef90_X5JEH8	Q	K	L	V	L	I	S	D	A	V	E	D	D	G	S	I	L	N	D	N	A	A	L	V	D	L	C	E	R	V	K	N	R	H	G	K	V	H	L	L	V	I	G	L	L	L	G	L	
UniRef90_G8R351	Q	D	L	V	K	I	N	L	G	V	E	D	D	G	S	L	T	S	Q	P	V	L	Q	D	A	F	E	Y	A	K	T	N	R	K	K	L	H	F	I	L	L	G	L	L	L	G	L		
UniRef90_K9EWP8	Q	E	L	V	R	I	S	D	A	V	D	D	G	S	L	Q	E	N	Q	A	L	L	D	V	C	K	V	R	Y	N	G	G	K	L	H	L	L	I	L	L	L	L	L	G	L				
UniRef90_G7Q439	Q	D	M	T	R	I	D	M	A	V	E	D	D	G	S	L	A	D	N	P	V	L	A	D	L	A	R	A	S	L	A	A	G	S	K	V	H	L	L	M	G	L	L	L	L	G	L		
UniRef90_R7GKG5	Q	S	L	T	L	I	N	N	S	I	A	E	T	G	T	F	E	A	Q	E	P	T	L	V	E	A	F	N	Y	A	K	N	N	G	K	A	V	H	F	I	L	L	G	L	L	L	G	L	
UniRef90_F0RAR1	Q	D	L	A	K	I	N	L	A	V	K	E	N	T	L	K	D	E	E	V	I	K	N	A	F	K	Y	A	K	E	N	N	K	A	V	H	F	L	L	L	G	L	L	L	L	G	L		
UniRef90_C6WU75	Q	D	F	E	R	I	N	N	S	I	A	E	T	G	T	F	E	A	Q	E	P	T	L	V	E	A	F	N	Y	A	K	N	N	K	A	V	H	F	I	L	L	G	L	L	L	L	G	L	
UniRef90_F8EKQ4	Q	D	L	V	K	I	N	L	A	V	A	T	G	T	F	E	A	Q	E	P	T	L	V	E	A	F	N	Y	A	K	N	N	G	K	A	V	H	F	I	L	L	G	L	L	L	L	G	L	
UniRef90_H3NWWW9	Q	S	L	T	R	I	D	K	A	I	D	D	G	D	F	E	E	N	E	A	Y	C	S	A	I	D	K	A	I	A	A	S	G	A	V	H	L	L	F	M	G	L	L	L	L	G	L		
UniRef90_UPI00040EBF1A	Q	D	F	T	R	I	T	K	D	V	R	S	G	D	F	F	N	D	N	P	E	F	N	Q	T	M	D	D	L	A	N	N	K	A	V	H	I	F	F	G	L	L	L	L	L	G	L		
UniRef90_UPI000367B5FD	Q	D	F	E	R	I	N	S	I	A	S	G	D	F	F	H	A	L	V	N	A	L	Q	Q	L	K	T	L	N	N	K	A	L	H	I	F	F	G	L	L	L	L	L	L	L	G	L		
UniRef90_K1JX67	Q	D	L	V	K	I	N	R	A	V	A	D	D	G	S	I	G	D	N	P	E	V	K	A	L	I	D	H	C	R	E	K	G	C	A	L	H	V	M	G	L	L	L	L	L	G	L		
UniRef90_I0K520	Q	D	L	V	K	I	N	L	A	V	E	E	R	T	L	A	H	E	P	V	L	A	E	A	F	A	R	A	K	A	T	G	K	N	V	H	L	L	F	A	G	L	L	L	L	L	G	L	
UniRef90_M3CZF8	Q	D	V	V	R	I	D	Q	T	I	K	N	G	E	L	N	K	V	E	N	I	V	K	S	F	T	R	A	K	E	G																		

	50	60	70	80																																										
UniRef90_UPI000408CA38	L	S	D	G	G	V	H	S	H	T	S	H	L	R	G	I	I	D	A	E	R	D	A	G	L	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A				
UniRef90_Q310U2	L	V	S	D	G	G	V	H	S	H	Q	E	H	L	F	A	A	L	R	L	A	R	G	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_UPI00026254E8	L	S	D	A	G	G	V	H	S	H	H	E	Q	H	L	F	A	A	L	R	L	A	R	G	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_Q1N4E6	L	S	D	P	G	G	V	H	S	H	H	Q	E	H	L	F	A	A	L	R	L	A	R	G	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_A9E0X2	L	V	S	D	G	G	V	H	S	H	H	N	H	L	E	G	L	V	N	L	A	N	H	Q	V	K	E	N	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_UPI00028926A3	L	S	D	D	G	G	V	H	S	H	H	N	H	L	H	A	M	L	E	M	A	H	Q	K	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_UPI0003FD9558	A	S	P	G	G	V	H	S	H	H	D	H	I	L	J	A	A	I	E	L	A	A	K	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_UPI0002DB02A4	M	S	P	G	G	V	H	S	H	H	E	D	H	L	I	J	A	A	V	Q	M	A	A	E	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_K9H5N1	L	S	D	P	G	G	V	H	S	H	H	Q	E	H	L	M	V	A	L	A	K	A	C	E	A	G	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_UPI0003AAC8D	L	S	D	D	G	G	V	H	S	H	H	Q	E	H	L	K	A	L	A	C	S	V	A	A	D	Y	G	L	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_B4CUA2	L	V	S	D	G	G	V	H	S	H	H	Q	E	H	L	J	A	L	A	K	A	A	H	D	A	G	V	L	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_UPI0000E0EE70	L	S	D	P	G	G	V	H	S	H	H	Q	E	H	L	F	A	A	L	R	L	A	R	G	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_A0LYF4	L	S	D	D	G	G	V	H	S	H	H	E	N	H	L	K	G	L	L	S	A	A	E	K	L	G	V	K	D	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_W0TKG4	L	S	D	P	G	G	V	H	S	H	H	E	E	H	L	H	A	M	V	Q	L	A	A	Q	R	G	A	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_C6X9H9	L	S	D	D	G	G	V	H	S	H	H	Q	E	H	L	H	A	M	V	R	M	A	Q	Q	G	L	K	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_UPI0004754AC8	L	S	D	D	G	G	V	H	S	H	Q	L	H	L	H	J	A	L	V	D	I	E	A	T	G	H	D	K	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_UPI0004076154	V	S	D	D	G	G	V	H	S	H	T	S	H	L	R	G	L	L	D	A	A	E	D	F	G	L	E	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_U1NZ19	V	S	D	D	G	G	V	H	S	H	D	T	S	H	L	E	A	L	L	E	L	V	G	E	D	R	G	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_I3BU56	V	S	D	D	G	G	V	H	S	H	M	T	S	H	L	L	A	L	L	T	A	C	K	E	H	G	V	K	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_UPI0003451296	C	E	G	G	V	H	S	H	L	K	H	L	J	G	L	L	N	L	A	K	L	N	D	V	K	D	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_UPI00026C80C8	F	S	P	G	G	V	H	S	H	H	E	N	H	L	F	A	L	L	E	L	C	A	Q	K	F	T	S	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_B8DJS4	L	S	D	D	G	G	V	H	S	H	H	E	N	H	L	R	P	L	V	E	A	A	K	A	R	N	V	P	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_R7YTJ5	L	S	D	D	G	G	V	H	S	H	H	N	H	L	J	A	L	L	K	V	A	K	E	M	G	V	P	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A			
UniRef90_A4Y077	L	S	D	D	G	G	V	H	S	H	H	Q	E	H	L	V	J	A	M	A	E	L	A	A	R	R	G	A	E	K	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_Q7NMMK9	V	S	D	D	G	G	V	H	S	H	H	Q	E	H	L	F	G	L	L	D	L	A	K	R	E	G	F	E	T	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_Q3JF23	L	S	P	S	G	I	H	S	H	H	E	D	H	L	H	A	M	V	D	L	A	I	K	R	R	F	C	Q	S	E	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_Q5X7P2	L	V	S	D	P	G	G	V	H	S	H	H	E	Q	H	L	F	A	L	L	C	A	Q	K	K	F	R	S	K	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_G8X594	L	S	D	D	G	G	V	H	S	H	H	E	D	H	L	K	F	L	D	A	A	N	D	Y	G	L	K	K	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_K1XR48	I	S	D	D	G	G	V	H	S	A	K	Q	D	H	L	Y	A	L	L	K	L	A	K	E	I	G	L	P	H	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_B1WZ17	C	E	G	G	V	H	S	H	L	N	H	L	L	G	L	L	N	L	A	Q	K	Y	G	L	A	D	V	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_L2FHY6	V	S	H	G	G	V	H	S	H	K	Q	E	H	L	L	N	L	L	K	A	A	K	Q	Y	G	V	P	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_G1UWH0	L	S	D	D	G	G	V	H	S	H	T	R	H	L	E	A	I	C	D	M	A	A	R	A	G	V	V	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A		
UniRef90_R6Y6T2	L	S	D	D	G	G	V	H	S	H	H	I	N	H	L	K	A	L	L	E	T	C	A	K	E	D	F	S	N	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_D8QI53	L	V	S	D	D	G	G	V	H	S	H	I	N	H	L	F	A	L	L	E	T	A	K	E	V	G	V	P	H	T	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_D1W5Z2	T	S	N	G	G	V	H	S	S	L	D	H	L	Y	Q	L	L	I	T	S	K	K	Y	G	L	K	N	T	Y	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_X5JEH8	C	L	S	D	D	G	G	V	H	S	H	I	N	H	L	F	G	L	L	D	L	A	A	K	S	K	L	T	D	V	C	I	H	A	V	A	D	G	R	D	D	T	A			
UniRef90_G8R351	L	S	D	D	G	G	V	H	S	H	I	S	N	H	L	K	G	L	T	T	A	A	A	E	K	G	L	K	D	V	C	I	H	A	V	A	D	G	R	D	D	T	A			
UniRef90_K9EWP8	C	E	G	G	V	H	S	H	L	D	H	L	L	G	L	V	D	M	A	K	A	Q	D	I	Q	E	L	C	I	H	A	I	T	D	G	R	D	D	T	A						
UniRef90_G7Q439	V	S	D	D	G	G	V	H	S	H	V	H	H	L	K	A	L	V	A	A	L	A	A	L	G	Q	R	D	V	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A
UniRef90_R7GKG5	L	S	D	D	G	G	V	H	S	S	N	E	H	L	I	Y	A	L	L	K	L	A	K	D	A	G	L	T	K	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_F0RAR1	L	S	N	G	G	V	H	S	H	T	S	H	L	K	G	L	I	T	A	A	E	S	Y	G	V	L	E	N	S	Y	I	H	A	F	M	D	G	R	D	D	T	A				
UniRef90_C6WUJ75	L	S	D	D	G	G	V	H	S	H	H	Q	E	H	L	H	A	M	V	K	M	A	Q	V	H	G	V	S	K	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_F8EKQ4	L	S	D	D	G	G	V	H	S	H	H	N	H	L	K	G	L	C	T	T	A	H	Q	F	G	L	E	E	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_H3NWWW9	L	S	P	G	G	V	H	S	H	H	E	N	H	L	F	A	A	A	R	L	A	Q	K	R	G	A	S	A	I	Y	L	H	A	F	M	D	G	R	D	D	T	A				
UniRef90_UPI00040EBF1A	L	S	D	D	G	G	V	H	S	H	D	E	K	H	L	F	A	L	M	E	L	A	A	K	K	G	L	N	K	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
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UniRef90_K1JX67	L	S	D	D	G	G	V	H	S	L	N	S	H	L	M	Y	A	F	L	R	L	A	K	A	A	G	L	E	K	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A
UniRef90_I0K520	V	S	D	D	G	G	V	H	S	H	I	D	H	L	K	G	L	L	S	I	A	H	E	M	G	V	V	V	V	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_M3CZF8	V	S	D	D	G	G	V	H	S	H	H	I	N	H	L	K	A	L	L	K	V	A	K	E	M	G	V	P	E	N	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A
UniRef90_UPI0002DF706E	V	S	D	D	G	G	V	H	S	H	H	T	S	H	L	R	A	L	I	D	A	T	Q	D	Y	G	L	K	D	V	V	V	F	I	H	A	F	M	D	G	R	D	D	T	A	
UniRef90_A0Z8E2	L	S	D	D	G	G	V	H	S	H	E	R	H	L	F	E	M	V	R	M	A	A	A	K	G	A	T																			

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90 100 110 120
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P R S A K N P F L E E E H L S A G E L D M G D D A R I L V N T I G R Y Y A M D R D D N R W E
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U P I 0 0 0 2 D B 0 2 A 4 P R S A K N T L L Q K F Q D L F A E L G S L V G R I A S V L I G R Y F F A M D R D D N R W D
K 9 H 5 N 1 U N I R E F 9 0 _ U P I 0 0 0 3 A A C C 8 D P K S G K D F I L A N E L E K D I E G L N N V A V A S V I A G R Y Y A M D R D D N R W D
B 4 C U A 2 U N I R E F 9 0 _ U P I 0 0 0 3 A A C C 8 D P K G G V K Y I L A N E L E Q K G L E E P S G A R K I A T V I I G R Y Y A M D R D D K R W E
U P I 0 0 0 0 E 0 E E 7 0 P T S A Q A S L L E E K A D A V F A A A G S V G K T A T V I I G R Y Y A M D R D D K R W D
A 0 L Y F 4 U N I R E F 9 0 _ U P I 0 0 0 0 E 0 E E 7 0 P H S G K G F V L E E E L I P H L E K A T N S K I A S V I I G R Y Y A M D R D D K R W E
W 0 T K G 4 U N I R E F 9 0 _ U P I 0 0 0 0 E 0 E E 7 0 P K S A M A S L L Q A M D A V F A E V G H G K L A S S V I I G R Y Y A M D R D D H R W E
C 6 X 9 H 9 U N I R E F 9 0 _ U P I 0 0 0 0 E 0 E E 7 0 P S A G P Y L Q K L E A A L L T E G A G K V A T V I I G R Y Y A M D R D D C G R W E
U P I 0 0 0 4 7 5 4 A C 8 U N I R E F 9 0 _ U P I 0 0 0 4 7 5 4 A C 8 P Q G G K D Y L L Q T L E A A H L E E G K N T R L A T V I I G R Y Y A M D R D D K R W E
U P I 0 0 0 4 0 7 6 1 5 4 U N I R E F 9 0 _ U P I 0 0 0 4 0 7 6 1 5 4 P K S G K G Y I E S L L E K Y L Q E H T K T A K L A S V C G R Y Y A M D R D D K R W E
U 1 N Z 1 9 U N I R E F 9 0 _ U P I 0 0 0 4 0 7 6 1 5 4 P H S G E G F H I E S V A E M A E E T H G T G G D I A T V V T S G R Y Y A M D R D D E N W E
I 3 B U 5 6 U N I R E F 9 0 _ U P I 0 0 0 4 0 7 6 1 5 4 P K I A K Q F I L E Q Q V L K V M E T T G T G G E I A T V V T G R Y Y A M D R D D N R W E
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U P I 0 0 0 2 6 C 8 0 C 8 U N I R E F 9 0 _ U P I 0 0 0 2 6 C 8 0 C 8 P T S A L H S L Q N R L D I E L K K H P V A Q V I C S G R Y Y A M D R D D N R W E
B 8 D J S 4 U N I R E F 9 0 _ U P I 0 0 0 2 6 C 8 0 C 8 P Q S G A G Y V L E A L E A L L R D A G W G R I A T L T G R Y Y A M D R D D K R Y E
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A 4 Y 0 7 7 U N I R E F 9 0 _ U P I 0 0 0 2 6 C 8 0 C 8 P K S A Q P S F L E L L D A A F A E T L G K G R I A S V L I G R Y F F A M D R D D N R W D
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I 0 K 5 2 0 U N I R E F 9 0 _ U P I 0 0 0 3 6 7 B 5 F D P K S G L G Y L E T D L K A H M N G T T G G Q L A T V I V G R Y Y A M D R D D K R W E
M 3 C Z F 8 U N I R E F 9 0 _ U P I 0 0 0 3 6 7 B 5 F D P K S G K G H L E D L L A Y T K E L G V G K L A T V I V G R Y Y A M D R D D K R W E
U P I 0 0 0 2 D F 7 0 6 E U N I R E F 9 0 _ U P I 0 0 0 2 D F 7 0 6 E P K S G K K Y I Q D L L E N Y I A D T S V G K I A S V I I G R Y Y A M D R D D K R W E
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V 5 F G M 6 U N I R E F 9 0 _ U P I 0 0 0 2 D F 7 0 6 E P K S S S T Y M Q E T L L D Q L K E I G V G E L A T V V G R Y Y A M D R D D K R W D
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R 7 I Y Z 2 U N I R E F 9 0 _ U P I 0 0 0 3 6 B F 5 8 8 P H S G I S Y I K T I Q E H C A G S H P V G K I A S I I G R Y Y A M D R D D K R W D
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U P I 0 0 0 3 7 3 6 2 5 B U N I R E F 9 0 _ U P I 0 0 0 3 7 3 6 2 5 B P Q S A R A S L E K L Q A K C A A L G N A R I A T V S G R Y Y A M D R D D K R W E
J 3 J F 1 5 U N I R E F 9 0 _ U P I 0 0 0 3 7 3 6 2 5 B P H G G E D Y L L A D L E G V A A D Y T G T G D V A T V S G R Y Y A M D R D D Q N W E
U P I 0 0 0 4 0 A 3 1 4 5 U N I R E F 9 0 _ U P I 0 0 0 4 0 A 3 1 4 5 P R S G T F F L A S D L E G H A K N T T A K L A S V I I G R Y Y A M D R D D R W E
A 3 X G A 4 U N I R E F 9 0 _ U P I 0 0 0 4 0 A 3 1 4 5 P Q S G A G F I E N D L D G Y A K E N G A K L A S I I T G R Y Y A M D R D D T R W E
U P I 0 0 0 0 4 7 A 9 4 C 1 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 A 9 4 C 1 P N S G V G Y L N E D I N E Y C A E A K G V K L A S V I I G R Y Y A M D R D D K R W E
R 4 W A 3 5 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 A 9 4 C 1 P D S G A G Y V L E E L E A H V A E A D A G N T G D V A T L E G R Y Y A M D R D D T N W E
B 0 C A 7 7 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 A 9 4 C 1 P K S A K D E I L R L Q K Q I A H I G V G Q I V T L S G R Y Y A M D R D D R W D
A 5 W F D 5 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 A 9 4 C 1 P K S A D K Y I K R L K E F L A N N V G K I A S I I G R Y Y A M D R D D N R W D
U P I 0 0 0 3 6 7 5 1 C 7 U N I R E F 9 0 _ U P I 0 0 0 3 6 7 5 1 C 7 P H S G K D F I E D L Q F H L M Q N T T G Q L A T V I G R Y Y A M D R D D R W E
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B 2 U M U 5 U N I R E F 9 0 _ U P I 0 0 0 3 6 7 5 1 C 7 P T S G V G F I R Q L E E A V R P Y G A K I A T V V G R Y Y A M D R D D K R W D
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I 1 Y J Q 5 U N I R E F 9 0 _ U P I 0 0 0 3 6 7 5 1 C 7 P R S A H A A L A A M A G T F T E C G A G R I A T M I I G R Y Y A M D R D D Q R W N
U P I 0 0 0 0 4 7 E B A 6 B U N I R E F 9 0 _ U P I 0 0 0 0 4 7 E B A 6 B P T S G L G Y L E A L E A Q K I R E I G V G Q V A S V S G R Y Y A M D R D D K R W E
D 4 W 7 4 7 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 E B A 6 B P K S A L E Y V L E A L E A Q K L A E I G V M G K V A T V V G R Y Y S M D R D D K N Y D
C 7 M N D 6 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 E B A 6 B P K S A E G Y L R Q V L D A C E Q H T A A Q I A S V I S G R Y Y A M D R D D N R W D
U P I 0 0 0 0 4 7 B 0 F 5 F U N I R E F 9 0 _ U P I 0 0 0 0 4 7 B 0 F 5 F P T S G M E F L R A T L T R M E G K A Q L A S V I S G R Y Y A M D R D D N R W E
A 2 T Y Z 7 U N I R E F 9 0 _ U P I 0 0 0 0 4 7 B 0 F 5 F P K S G A Y F I N D I I Q E Y M A N S T G Q L A T V T G R Y Y A M D R D D N R W E
U P I 0 0 0 2 5 5 7 F 5 3 U N I R E F 9 0 _ U P I 0 0 0 2 5 5 7 F 5 3 P K S G A Y F I N E I I Q E Y M A T T G E L A S M T G R Y Y A M D R D D N R W E

	130	140	150	160																																												
UniRef90_UPI000408CA38	R	V	K	L	A	Y	D	L	L	V	N	G	K	G	K	R	T	K	D	A	A	A	L	A	I	L	E	S	Y	K	N	K	L	T	D	E	F	V	V	E	P	M						
UniRef90_Q310U2	R	N	E	T	A	W	N	A	L	V	H	G	Q	G	E	F	A	D	S	A	A	A	Q	A	V	L	E	N	A	Y	K	A	R	G	Q	S	T	D	D	E	F	F	V	K	V			
UniRef90_UPI00026254E8	R	V	Q	Q	A	Y	D	L	L	T	L	G	K	E	Y	H	A	S	A	G	Q	E	G	L	L	E	A	A	S	Y	A	D	R	D	E	H	D	E	F	F	V	V	K	P	S			
UniRef90_Q1N4E6	R	V	Q	R	A	Y	D	L	M	Y	T	Q	G	K	E	Y	Q	A	A	L	E	E	G	L	L	E	A	A	S	Y	D	A	R	D	E	H	D	E	F	F	V	V	K	P	D			
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UniRef90_UPI00028926A3	R	V	S	K	A	Y	H	L	L	S	S	G	K	E	T	Q	A	V	S	A	L	L	N	A	V	K	E	M	A	Y	A	D	R	N	G	D	E	S	D	D	E	F	F	V	V	K	P	A
UniRef90_UPI0003FD9558	R	V	S	E	Q	A	Y	S	L	L	T	E	A	K	E	H	T	A	E	S	A	L	L	D	G	L	E	A	A	Y	A	R	E	E	N	D	D	E	F	F	V	V	Q	A	T			
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UniRef90_K9H5N1	R	V	Q	K	A	Y	D	A	J	V	H	D	G	T	G	A	S	H	P	Q	N	D	A	L	D	L	V	G	L	S	S	Y	A	D	G	K	T	D	E	F	F	V	V	P	A			
UniRef90_UPI0003AACCB8D	R	V	K	L	A	Y	D	L	L	V	H	G	K	G	P	S	Q	N	L	I	K	S	V	L	L	D	S	S	Y	N	A	G	V	T	D	D	E	F	F	V	V	K	P	T				
UniRef90_B4CUA2	R	N	K	L	A	W	D	A	L	V	L	G	R	G	P	V	S	D	T	P	S	E	A	V	L	S	E	A	Y	A	K	E	P	R	G	D	E	F	L	T	P	P	P					
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UniRef90_W0TKG4	R	I	R	K	A	Y	D	L	I	T	L	G	Q	E	Y	T	A	T	S	T	A	E	Q	G	L	L	E	M	A	Y	A	R	G	E	T	D	D	E	F	F	V	V	D	A	T			
UniRef90_C6X9H9	R	V	A	P	A	Y	R	V	V	T	E	G	G	E	T	A	T	S	T	P	Q	E	A	L	L	E	S	A	Y	A	R	G	E	T	D	D	E	F	F	V	V	K	P	T				
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UniRef90_U1NZ19	R	T	R	R	A	Y	D	A	L	V	N	R	E	L	H	T	P	A	S	E	N	A	V	E	A	V	L	T	D	E	S	Y	A	D	R	G	E	T	D	D	E	F	F	V	V	K	P	T
UniRef90_I3BU56	R	T	K	L	A	W	D	A	M	V	R	E	G	L	T	P	A	S	N	P	L	Q	A	I	L	L	T	D	D	A	Y	A	G	E	T	D	D	E	F	F	V	V	K	P	T			
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UniRef90_UPI00026C80C8	R	L	E	P	V	Y	T	L	L	T	Q	A	R	C	D	H	F	P	G	S	Q	A	E	T	A	I	L	L	T	Y	Y	Q	A	N	G	L	S	D	D	E	F	F	V	V	K	P	T	
UniRef90_B8DJS4	R	N	A	L	A	W	G	A	L	V	E	A	A	S	L	P	G	G	S	L	A	D	V	V	V	R	A	Y	A	A	G	E	T	D	D	E	F	F	V	V	T	P	P	T				
UniRef90_R7YTJ5	R	V	E	L	G	M	R	G	L	V	L	G	E	G	E	A	D	D	P	V	V	K	V	L	K	E	R	A	Y	E	K	G	E	T	D	D	E	F	F	V	V	K	P	T				
UniRef90_A4Y077	R	V	E	Q	A	Y	H	L	V	D	G	E	E	A	S	A	V	E	G	L	L	Q	R	E	A	S	Y	A	R	G	E	T	D	D	E	F	F	V	V	K	P	T						
UniRef90_Q7NMMK9	R	T	E	A	M	Y	R	V	M	T	E	T	G	P	F	G	T	A	K	R	A	S	E	T	L	L	Q	R	E	A	H	A	R	G	K	T	D	D	E	F	F	V	V	K	P	V		
UniRef90_Q3JF23	R	I	Q	A	A	Y	N	L	I	A	T	G	Q	E	Y	E	A	E	S	A	K	E	A	L	L	A	M	A	Y	E	R	G	E	T	D	D	E	F	F	V	V	Q	A	T				
UniRef90_Q5X7P2	R	V	E	P	V	Y	N	L	L	T	Q	G	K	E	F	P	D	A	E	T	A	I	H	F	E	S	Y	K	N	K	L	T	D	D	E	F	F	V	V	K	P	T						
UniRef90_G8X594	R	V	K	K	A	Y	S	V	M	V	E	G	L	G	K	K	A	T	D	P	V	T	A	I	L	L	H	E	S	Y	K	N	K	L	T	D	D	E	F	F	V	V	K	P	T			
UniRef90_K1XR48	R	V	E	V	A	L	N	A	L	C	V	G	D	G	E	T	S	T	D	P	V	E	A	I	L	L	K	E	G	R	Y	E	K	G	E	N	D	D	E	F	F	V	V	K	P	T		
UniRef90_B1WZ17	R	V	K	L	A	Y	D	L	L	T	Q	D	G	E	V	G	E	S	T	D	P	V	A	V	L	L	E	D	F	Y	A	R	H	D	K	G	D	D	E	F	F	V	V	K	P	T		
UniRef90_L2FHY6	R	V	E	L	A	L	K	G	M	I	L	G	E	G	E	S	T	D	P	V	A	T	L	V	L	K	E	R	Y	A	R	H	D	K	G	D	D	E	F	F	V	V	K	P	T			
UniRef90_G1UWH0	R	V	K	A	A	W	D	L	L	V	H	G	E	G	R	V	A	P	D	A	V	K	A	L	L	E	V	S	Y	A	E	G	T	D	D	E	F	F	V	V	K	P	V					
UniRef90_R6Y6T2	R	L	K	K	C	Y	D	V	I	V	N	K	G	N	K	C	D	N	A	Y	K	K	Y	V	L	L	T	D	S	Y	A	E	K	D	V	T	D	D	E	F	F	V	V	K	P	T		
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UniRef90_D1W5Z2	R	V	K	E	A	Y	D	L	L	V	S	G	V	G	K	K	A	T	M	V	Q	A	M	H	E	S	Y	A	E	D	V	T	D	D	E	F	F	V	V	K	P	T						
UniRef90_X5JEH8	R	V	K	K	A	Y	D	V	M	T	Q	D	G	E	H	G	L	S	A	V	E	L	L	L	Q	A	S	Y	A	E	G	L	S	D	D	E	F	F	V	V	L	P	V					
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UniRef90_K9EWP8	R	V	E	K	V	Y	R	V	M	T	S	S	G	A	G	N	G	L	T	A	L	E	A	I	L	Q	A	A	Y	A	E	G	L	S	D	D	E	F	F	V	V	K	P	V				
UniRef90_G7Q439	R	N	A	E	A	Y	A	A	L	T	E	G	K	G	E	P	F	T	D	P	V	A	A	V	L	Q	A	A	Y	A	V	G	Q	T	D	D	E	F	F	V	V	R	P	R				
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UniRef90_F0RAR1	R	V	K	L	A	Y	D	L	L	V	N	N	A	G	T	K	T	N	N	V	E	Q	A	I	L	Q	D	S	Y	A	D	N	E	V	T	D	D	E	F	F	V	V	K	P	T			
UniRef90_C6WU75	R	V	E	A	A	Y	K	L	F	T	E	G	G	E	F	T	A	E	K	T	A	A	A	G	L	Q	Q	A	Y	A	R	N	E	T	D	D	E	F	F	V	V	K	P	T				
UniRef90_F8EKQ4	R	V	A	K	A	Y	N	G	M	V	H	G	I	Q	A	E	Q	A	K	D	Y	E	A	L	L	L	Q	A	Y	A	D	A	N	E	T	D	D	E	F	F	V	V	K	P	T			
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UniRef90_E5Y9L3 P T S G A G Y F L R E L L E E I E K A T R A G E V A L V S G R Y Y A M D R D D T N W E
UniRef90_W4TAZ3 P H S G L G F I E E L Q N H M E A T T G K L A T I V G R Y Y A M D R D D K R W E
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P K S I K E S M E K L E A L T N K Y G F K I A S V G G R Y F A M D R D D K M F D
P N V A L K Y L D E L D A K I K E L G S I G K L R D V S G R Y Y S M D R E R M W N
E T S A L I Y V E E I E N L L A E L S D G K I A S G G G R M I T M D R E A N W N
P V T T V N Y T K Q V L D H L K K N N Y G Q L A F I T G R Y Y A M D R D D N R W E
P T S A K K Y L E Q V E K H L P A G A N I K I A T V S G R F Y S M D R D D N R W E
P R S A L G Y L E Q L Q R D L P A D V R I A T V S G R Y Y A M D R D T R W D
P E S L L H D F L A Q L L P T L K E L N V T I G M I S G R Y Y A M D R D Q R W E
P T S S K E F I A Q L L A L E S D L N I K I A T L S G R Y Y A M D R D D K R W D
P Q T A Q I Y L Q Q L D E L F A E L N D G K L A S G G G R M T M D R Y Q A D W P
E T S A L T Y V D D I E A Y M A E L N H A C I A S G G G R M I T M D R E A N W A
P N T A K V I F K E I L N S I Y K R K N I N I C T I S G R Y Y S M D R D C R W S
P K S A L T Y L E I M Q N T C N E S I Q I A T M S G R F Y A M D R D N R F E
E T S A L D Y L P F E A F L A S L N D G R I A S G G G R M I T M D R E A N W S
P K S A D A Y M A E F V S K L P D G A E I A T V I G R Y Y A M D R D D N R W E
P C S L K Q D L E K L M I F L K N Y P N V V I G T I G R Y Y G M D R D D Q R W D
E T S A L D Y V D P F E A Y L E Q L R D V A I A S G G G R M I T M D R E A D W A
P N C A K I Y I Q Q I E N I C N D D I K I A T I G G R Y Y G M D R D N R W D
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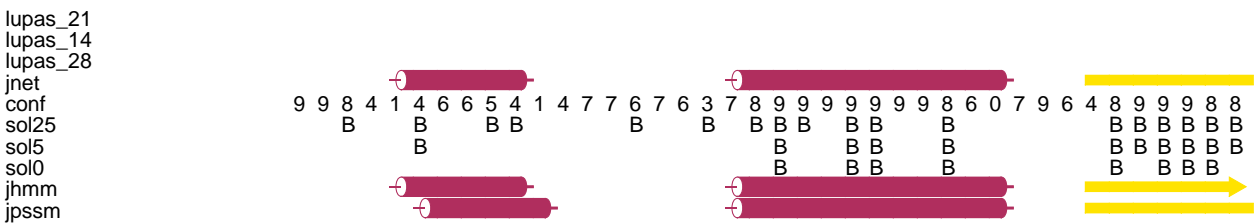
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UniRef90_C0CU65 P G S A P Q L L M E L E K E L D H I G A G R I V D G V G R G I V L D R D Q N Y T
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UniRef90_W6KQJ8 E A D W S
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