

QUERY	1	10	20	30	40
UniRef90_U1WRY2	A T S T K K L H K E P A T L I I K A L I D G D T V K L M Y K G Q P M T F R L L L L V D				
UniRef90_W1SBL5	A P Q T A T G K L I A P A G T I I V K N I T D G D T I M K E I E L I N G K K A E T I V R L L L V D				
UniRef90_UPI00036895D7	A I A K S G A K L I A G T I V K N I T D G D T I M K E I E L I N G K K A E T I V R L L L V D				
UniRef90_I3DVC0	S T N S T S A D D T N A K V V K V V D G D T I L D V I E F I N G K T E R I V R L L L V D				
UniRef90_UPI000469D2A0	C S N S R E S K R I Q V E F N E L Y D G D T I I G V I Y D G R P E E T V R F L L V D				
UniRef90_UPI0002FA326B	P A D I K T F D A E V S V V D G D T I K V I K I N L N G K V E E T V R F L L V D				
UniRef90_UPI00037F2012	A E T P D D E H F A T A T V S R V V D G D T I V R I E L N D G Q K E E T V R L L L V D				
UniRef90_K6DKI7	G C S A T S G V G E K T I V T N V V D G D T L D V M I L N N K E E T I V R L L L V D				
UniRef90_W4CIT4	A S L S M D A K A I E A K V T A V T D G D T F T V N L N D G K S E K N V R L L L V D				
UniRef90_G4HMG9	N L P R V I V E L V K A V D G D T I S V M F E G K K E N V R M L L V D				
UniRef90_UPI00047757DD	L E H V P V T L V K A I D G D T I K V R Y N G K E E Q N V R Y L L V D				
UniRef90_W3ABY7	T D Q I D A E V T S V I D G D T I V I M Y E G K E E T V R Y L L V D				
UniRef90_R1KWW2	T I S N D Q R I P A V E F V R H I D G D T T V K I G I D G K I Q K V R F L L V D				
UniRef90_W4F4S2	A T V T K K E E S E K V E V S I M D G D T I K V K Y D G E T K K V R Y L L V D				
UniRef90_UPI0003F56C25	T A E N A D R V P A R V T L T K A V D G D T I K V K Y K G K E E T V R Y L L V D				
UniRef90_UPI00028A3BBA	V P A R V K A V V D G D T F D V I Y H K K V T T V R Y L L V D				
UniRef90_D5WQ30	A P S P Q S Q G W I A A H I T R V V D G D T M E V S Y N G K Q D T I V R L L L V D				
UniRef90_A0A024PR22	A Q V T R V V D G D T V K I N L N G Q K E E T V R L L L V D				
UniRef90_UPI00030521AE	S T T A P K A G Q L P V T L V S T T D G D T I L R V M Y K G E N E P V R Y L L V D				
UniRef90_U1YJ85	S T T T K P A Q K L P G T V T K L V D G D T F K A K V N G K E E S I V R L I G V D				
UniRef90_W1QSY8	L P K G Q K L P V N F V R I V D G D T V V L S L N G H E F R T R Y L M I D				
UniRef90_Q4L5S8	L T K E K V K F V K G I D G D T V Q L L Y K G K K L T F R Y L L V D				
UniRef90_UPI0002E55AF4	S E T A S S R L Q A T V T R V V D G D T L R A T V N G K E E K V R L L L V D				
UniRef90_UPI000255C04C	E A A G V H T K V I K V V D G D T F H V I Y Q K K V T V R Y L L V D				
UniRef90_L8PY32	G T S Y S K K H K K L A D V T R A V D G D T I K V I Y N G K K D T V R Y L L V D				
UniRef90_UPI00047AE678	A D T A G D S G R I A A T V I K V V D G D T F D A R F D G S V E R V R L L L V D				
UniRef90_E8S672	K A T V E R V I D G D T L K V K L D G K T E D V R L L L V D				
UniRef90_UPI00047AE678	A A Q P G T T Q K F P V E L V K A V D G D T A K L K Y Q G K T E T F R F L L V D				
UniRef90_E8SGM2	L V K V V D G D T V K F N Y K G K K T T F R L L L V D				
UniRef90_C5QQG2	T T E D N K R L I D A K V T R V V D G D T M K L T I G G K K E T I V R L L L V D				
UniRef90_W4C0G3	L K G L E T G K G K V I H V K D G D T V D V K V N G K K Q T V R L L L V D				
UniRef90_C2Y446	T T E G S T K G D S Y I V T R V I D G D T I I V N K D G K E E R V R M L G V D				
UniRef90_S2XRR9	E E Y E L E S V I D G D T I R I K Y N G S S E K V R F L L V D				
UniRef90_B1HP04	K T E T V T L D R V V D G D T L K V E F N G A T E S I R L L L V D				
UniRef90_S3FW20	G K D K V Y V K R V V D G D T F V A Q K N G E E I K V R L L L V D				
UniRef90_Q8CPD6	S D S D K Q K V V E R V V D G D T I K V T L D N E R I K V R L L L V D				
UniRef90_K9AGE9	S P S K A S R E A T V E R V V D G D T L K V K L N G K T D R V R L L L V D				
UniRef90_G2RN60	S S V I N S G R Q V A K F V E I V D G D T A K F E I D G K V E S V R F L L V D				
UniRef90_UPI0003B6754A	S A D L K G K D K V I V E R V V D G D T F L A K K D G E R I K V R M L G M D				
UniRef90_F9L995	I K A T I L E H I D G D T L R V K L N G K K V E V R M L G M D				
UniRef90_C2V5E3	T S T G P H D S E K V H V S R V V D G D T F V A E D N N E Q L K V R L I G V D				
UniRef90_Q49XA9	P V Q G Q T A K V I S V T D G D T I K V Q L N G L T E K V R L L L V D				
UniRef90_N0B0R8	T P D K K L V D V T L N K T V D G D T I K V N Y K G E V K T V R Y L L V D				
UniRef90_F4E9A7	P T G L M A A T V T R D I D G D T M Q V R I G P K T E T V R M L L V D				
UniRef90_C8WXP9	S A E P T P Q N A T V I K V I D G D T I T V A S D E R G R K V R L I G L V D				
UniRef90_V5UN65	S S T D L K G K E K V H I I R V V D G D T F V A R S K G Q Q L K I V R L I G V D				
UniRef90_D3QD62	S R S D T T K Q L A T V V K V I D G D T I T V S I N G K N E V V R I L L L V D				
UniRef90_K2AUA5	Q K K A R V R V I D G D T L I L A M G N Q Q K R V R L L L V D				
UniRef90_S5XI09	Q P K P N G E M A T I K R V V D G D T F E I L S G G E K V R M L G V D				
UniRef90_V6MDB6	D T T R Y K V N F V E K V D G D T I V V R F N K K D L K V R Y L L V D				
UniRef90_F3A9R7	S A N A S S K E K V T F S K H V D G D T I K V N I D G E I N I V R M L A I D				
UniRef90_R6MD25	S S E R V A V D F V R I V D G D T S V F L V N G K E Q K V R Y L L V D				
UniRef90_UPI0003B4038E	G				

QUERY	T	P	E	T	K	H	P	K	K	G	V	E	K	Y	G	P	E	A	S	A	F	T	K	K	M	V	E	N	A	K	K	I	E	V	E	F	N	K	G	Q				
UniRef90_U1WRY2	T	P	E	T	V	K	H	P	S	K	G	V	Q	P	F	G	P	E	A	S	A	F	T	K	K	I	L	K	E	G	K	E	V	Q	I	E	F	D	G	S				
UniRef90_W1SBL5	T	P	E	T	V	H	P	S	R	L	G	V	Q	P	F	G	P	E	A	S	S	D	Y	T	K	K	I	L	P	V	I	G	T	K	V	E	I	E	F	D	G	S		
UniRef90_UPI00036895D7	T	P	E	T	T	H	P	S	K	P	V	E	P	F	G	P	E	A	S	S	K	F	A	K	E	I	L	P	V	I	G	T	K	V	E	I	E	F	D	G	S			
UniRef90_I3DVCO	T	P	E	T	S	H	P	S	R	L	G	E	Q	P	F	G	P	E	A	K	M	F	T	R	D	L	V	E	K	A	K	T	I	E	L	E	F	D	I	G	L	N		
UniRef90_UPI000469D2A0	T	P	E	T	M	K	D	R	F	D	G	E	Q	P	F	G	P	E	A	E	A	T	E	F	V	T	D	M	L	S	G	K	K	V	E	L	E	L	G	L	N			
UniRef90_UPI0002FA326B	T	P	E	T	N	P	R	L	G	E	Q	P	F	G	P	E	E	A	K	A	F	T	K	K	M	L	E	G	K	T	V	Q	L	E	K	D	V	S						
UniRef90_UPI00037F2012	T	P	E	T	K	H	P	N	L	P	V	Q	P	F	G	P	E	A	S	E	F	A	V	E	K	L	A	G	K	E	I	Q	I	E	F	D	G	S	P					
UniRef90_K6DKI7	T	P	E	T	K	H	P	S	K	P	V	Q	P	F	G	P	E	A	S	K	F	T	K	D	T	L	E	G	K	E	V	T	V	E	L	D	V	S						
UniRef90_W4CIT4	T	P	E	T	K	H	A	N	K	P	V	Q	P	F	G	P	E	A	S	K	F	T	T	S	L	L	T	E	D	K	T	V	K	L	E	F	D	I	G	E	P			
UniRef90_G4HMG9	T	P	E	T	S	H	P	K	L	G	V	Q	P	F	G	P	E	A	K	A	F	T	K	E	L	L	V	E	Q	A	D	K	L	E	L	E	F	D	I	G	E	P		
UniRef90_UPI00047757DD	T	P	E	T	N	P	R	L	G	K	Q	P	F	G	S	E	E	A	K	E	L	N	T	Q	L	L	V	E	N	S	G	D	L	T	L	E	F	D	I	G	E	P		
UniRef90_W3ABY7	T	P	E	T	N	H	P	R	L	G	K	Q	P	F	G	S	E	E	A	T	A	E	N	K	L	L	E	S	S	G	D	V	S	I	E	F	D	I	G	E	P			
UniRef90_R1KWW2	T	P	E	T	V	K	P	K	T	K	V	Q	P	F	G	L	E	A	S	A	R	T	K	E	L	L	L	S	T	A	S	E	I	T	F	E	Y	D	D	G	E	P		
UniRef90_W4F4S2	A	P	E	M	Y	H	K	Q	L	G	E	Q	P	F	G	R	E	A	S	A	Q	A	R	N	R	E	L	L	N	N	A	S	Q	V	L	E	I	Q	F	D	I	G	E	P
UniRef90_UPI0003F56C25	T	P	E	T	K	K	P	N	S	C	V	Q	P	F	G	P	E	A	S	K	D	A	S	E	R	N	K	E	L	V	S	S	G	K	L	E	L	E	F	D	I	G	E	P
UniRef90_UPI00028A3BBA	T	P	E	T	H	H	P	L	L	G	V	Q	P	F	G	P	E	A	S	R	Y	A	H	Q	L	L	D	G	K	T	V	N	L	E	V	A	V	N	G					
UniRef90_D5WQ30	T	P	E	T	K	H	P	N	T	P	V	Q	P	F	G	P	E	A	S	A	Y	A	E	Q	V	L	A	G	R	D	V	K	L	E	L	D								
UniRef90_A0A024PR22	T	P	E	T	K	H	P	S	K	P	V	Q	P	F	G	P	E	A	S	S	F	A	K	E	E	L	A	G	K	K	I	E	V	E	Y	D	G	P						
UniRef90_UPI00030521AE	T	P	E	T	N	H	P	R	L	G	K	Q	P	F	G	P	E	A	K	E	L	N	R	Q	L	V	T	S	G	D	L	T	L	E	F	D	I	G	E	P				
UniRef90_U1YJ85	T	P	E	T	V	H	P	N	K	P	V	Q	P	F	G	P	E	A	S	A	Y	T	K	K	R	L	N	G	Q	T	V	T	L	E	F	D	I	G	E	P				
UniRef90_W1Q5Y8	T	P	E	S	V	K	E	G	L	K	P	Q	P	F	G	P	E	A	S	A	Y	T	K	K	R	L	N	G	Q	T	V	T	L	E	F	D	I	G	E	P				
UniRef90_Q4L5S8	T	P	E	T	K	D	P	R	K	P	V	Q	K	Y	G	P	E	A	S	R	F	T	T	N	M	L	A	N	A	R	T	I	Q	V	Q	F	D	R	G	Q				
UniRef90_UPI0002E55AF4	T	P	E	T	V	H	P	S	K	L	G	V	Q	P	F	G	P	E	A	S	S	F	T	K	K	M	L	S	N	K	K	I	E	I	E	P	G	V	Q					
UniRef90_UPI000255C04C	T	P	E	T	V	H	P	S	L	G	V	Q	P	F	G	P	E	A	S	S	N	A	H	K	L	L	D	G	K	T	V	T	L	E	F	D	I	G	E	P				
UniRef90_L8PY32	T	P	E	T	K	K	P	N	S	C	V	Q	P	F	G	P	E	A	S	K	R	N	K	E	L	V	N	S	G	E	L	Q	L	E	F	D	I	G	E	P				
UniRef90_UPI00047AE678	T	P	E	T	K	H	P	R	L	G	E	Q	P	F	G	P	E	A	S	E	F	T	A	K	L	L	T	G	K	K	I	E	L	E	L	D								
UniRef90_U6B672	T	P	E	T	V	K	P	D	T	P	V	Q	P	F	G	P	E	A	S	A	F	T	K	E	T	L	P	S	G	T	A	I	R	E	L	R	D	H	S					
UniRef90_E8SGM2	T	P	E	T	K	H	P	R	L	G	K	Q	P	F	G	P	E	A	S	D	R	T	A	K	L	L	K	N	A	N	K	I	E	V	E	F	D	I	G	E	P			
UniRef90_C5QQG2	T	P	E	T	K	D	P	R	K	P	V	E	Q	P	F	G	P	E	A	S	E	F	T	T	N	K	L	T	S	A	K	K	I	E	V	E	F	D	I	G	E	P		
UniRef90_W4C0G3	T	P	E	S	V	N	P	N	I	P	P	Q	K	M	G	K	E	A	S	S	F	L	K	K	Q	I	E	R	K	D	V	T	L	V	Y	D	H	G	Q					
UniRef90_C2Y446	T	P	E	S	V	S	R	K	I	P	P	Q	K	M	G	K	E	A	S	S	F	L	K	K	Q	I	E	R	K	D	V	T	L	V	Y	D	H	G	Q					
UniRef90_S2XRR9	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	D	F	T	K	K	H	L	T	G	K	R	V	T	L	E	F	D	I	G	E	P				
UniRef90_B1HP04	T	P	E	T	N	H	E	T	L	G	E	Q	P	F	G	P	E	A	K	E	F	T	K	Q	L	L	A	G	Q	D	T	V	Y	L	E	F	D	I	G	E	P			
UniRef90_S3FW20	T	P	E	T	S	H	P	T	L	P	V	Q	P	F	G	P	E	A	K	T	F	V	E	R	W	L	A	E	G	E	T	I	V	L	E	F	D	I	G	E	P			
UniRef90_Q8CPD6	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	N	Y	T	K	K	Y	L	T	H	Q	N	V	Y	L	E	F	D	I	G	E	P				
UniRef90_K9AGE9	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	N	Y	T	K	K	A	L	T	H	K	H	V	Y	L	E	F	D	I	G	E	P				
UniRef90_G2RN60	T	P	E	T	K	H	P	K	L	G	V	Q	P	F	G	P	E	A	S	A	Y	T	K	K	R	L	E	G	Q	E	I	T	L	E	F	D	I	G	E	P				
UniRef90_UPI0003B6754A	M	P	E	T	S	H	P	E	L	G	K	Q	P	F	G	P	E	A	K	A	F	V	E	K	L	L	S	E	A	K	E	V	S	L	E	W	D	V	A					
UniRef90_F9L995	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	N	Y	S	K	K	E	L	T	H	K	Y	V	L	E	F	D	I	G	E	P					
UniRef90_C2V5E3	T	P	E	V	H	H	P	R	L	G	L	Q	P	F	G	L	E	G	A	A	F	T	A	K	Y	A	P	V	I	G	K	E	V	E	L	E	M	D	I	G	E	P		
UniRef90_Q49XA9	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	D	Y	T	K	K	H	L	T	N	K	D	V	Y	L	E	F	D	I	G	E	P				
UniRef90_NOB0R8	T	P	E	T	K	H	P	R	L	G	V	Q	P	F	G	P	E	A	S	N	F	T	S	K	E	L	T	G	K	D	V	T	L	E	F	D	I	G	E	P				
UniRef90_F4E9A7	T	P	E	T	K	K	P	N	S	C	V	Q	P	F	G	P	E	A	S	A	R	N	K	Q	L	V	N	S	G	K	L	Q	L	E	F	D	I	G	E	P				
UniRef90_C8WVPX9	T	P	E	T	Q	V	D	P	K	T	P	V	E	Q	P	F	G	P	E	A	S	A	Y	A	K	R	L	L	P	V	I	G	K	R	V	W	E	G	S	P	G	H		
UniRef90_V5UN65	S	P	E	T	V	K	P	N	T	S	V	G	C	F	G	P	E	A	S	Q	F	A	H	R	M	L	D	G	Q	R	V	A	L	V	S	D	H	S						
UniRef90_D3QD62	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	H	F	S	K	K	N	L	T	N	K	D	V	Y	L	E	F	D	I	G	E	P				
UniRef90_K2AU45	T	P	E	V	D	P	R	K	K	V	E	C	F	G	K	E	A	S	E	K	A	K	V	I	F	E	E	N	K	T	V	L	L	E	S	D	P	T	Q					
UniRef90_S5XI09	T	P	E	S	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	D	Y	S	K	E	L	L	T	G	K	Q	V	T	L	K	F	D	V	E	I					
UniRef90_V6MDB6	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	N	L	N	G	E	I	L	S	K	A	K	N	V	E	I	E	F	D	I	G	E	P			
UniRef90_F3A9R7	T	P	E	T	V	K	K	G	V	E	Q	K	Y	G	P	E	A	S	N	L	N	G	E	I	L	S	K	A	K	N	V	E	I	E	F	D	I	G	E	P				
UniRef90_R6MD25	T	P	E	S	V	H	K	P	T	K	G	V	E	Y	G	K	E	A	S	N	Y	T	C	N	L	V	T	N	A	K	K	I	E	L	E	F	D	I	G	E	P			
UniRef90_I7B3G9	T	P	E	T	V	K	P	N	T	P	V	Q	P	F	G	P	E	A	S	N	R	T	K	T	L	L	S	N	A	K	E	I	Q	L	E	F	D	E	A	N				
UniRef90_UPI000255DEE9	T	P	E	T	K	H	P	Q	E	P	V	Q	C	L	G	P	E	A	T	E	Y	L	E	S	L	L	T	P	G	D	R	I	E	L	E	F	D	I	G	E	P			
UniRef90_UPI00028A3E9D	T	P	E	T	V	H	P	S	K	G	V	Q	P	F	G	P	E	A	S	N	Y	T	K	A	K	L	K	N	A	K	K	I	Q	L	E	F	D	I	G	E	P			
UniRef90_UPI0003FB26E8	T	P																																										

QUERY	R	T	D	K	Y	G	R	G	L	A	Y	I	Y	A	D	G	K	M	V	N	E	M	L	L	E	K	G	L	A	K	V	A	Y	V	Y	K	P	N	N	T
UniRef90_U1WRY2	E	R	D	K	Y	G	R	L	L	A	Y	L	W	I	D	G	K	M	F	N	E	M	L	L	E	K	G	L	A	R	V	A	Y	V	Y	P	P	N	T	
UniRef90_W1SBL5	G	R	D	K	Y	G	R	L	L	A	Y	I	W	I	D	G	K	M	F	N	E	M	L	L	E	K	G	L	A	R	V	A	Y	V	Y	A	P	N		
UniRef90_UPI00036895D7	E	R	D	K	Y	G	R	L	L	A	Y	V	W	I	D	G	K	M	F	N	E	M	L	L	E	K	G	L	A	R	V	A	Y	V	Y	A	P	N		
UniRef90_I3DVC0	N	R	D	K	Y	G	R	L	L	A	Y	V	H	I	D	G	K	M	I	Q	E	E	L	L	E	K	G	L	A	R	V	A	Y	V	Y	P	P			
UniRef90_UPI000469D2A0	G	R	D	K	Y	G	R	L	L	A	Y	V	V	I	D	G	K	M	I	Q	E	E	L	L	E	K	G	L	A	R	V	A	Y	V	Y	P	P			
UniRef90_UPI0002FA326B	E	R	D	K	Y	G	R	L	L	A	Y	V	V	I	D	G	K	M	I	Q	E	E	L	L	E	K	G	L	A	R	V	A	Y	V	Y	S	P			
UniRef90_UPI00037F2012	E	R	D	N	Y	D	R	L	L	G	Y	I	W	I	D	G	E	N	F	N	Q	E	L	L	E	E	G	F	A	R	Y	A	Y	V	Y	D	P			
UniRef90_K6DKI7	E	R	D	K	Y	G	R	L	L	A	Y	L	W	I	D	G	K	M	F	N	E	M	L	L	E	K	G	L	A	R	V	A	Y	V	Y	A	P			
UniRef90_W4CIT4	E	R	D	K	Y	G	R	L	L	A	Y	A	Y	I	D	G	N	K	M	F	N	E	M	L	L	E	K	G	L	A	R	V	A	Y	V	F	P			
UniRef90_G4HMG9	N	R	D	K	Y	S	R	L	L	A	Y	V	V	I	D	G	K	M	V	Q	E	A	L	L	E	K	G	L	A	R	V	A	Y	V	Y	P	P			
UniRef90_UPI00047757DD	R	V	D	K	Y	G	R	L	L	A	Y	V	V	I	D	G	K	M	V	Q	E	I	L	L	E	E	G	L	A	R	V	A	Y	V	Y	P	P			
UniRef90_W3ABY7	R	F	D	D	Y	G	R	L	L	A	Y	I	V	I	D	G	E	S	V	Q	E	S	V	Q	L	L	E	A	G	F	A	R	V	A	Y	V	P			
UniRef90_R1KWW2	R	T	D	K	Y	G	R	L	L	A	Y	I	F	V	E	G	T	L	I	Q	E	M	L	V	R	E	G	L	A	R	V	A	Y	V	R	E	P			
UniRef90_W4F4S2	H	E	D	K	Y	G	R	L	L	A	Y	T	Y	A	D	G	K	S	V	Q	E	Q	L	I	R	E	G	L	V	R	G	Y	I	Y	P	P				
UniRef90_UPI0003F56C25	R	T	D	K	Y	D	R	L	L	A	Y	V	Y	I	D	G	K	Q	S	V	Q	E	K	L	I	K	E	G	L	A	R	V	A	Y	I	Y	P			
UniRef90_UPI00028A3BBA	G	R	D	K	Y	G	R	L	L	A	Y	V	F	V	I	D	G	K	S	Y	E	G	L	Q	L	S	K	G	L	A	R	V	A	Y	I	F	P			
UniRef90_D5WQ30	Q	R	D	K	Y	G	R	L	L	A	Y	L	W	V	I	D	G	Q	L	F	N	K	M	Q	I	E	E	K	G	L	A	R	V	A	Y	V	D			
UniRef90_A0A024PR22	K	R	G	K	Y	G	R	L	L	A	Y	I	W	V	I	D	G	K	M	F	N	E	M	L	L	E	E	K	G	L	A	R	V	A	Y	V	Y			
UniRef90_UPI00030521AE	K	R	D	K	Y	G	R	L	L	A	Y	V	V	I	D	G	K	S	V	Q	E	T	L	I	S	N	G	L	A	R	V	A	Y	I	Y	P				
UniRef90_U1YJ85	Q	R	D	K	Y	G	R	L	L	A	Y	V	W	L	I	D	G	N	E	M	L	N	Q	T	L	V	K	E	G	L	A	Q	V	A	T	F	P			
UniRef90_W1Q5Y8	Y	A	D	D	Y	D	R	A	L	L	A	Y	V	A	I	D	G	N	K	L	V	S	L	E	L	V	K	E	G	L	A	S	V	S	Y	V	N			
UniRef90_Q4L5S8	R	T	D	K	Y	G	R	L	L	A	Y	V	Y	A	D	G	R	M	V	N	E	A	V	V	R	Q	G	L	A	R	V	A	Y	T	Y	I	P			
UniRef90_UPI0002E55AF4	E	R	D	K	Y	G	R	L	L	A	Y	I	V	I	D	G	K	M	F	N	K	T	L	I	A	E	K	G	L	A	R	V	A	Y	V	F	P			
UniRef90_UPI000255C04C	G	R	D	K	Y	G	R	L	L	A	Y	V	F	V	I	D	G	R	S	F	E	A	L	Q	L	I	A	A	G	L	A	R	V	A	Y	V	P			
UniRef90_L8PY32	R	R	D	K	Y	G	R	L	L	A	Y	V	Y	V	I	D	G	K	S	V	Q	E	T	L	I	K	E	G	L	A	R	V	A	Y	V	Y	E			
UniRef90_UPI00047AE678	E	R	D	K	Y	G	R	L	L	A	Y	A	Y	V	I	D	G	K	M	V	N	K	L	L	E	K	G	L	A	R	V	A	Y	V	F	P				
UniRef90_U6B672	R	T	D	R	Y	G	R	L	L	A	Y	V	W	Y	I	D	G	K	M	L	N	Q	E	L	L	R	K	G	L	A	R	V	A	F	V	Y	E			
UniRef90_E8SGM2	K	Q	D	K	Y	H	R	Y	L	L	A	Y	I	Y	V	D	G	K	M	V	N	I	L	V	K	E	G	L	A	K	V	D	Y	V	Y	P	P			
UniRef90_C5QQG2	H	T	D	K	Y	G	R	S	L	L	A	Y	V	Y	A	D	G	E	K	M	L	N	N	A	L	V	R	N	G	L	A	R	V	A	Y	V	F	P		
UniRef90_W4C0G3	E	R	D	K	Y	G	R	L	L	A	Y	I	Y	I	D	G	K	M	F	N	E	I	L	L	E	K	G	L	A	R	V	A	Y	V	F	A	P			
UniRef90_C2Y446	K	E	D	K	Y	G	R	L	L	A	Y	I	F	C	E	G	I	H	V	N	E	L	M	V	K	L	G	L	A	R	V	A	Y	I	T	K	P			
UniRef90_S2XRR9	P	K	D	K	Y	G	R	L	L	A	Y	V	W	V	I	D	G	K	M	F	N	V	R	L	A	K	E	G	L	A	R	A	K	F	Y	S	P			
UniRef90_B1HP04	R	D	K	Y	K	R	L	L	A	Y	I	Y	T	K	E	G	I	S	V	Q	E	Q	L	I	K	N	G	L	A	R	V	A	Y	I	Y	N	P			
UniRef90_S3FW20	R	Y	D	R	Y	Q	R	L	L	A	Y	V	W	Y	I	D	D	A	M	L	N	E	E	L	L	R	R	G	L	A	R	V	A	Y	V	Y	S	P		
UniRef90_Q8CPD6	T	D	R	Y	G	R	T	L	L	A	Y	V	W	L	K	N	D	M	F	N	E	S	L	V	K	K	E	G	L	A	R	E	K	Y	F	S	P			
UniRef90_K9AGE9	H	D	K	Y	D	R	T	L	L	A	Y	V	W	M	N	D	M	Y	N	E	K	I	V	A	E	G	L	A	R	A	K	F	Y	Y	P	P				
UniRef90_G2RN60	E	R	D	K	Y	G	R	L	L	A	Y	V	W	I	D	N	E	L	Y	N	E	E	L	L	V	K	G	L	A	R	V	A	V	F	P	P				
UniRef90_UPI0003B6754A	K	R	D	K	Y	D	R	L	L	A	Y	V	V	I	D	G	K	S	V	Q	E	I	L	L	K	E	G	L	A	R	V	G	Y	I	Y	E	S			
UniRef90_F9L995	N	D	R	Y	G	R	T	L	L	A	Y	V	W	L	S	K	N	R	M	F	N	R	E	L	V	E	K	G	L	A	R	E	K	Y	Y	P	P			
UniRef90_C2V5E3	E	R	D	K	F	T	R	L	L	V	Y	V	W	V	I	E	G	Q	L	L	N	R	M	L	V	E	R	G	L	A	R	V	A	Y	I	Y	Q	P		
UniRef90_Q49XA9	E	D	R	Y	G	R	T	L	L	A	Y	V	W	L	D	D	K	T	M	Y	N	E	Q	L	V	K	E	G	L	A	R	E	K	Y	Y	S	P			
UniRef90_N0B0R8	Q	R	D	K	Y	G	R	L	L	A	Y	V	W	F	I	G	N	T	L	F	N	E	R	L	V	K	E	G	L	A	R	V	A	V	F	P	P			
UniRef90_F4E9A7	R	T	D	K	Y	G	R	L	L	A	Y	V	V	I	D	G	K	S	V	Q	E	T	L	L	K	E	G	L	A	R	V	A	Y	V	Y	E	P			
UniRef90_C8WXP9	T	R	D	K	Y	G	R	L	L	A	Y	V	W	I	T	S	T	D	L	N	R	D	V	V	D	Q	G	L	A	R	V	A	Y	V	Y	A	P			
UniRef90_V5UN65	N	T	D	K	F	G	R	T	L	L	A	F	V	F	L	P	N	Q	N	F	S	V	E	S	V	R	E	G	L	A	R	A	H	A	Y	V	F	N		
UniRef90_D3QD62	N	D	R	Y	G	R	L	L	A	Y	V	W	L	D	K	D	T	L	F	N	E	L	L	V	K	E	G	L	A	K	E	K	Y	F	A	P	P			
UniRef90_K2AU45	G	E	R	D	R	Y	Q	R	Y	V	W	I	D	D	K	T	D	F	G	K	F	M	I	G	E	G	L	A	S	E	Y	T	Y	I	V	P	Y			
UniRef90_S5XI09	K	Q	D	K	Y	G	R	L	L	A	Y	C	Y	V	I	E	G	T	L	V	Q	K	D	L	I	E	R	G	L	A	I	V	R	Y	A	E	A	P		
UniRef90_V6MDB6	K	D	R	Y	G	R	L	L	A	Y	V	Y	L	P	D	G	S	F	V	N	E	K	L	V	R	E	G	L	A	R	I	M	T	I	P	P	N			
UniRef90_F3A9R7	K	E	D	K	Y	H	R	A	L	L	A	Y	C	Y	V	I	D	G	K	S	V	Q	K	Q	L	L	E	K	G	L	A	E	I	K	Y	V	K	E		
UniRef90_R6MD25	K	K	D	K	Y	N	R	V	L	A	Y	V	W	V	I	D	D	T	L	L	Q	D	E	L	V	K	N	G	L	A	R	E	V	A	Y	L	Y	G		
UniRef90_I7B3G9	K	T	D	R	Y	G	R	L	L	A	Y	V	F	V	I	D	G	Q	L	L	Q	E	T	L	V	S	E	G	L	A	K	V	A	Y	V	K	N	K		
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UniRef90_P43269	P	K	D	K	Y	G	R	T	L	L	A	Y	V	W	L	G	D	E	M	F	N	V	K	L	A	K	E	G	L	A	R	A	K	F	Y	P	P			
UniRef90_J9GWB9	E	D	K	Y	G	R	T	L	L	A	Y	L	W	L	D	K	D	T	M	F	N	E	E	L	I	K	E	G	L	A	R	E	K	Y	Y	A	P	P		
UniRef90_K1ZBD5	D	R	D	T	Y	G	R	L	L	R	Y	V	F	L	E	D	T	F	F																					

QUERY	H	E	Q	H	L	R	K	S	E	A	Q	A	K	K	E	K	L	N	I	W	S
UniRef90_U1WRY2	Y	V	D	Q	F	R	A	I	I	Q	K	K	A	Q	T	A	G	I	L	G	W
UniRef90_W1SBL5	Y	V	D	E	F	Y	A	I	I	Q	K	K	A	Q	K	A	G	I	L	G	W
UniRef90_UPI00036895D7	Y	V	D	P	F	R	A	I	I	Q	K	K	A	Q	K	A	E	L	G	I	W
UniRef90_I3DVC0	Y	V	D	Q	F	R	A	I	I	Q	K	K	A	Q	Q	E	G	L	I	G	W
UniRef90_UPI000469D2A0	Y	V	D	Q	F	R	E	I	I	Q	R	K	S	Q	K	E	G	K	L	G	W
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UniRef90_UPI00037F2012	H	Q	D	E	M	K	Q	A	E	Q	R	A	R	E	A	E	I	L	G	I	W
UniRef90_K6DKI7	Y	V	D	Q	F	Y	E	I	I	Q	K	K	A	Q	K	A	G	I	L	G	W
UniRef90_W4CIT4	Y	L	E	K	F	R	N	E	I	Q	K	Q	A	Q	A	K	L	G	I	W	S
UniRef90_G4HMG9	Y	V	D	K	F	R	E	I	L	Q	R	I	S	R	E	K	A	L	G	I	W
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UniRef90_W3ABY7	Y	V	D	D	F	E	K	V	E	M	E	A	K	E	A	G	L	I	G	W	
UniRef90_R1KAWW2	Y	L	P	Q	L	E	K	A	Q	E	K	A	K	S	Q	S	L	G	I	W	
UniRef90_W4F4S2	N	V	K	A	F	E	K	I	Q	N	E	A	K	A	S	R	K	G	I	W	
UniRef90_UPI0003F56C25	Y	V	E	Q	Y	K	E	V	E	K	S	A	Q	S	K	Q	L	A	I	W	
UniRef90_UPI00028A3BBA	Y	L	D	Q	Y	R	A	D	E	A	A	A	R	Q	K	R	L	N	I	W	
UniRef90_D5WQ30	H	Y	D	E	L	V	A	A	E	Q	K	A	K	S	A	G	L	I	G	W	
UniRef90_A0A024PR22	H	Y	Q	E	Y	M	K	A	Q	N	K	A	K	D	K	E	K	G	I	W	
UniRef90_UPI00030521AE	H	L	T	P	Y	E	E	T	Q	Q	V	A	K	S	K	K	L	G	I	W	
UniRef90_U1YJ85	Y	T	D	S	F	V	K	L	Q	K	Q	A	R	D	A	K	K	G	L	W	
UniRef90_W1Q5Y8	Q	E	K	T	L	R	Q	A	Q	K	A	K	N	A	K	K	G	I	W	S	
UniRef90_Q4L5S8	F	E	Q	M	L	K	V	S	Q	S	K	A	Q	A	E	K	L	N	I	W	
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UniRef90_L8PY32	Y	I	D	Q	F	R	L	D	E	Q	E	A	K	S	E	K	R	S	I	W	
UniRef90_UPI00047AE678	Y	V	D	E	F	R	E	I	I	Q	D	E	A	R	K	K	G	I	G	W	
UniRef90_U6B672	Y	V	D	M	F	E	Q	I	E	Q	G	A	K	Q	A	K	K	I	W		
UniRef90_E8SGM2	Y	L	S	Q	L	E	K	S	Q	K	A	K	A	K	A	K	L	G	I	W	
UniRef90_C5QQG2	Y	E	S	K	L	K	E	S	E	S	L	A	K	A	E	K	L	N	I	W	
UniRef90_W4C0G3	Y	V	D	Q	F	R	A	I	Q	D	K	A	R	E	K	R	G	I	G	W	
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UniRef90_I7ZWG3	T	I	D	K
UniRef90_Q0AFZ6	A	T	D	R
UniRef90_X11TY5	E	V	D	K
UniRef90_N9Q4J7	G	T	D	N
UniRef90_F5T2H5	R	D	K	Y
UniRef90_V3ZN51	T	I	D	K
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UniRef90_D6GQ86	Y	G	R	T
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UniRef90_I3DTF3	K	Y	D	K
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F E A R V K S V L S G D T V H I T N P S Q E R I L S L A Y V S
R L Q Q V E D G D T V V E I A G G A E R I Q L A S I D
S Q A K I E E L T G R V V G I T D G D T F T L K H D S T T V Q I R L A S I D
E Q E R T L R G K V S V T D G D T I R V R L T E T T V Q I R V A G I D
E G V V A Q V I D G D T I D L A S G E R V R Y L M I D
T D A F A F R Q I D C W V V G I S D G D T I T C L L P K K Q L K V R L Q E I D
V E R V S D G D T L V V K D N G K N F T V R F A C M D
E D P N R M L V K V A Q V V S G Q T I E V V G I G E Q T Q V R L L N I D
K A I V K S V I S G D S L V L R G T P K E R V L H L A D I Q
C P P P R N A I S A T V A Y V D G D T V R L T N G D R V R L A G I D
N S S V S N Q V E V R V A R V V S G Q T L E V V G M A E Q P N V R L S G V D
T T D S K E H D A T V T K I I G A D T I I V R N K G A E K R I S L S S V R
P T Q T R T G L T E W Q V V S L H D G D T I R A T N G N E I R V R F A C I D
S A N T A P V K V L S T S D G D T L K V Q F N G K S S K V R I G C I D
G R V V G V H D G D T I T V L T D N T Q Y K V R L A N I D
T I K A K V K R V V S G Q T I E V W L T K S K E T V R I A G I N
C P A P T T L A R V E V L R V V D G D T V R L K D G R S V R M I G L N
S M K A I V K S V I S G D S L L R L P D G Q V P K E R L A D I T
S S L P A H A H Q V I G I A D G D T L T L L V D Q K P V K I R L A D I D
R V S D G D T I L I Q S G S Q K I R V R M Y G I D
P A L V L T V V D G D T V D L E G L G P V R R L I G V D
S S L K R Q G R V P A I V D Y V A S G S R F K V V V P K E N I T L V L S G I R
A S C Q K I G W D Q T V T L K K I N D G D T V T L T N G S L V R L I G I N
Q A C R V T A I S D G D T V K C L Q D W R E L T V R L G Q I D
P S F L R N R S I F G R V T S V G D G D N F R I Y L R N Q T V H V R L A G V D
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S V V D G D T L E I R G E R V R L W G V D
V I D G D T L E I A G E R V R L E G I D
C A A P V D A Q V V S V R Q V V D G D T L R L N D G R S V R L I G I N
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A A E S I D C R V I G I A D G D T F S C L T H K D Q V R V R L G E I D
S T L A R Q K K V P A V V D F C A K A G S R F T I L I P R E G V K V T L A G V R
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V Q V A Y I F D G D T F A T A T G E R I R L L I G I N
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T P E T A E N R R F E R V Y G E R A S A F A R E R L A G E T V T L S F D P S E P
A P R A A R S N E K S E P Y G L E S Q K H S S K Y M Q R D A E I V F D
A L E Q D Q R C T R R G Q G G Y N C G I A G R D A L I A L V G R N T V T C T P D
T P E S N D P R Q E M R T L A R R A T F R T R E M A P G C T V R L H N L
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S P K E P W L V R R L E T P G E E C N A W F A N Q L P Y D T N I T L K S D S D R
P K L S I S H G N E Y N E W R K K A F E M Q K I F Y N R Q V R I N Y D S
A P E N A Q S C G T G S G A V W A C G D W V T Q E T S L R F A G R E A V C E T V
A P S V D Q L C L I N N H S E R W T C G V A A R D E L I K H V G D K S W T C H P R
T P E V Y G E N T P G E F Y G D R A S Y A E R R L A G E T V R L T F D A N E P
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	90	100	110	120																																					
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