

QUERY	1	10	20	30	40																																								
UniRef90_S3K5Q7	Q	D	A	Q	H	S	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	H	Q	L	K	R	G	W	Q	P	L	L	N	V	A	T	T	S	V	L	
UniRef90_W9BJQ7	Q	D	A	Q	H	S	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	H	Q	L	K	R	G	W	Q	P	L	L	N	V	A	T	T	S	V	L	
UniRef90_UPI0003B7B79F	Q	D	A	Q	H	S	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	H	Q	L	K	R	G	W	Q	P	L	L	N	V	A	T	T	S	V	L	
UniRef90_G9Y8R1	Q	D	A	Q	H	H	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	N	N	T	P	E	G	W	Q	P	L	L	N	S	A	T	T	S	V	L	
UniRef90_UPI000360D590	Q	D	A	Q	S	V	F	K	L	M	M	D	A	M	A	M	R	P	G	T	I	Q	T	V	L	S	P	Q	D	A	E	G	W	Q	P	L	L	N	G	I	A	T	T	S	V
UniRef90_NP9VNU6	H	D	A	Q	H	C	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	S	P	Q	L	K	H	G	W	Q	P	L	L	N	P	A	T	T	S	V	
UniRef90_L0NL60	D	S	Q	A	V	F	R	R	L	L	M	D	G	M	A	R	P	G	T	V	Q	S	L	P	T	E	I	G	Q	P	S	P	L	L	N	K	G	A	S	G	A	V			
UniRef90_A6UHA9	E	A	Q	A	V	F	R	T	L	M	D	C	F	A	R	P	G	T	I	G	R	L	S	T	A	A	S	P	P	P	P	P	L	L	G	G	V	A	A	S	G	T			
UniRef90_UPI000366187E	Q	D	A	Q	C	F	R	R	R	L	L	K	A	M	S	E	P	G	V	V	V	A	L	L	H	P	L	K	H	G	W	Q	P	L	L	N	G	V	A	A	S	G	T		
UniRef90_H5UZ40	H	D	A	Q	H	S	F	R	R	R	L	L	K	A	M	S	E	P	G	M	I	V	A	L	L	H	Q	L	P	H	G	W	Q	P	L	L	N	G	Q	A	T	T	S	V	
UniRef90_W6W9E5	E	S	Q	S	V	F	R	M	L	M	D	G	M	A	M	R	P	G	T	I	R	T	V	A	L	L	G	P	D	V	G	Q	P	E	P	L	L	G	G	A	A	G	A		
UniRef90_W6R3T1	E	S	Q	S	V	F	K	L	M	D	A	M	A	M	R	P	G	T	I	Q	T	V	A	L	L	P	D	A	T	P	P	L	L	N	G	V	A	A	G	A					
UniRef90_A7MPI8	H	D	A	Q	C	F	R	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	Q	L	L	R	H	G	W	Q	P	L	L	N	G	V	A	A	T	T	S	V	
UniRef90_K2PK22	D	A	Q	A	V	F	R	S	V	M	D	A	M	A	M	R	P	G	S	I	G	D	V	L	L	D	V	D	V	T	P	P	A	L	L	S	G	L	I	A	A	G	A		
UniRef90_E1SHV4	D	A	Q	R	A	F	R	R	L	L	K	A	M	S	E	P	G	V	M	V	S	L	L	P	L	L	Q	Q	G	W	G	A	L	L	S	P	A	A	T	T	S	V			
UniRef90_UPI00041B4736	E	A	Q	S	V	F	R	T	L	M	D	C	F	A	R	P	G	T	I	G	R	L	S	A	S	A	A	S	P	P	S	P	L	L	S	G	R	A	S	G	A				
UniRef90_B9J6R0	D	A	Q	S	V	F	K	M	M	D	A	M	A	M	R	P	G	T	L	Q	T	V	L	V	S	D	I	A	P	P	A	L	L	S	G	I	A	A	T	T	S	V			
UniRef90_D8MTX9	D	S	Q	R	A	F	R	R	L	L	K	A	M	S	E	P	G	T	L	M	V	S	L	L	P	Q	L	P	A	W	G	R	V	S	A	A	T	T	S	V					
UniRef90_HOHLX4	D	A	Q	S	V	F	R	T	V	M	E	A	M	A	M	R	P	G	T	V	Q	P	L	L	G	R	P	A	S	P	P	A	L	L	S	T	P	A	A	T	T	S	V		
UniRef90_UPI00034DDBB6	H	D	A	Q	H	A	F	R	R	L	L	K	A	M	S	E	P	G	T	M	V	S	L	L	P	P	A	M	Q	H	G	W	A	L	L	S	I	P	A	A	T	T	S	V	
UniRef90_Q8YUV7	H	D	A	Q	R	T	F	R	G	L	D	A	H	A	R	P	G	T	P	Y	Q	M	S	A	E	M	S	V	P	T	G	L	L	S	P	A	A	T	T	S	V				
UniRef90_UPI00046A8AC3	D	A	Q	Y	A	F	R	R	L	L	K	A	M	S	E	P	G	C	M	V	S	L	L	P	L	L	H	H	G	W	G	T	L	L	S	P	A	A	T	T	S	V			
UniRef90_W8UPU6	D	A	Q	H	A	F	R	R	L	L	K	A	M	S	E	P	G	V	L	V	S	L	L	L	H	H	R	S	G	W	L	L	N	S	P	A	A	T	T	S	V				
UniRef90_C6CMZ6	R	D	A	Q	Y	A	F	R	R	L	L	K	A	M	S	E	P	G	V	V	V	S	L	L	L	H	D	H	N	G	W	E	G	L	L	S	P	S	A	A	T	T	S	V	
UniRef90_E3HQ80	D	A	Q	A	T	F	R	A	L	D	A	L	A	H	P	G	R	I	N	Q	I	L	L	L	A	E	T	G	V	P	A	G	L	L	S	P	A	M	T	A	L				
UniRef90_V3TZD2	D	A	Q	Y	A	F	R	R	L	L	K	A	M	S	E	P	G	V	I	V	S	L	L	L	H	H	S	P	R	W	G	A	L	L	S	P	A	A	T	T	S	V			
UniRef90_E7B5A4	D	A	Q	H	A	F	R	R	L	L	K	A	M	S	E	P	G	V	V	V	S	L	L	L	P	H	S	S	G	W	Q	L	L	N	P	A	A	T	T	S	V				
UniRef90_V5AHQ6	H	D	A	Q	H	A	F	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	P	Q	L	K	H	S	W	P	L	L	N	A	A	T	T	S	V				
UniRef90_X6D0C5	N	A	Q	A	V	F	R	A	L	M	D	A	M	A	M	R	P	G	S	V	Q	P	L	L	P	A	L	A	R	P	P	A	L	L	S	A	T	A	G	A					
UniRef90_K9ZII4	H	D	A	Q	S	K	T	F	R	A	L	L	D	A	H	A	R	P	G	T	P	Y	L	L	T	A	N	L	T	P	Q	L	L	S	A	T	T	S	V						
UniRef90_K2NA13	D	A	Q	S	V	F	R	A	L	M	Q	A	M	A	M	R	P	G	T	V	A	R	D	L	L	L	I	T	R	P	P	A	L	L	S	P	E	A	A	A					
UniRef90_K2MHF7	D	A	Q	T	M	F	R	A	I	M	Q	A	M	A	M	R	P	G	T	V	H	H	G	L	J	A	L	T	K	P	P	A	L	L	S	T	P	E	A	A	A				
UniRef90_UPI0002E48AD8	D	A	Q	A	M	F	R	A	V	M	D	A	M	A	M	R	P	G	T	I	Q	P	L	L	G	E	L	T	A	P	P	S	L	L	A	P	V	A	S	A					
UniRef90_I0QTR8	D	A	Q	Y	S	F	R	R	L	L	K	A	L	S	E	P	G	S	I	V	T	L	L	L	P	T	M	P	G	F	G	V	L	L	G	S	A	S	A						
UniRef90_A0A021WXD0	E	A	Q	A	V	F	R	T	L	M	D	C	F	A	R	P	G	T	I	G	D	V	L	L	A	A	S	V	L	P	P	A	L	L	N	A	T	T	S	V					
UniRef90_UPI000464966F	H	D	A	Q	S	V	F	R	R	L	L	K	A	M	S	E	P	G	V	I	V	A	L	L	S	Q	V	S	H	G	W	Q	P	L	L	N	G	V	A	T	T	S	V		
UniRef90_A8TV04	E	A	Q	N	V	F	R	L	V	L	D	A	M	A	M	R	P	G	R	I	A	T	L	L	P	E	S	L	Q	T	P	S	P	L	L	S	V	G	A	A	A				
UniRef90_UPI00041D4A7E	Q	S	S	S	V	F	R	G	V	M	D	A	L	A	M	R	P	G	S	V	H	T	L	L	A	E	P	V	H	T	P	S	P	L	L	M	S	S	G	T	A	A			
UniRef90_Q982B1	D	A	Q	A	V	F	R	A	L	L	J	A	T	A	Y	P	G	R	V	V	P	L	L	L	D	R	T	L	T	A	P	P	F	S	S	A	T	A	L						
UniRef90_V2GLS2	D	A	Q	Q	V	F	R	A	T	L	Q	A	T	S	H	P	G	R	I	E	T	L	L	L	S	A	D	C	G	V	P	D	G	L	L	S	P	A	M	T	A				
UniRef90_J7KP16	D	A	Q	C	A	F	R	R	L	L	K	A	V	S	E	P	G	V	I	V	T	L	L	L	P	L	L	Q	Q	G	W	G	R	L	L	S	P	A	S	A					
UniRef90_K8PFD8	Q	S	S	S	V	F	R	S	V	M	N	A	L	A	R	P	G	S	V	Q	T	V	L	L	A	E	E	V	H	A	P	S	S	M	M	T	A	T	A						
UniRef90_UPI00037039D8	D	S	Q	D	T	F	R	R	L	L	D	A	C	A	Y	V	G	R	P	Q	K	L	L	G	F	V	S	T	A	V	G	P	L	L	A	S	A	T	L						
UniRef90_B4WQP2	H	D	A	Q	C	F	R	K	N	L	L	E	A	M	S	H	P	G	T	P	Y	R	L	L	R	V	D	I	T	A	P	D	G	L	L	T	P	C	A						
UniRef90_W3RHR9	E	A	Q	T	T	F	R	T	V	M	N	A	M	A	M	R																													

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