

QUERY	10	20	30
UniRef90_Q90DU8	S V L S G K K A D E L E K I R L R P G G K K K Y M L K H V V W A A N E L D R F G		
UniRef90_Q5U6U5	S V L S G G K L L D A W E K I R L R P G G R K K Y R L K H L V W A S R E E L L E R F A		
UniRef90_E0WWG8	S V L S G G K L L D S W E K I Q L R P G G R K K Y R L K H L V W A S R E E L L E R F A		
UniRef90_A3DTT9	S I L R G E K L L D K W E K I R L R P G G K K H Y M L K H I V W A S R E E L L E R F A		
UniRef90_C8C612	S I L S G G Q L L D R W E K I R L R P G G R K Q Y R L K H L V W A S R E E L L E R F A		
UniRef90_B6DR96	S I L S G G K L L D K W E K I R L R P G G X K Y Q L R L K H L V W A S R E E L L E R F A		
UniRef90_C1JJQ3	S V L S G G S L L D R W E K I R L R P G G R K R Y K L K H I V W A S R E E L L E R F A		
UniRef90_K0GIS2	S V L S G G K L L D A W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_C3VAF2	S V L S G G K L L D E W E K I R L R P G G S K K Y K L K H I V W A S R E E L L E R F A		
UniRef90_U6BFX8	S V L S G G K L L D A W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_Q2HP20	S V L S G G K L L D A W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_C1JH71	S I L R G G K L L D K W E R I R L R P G G K K H Y M I K H L V W A S R E E L L E R F A		
UniRef90_Q91DA5	S V L S G G K L L D E W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_I6QT39	S V L S G G E L L D R W E K I R L R P G G K K Q Y K L K H I V W A S R E E L L E R F A		
UniRef90_C7ASF9	S V L S G G K L L D S F E K I R L R P G G K K Y K Y R M K H L V W A S R E E L L E R F A		
UniRef90_A0MPQ0	S V L R G G Q L L D T W E K I R L R P G G K K Y K Y R M K H L V W A S R E E L L E R F A		
UniRef90_V9QIF4	S V L S G G K L L D A W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_C3VAI1	S V L R G E K L L D T W E K I S L R P G G K K Y Y M M K H L V W A S R E E L L E R F A		
UniRef90_P04588	S V L S G G K L L D A W E K I R L R P G G K K Y R M K H L V W A S R E E L L E R F A		
UniRef90_Q9Q721	S V L S G G K L L D A W E K I R L R P G G R K K Y R L K H I V W A S R E E L L E R F A		
UniRef90_B3FLH8	S V L S G G K L L D A W E K I R L R P G G K K K Y X M K H X V W A X R E E L L E R F A		
UniRef90_B9V6Z5	S V L R G G K L L D E W E K I R L R P G G K K Y R L K H I V W A S R E E L L E R F A		
UniRef90_C7AS92	S I L R G G K L L D A W E K I R L R P G G K K C Y K L K H I V W A S R E E L L E R F A		
UniRef90_C3VAG0	S V L S G G K L L D A W E K I R L R P G G K K Y R L K H I V W A S R E E L L E R F A		
UniRef90_M4PE84	S I L R G G K L L D T W E K I R L R P G G K K Q Y M I K H I I V W A S R E E L L E R F A		
UniRef90_F2XYD5	S I L R G E K L L D R W E K I R L R P G G K K H Y M L K H I I V W A S R E E L L E R F A		
UniRef90_F5CG56	S V L S G G K L L D K W E K I R L R P G G K K Q Y K L K H I I V W A S R E E L L E R F A		
UniRef90_C8C556	S V L S G G K L L D H W E K I R L R P G G K K K Y K L K H I I V W A S R E E L L E R F A		
UniRef90_C7ASF2	S I L R G E K L L D K W E R I R L R P G G K K R Y R L K H I I V W A S R E E L L E R F A		
UniRef90_D2DG24	S V I S G G E L L D R W E K I R L R P G G N K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_B2ZZK2	S V L S G G E L L D R W E K I R L R P G G K K K Y Y R M K H I I V W A S R E E L L E R F A		
UniRef90_W0GTL1	S V L S G G K L L D A W E K I K L R P G G K K Q Y R L K H I I V W A S R E E L L E R F A		
UniRef90_W0GPQ9	S V L S G G K L L D X W E K I R L R P G G K K Q Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q5WPS1	S V L S G G K L L D K W E K I R L R P G G K K Q Y K M K H I I V W A S R E E L L E R F A		
UniRef90_B7SGW2	S V L R G E K L L D T W E R I R L R P G G K K Y Y K L K H I I V W A S R E E L L E R F A		
UniRef90_C5HAA6	S V L S G G K L L D A W E R I R L R A G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_C4MID6	S V L S G G K L L D A W E X I R L R P G G X K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_F6KLD8	S V L S G G K L L D E W E K I R L R P G G H H Y K Y K L K H I I V W A S R E E L L E R F A		
UniRef90_C8C5V8	S V L S G G K L L D S W E K I R L R P G G K K Y Y R L K H I I V W A S R E E L L E R F A		
UniRef90_B3FMK3	S I L R G G K L L D M W E K I R L R P G G K K Y Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q9WC53	S I L S G G K L L D D W E K I R L R P G G K K K Y R I K H I I V W A S R E E L L E R F A		
UniRef90_C8C5M3	S V L S G G E L L D R W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_A0ZTM0	S V L R G E K L L D A W E K V R L R P G G K K H Y M L K H I I V W A S R E E L L E R F A		
UniRef90_Q31S59	S V L S G G K L L D A W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q1KYG1	S V L S G G K L L D D W E K I Q L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q6B9R6	S V L S G G K L L D A W E R I R L R P G G K K T Y R I K H I I V W A S R E E L L E R F A		
UniRef90_B6DR68	S V L S G G E L L D R W E K I R L R P G G K K K Y X L K H I I V W A S R E E L L E R F A		
UniRef90_C9DUB4	S I L R G E K L L D T W E R I K L R P G G K K R Y M L K H I I V W A S R E E L L E R F A		
UniRef90_B2CJH4	S V L S G G Q L L D K W E R I R L R P G G K K T Y Q L K H I I V W A S R E E L L E R F A		
UniRef90_C7SBS3	S V L S G G R L L D A W E R I R L R P G G N K K R Y R K L K H I I V W A S R E E L L E R F A		
UniRef90_C6L4E0	S I L T G G K L L D E W E K I R L R P G G K K Y Y R L K H I I V W A S R E E L L E R F A		
UniRef90_A9PYE6	S V L S G G K L L D A W E R I H L R P G G K K Y M K H I I V W A S R E E L L E R F A		
UniRef90_I6ZD86	S V L S G G K L L D S W E K I R L R S G G K K K Y R I K H I I V W A S R E E L L E R F A		
UniRef90_C8C6F8	S X L S G G K L L D K X E K I R L R X G G K K Y Q L K H I I V W A S R E E L L E R F A		
UniRef90_A9PY10	S I L S G G K L L D A W E K I R L R P G G K K K Y R I K H I I V W A S R E E L L E R F A		
UniRef90_I3WKY7	S V L T G G K L L D A W E K I R L R P G G K K Y Y R M K H I I V W A S R E E L L E R F A		
UniRef90_O41798	S V L S G G K L L D S W E K I R L R P G G R K K Y K L K H I I V W A S R E E L L E R F A		
UniRef90_Q6B9R5	S V L S G E K L L E K W E K I R L R P G G K K H Y R L K H I I V W A S R E E L L E R F A		
UniRef90_F6KL47	S V L S G E K L L G Q D A W E R I V R L R P G G K K K Y R M K H I I V W A S R E E L L E R F A		
UniRef90_F6KLB1	S V L S G E K L L G K D A W E K V R L R P G G K K K Y R M K H I I V W A S R E E L L E R F A		
UniRef90_C9DU0	S V L S G G R L L D E W E R I Q L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_F6KKX2	S V L S G G Q L L D K W E K I R L R P G G K K Q Y K L K H I I V W A S R E E L L E R F A		
UniRef90_D3TVU9	S V L S G G K L L D S W E K I R L R P G G K K K Y K L K H I I V W A S R E E L L E R F A		
UniRef90_F6KL44	S V L S G G K L L D E W E K I R L R P G G H H K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q8AFA8	S I L S G G K L L D S W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_E2IRL0	S V L K G X K L L D X W E X I R L R P G G K K K Y X X K L K H I I V W A S R E E L L E R F A		
UniRef90_B3FM21	S I L S G G E L L D X X W E X I R L R P G G K K K Y Q L K H I I V W A S R E E L L E R F A		
UniRef90_C5I8U7	S I L S G G E L L D R W E K I R L R P G G K K K Y K L K H I I V W A S R E E L L E R F A		
UniRef90_F5CG90	S G F S G G E L L D K W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_C4MIQ9	S V L X G G E L L D K W E K I R L R P G G K K Q Y K L K H I I V W A S R E E L L E R F A		
UniRef90_B6DQY9	S V L S G G X L L B R W E K I X L R X G G K K K X G L K H I I V W A S R E E L L E R F A		
UniRef90_E2IR58	S V L R G E K L L D T W E X I R L R P G G K K Q Y M L K H X X V W A S X E E L L E R F A		
UniRef90_Q97699	S V L S G G E L L D R W E K I R L R P G G K K Q Y K L K H I I V W A S R E E L L E R F A		
UniRef90_Q5WPR1	S V L S G G K L L D A W E K I R L R P G G R K K Y Q L K H I I V W A S R E E L L E R F A		
UniRef90_Q315W0	S V L S G G K L L D A W E K I R L R P G G K K Q Y R L K H I I V W A S R E E L L E R F A		
UniRef90_B9A2X9	S V I X G G E L L D X W E R I R L R P G G S K K Y R L K H X V W A S R E E L L E R F A		
UniRef90_Q5G5S7	S V I L S G G K L L D A W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_Q89503	S I L S G G K L L D A W K R I R L R P G G K K K Y Q I L K H I I V W A S R E E L L E R F A		
UniRef90_B9A3E3	S V L S G G E L L D R W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_W0GTR6	S V L E K D V W E K I R L R P G G K K Q Y R I K H I I V W A S R E E L L E R F A		
UniRef90_Q5G5R4	S V L E E D V W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_S4S5T2	S V L T G S K L L D D W E K I R L R P G G K K K Y M M K H L V W A S R E E L L E R F A		
UniRef90_Q5QCW4	S V L R G E K L L D T W E R I R L R P G G K K K Y M M K H L V W A S R E E L L E R F A		
UniRef90_A1ECL6	S V L S G G K L L N E W E K I R L R P G G K K K Y Q I K H I I V W A S R E E L L E R F A		
UniRef90_Q5U6U9	S V L S G G K L L D Q W E K I R L R P G G K K K Y R L K H I I V W A S R E E L L E R F A		
UniRef90_C8C6F4	S I L X G G K L L D K X E K I X L R P G G R X K K Y Q L K H X X V W A S R E E L L E R F A		
UniRef90_Q5Q9E9	S V L S G G K L L D A W E K I H L R P G G R K K Y K L K H L V W A S R E E L L E R F A		
UniRef90_Q97707	S V L S G G E L L D R W E K I R L R P G G K K K Y K L K H L V W A S R E E L L E R F A		
UniRef90_Q5Q9D0	S V L S G G K L L D D W E K I Q L R P G G K K K Y R L K H L V W A S R E E L L E R F A		
UniRef90_C1JH98	S V L A W E K I R L R P G G K K K Y R L K H L V W A S R E E L L E R F A		
UniRef90_Q5K6J7	S I L T G G R L L D A W E K I R L R P G G R K K Y M M K H L V W A S R E E L L E R F A		

QUERY	L A E S	50	60	70	80
UniRef90_Q90DU8	L L E N K E G C Q K I	L S V L A P L V P T G S E N L K Y N T V C V I			
UniRef90_Q5U6U5	I N P G L L E T A E G C C Q Q I	I G Q L Q P A L Q T G S E E E D F R S S L Y N T V A T L			
UniRef90_E0WWG8	L N P G L L E T A E G C C Q Q I	I L K Q L Q P A L K T G T G S E E E D F R S S L Y N T V A T L			
UniRef90_A3DTT9	L N P G L L E T S E G C C K Q Q I	I V Q L Q P A L Q T G T G S E E E D F R S S L Y N T V A T L			
UniRef90_C8C612	V N P G L L E T A E G C C Q Q I	I L E Q L Q P A L X T G S E E E L K S S L F N T V A V L			
UniRef90_B6DR96	V N P G L L E T A E G C C Q Q I	I L G Q L Q P S L Q T G S E E E L K S S L F N T V A V L			
UniRef90_C1JJQ3	V N P G L L E T A E G C C Q Q I	I L E Q L Q P S T L K T G S E E E L K S S L F N T V A T L			
UniRef90_K0GIS2	L N P G L L E T A E G C C Q Q I	I E Q L Q P S T L K T G S E E E L K S S L F N T V V T L			
UniRef90_C3VAF2	I N P G L L E T A T G C C K Q Q I	I M E Q L Q P T I L Q T G S E E E L K S S L F N T V A T L			
UniRef90_U6BFX8	L N P G L L E T A E G C C Q Q A	L E Q L Q P S I L K T G S E E E L K S S L F N T I A T L			
UniRef90_Q2HP20	L N P G L L E T S E G C C K Q Q I	M N Q L Q P S I L Q T G T G S E E E L R S S L Y N T V A T L			
UniRef90_C1JH71	L N P G L L E T A E G C C Q Q I	I K Q L H P A L Q T G T G S E E E L R S S L Y N T V A T L			
UniRef90_Q91DA5	L N P G L L E T A E G C C Q Q I	I E Q L Q S A L K T G S E E E L R S S L Y N T V A T L			
UniRef90_16QT39	V N P G L L E S S D G C C K Q Q I	L R Q L H P S A L Q T G T G S E E E L K S S L Y N T V A V L			
UniRef90_C7ASF9	L N P G L L E T A E G C C Q Q I	M R Q L H P A L Q T G T G S E E E L R S S L Y N T V A T L			
UniRef90_A0MPQ0	V N P G L L E T A E G C C Q Q I	I M Q L Q P A L Q T G T G S E E E L R S S L Y N A V A T L			
UniRef90_V9QIF4	L N P G L L E T S E G C C K Q Q I	I E Q L Q P A L Q T G T G S E E E L R S S L Y N T V A T L			
UniRef90_C3VA11	L N P G L L E T S D G C C Q Q I	I R Q L H P A L Q T G T G S E E E L K S S L Y N T V A T L			
UniRef90_P04588	L N P G L L E T T G E G C C Q Q I	M E Q L Q S T L K T G S E E E I L Q S S L Y N T V A T L			
UniRef90_Q9Q721	L N P D L L E T A D G C C Q Q I	L G Q L Q P A L X T G X E E I L K S S L Y N T I A V L			
UniRef90_B3FLH8	L N P G L L E T T E G C C Q Q I	I L E Q L Q P N L X T G X E E I L R S S L F N T V A T L			
UniRef90_B9V6Z5	L N P G L L E S A E G C C Q Q I	L I E Q L Q P A L X T G S E E E I L R S S L F N T V A V L			
UniRef90_C7AS92	L N P G L L E T S E G C C K Q Q I	I Q Q L Q P A L X T G T G S E E E I L X S S L F N T V A T L			
UniRef90_C3VAG0	L N P S L L E T T E G C C Q Q I	M D Q L Q P A L X T G T G S E E E I L K S S L Y N T V A T L			
UniRef90_M4PE84	L N P G L L E T S E G C C K Q Q I	L Q Q L Q P A L X T G T G S E E E I F R S S L Y N T V A T L			
UniRef90_F2XYD5	L N S G L L E T A E G C C K Q Q I	M K Q L Q P A L X T G T G S E E E I L R S S L Y N T V A T L			
UniRef90_F5CG56	V N P G L L E T S G G G C R K Q I	L K Q L Q P S L X T G S E E E I L K S S L F N T V A T L			
UniRef90_C8C556	I N P G L L E T S E G C C K Q Q I	I E Q L Q P S A L X T G T G S E E E I L K S S L F N T V A V L			
UniRef90_C7ASF2	L N S G L L E T A D G C C X Q Q I	I K Q L X P A L X T G T G S E E E I L K S S L F N T V A T L			
UniRef90_D2DG24	L N P G L L K T S K G C C R Q I	M G Q L Q S A L X T G T G S E E E I L K S S L F N T V A V L			
UniRef90_B2ZZK2	L N P G L L E T S E G C C K Q Q I	L G Q L Q P A L X T G T G S E E E I L T S S L H N T V A T L			
UniRef90_W0GTL1	L N P G L L E T S E G C C K Q Q I	M N Q L Q P A L X T G T G S E E E I L R S S L F N T I A T L			
UniRef90_W0GPQ9	L N P S L L E T A E G C C Q Q I	I E Q L Q P A I K T G T G S E E E I L R S S L F N T I A T L			
UniRef90_Q5WPS1	L N P S L L E T G E G C C Q Q I	M E Q L Q P A L K T G S E E E I L Q S S L Y N T V A T L			
UniRef90_B7SGW2	L N P G L L E T A A G C C Q Q I	R E Q L P P A L X T G S E E E I L K S S L Y N T V S P L			
UniRef90_C5HAA6	V N P G L L E T S E G C C K Q Q I	I L E Q L Q P T I L X T G S E E E I L K S S L F N T V A T L			
UniRef90_C4MID6	L N P G L L E T G E G C C Q Q I	V I E Q L Q P T I L X T G S E E E I F R S S L Y N T V A V L			
UniRef90_F6KLD8	I N P G L L E T S E G C C K Q Q I	I R Q L Q P A L X T G S E E E I L K S S L F N T V V T L			
UniRef90_C8C5V8	I N P G L L E S A E G C C Q Q I	M E Q L Q S T L X T G X E E I L K S S L Y N T V A V L			
UniRef90_B3FMK3	L N P G L L E T S E G C C Q Q I	L X Q L Q P A L X T G X E E I L K S S L Y N T V A T L			
UniRef90_Q9WC53	L N P G L L E S A K G C C Q Q I	L V Q L Q P A L X T G X E E I L Q S S V Y N T X A T L			
UniRef90_C8C5M3	V N P G L L E T A E G C C K Q Q I	L G Q L Q P S L X T G S E E E I L R S S L F N T V A T L			
UniRef90_A0ZTM0	L N P G L L E T S E G C C K Q Q I	M E K L Q P A L R T G S E E E I L R S S L F N T V A V L			
UniRef90_Q315S9	L N P G L L E S A E G C C Q Q I	M E Q L Q S A I K T G S E E E I L K S S L F N T V A V L			
UniRef90_Q1KYG1	L N P G L L E T S E G C C K Q Q I	I A Q L Q P S I I X T G S E E E I L K S S L Y N T V A T L			
UniRef90_Q6B9R6	L N P G L L E N A E G C C Q Q I	M L Q L Q P A I X T G S E E E I L R S S L Y N T V A T L			
UniRef90_B6DR68	V N P G L L E T T A G C C R Q I	L X Q L Q P S L X T G S T K E I L K S S L Y N T V A V L			
UniRef90_C9DUB4	L D P S L L E T S E G C C K Q I	I K Q L H P A L X T G S E E E I L K S S L Y N T V A T L			
UniRef90_B2CJH4	V N P G L L E T A K G C C R Q I	L E Q L Q P S L X T G S E E E I L K S S L Y N T V A T L			
UniRef90_C7SBS3	L N P G L L E T A E G C C Q Q I	K E E Q L Q S A L X T G S E E E I L K S S L Y N T I A T L			
UniRef90_C6L4E0	L N P E L L E T K E G C C Q Q I	M E E Q F Q S T L S T G S E E E I L R S S L F N T I A T L			
UniRef90_A9PYE6	L N P S L L E T A E G C C Q Q I	I E Q L Q P S I I X T G S E E E I L R S S L Y N T V A T L			
UniRef90_I6ZD86	L N P G L L E T A E G C C Q Q I	L T Q L Q P A I X T G S E E E I L K S S L Y N T V A T L			
UniRef90_C8C6F8	V N P G L L E T A D G C C Q Q I	M G Q L Q P X I L X T G S E E E I L K S S L X N L V A T L			
UniRef90_A9PY10	L N P S L L E T T E G C C Q Q I	L E E Q L Q P A I L X T G T G S E E E I I R S S L Y N T V A V L			
UniRef90_I3WKY7	F N P G L L E T A Q G C C V Q I	I K Q L Q P S I I X T G S E E E I I R S S L F N T V L V L			
UniRef90_O41798	L N R D L L E T A E G C C V Q I	M K Q L Q P A I L X T G S E E E I I R S S L F N T V A T L			
UniRef90_Q6B9R5	V N P G L L D S A K G C C Q Q I	M E Q L Q P A I L X T G S E E E I I T S S L F N T V A T L			
UniRef90_F6KL47	L N P G L L E T A L G C C Q Q I	L E E Q L Q P S Q I X T G S E E E I I K S S L F N T V A T L			
UniRef90_F6KLB1	L N P G L L E T T E G C C R Q I	L E E Q L Q P T I L X T G T G S E E E I I K S S L F N L V A V L			
UniRef90_C9DUJ0	L N P G L L E T S E G C C R Q I	L E E Q L Q P A I L X T G T G S E E E I I K S S L F N T V A T L			
UniRef90_F6KKX2	L N P G L L E T G A G C C Q Q I	I E Q L Q P S S I I X T G S E E E I I K S S L F N T V A T L			
UniRef90_D3TVU9	L N P G L L E T P E E G C C K Q I	I G Q L Q P S I I X T G S E E E I I K S S L F N T V A V L			
UniRef90_F6KL44	I N P G L L E S S E G C C R Q I	I G Q L Q P S I I X T G S E E E I I K S S L F N T V A T L			
UniRef90_Q8AFA8	L N P P D L L E T A E G C C X Q I	M G Q Q L Q P A I L X T G T G S E E E I I R S S L Y N T V A T L			
UniRef90_E2IRL0	L N P G L L E T S E G C C X Q I	X X Q L Q P A I L X T G T G S E E E I I X S S L X N T V A T L			
UniRef90_B3FM21	V N P G L L E T X E G C C R Q I	L G Q L Q P A I L X T G T G S E E E I I K S S L V Y N T X A T L			
UniRef90_C5I8U7	V N P G L L E T S G G G C R Q I	L E Q L Q P S S I I X T G S E E E I I K S S L V Y N T V A T L			
UniRef90_F5CG90	V N P G L L V E T S A G C C X Q I	L G Q Q L Q P S S I I X T G S E E E I I K S S L L Y N T V A T L			
UniRef90_C4MIQ9	V N P G L L E T S E G C C X Q I	L X Q L Q P S S I I X T G S E E E I I K S S X X N T V A V L			
UniRef90_B6DQY9	V N P G L L E S S E G C C R Q I	M G Q Q L Q P A I L X T G T G S E E E I I R S S L L Y N T V A T L			
UniRef90_E2IR58	L N P G L L E T S E G C C X Q I	M G Q Q L Q P A I L X T G T G S E E E I I R S S L F N T V A T L			
UniRef90_Q97699	V N P G L L E T S E G C C R Q I	M N Q X Q P X I L X T G T G S E E E I I R S S L F N T V V T L			
UniRef90_Q5WPR1	I N P G L L E T S E G C C R Q I	M G Q Q L Q P S I I X T G T G S E E E I I K S S L Y N T V A T L			
UniRef90_Q315W0	L N P G L L E S G E G C C Q Q I	M Q Q L Q P S X I X T G T G S E E E I I K S S L Y N T V A T L			
UniRef90_B9A2X9	X N P G L L E T S E G C C K Q I	X E Q L Q P A I L X T G T G S E E E I I X S S L Y N T V A V L			
UniRef90_Q5G5S7	L N P G L L E T S E G C C Q Q I	I E Q L Q P S T L X T G T G S E E E I I K S S L F N T V A T L			
UniRef90_Q89503	L N P G L L K T A E G C C Q Q I	M E Q L Q P S A I L X T G T G S E E E I I K S S L F N T V A T L			
UniRef90_B9A3E3	L N P G L L E T S X G C C K Q I	X I X Q L Q P S L P T G T G S E E E I I R S S L X N A V A V L			
UniRef90_W0GTR6	L N P G L L E T T S E G C C K Q I	M I Q L Q P A I L X T G T G S E E E I I R S S L Y N T V A T L			
UniRef90_Q5G5R4	L N P G L L E T G E G C C Q Q I	I E Q L Q P S T L X T G T G S E E E I I K S S L Y N T V A T L			
UniRef90_S4ST52	C N P G L M E T G E G C C Q Q I	E Q R L Q P A I L X T G T G S E E E G F R S S L F N T V V V L			
UniRef90_Q5QCW4	L A P G L L E T A E G C C R Q I	I K Q L Q P A I L X T G T G S E E E I I L I S S L Y N T V A T L			
UniRef90_A1ECL6	L N P G L L K T A K G C C Q Q I	I K Q L Q P Q A F I X T G S K K I L K S S L F N T V A T L			
UniRef90_A5U6U9	L N P G L L E T G D G C C K Q I	M E Q L Q P P S L I X T G T G S E E E I I L K S S L F N T V A T L			
UniRef90_C8C6F4	X N P G L L E T A E G C C R Q I	L G Q L Q P S I I X T G T G S E E E I I L K S S L Y N T V A T L			
UniRef90_Q5Q9E9	L N P S L L E T A E G C C Q Q I	I E Q L Q P S A I L X T G T G S E E E I I L K S S L Y N T V A T L			
UniRef90_Q97707	V N P G L L E T S E G C C R Q I	I L E E Q L Q P S I I X T G T G S E E E I I L R S S L F N P I A T L			
UniRef90_Q5Q9D0	V N P G L L E T S G G G C R Q I	M E Q Q L Q P P A I I X T G T G S E E E I I K S S L Y N T V A T L			
UniRef90_C1JH98	V N P G L L E T A E G C C Q Q A	I E Q I L Q P A I I X T G T G S E E E I I K S S L Y N T I A T L			
UniRef90_Q5K6J7	C D P G L M E T K E G Y Q Y Q L L K Q L E P A I L X T G G S E E G I L R S S L F N T I A V L				

90 100 110

QUERY	W C I H A E E K V K H T E E A K Q I V Q R H L V V E T G T A E T M P
UniRef90_Q90DU8	Y C V H Q R I E V K D T K E A L D K I E Q Q A A A D K G S S Q N Y P
UniRef90_Q5U6U5	Y C V H Q R I E I K D T K E A L D K I E Q Q A A A A T G N S Q N Y P
UniRef90_E0WWG8	Y C V H Q R I D V K D T K E A L D K I E Q Q A V A D T G N S Q N Y P
UniRef90_A3DTT9	Y C V H T G I D V Q D T K E A L D K I E Q Q T A A D T G N S Q N Y P
UniRef90_C8C612	W C V H Q R I D V K D T K E A L D K I E A E Q N K S T G N S Q N Y P
UniRef90_B6DR96	F C V H Q R I E V K D T K E A L D K I E E E Q N S Q A S V S Q N Y P
UniRef90_C1JJQ3	Y C V H Q R I D V K D T K E A L D K I E E A A A T G T G S S Q N Y P
UniRef90_K0GIS2	W C V H Q R I D V K D T K E A L D K I E E E Q A K S K K K S S Q N Y P
UniRef90_C3VAF2	Y C V H E R I Q V A D T K E A L D K I E E E Q A K S K K K S S Q N Y P
UniRef90_U6BFX8	Y C V H K R I E V K D T K E A L D K I E E M Q N K S Q K K V S Q N Y P
UniRef90_Q2HP20	Y C V H R K I E I R D T K E A L D K I E A E E Q S K Q K K V S Q N Y P
UniRef90_C1JH71	Y C V H A G I E V R D T K E A L D K I E E E Q Q H K S Q Q K T Q
UniRef90_Q9IDA5	Y C V H Q R I K V Q D T K E A V D K I E E E Q N K S K Q K S S Q N Y P
UniRef90_I6QT39	Y C V H Q R I E V K D T K E A L D K I E E E Q N K S Q K V S Q N Y P
UniRef90_C7ASF9	Y C V H Q R I E I K D T K E A L D K I E E E M Q N K S Q K V S Q N Y P
UniRef90_A0MPQ0	Y C V H C K I E V K D T K E A L D K I E E E Q N K S K K K A Q N Y P
UniRef90_V9QIF4	Y C V H A R I E V K D T K E A L D K I K E Q T A A D T G N S S N Y P
UniRef90_C3VA11	Y C V H A G I G V R D T K E A L D K I E E E Q H A D G K V S Q N Y P
UniRef90_P04588	Y C V H Q R I D V K D T K E A L D K I E E E Q N K S R Q K S S Q N Y P
UniRef90_Q9Q721	Y C V H Q R I D V K D T K E A L D K I E E I I Q N K N K Q R T Q A P
UniRef90_B3FLH8	Y C V H Q R I D V K D T K E A L D K I E E E Q N X S K K V S Q N Y P
UniRef90_B9V6Z5	W C V H Q R I E I R D T K E A L D K I V E E A Q T A T G S S S S Q N Y P
UniRef90_C7AS92	Y C V H K K I E V R D T K E A L D K I Q Q A E A A D K G K S S Q N Y P
UniRef90_C3VAG0	Y C V H Q R I E V R D T K E A L X K I E E E N A G N S S N V I S Q N Y P
UniRef90_M4PE84	Y C V H T N V P V R D T K E A L D R I E E E Q K A D G K V S Q N Y P
UniRef90_F2XYD5	Y C V H N K V D V R D T Q E A L D G K I E E E Q N K S Q Q K S S Q N Y P
UniRef90_F5CG56	Y C V H Q N I E V K D T Q E A L D R I K E E Q N K S Q Q S V S Q N Y P
UniRef90_C8C566	Y C V H Q R I E I K D T K E A L D K I E E E Q T K S K S V S S Q N Y P
UniRef90_C7ASF2	Y C V H Q G I E V R D T K E A X D R I E E E E Q A D K G K V S S Q N Y P
UniRef90_D2DG24	Y C V H Q R I D V K D T K E A L D K I E E E A G N N S Q V I S Q N Y P
UniRef90_B2ZZK2	Y C V H Q R I E V K D T K E A L D K I K E E Q S K S K K V S Q N Y P
UniRef90_W0GTL1	Y C V H E K I E V K D T K E A L D K I E E Q Q A A A D T G N S S S Q N Y P
UniRef90_W0GPQ9	Y C V H Q R I D I K D T K E A L D K I E E E Q A K A D T G S S S Q N Y P
UniRef90_Q5WPS1	Y C V H Q R I D V R D T K E A L D K I E E E I K N K G K P K A Q K
UniRef90_B7SGW2	Y C V H E K I D V R D T K E A L D K I E E E K A A D E K V S Q N Y P
UniRef90_C5HAA6	Y C V H A G I G I K D T K E A L D K I E E I I Q N K S K Q K T Q
UniRef90_C4MID6	Y C V H Q R I E I K D T K E A L D K I E E M Q N K S T G C S Q N Y P
UniRef90_F6KLD8	Y C V H Q R I M G V K D T K E A L D K I E E Q H A A A D T G N S S Q N Y P
UniRef90_C8C5V8	F C V H Q R I E I T D T K E A L D K I E E E Q N
UniRef90_B3FMK3	Y C V H X N I Q V K D T K E A L D X I E E X E Q N K S X A V S Q N Y P
UniRef90_Q9WC53	Y C V H Q R I E I K D T M E A L E E K I E E I I Q N K N K Q Q A Q K
UniRef90_C8C5M3	Y C V H Q R I X V K D T K E A L E K X X Q Q A A A D T G N S S S Q N Y P
UniRef90_A0ZTM0	Y Y V H K N I K V K D T K E A L D K I E E E K A E D G K V S Q N Y P
UniRef90_Q315S9	W Y V H Q R I K V K D T K E A L D K I E E Q Q A A V V S T G C S Q N Y P
UniRef90_Q1KYG1	Y C V H E R I K V T N T R E A L D R I E E E Q T K S K K V I S Q N Y P
UniRef90_Q6B9R6	Y C V H Q K I E I R D T K E A L D K I E E E Q A D K G K V S Q N Y P
UniRef90_B6DR68	Y C V H Q K I E V V D T K E A L D X I I E E Q Q A A G T G N S S Q N X P
UniRef90_C9DUB4	Y C V H E R I E V V D T K E A L D X I K E E Q Q A D K G K V S Q N Y P
UniRef90_B2CJH4	Y C V H Q N X D V K D T K E A L E X X V I E E Q N K S K K X S S Q N Y P
UniRef90_C7SBS3	W C V H Q R I D I K D T K E A L D K I I E E Q Q A A A A T G S S S S Q N Y P
UniRef90_C6L4E0	W C V H Q R I M G V K D T K E A L D K I V E E Q Q A A A A T G S S S S Q N Y P
UniRef90_A9PYE6	Y C V H Q K I D V K D T K E A I D Q I I E E Q Q A A A A D T G N S S S Q N Y P
UniRef90_I6ZD86	Y C V H Q R I E I V K D T T E A L E V V I E E Q Q A Q K T T E K G N S S Q N Y P
UniRef90_C8C6F8	Y C V H Q E I E V R D T K E A L D K I I E E E Q N K S K K K A Q
UniRef90_A9PY10	Y W V H Q R I V D V K D T K E A L D D K L I E E Q Q A A A N N K V I S Q N Y
UniRef90_I3WKY7	Y C V H H R I D I K D T T E A L H K I K E E Q Q K K S Q R K T Q
UniRef90_O41798	Y C V H Q K I D V K D T K E A V E E K I I E E Q Q A A K N E G N S S Q N Y P
UniRef90_Q6B9R5	Y C V H Q Q I D V R D T K E A L D K I I E Q Q T A A D T G N S S S Q N Y P
UniRef90_F6KL47	Y C V H Q K I D V V D T K D A L D D K I I E E Q Q A A A D T G S S S S Q N Y P
UniRef90_F6KLB1	Y C V H Q R I E V K D T K E A L D K I I E E Q Q A T A D T K N S S Q N Y P
UniRef90_C9DUJ0	Y C V H A R I K V T D T K E A L D D K I I E E Q Q A T A D T G N S S S Q N Y P
UniRef90_F6KKX2	Y C V H Q Q I D V K D T K E A L D K I I E Q Q A T A D T G N S S S Q N Y P
UniRef90_D3TVU9	Y C V H Q G I E I K D T T K E F L D D K I I E E E Q A K S K K K K A Q
UniRef90_F6KL44	Y C V H E R I Q V T D T K E A L D D K I I E E E Q T K N K K K K A Q
UniRef90_Q8AFA8	Y C V H Q R I D V K D T K E A L E K P I E E K Q Q A A D E G T T A K
UniRef90_E2IRL0	Y C V H X X I X V R D T K E A L D K I I E E E Q Q A D X K V S Q N Y P
UniRef90_B3FM21	Y C V H X X I E V K D T K E A L D X I I E E E Q X K S K Q V I S Q N Y P
UniRef90_C5I8U7	Y C V H Q K I E V K D T K E A L D K I I E Q Q A A A D T G N S S Q N F P
UniRef90_F5CG90	Y W V H Q K I D V K D T Q E A F D R I I E E E Q N
UniRef90_C4MIQ9	Y C V H Q R I E V R D T K E A L E E K I I E E E Q N K D T G N S S Q N Y P
UniRef90_B6DQY9	Y C V H Q K I D V K D T K E A L D K I V E E Q Q A A A D A G K S S Q N Y P
UniRef90_E2IR58	Y C V H X X I X X D T K E A L D K I I E E Q Q A A A A D A G K S S Q N Y P
UniRef90_Q97699	Y C V H Q K I D V R D T K E A L D K I I E E E Q Q A A A A D A G K S S Q N Y P
UniRef90_Q5WPR1	Y C V H Q R I D V Q D T K A A L G K I I E E K R A A X D K E N S Q N F P
UniRef90_Q315W0	Y C V H Q R I E X K D T K E A L D A V I E E K I I Q K X S Q Q G T Q K
UniRef90_B9A2X9	Y C V H R X I D V K D T K E A L D K I I E E Q S K S K K K A Q
UniRef90_Q5G5S7	W C V H P R D K V N E T T E A L D D K I I E E Q Q A A A G T G V S Y N Y P
UniRef90_Q89503	Y C V H Q K I N V K D T K E A L D K A A A A T E N S S K V S S Q N Y P
UniRef90_B9A3E3	Y C V H Q R I E V K D T K E A L D K I I E E E Q Q A A A A T E N S S K V S Q N Y P
UniRef90_W0GTR6	Y C V H E K I G V R D T K E A L D K I V N E I Q A D K E K V S Q N Y P
UniRef90_Q5G5R4	W C V H Q G I K V N D T K E A L D K I I E E Q Q A A A G T G S S S K V S Q N Y P
UniRef90_S4ST52	W C V H Q R I Q V K D T K E A L D Q I A A A A T A A D S S V I S R N Y P
UniRef90_Q5QCW4	Y C V H Q K I E I R D T K E A L D K I I Q Q A E A A D K E K I S Q N Y P
UniRef90_A1ECL6	Y C V H Q R I K V K D T K G A V N T I K E M Q N
UniRef90_Q5U6U9	Y C V H Q G I E V K D T K E A L D K R K E Q A K D T T G S S S Q N Y P
UniRef90_C8C6F4	Y C V H Q N I E V R D T K E A L D Q I V E K E Q N N S G X V I S Q B Y P
UniRef90_Q5Q9E9	Y C V H Q K I E V K D Q N K S K Q K T Q Q A A A A D T G S S S Q N Y P
UniRef90_Q97707	Y C V H Q R I D V K X P K E A L E K I I E E X Q T K S
UniRef90_Q5Q9D0	Y C V H E G I K V T D T K E A L D K I I E E E Q N
UniRef90_C1JH98	Y C V H Q R I D V K D T K E A L D K I I E E E Q N
UniRef90_Q5K6J7	W C V H A R I E V E D T Q Q A L D Q K L I K E

UniRef90_Q9DQN2	1	10	20	30	40
UniRef90_A2I388		WE K I R L R P G G K K K Y R L K H V W A S R E L E R F A			
UniRef90_C8C5J2	S V L S G G K L D A W E K I R L R P G G K K K Y R L K H V W A S R E L E R F A				
UniRef90_A2I396		WE K I R L R P G G K K K Y R L K H V W A S R E L E R F A			
UniRef90_V9XQP6	S V L S G G X L B K W E K I R L R P G G K K K Y R L K H V W A S R E L E R F A				
UniRef90_B5DC24	S I L T G G K L D A W E K I R L R P G G K K Q Y K L K H V W A S R E L E R F A				
UniRef90_E2GBL8	S I L R G E K L D A W E K I R L R P G G K K Q Y M L K H V W A S R E L E K F A				
UniRef90_W0GUW0	S V L S G G K L D Q X E K I R L R P G G K K H Y X L K H V W A S R E L E R F A				
UniRef90_C9DW5	S V L S G G K L N A W E K I R L R P G G K K K Y R M K L H V W A S R E L E K F A				
UniRef90_F6MGE0	S I L R G G K L D K W E K I R L R P G G K K H Y H L K H V W A S R E L E M E R F A				
UniRef90_F6KL27		M G K N S A R P G G K K R Y R L K H I V W A S R E L E R F A			
UniRef90_B9A337	S I L S G G E L D R W E K I R L R P G G K K K Y K L K H V W A S R E L E R F A				
UniRef90_R4H6R4	S I L X G G K L D N W E R I K L R P G G K K H Y M I K H V W A S R E L E R F A				
UniRef90_A4LAG0		L R P G G K K K Y R L K H V W A S R E L E R F A			
UniRef90_Q5U6T9	S V L S G G N L D K W E K I R L R P G G K K H Y R M K L H V W A S R E L E D R F A				
UniRef90_A3F4E6		WE K I R L R P G G K K K Y R M K X L X H V W A S R E L E R F A			
UniRef90_B3FLY6	S I L S G G E L D T W E K I R L R P G G K K K Y K L K H V W A S R E L E R F A				
UniRef90_C7AS87	S I L X G G K L D T W E R I K L R P G G K K H Y M I K H V W A S R E L E R F A				
UniRef90_A8V139		L R P G G K K K Y R L K H V W A S R E L E R F A			
UniRef90_B4YV52	S V L S G G K L D A W E R I R L R P G G K K H Y R L K H V W A S R E L E R F A				
UniRef90_F6KLD4		L R P G G K K K Y R M K L H V W A S R E L E R F A			
UniRef90_A9PLX9	S V L S G G N L D K W E K I R L R P G G K K K Y R M K L H V W A S R E L E D R F A				
UniRef90_A2I348		WE K I R L R P G G K K K Y K L K H V W A S R E L E R F A			
UniRef90_A8V0S7	S V L T G S K L D A W E R I R L R P G S K K A Y R L K H V W A S R E L E R F A				
UniRef90_Q79665	S V L S G G K L D A W E K I R L R P G G K K K Y R L K H V W A S R E L E R F A				
UniRef90_Q3I5Y3	S X L S G G E L D X W E X I R L R P G G K K K Y R L K H I V W A S R E L E R F A				
UniRef90_B9A2A0	S V L T G S K L D A W E K I R L R P G S K K K Y R L K H I V W A S R E L E R F A				
UniRef90_Q6Y930	S I L R G G K L D K W E K I R L R P G G K K K Y R L K H I V W A S R E L E R F A				
UniRef90_D3JJR9	S I L S G G K L D A W E K I R L R P G G K K K Y Q L K H I V W A S R E L E R F A				
UniRef90_M9NZI2	S V I S G G K L D Q W E R I R L R P G G K K K Y R I K H V W A S R E L E R F A				
UniRef90_F6KLG4	S I L S G G K L D A W E R I K L R P G G K K H Y M L K H V W A S R E L E R F A				
UniRef90_M4MZN7	S V I S G G K L D Q W E R I R L R P G G S K K A Y R L K H V W A S R E L E R F A				
UniRef90_Q97710	S I L S G G K L D A W E R I K L R P G G K K H Y M L K H V W A S R E L E R F A				
UniRef90_C3TWA0	S V L S G G E L D K W E K I R L R P G G K K R Y K L K H I I V W A S R E L E R F A				
UniRef90_B0FBM2	S V L S G G K L D Q W E R I R L R P G G K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_W0GPE9	S V L S G G K L D T W E R I R L R P G G K K H Y M L K H V W A S R E L E R F A				
UniRef90_W0GT37	G K L D A W E K I R L R P G G K K K Y R L K H V W A G R E L E R F A				
UniRef90_C8XQG2	S V L S G G K L D A W E K I R L R P G G K K K Y R L K H I V W A S R E L E R F A				
UniRef90_C7ARK5	S I L S G G K L D K W E K I K L R P G G K K K Y R M L K H V W A S R E L E R F A				
UniRef90_Q5WP2R	V L R G G K L D T W E K I R L R P G G G R K K Y R L K H V W A S R E L E R F A				
UniRef90_C51A1		K P G G K K N Y M M K H V W A S R E L E R F A			
UniRef90_B9A2A3	S V L R G G D L D R W E R I R L R P G G K K Q Y R L K H I V W A S R E L E R F A				
UniRef90_Q59II6	S I L R G G K L D S W E R I K L R P G G K K H Y M L K H V W A S R E L E R F A				
UniRef90_A0ZT15	S L L R G E K L D K W E K I R L R P G G K K R Y M L K H V W A S R E L E R F A				
UniRef90_B8XBN3	S V L K G D K L D T W E R I R L R P G G K K H Y M L K H V W A S R E L E R F A				
UniRef90_E2IS78	S V L R G G K L D T W E K I R L R P G G K K K Y Q L K H I V W A S R E L E R F A				
UniRef90_E7CYZ1		K P G G K K N Y M M K H V W A S R E L E R F A			
UniRef90_I3WL06	V L I G G K L N A W V K I R L R P G G K K K Y M L T H L V W A S R E L E R F A				
UniRef90_A0ZT10	S I L R G G K L D K W E K I R L R P G G K K K Y M L K H I V W A S R E L E R F A				
UniRef90_Q9YWS8		G K K K Y Q L K H I V W A S R E L E R F A			
UniRef90_Q6EZD9	S L L S G K K L D A W E S V R L R P G G K K K Y M L K H I V W A C K K L N K F G				
UniRef90_Q59IB5	S I L R G G K L D K W E K I G L R P G G K K R Y R L K H I V W A S R E L E R F A				
UniRef90_L8B318	S V L S G K K T D E L E K V R L R P G G K K K Y V L K H I I V W A A N E L D R F G				
UniRef90_Q3LXH3	S V L S G E K L N K W K K I R L R P G R K K K Y K L K H I I V W A S R E L E R F A				
UniRef90_W0GTS5	S V L G K L D T W E K I R L R P G G K K F Y M L K H I I V W A S R E L E R F A				
UniRef90_O55388	S I L K G K E L D T W E R I R L R P G G K K H Y M L K H I I V W A S R E L E R F A				
UniRef90_B9V6X8	S V L R G V K L D N W E R I R L R P G G K K H Y R L K H I I V W A S R E L E E K F A				
UniRef90_F5CSG2	S V L S G G K L D T W E K I R L R P G G K K K Y R L K H I I V W A S R E L E D R F A				
UniRef90_W0GV59	S V L G K L D M W E K I R L R P G G K K K Y R L K H I I V W A S R E L E D R F A				
UniRef90_V9XUA4		G K K K Y R L K H I I V W A S R E L E D R F A			
UniRef90_W0GUU9	G G K L D E W E R I K L R P G G K K H Y M I K H V W A S R E L E R F A				
UniRef90_A0ZTM4	S I L R G E K L D A W E H V K L R P G X R K Y R M L K H V W A S R E L E R F A				
UniRef90_F6KVK4	G K L D A W E R I Q L R P G G K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_W0GQK2		G K K K Y R L K H I I V W A S R E L E R F A			
UniRef90_W0GQ01	S V L S G G E L D R W E K I R L R P G G K K K Y R M K H I I V W A S R E L E R F A				
UniRef90_Q9EN90		G G K K K Y R M K H I I V W A S R E L E R F A			
UniRef90_B3FLV1	S V F R G E K L D T W E S V R L R P G G K K K Y M I K H I V W A G T E E L Q R F A				
UniRef90_J3SGI9	S V L R G E K L D R W E S V R L R P G G K K K Y L I K H I V W A G N E E L Q R F A				
UniRef90_J7FDM3		G K E A Y K L I K H I V W A G N Q L I Q R F A			
UniRef90_Q9WSK9	S V L R G E K L D T W E S V R L R P G G K K K Y L I K H I V W A S R E L E R F A				
UniRef90_J7FER1	S V L R G D K L D T W E S V R L R P G G R K K Y L I K H I V W A S R E L E R F A				
UniRef90_A51GP3		M K H I I V W A S R E L E R F A			
UniRef90_L7PDR9	S V L X G X X L B X X E K I R L R P G G K K K Y K L H I I V W A S R E L E R F A				
UniRef90_C8C6M3	S V L S G G K L D D W E K I R L R P G G K K K Y K L H I I V W A S R E L E R F A				
UniRef90_A9PNR1		G G K K K Y K L H I I V W A S R E L E R F A			
UniRef90_O36810	S V L S G G K L D H W E K I R L R P G G K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_D6NT15	S V L S G G K L D H W E K I R L R P G G K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_Q906B2		G G K K K Y Q L K H I I V W A S R E L E R F A			
UniRef90_E2IS62	S I L R G E K L D K W E K I R L R P G G K K R Y X L K H I I V W A S R E L E R F A				
UniRef90_Q6Y8T2	S V L K G S K L D A W E Q I R L R P G S K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_Q7ZPU5	V R P G G K K Q Y K L K H I I V W A S R E L E R F A				
UniRef90_Q77WQ9		M I K H I I V W A S R E L E R F A			
UniRef90_F6KLJ0	S I L K G G K L D A W E R I R L R P G G K K K Y R L K H I I V W T A C Q G E				
UniRef90_D3JJR7	S V L S G G K L D K W E R I R L R P G G K K T Y K I K H I I V W A S R E L E R F A				
UniRef90_S5RUH3		R I K H I I V W A S R E L E R F A			
UniRef90_D3TVX6	S V L S G S K L D A W E K I K L R P G S K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_Q8US94		R I K H I I V W A S R E L E R F A			
UniRef90_D1KND7	S I L K G G K L D A W E R I R L R P G G K K K Y R L K H I I V W A S R E L E R F A				
UniRef90_A2I3P0		E R I K H I I V W A S R E L E R F A			
UniRef90_Q9IN84	S V L S G G K L D K W E R I R L R P G G K K Q Y R L K H I I V W A S R E L E R F A				
UniRef90_Q9IM19		G G R K K K Y R M K H I I V W A S R E L E R F A			
UniRef90_V5KFR4	S V L S G G K L D A W E Q I R L R P G G K K Q Y K L K H I I V W A S R E L E R F A				

			50		60		70		80
UniRef90_Q9DQN2	N P G	L L E T A E G C Q Q I	C	M E Q I	P A L R T G S E E E	L K S S L F N T I L A T L			
UniRef90_A2I388	N P G	L L E T A E G C Q Q I	G	I E Q I	P T L K T G S E E E	R S S L F N T I V T L			
UniRef90_C8C5J2	N P G	L L E T A E G C Q Q I	C	I G Q I	P S I L Q T G S E E E	K S S L F N T I V A V L			
UniRef90_A2I396	N P G	L L E T A E G C Q Q I	C	I E Q I	S T L K T G S E E E	V Y N S V V T L			
UniRef90_V9XQP6	V N X G L	L L E S A E G C R Q I	C	L X Q L	P A X K T G S E E E	L K S S L F N T V A T L			
UniRef90_B5DC24	V X P G L	X E T S X G C R Q I	C	L G X L	P A L Q T G S E E E	X S S L Y N T V A T L			
UniRef90_E2GBL8	L N P G L	L L E T S X G C R Q I	C	M I Q L	P A L Q T G S E E E	F K S S X Y N T V A T L			
UniRef90_W0GUW0	I N P G L	L L E T S X G C R Q I	C	I G Q L	P A I Q T G S E E E	L K S S L Y N T V A T L			
UniRef90_C9DW5	I N P G L	L L E T S E G C K Q I	C	M G Q L	P A I Q T G S E E E	R S S L Y N T I A T L			
UniRef90_F6MGE0	I N P G L	L L E T A G C C K Q I	C	M K Q L	P A L Q T G T E E E	K S S L F N T I V A T L			
UniRef90_F6KL27	L N P G L	L L E T S E G C C K Q I	C	M K Q L	P A L Q T G T E E E	F N T I V A X L			
UniRef90_B9A337	L N P G L	L L E T G E E C C Q Q I	C	M D Q X	P A F K T G X E E E	K S S L Y N A V A V L			
UniRef90_R4H6R4	I N P G L	L L E S G K E C C Q Q I	C	I E Q L	P S T L K T G S E E E	R S S L F N T V A T L			
UniRef90_A4LAG0	L N P G L	L L E T A D G C C R Q I	C	I K Q L	P S L Q T G S E E E	K S S L Y N T V A T L			
UniRef90_Q5U679	L N P G L	L L E T S E G C C K Q I	C	M G Q L	P A L Q T G S E E E	R S S L Y N T V A T L			
UniRef90_A3F4E6	L N P G L	L L E X A E G C Q Q I	C	L X Q L	P S L Q T G S E E E	K S S L Y N T V A V L			
UniRef90_B3FLY6	V N P G L	L L E T S E G C C R Q I	C	L X Q L	P A X X T G T E E E	X S S L F N T V A T L			
UniRef90_C7AS87	L N P G L	X E T X E E G C X Q I	C	X Q Q L	P A X X T G T E E E	X S S L F N T V A T L			
UniRef90_A8V139	L N P G L	L L E T S E G C C K Q I	C	I G Q L	P T I K T G S E E E	K S S L Y N T V A T L			
UniRef90_B4YV52	L N P G L	L L E T A E G C C K Q I	C	I G Q L	P S T L K T G S E E E	K S S L Y N T V A T L			
UniRef90_F6KLD4	L N P G L	L L E T S E G C C K Q I	C	I R Q L	P A L R T G T E E E	K S S L F N T V A T L			
UniRef90_A9PLX9	L N P S S	L L E T S I G C Q Q I	C	M E K L	P A L R T G T E E E	K S S L F N T V A T L			
UniRef90_A2I348	L N P G L	L L E S A E G C C Q Q I	C	I E Q L	P S T L K T G S E E E	K S S L Y N T V A T L			
UniRef90_A8V0S7	L N P G L	L L E T T G G E C T E Q I	C	M E Q L	P S T L K T G S E E E	K S S L Y N T V A V L			
UniRef90_Q79665	C N P G L	L L E T A E G T E Q I	C	L Q Q L	P A L K T G S E E E	K S S L W N A I A V L			
UniRef90_Q3I5Y3	L N P S S	L L E T T E G C Q Q I	C	M K Q L	P S A L G T G S E E E	K S S L Y N A V A V L			
UniRef90_B9A2A0	V N P G L	L L E T X E G C R Q I	C	I G X L	Q X S L Q T G S E E E	R S S L Y N T V A V L			
UniRef90_Q6Y930	C N P G L	L L E Y A E G N E Q Q I	C	L Q Q L	P A L A T G S E E E	K S S L W N L A V L			
UniRef90_D3JJR9	L N P G L	L L E T A E G C C K Q I	C	I Q Q L	N P A L K T G T E E E	K S S L F N T V A T L			
UniRef90_M9NZ12	L N P G L	L L E T A E G C C Q Q I	C	I Q Q L	P S T L K T G S E E E	K S S L Y N A V A T L			
UniRef90_F6KLG4	L N P D L	L L E T A E G C C Q Q I	C	I E Q L	P A L R T G T E E E	R S S L F N T V A T L			
UniRef90_M4MZN7	V N P G L	L L E T S E G C C R Q I	C	L V Q L	P A L Q T G S E E E	N L K S S L H N T V A V L			
UniRef90_Q97710	L N P G L	L L E T A E G C C Q Q I	C	A M G Q L	P A L Q T G S E E E	K S S L Y N T I A T L			
UniRef90_C3TWA0	V N P S S	L L E T T E G C R Q I	C	L K Q L	P S L Q T G S E E E	K S S L W N T I A V L			
UniRef90_B0FBM2	V D P G L	L L E T A E G C C R Q I	C	L G Q L	P A L P T G S E E E	K S S L V F N T V A V L			
UniRef90_W0GPE9	L N P G L	L L E T A E G C C K Q I	C	M T Q L	P A L Q T G S E E E	K S S L Y N T V A T L			
UniRef90_W0GT37	L N P G L	L L E T S E G C C K Q I	C	M G Q L	P A I K T G S E E E	K S S L Y N T V A T L			
UniRef90_C8XQG2	V N P G L	L L E T A X G C C R Q I	C	I K Q L	H P S L Q T G S E E E	K S S L Y N T V A V L			
UniRef90_C7ARK5	L N S D L	L L E S A E G G C R Q I	C	X K Q L	H P A L Q T G T E E E	R S S L F N T V A V L			
UniRef90_Q5WPR2	L N P G L	L L E T S E G C C Q Q I	C	I Q Q L	P A L K T G T E E E	R S S L Y N T V A T L			
UniRef90_C5I3A1	L N P G L	L L E T S E E G C Q Q I	C	M E Q L	E S A L K T G T E E E	R S S L F N T V A T L			
UniRef90_B9A2A3	V N P G L	L L E T S E G C C R Q I	C	I G Q L	P X L Q T G S E E E	R S S L F N T I A V L			
UniRef90_Q59I16	L N P D L	L L E T S E G C C K Q I	C	M K Q L	P A L Q T G T E E E	K S S L F N T V A T L			
UniRef90_A0ZTI5	L N P G L	L L E T S E G C C R Q I	C	I R Q L	P A L Q T G T E E G L	K S S L Y N T V A V L			
UniRef90_B8XBN3	L N P G L	L L E T G E E G C K Q I	C	I S Q L	P A L K T G T E E E	R S S L Y N T V A T L			
UniRef90_E2IS78	L N P X G L	L L E T S E G C C K Q I	C	X K Q L	P A L Q T G T E E E	K S S L Y N A X A V L			
UniRef90_E7CYZ1	L D P G L	L L E T S G G G C K Q I	C	I R Q L	P A L Q T G T K E E L	I S L H N T V A V L			
UniRef90_J3WL06	L N P G L	F E S A K G W L Q	C	I K Q L	P T L P S G S E E E	T S L Y N T L A T L			
UniRef90_A0ZT10	L N P G L	L L E T A E G C C K Q I	C	M E Q L	P A L K T G S E E E	K S S L F N T L A T L			
UniRef90_Q9YWS8	L N P G L	L L E T S E G C C K Q I	C	M R Q L	P S I Q T G S E E G M K S S L Y N A V A V L				
UniRef90_Q6EZD9	L S D H	L L E T A T G C C E K I	C	L G V L	P L V P T G S S E E G L K S S L F N L C C V L				
UniRef90_Q59IB5	L N P G L	L L E T S E G C C K Q I	C	L Q Q L	P N L Q T G S S E E E	K S S L F N T V A T L			
UniRef90_L8B318	L A E S L	L L E T K E G G C K Q I	C	L T A L	A P L M P T G S E E E	K S S L F N T V C V I			
UniRef90_Q3LXH3	V N P G L	L L E T S E S C C K Q Q I	C	L E Q L	P A L Q T G S E E E	K S S L Y N T V A T L			
UniRef90_W0GTS5	L N P G L	L L E T P E E G C C R Q I	C	I K Q L	P A L Q T G T E E E	R S S L Y N T V A T L			
UniRef90_O55388	L N P G L	L L E T A E G C C R Q I	C	I Q Q L	R P A L Q T G T E E E	R S S L Y N T V A T L			
UniRef90_B9V6X8	L N P G L	L L E T A E G C C K Q I	C	M V Q L	P A L Q T A S E E E	R S S L Y N T V A T L			
UniRef90_F5CSG2	L N P G L	L L E T A E G C C K Q I	C	I G Q L	H P A I H T G S E E E	K S S L Y N T V A T L			
UniRef90_W0GV59	L N P S S	L L E N A E G C C Q Q I	C	L E K L	E T A L D T G T E E E	K S S L Y N T V A T L			
UniRef90_V9XUA4	V N P G X	L L E T S E G C C X Q I	C	L E Q L	P A L K T G S E E E	R S S L F N T V A V L			
UniRef90_W0GUU9	L N P S L	L L E T S E G C C K Q I	C	I Q Q L	P A I Q T G T E E E	R S S L Y N T V A T L			
UniRef90_A0ZTM4	L N P S S	L L E T S E G C C Q Q I	C	M R Q L	P A I Q T G T E E E	R S S L Y N T V A T L			
UniRef90_F6KKV4	I N P S S	L L E T T E G C C Q Q I	C	I Q Q L	S T V Q T G T E E E	R S S L Y N T I V V L			
UniRef90_W0GQK2	L N P S S	L L E S A E G C C Q Q I	C	I E Q L	P A I K T G T E E G I	R S S L N N A V A V L			
UniRef90_W0GQ01	L N P G L	L L E T S E G G C R R I	C	I E Q L	P A L K T G S E E E	Q S S L Y N T V A T L			
UniRef90_Q9EN90	L N P G L	L L E T S E G C C Q Q I	C	M S Q S L	P A L Q T G T E E E	Q S S L F N T V A T L			
UniRef90_B3FLV1	X N P G L	L L E T A E G C C X Q I	C	X E Q L	Q X A L X T G S E E E	K S S L Y N X V A V L			
UniRef90_J3SGI9	X N P G L	M E T S E G C E K I	C	I W Q L	N P S V E I I G S P E E I	V S S L F N T I C V M			
UniRef90_J7FDM3	L N P G L	M E T A D G C R K I	C	I M Q L	S P V E I I G S P E E I	I S L F N T I A V L			
UniRef90_Q9WSK9	V N P G L	L L E T A E G C C R Q I	C	I E Q L	S P A L K T G S E E E	R S S L F N T V A T L			
UniRef90_J7FER1	L N P G L	M E T K E G C C E K I	C	I T Q L	S P V E I I G S P E E I	V S S L Y N T I C V L			
UniRef90_A5JGP3	M N P G L	M E N V E G C W K I	C	I L Q L	P S V D I L G S P E E I	I S S L F N T I C V L			
UniRef90_L7PDR9	L N P G L	L E T K E G C C Q Q I	C	M E Q L	Q S A L N T G T E E D L	R S S L F N T I A V L			
UniRef90_C8C6M3	V N P G L	L L E T A E G C C K Q I	C	L V Q L	R P S L Q T G T E E L	H X T V A T L			
UniRef90_A9PNR1	L D P S L	L L E T S E G C C R Q I	C	M G Q L	R P A I I Q T G T K E E V	K S S L Y N T V A T L			
UniRef90_O36810	V N P G L	L L E T S G G G C K Q I	C	L E Q L	P A I Q T G S E E E	K S S L Y N T V A T L			
UniRef90_D6NT15	L X P G L	L L E T K E G C C K Q I	C	I A A V Q	P S I L Q T G S E E E	K S S L Y N A V V V L			
UniRef90_Q906B2	V N P G L	L L E T S E G C C X X I	C	L R Q L	P S I L Q T G S E E E	K S S L Y N T V A T L			
UniRef90_E2IS62	L N P G L	L L E T S E G C C X X I	C	X K Q L	X P A X X T G T E E E	I N S S L F N T V A T L			
UniRef90_Q6Y8T2	C N P E	L L E T A E G N E K I	C	L Q Q L	E P A L K T G S D E S L	Q S S L W N T I V V L			
UniRef90_Q7ZPU5	V N P G L	L L E T A E G C C R K I	C	L G Q L	H S S L Q T G S E E E	K S S L Y N T V A T L			
UniRef90_Q77WQ9	V N P G L	L L E T S E G G C K Q I	C	L G Q L	Q P A L K T G S E E E	K S S L Y N T I A V L			
UniRef90_F6KJL0	L N P S L	L L E T A E G C C K Q I	C	I Q Q L	P A L K T G T E E E	X R S S L F N T V A T X			
UniRef90_D3JJR7	L N S G L	L L E T A E G C C K Q I	C	I Q Q L	P A L K T G T E E E	L R S S L Y N T V A T L			
UniRef90_S5RUH3	V N P G L	L L E S A G G G C R Q I	C	I E Q L	P X L K T G S E E E	L Q S S L X N T X X X L			
UniRef90_D3TXV6	Y N P E	L L E T A E G C C K Q I	C	I E Q L	P S T L K T G S E E E	L R S S L W N A I A V L			
UniRef90_Q8US94	L N P G L	L L E T A E G C C K Q I	C	I K Q L	P A L K T G T E E E	L R S S L F N T V A T L			
UniRef90_D1KND7	L N P G L	L L E T S E G C C K Q I	C	M K Q L	P A L Q T G T E E E	K S S L F N T V A T L			
UniRef90_A2I3P0	UniRef90_Q9IN84	L N P G L	L L E T A E G C C K Q I	M E Q L	P S I K T G S E E E	K S S L F N T V A T L			
UniRef90_Q9IM19	L N P G L	L L E T S E G C C K Q I	C	I E Q F	P S T L K T G S E E E	K S S L Y N L V A T L			
UniRef90_V5JFB4	L N P G L	L L E T A E G C C K Q I	C	M K Q L	Q P A L Q T G T E E E	R S S L F N T V A T L			

90 100 110

UniRef90_Q9DQN2	W C V H Q R I	E I K D T K E A V D K I E E M Q N K S K S S S Q N Y P
UniRef90_A2I388	W C V H Q R I	Q V K D T K E A L D K L E Q Q A A A G T G S S S Q N Y P
UniRef90_C8C5J2	Y W V H Q R V	D L E E E Q N K S Q Q K K Q Q A A A G K G V S Q N Y P
UniRef90_A2I396	W C V H Q R I	E E V R D T K E A L D K I E E A E A A T G K V S Q N Y P
UniRef90_V9XQP6	Y C C V H Q X	D V K D T K E A L D K I E E E Q N K S K K X A Q
UniRef90_B5DC24	Y C C V H Q X	X V K D T K E A L X K I X X X Q N K S K Q V S Q N Y P
UniRef90_E2GBL8	Y C C V H Q K	E V R D T K E A L D K I E E E Q N A D T G N S Q N Y P
UniRef90_W0GUW0	Y C C V H E G	K I A D T K E A L D X I E E E Q T K S K K V S Q N Y P
UniRef90_C9DW5	Y C C V H A R	D V K D Q N K S K Q K E Q Q A A A D P G N S Q N Y P
UniRef90_F6MGE0	Y C C V H S N	D V K D P K E A
UniRef90_F6KL27	Y C C V H E K	E V R D T K E A L D K I X E E A A D K G K V S Q N Y P
UniRef90_B9A37	Y X V H Q R I	E E V K D T K E A L D K I E E Q A A A A G T G N
UniRef90_R4H6R4	W C V H Q K	E E V K G T K K A L D K M K Q Q A T A G T G S S S Q N Y P
UniRef90_A4LAG0	Y C C V H E G	E E C Q Q K I Q Q Q Q K T Q Q A K E A D G K V S Q N Y P
UniRef90_Q5U6T9	Y C C V H A K	K V T D T K E A L D K I E E E Q T K S K K K A Q
UniRef90_A3F4E6	W C V H Q R I	E I K D T K E A L D K I E E Q A A A A T G S S S Q N Y P
UniRef90_B3FLY6	Y C C V H Q R I	E E K K T T Q Q A G T X N S S Q A V A G T G V S Q N Y P
UniRef90_C7AS87	Y C C V H A G	E E V X D T K E A Q Q K X Q Q A K X A D X K V S Q N Y P
UniRef90_A8V139	Y C C V H Q R I	D I R D T K E A L D K I E E M Q N K D T G N S S N Y P
UniRef90_B4YV52	Y C C V H Q R I	E E V K D T K E A L D K I E E E Q N K S K Q K S Q N Y P
UniRef90_F6KLD4	Y C C V H A G	K V H D T K E A L D K T Q Q A Q A D K K V S Q N Y P
UniRef90_A9PLX9	Y C C V H Q K	D V K D
UniRef90_A2I348	W C V H Q R I	E E V K D T K E A L D K M E E V Q N S S S K V S Q N Y P
UniRef90_A8V0S7	W C V H Q R I	W C V D Q D T K E A L D K I E Q Q A A S G G V S Q N Y P
UniRef90_Q79665	W C V H N R F	W C V D I R D T Q Q A L Q K L K E E A A K E E Q T S Q N Y P
UniRef90_Q3I5Y3	Y C C V H Q R L	D I K D Q N K S K Q K E Q Q A A A S T S C S Q N Y P
UniRef90_B9A2A0	Y C C V H Q R I	E E X K D T K E A
UniRef90_Q6Y930	W C V H S R	W C V D I Q D T Q Q A V Q K V K E K M A A D K Q T S Q N Y P
UniRef90_D3JJR9	Y C C V H S D	E E V R D T K E A L Q K T Q Q A E A A D K K V S Q N Y P
UniRef90_M9NZ12	W C V H C R	W C V D E V K D T K E A L D K I E Q Q T A A D T G N S S N Y P
UniRef90_F6KLG4	Y C C V H T K	Y C C V D E V K D T K E A L D K I E E Q A V A N T A N S Q N Y P
UniRef90_M4MZ7	Y C C V H Q R	E E E V R D T K E A L D K I E E Q A V A N T A N S Q N Y P
UniRef90_Q97710	Y C C V X Q K	E E E V R D T K E A L D K I E E Q A V A N T A N S Q N Y P
UniRef90_C3TWA0	Y C C V H Q R	E E E V R D T K E A L D R I E E Q Q A A A D T G N S S Q N Y P
UniRef90_B0FBM2	Y C C V H Q R	E E E V R D T K E A L D R I E E Q Q A A A D T G N S S Q N Y P
UniRef90_W0GPE9	Y C C V H A K	E E V T D G K V S Q T K A A D G K V S Q N Y P
UniRef90_W0GT37	Y C C V H Q R	E E E V R D T K E A L Q K T Q Q A A A P E S S S S Q N Y P
UniRef90_C8XQG2	Y F V H Q R V	Y F V H E E E Q N K S Q Q K T Q Q A A A A D K G V S Q N Y P
UniRef90_C7ARK5	Y C C V H Q G	Y C C V H E E E Q N K S Q Q K T Q Q A A A A D K G V S Q N Y P
UniRef90_Q5WPR2	Y C C V H A R	Y C C V H E E E Q N K S Q Q K T Q Q A A A A D G K V S Q N Y P
UniRef90_C513A1	Y C C V H H Q	Y C C V H E E E Q N K S Q Q K T Q Q A A A A D G K V S Q N Y P
UniRef90_B9A2A3	Y C C V H Q K	Y C C V H E E E Q N K S Q Q K T Q Q A A A A D G K V S Q N Y P
UniRef90_Q59I16	Y C C V H K G	Y C C V H K D I E E Q N K T Q Q E K A A D G K V S Q N Y P
UniRef90_A0ZTI5	Y C C V H E H	Y C C V H K D I E E Q N K T Q Q E K A A D G K G K S Q N Y P
UniRef90_B8XB3N	Y C C V H K G	Y C C V H P I V Q N L Q G Q M V H Q A S P R T
UniRef90_E2IS78	Y C C V H T K	Y C C V H T K V I E K E Q N K X X Q E T Q Q E X A A D K X V S Q N Y P
UniRef90_E7CYZ1	Y C C V H E K I	Y C C V H E K I E V R D T K E A L D K I K E E Q A D K G K V S Q N Y P
UniRef90_J3WL06	W C V H Q R M	W C V H Q R M D I K N T H Q A L D K I K K S T G S S Q N Y P
UniRef90_A0ZT10	Y C C V H K D	Y C C V H K D D
UniRef90_Q9YW88	Y C C V H E K I	Y C C V H E K I E V R D T K E A L E K I E E E Q N K S K K I A Q
UniRef90_Q6EZD9	W C V H K E V	W C V H K E V K V K D T E E A V A K V K E
UniRef90_Q59IB5	Y C C V H N S	Y C C V H N S E
UniRef90_L8B318	W C L H A E K	W C L H A E K K V K D T E E A K K L A Q S H L A A A T E K T
UniRef90_Q3LXH3	Y C C V H Q K	Y C C V H Q K K V R N T K K A L K K I K Q Q A A A N T E N S Q N Y P
UniRef90_W0GTS5	Y C C V H K D	Y C C V H K D K V H D T K E A L D K I E E Q Q A A D G K V S Q N Y P
UniRef90_O55388	Y C C V H E K I	Y C C V H E K I E V Q Q Q N K S Q Q K T Q Q A E A A D K G K S Q N Y P
UniRef90_B9V6X8	Y C C V H K G	Y C C V H K G D
UniRef90_F5CSG2	Y C C V H Q K	Y C C V H Q K E V K D
UniRef90_W0GV59	F C V H Q R I	F C V H Q R I D V R D T K E A L D X I E E E Q N K S S S Q V S Q N Y P
UniRef90_V9XUA4	Y C C V H K R	Y C C V H K R Q K K S Q Q A E A K K S Q Q A E A T D G K V S Q S Q N Y P
UniRef90_W0GUU9	Y C C V H E R	Y C C V H E R Q K K S Q Q A E A K K S Q Q A E A T D G K V S Q S Q N Y P
UniRef90_A0ZTM4	Y C C V H A G	Y C C V H A G Y C C V H K Q Q K T Q E A K A A A D K G T V S Q N Y P
UniRef90_F6KKV4	Y C C V H Q R I	Y C C V H Q R I D V K D
UniRef90_W0GQK2	W C V H Q K	W C V H Q K D V K D T K E A L D K I E Q Q A A A D A G N S Q N Y P
UniRef90_W0GQ01	Y C C V H E R	Y C C V H E R K V H D T K E A L D K M E Q Q A A A D T G S S Q N Y P
UniRef90_Q9EN90	Y C C V H Q K	Y C C V H Q K E V R D T K E A L E V E K L Q K K S Q Q T S Q N Y P
UniRef90_B3FLV1	Y C C V H K R	Y C C V H K R E
UniRef90_J3SGI9	Y C C V H K G E	Y C C V H K G E K Q N T E E A V K I V K M Q A E K T G S T S Q
UniRef90_J7FDM3	H C C I H E G E	H C C I H E G E K Q N T D E A A V K I V K M Q A E K T G S T S Q
UniRef90_Q9WSK9	Y C C V H Q K I	Y C C V H Q K I E V R D T K E A L D K I E Q Q A A A D T G N S Q N Y P
UniRef90_J7FER1	Y C C V H A G E	Y C C V H A G E K I K D T E E A V N V K M K G D K S E S K N
UniRef90_A5JGP3	Y C C V H A G E	Y C C V H A G E K V H D T E E A V K I V K M K G D K S E S K N
UniRef90_L7PDR9	Y C C V H Q R T	Y C C V H Q R T E I K D T K E A L D K I E Q Q A A T D T G N S Q N Y P
UniRef90_C8C6M3	Y C C V H Q R I	Y C C V H Q R I E E
UniRef90_A9PNR1	Y C C V H E R I	Y C C V H E R I K
UniRef90_O36810	Y C C V H Q R I	Y C C V H Q R I G V R D T K E A L D K I E E E Q N K D T G N S Q N Y P
UniRef90_D6NT15	Y F V H Q R V	Y F V H Q R V E
UniRef90_Q906B2	Y C C V H Q S S	Y C C V H Q S S D V K D T K E A L E K I E Q Q A A A D T G N S Q N Y P
UniRef90_E2IS62	Y C C V H H E R	Y C C V H H E R E
UniRef90_Q6Y8T2	W C V H N R Y	W C V H N R Y R I E D T Q Q A I K K L R E V M G S X K S A S Q N Y P
UniRef90_Q7ZPU5	Y C C V H Q Q I	Y C C V H Q Q I D V R D T K E A L D R I E E E Q
UniRef90_Q77WQ9	Y C C V H Q R I	Y C C V H Q R I E V K D T K E A L E R I E E E Q Q A A D T G N S S S N Y P
UniRef90_F6KLJ0	Y C C V H K E I	Y C C V H K E I D V R D T K E A L D K I E E E Q Q A A G G K V S Q N Y P
UniRef90_D3JJR7	Y C C V H K R I	Y C C V H K R I E
UniRef90_S5RUH3	Y C C V X Q N	Y C C V X Q N D
UniRef90_D3TVX6	W C V H N R Y	W C V H N R Y E V E D T Q Q A I K K L K E
UniRef90_Q8US94	W C V H Q R I	W C V H Q R I D L K D T K E A L D K I E E Q Q A A P D T G S S Q N Y P
UniRef90_D1KND7	Y C C V H K K I	Y C C V H K K I D E E E Q N K S Q Q K T Q Q A Q A A D G K T S Q N Y P
UniRef90_A2I3P0	Y C C V H Q R I	Y C C V H Q R I D I A D T K E A L D K I E Q Q T T A D T G N S Q N Y P
UniRef90_Q9IN84	Y C C V H Q K I	Y C C V H Q K I D I K D T K E A L D K I E E E Q N K N Q Q K
UniRef90_Q9IM19	W C V H Q R I	W C V H Q R I E I K D T K E A V D K T Q Q A A A T G S S S Q N Y P
UniRef90_V5JFB4	Y C C V H A E I	Y C C V H A E I D V R D T K E A V D I V E E Q N A D S K V S Q N Y P

UniRef90_A8V2K3
 UniRef90_A1XWU4
 UniRef90_Q2I5G0
 UniRef90_A1XWU7
 UniRef90_A5JIU0
 UniRef90_D2XKZ6
 UniRef90_D1KKH3
 UniRef90_J7FD82
 UniRef90_Q6JUM3
 UniRef90_Q02843
 UniRef90_M5BHB4
 UniRef90_I3WKV7
 UniRef90_Q9QFJ7
 UniRef90_Q6PTZ5
 UniRef90_A2I3M3
 UniRef90_Q6PTY4
 UniRef90_O40378
 UniRef90_B2BRN8
 UniRef90_Q1AF84
 UniRef90_A2I3P3
 UniRef90_P27972
 UniRef90_C8C559
 UniRef90_Q8US96
 UniRef90_Q6UT19
 UniRef90_V5XW97
 UniRef90_Q9YWR4
 UniRef90_A0PEE7
 UniRef90_Q9YKZ3
 UniRef90_A1XWV5
 UniRef90_M5BGL1
 UniRef90_M5BFY6
 UniRef90_Q8J540
 UniRef90_Q8J6E7
 UniRef90_S4US21
 UniRef90_F6KL40
 UniRef90_A4UDF3
 UniRef90_Q8US89
 UniRef90_M5BHF8
 UniRef90_F6KKW1
 UniRef90_Q03259
 UniRef90_M5BGZ4
 UniRef90_M5BHC3
 UniRef90_B6RNV0
 UniRef90_M5BHG7
 UniRef90_J9PBX3
 UniRef90_O89388
 UniRef90_W8EBT2
 UniRef90_Q8AKG0
 UniRef90_M5BGK3
 UniRef90_W0GUFB
 UniRef90_Q8J527
 UniRef90_M5BH38
 UniRef90_F6KLC5
 UniRef90_Q8AD37
 UniRef90_M5BHE3
 UniRef90_M5BGZ3
 UniRef90_F6KLG5
 UniRef90_M5BHG0
 UniRef90_C0LQC9
 UniRef90_Q9INC8
 UniRef90_O71243
 UniRef90_Q9IM10
 UniRef90_J9PBV1
 UniRef90_M5BGC7
 UniRef90_Q1XE76
 UniRef90_Q9INC7
 UniRef90_Q1PCA2
 UniRef90_Q6UT16
 UniRef90_Q8J523
 UniRef90_Q214U4
 UniRef90_A4U7U0
 UniRef90_Q9Q095
 UniRef90_Q9J664
 UniRef90_D2EC93
 UniRef90_M5BHB5
 UniRef90_Q9WSA8
 UniRef90_O90272
 UniRef90_M5BGF1
 UniRef90_M5BFX7
 UniRef90_Q9IXN9
 UniRef90_M5BG83
 UniRef90_C0KK05
 UniRef90_J9PBV6
 UniRef90_B6RN0U
 UniRef90_B8XBN0
 UniRef90_M5BG58
 UniRef90_M5BGE7
 UniRef90_Q9IN71
 UniRef90_Q9YKY8
 UniRef90_Q9IM52
 UniRef90_G5DDD6
 UniRef90_J9PC76

1 10 20 30 40

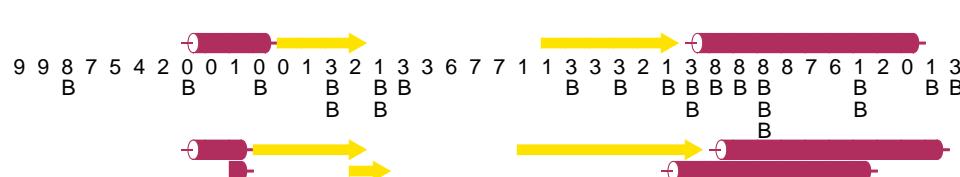
█ R P G G K K H Y M █ K H █ L V W A S R E █ L E R F A
 █ K H █ I V W A S R E █ L E R F A
 █ L K H █ L V W A S R E █ L E R F A
 █ K H █ L V W A S R E █ L E R Y A
 █ Y R █ L K H █ L V W A S R E █ L E R F A
 █ S V L S G G K █ D A W E K █ I R █ R P G G R K K Y R M K H █ L V W A S R E █ L E R F A
 █ R W E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

		50	60	70	80
UniRef90_A8V2K3	L N P G	L L E T S E G C K Q I	M K Q L H P A L Q T G T E E L R S L Y N T L A V L		
UniRef90_A1XWU4	L N P G	L L E S A E G C Q Q I	M G Q L H S A L N T G S E E E L R S L Y N T I A V L		
UniRef90_Q2I5G0	L N P S	L L E T S E G C Q Q I	M E Q L P A L H T G T E E E L R S L F N T I A V L		
UniRef90_A1XWU7	L N P	L L E T S E G C Q Q I	M E Q L P A L K T G T E E E L R S L F N T I A T L		
UniRef90_A5JIU0	V N P G	L L E T S D G C Q Q I	I E Q L Q P A L K T G T E E E L R S L F N T I A V L		
UniRef90_D2XKZ6	I N P G	L L E T S E G C K Q I	I R Q L H S A L P V G T E E E L R S L Y N T I A V L		
UniRef90_D1KKH3	I N P D	L L E T A E G C K Q I	I R Q L H P A L Q T G T E E E L R S L F N T I A T F		
UniRef90_J7FD82	L N P G	L M E D A S G C W K I	I R Q L Q P S V S V G S P E I V S L F N T I C V L		
UniRef90_Q6JUM3	L N P S	L L E T S E G C K Q I	I K Q L Q P A L P T G S E E E L I S L Y N T V A T L		
UniRef90_Q02843	L H E K	L L E T K E G C C Q K I	I E V L T P L E P T G S E E G L K A L F N L C V I		
UniRef90_M5BHB4	V N P G	L L E T A E G C C Q Q I	M E Q L Q P A L K T G S E E E F R S L F N T V A V L		
UniRef90_I3WKV7	L N P G	L L E T A E G C C R Q I	I E E Q L Q P S L Q T G S E E E L R S L Y N A V A T L		
UniRef90_Q9QFJ7	V N P G	L L E T S E G C C Q Q I	M N Q L Q P A L Q T G T E E E L R S L H N T V A T L		
UniRef90_Q6PTZ5	L N P G	L L E T P E G C C K Q I	I K Q L Q P A L Q T G T E E E L R S L F N T V A T L		
UniRef90_A2I3M3	V N P G	L L E T A E G C C K Q I	I K Q L Q P A L Q T G T E E E L R S L H N T V A T L		
UniRef90_Q6PTY4	L N P G	L L E T P E G C C Q Q I	I K Q L Q P T L K T G S E E E L R S L Y N T V A A L		
UniRef90_O40378	L N P S	L L E T S E G C C Q Q I	M T Q L Q P A L K T G T E E E L R S L Y N T V A T L		
UniRef90_B2BRN8	L N P G	L L E T S E G C C K G I	M D T A N G C A R L L N Q L Q P A L E T G S E E G L R S L Y N A L A V L		
UniRef90_Q1AF84	C N P G	L M D T A N G C C A R L	L N Q L Q P A L E T G S E E G L T S L F N T V A V L		
UniRef90_A2I3P3	I N P G	L L E S S E G C C Q Q I	M E Q L Q P S A L K T G S E E E L R S L Y N L C V L		
UniRef90_P27972	L H E K	L L E T E G C C Q Q I	I E V L S P L E P T G S E E G M K S L Y N T I V V L		
UniRef90_C8C559	V N X G	L L E S S E G C C Q Q I	I X G Q L Q P A L Q T G S E E E L R S L Y N T I V V L		
UniRef90_Q8US96	L N P G	L L E T A R R R M S P D N R T V T L A L L K T G S E E E L R S L Y N T V A T L			
UniRef90_Q6UT19	V N P G	L L E T S E G C C Q Q I	I L Q G L Q P A L Q T G S E E E L R S L Y N T V A V L		
UniRef90_V5XW97	X N P G X	L L E X A E G C C Q Q I	I E Q L E P S X K T G S E E E X R S X X N A V A V L		
UniRef90_Q9YWR4	L N P D	L L E T A E G C C Q Q I	M R Q L Q P A L Q T G T E E E L R S I Y N L C V L		
UniRef90_A0PEE7	V N P G	L L K T S K G C R Q I	I L G Q L Q P S L Q T E S K E X K S L Y N T V A T L		
UniRef90_Q9YKZ3	I N P G	L L E S A E G C C Q Q I	I E Q L Q P T L K T G S E E E L R S L Y N T V A T L		
UniRef90_A1XWV5	L N P G	L L E T S E G C C Q Q I	M I L E Q L Q P A L G T G S E E E I R S L Y N T V A V L		
UniRef90_M5BGL1	L N P G	L L E T A E G C C K Q I	M G Q L Q P A L K T G S E E E I R S L F N T I A T L		
UniRef90_M5BFY6	L N P S	L L E T T G E G C C X Q I	M G Q L Q P A L G T G T E E E I R S L F N T V A T L		
UniRef90_Q8J540	V N P G	L L E T S E G C C R Q I	I L G Q L Q P S L Q T G S E E E I R S L Y N A V E T L		
UniRef90_Q8J6E7	L N P G	L L E T S E G C C R Q I	I L G Q L Q S A L Q T G S E E E I R S L Y N T V A T L		
UniRef90_S4US21	X N P G	L L E X A E G C C Q Q I	I E Q L Q X T L K T G S E E E I R S L F N T I A T L		
UniRef90_F6KL40	L N P G	L L E T S E G C C K Q I	I Q G L Q P A L K T G S E E E I R S L Y N T V A T L		
UniRef90_A4UDF3	L S D T	L L E S K D G C C Q Q I	I L E V I C P L E E T G S E E A I R K S L F G I V S V L		
UniRef90_Q8US89	L N P G	L L E T T E G C C Q Q I	I L T Q L Q P A L K T G S E E E I R K S L F N T V A T L		
UniRef90_M5BHF8	L N P G	L L E T A E G C C Q Q I	I X E Q I Q P A L K T G S E E E I R K S L F N T I A T L		
UniRef90_F6KKW1	I N P G	L L E T S A G C C K Q I	I I G Q L Q P S I Q T G S E E E I R K S L Y N X V A V L		
UniRef90_Q03259	I S D Q	L M E S K E G C E K I	I L T V L Q P L E A N G S E E N L K S S L F G I S V V		
UniRef90_M5BGZ4	L N P S	L L E T A E G C C Q Q I	M E Q L Q P S A L K T G S E E E X V K S S L F N T V A T L		
UniRef90_M5BHC3	L N P G	L L E T S E G C C Q Q I	M E Q L Q P S I I Q T G S E E E X I V K S S L Y N M V A V L		
UniRef90_B6RNV0	L N P G F	L L E T S E G C C Q Q I	I L G Q L Q P S I I Q T G S E E E X I V K S S L Y N T V A T L		
UniRef90_M5BHG7	L N P G	L L E S A E G C C Q Q I	M E Q L Q S A L R T G S E E E I L K S S L F N T V A V L		
UniRef90_J9PBX3	L N P G	L L E T A E G C C Q Q I	M E Q L Q S A L R T G S E E E I L K S S L F N A V A V L		
UniRef90_O89388	V N P G	L L E T S E G C C R Q I	I L G Q L Q P A L Q T G S E E E I L K S S L F N T V A T L		
UniRef90_W8EBT2	L N P G	L L E T A E G C C Q Q I	M E Q L Q P A L R T G S E E E I L R S L Y N T V A T L		
UniRef90_Q8AKG0	L N P S	L L E S A D G C C Q Q I	I I N Q L Q P A L Q T G T E E E I L R S L F N T V A V L		
UniRef90_M5BGK3	L N P G	L L E S A E G C C Q Q I	M D Q L Q S S L K T G S E E E I L R S L F N T V A T L		
UniRef90_W0GUFB2	L N P S	L L E T A E E G C C Q Q I	I L E Q L Q P A L K T G T E E E I L K S L F N L V A T L		
UniRef90_Q8J527	L D P G	L L E T S E E G C C K Q I	M R Q L Q P A L Q T G T K E G I V S L Y N T V A V L		
UniRef90_M5BH38	L N P G	L L E T S E G C C Q Q I	X I E Q L Q S T I R T G S E E E I L K S S L Y N T I A T L		
UniRef90_F6KLC5	L N P G	L L E T S E G C C Q Q I	I I A Q L Q Q S S I Q T G T E E E I L K S S L Y N T I A V L		
UniRef90_Q8AD37	L N P D	L L E T A E G C C Q Q I	M G Q L Q P A I V K T G T D E E X R S L Y N T I A T L		
UniRef90_M5BHE3	I N P S	L L E T A E G C C Q Q I	M G Q L Q P A L Q T G T E E E X R S L F N T I A T L		
UniRef90_M5BGZ3	I N P S	L L E T A X G C C Q Q I	M E Q L Q P A L K T G S E E E I I R S S L F N T V A T L		
UniRef90_F6KLG5	L N P G	L L E T A D G C C Q Q I	M K Q L Q P A L Q T G S E E E I I R S S L F N T I A T L		
UniRef90_M5BHG0	L N P S	L L E T A D G C C Q Q I	M E Q L Q S T I K T G S E E E I I R S S L F N T I A T L		
UniRef90_C0LQC9	L N P G	L L E T A D G C C Q Q I	I I E Q L Q T N L K T G S E E E I I R S S L Y N T V V T L		
UniRef90_Q9INC8	L N P G	L L E A A E G C C Q Q I	M E Q L Q P T I R A G S E E E I I R S S L F N T V A T L		
UniRef90_Q71243	L A D S	L L E S K V G C C Q Q I	I L K V L Q P L E V P T G S E E E I I R S S L F N T V C V I		
UniRef90_Q9IM10	V D P G	L L E T S E G C C Q Q I	I L G Q L Q P S L P T G S E E E I I R S S L Y N T V A V L		
UniRef90_J9PBV1	L N P S	L L E T G E G C C Q Q I	M E Q L Q P A L K T G T E E E F R S S L F N A I A V L		
UniRef90_M5BGC7	I N P G	L L E T A V G C C Q Q I	I L T Q L Q S S I E T G S E E E I I K S S L F G I C V L		
UniRef90_Q1XE76	I S D A	L L E T K E G C C V K I	I I E A I S P L E P N G S E E E I I K S S L F G I C V L		
UniRef90_Q9INC7	I N P S	L L E T A E G C C Q Q I	M K Q L Q P S A L K T G S E E E I I R S S L F N T V A T L		
UniRef90_Q1PCA2	L N P G	L L E T S G G C C Q Q I	I L A Q L Q P A I K T G S E E E I I R S S L I Y N T V T T V		
UniRef90_Q6UT16	V N P G	L L E T S E G C C R Q I	I L E Q L Q P S L Q T G S E E E I I R S S L F N T V A T L		
UniRef90_Q8J523	L D P G	L L E T S E G C C Q Q I	I I Q Q L Q P A L Q T G T K E E I I R S S L F N T V A V L		
UniRef90_Q214U4	V N P G	L L E T S D G C C Q Q I	I I E Q L Q P S L Q T G S E E E I I R S S L F N T V A T L		
UniRef90_A4U7U0	L N P S	L L E T A E G C C Q Q I	I I E Q L Q S Q L K T G S E E E I I K S S L Y N T V V V L		
UniRef90_Q9Q095	L G A H	L L E T A D G C C K R I	I L G V C W P L Y S T G S K N L K A L V G T V C V I		
UniRef90_Q9J664	L N P S	L L E T A E G C C Q Q I	I I E Q L Q P A L K T G T E E E I I R S S L F N T V A T L		
UniRef90_D2EC93	V N P G	L L E T S E G C C Q Q I	M G Q L Q P S L Q T G S E E E R R S S L Y N T V A T L		
UniRef90_M5BHB5	L N P G	L L E S A E G C C Q Q I	M E Q L Q S A L R T G X E E E I I R S S L Y N T V A T L		
UniRef90_Q9WSA8	V N P G	L L E T S E G C C Q Q I	I I A Q L Q P S L Q T G S E E E I I R S S L Y N T V A V L		
UniRef90_O90272	L G S Q	L L E T A E G C C K Q I	I L S V C W P L Y A T G S K N L K A L V G T V C V I		
UniRef90_M5BGF1	L N P G	L L E T T E G C C Q Q I	M G Q L Q P A L P T G T K E E L V S L Y N T I A T L		
UniRef90_M5BFX7	L D P S	L L E T T E G C C Q Q I	I I K Q L Q P A L P T G T K E E L V S L Y N T I A T L		
UniRef90_Q9IXN9	L N P G	L L E T T E G C C K Q I	I I G Q L Q P S L Q T G T E E E L K S S L Y N L V V V L		
UniRef90_M5BG83	L N P G	L L E T S X G C C Q Q I	I I X Q L Q X A I K T G S E E E X K S S L Y N T I A T L		
UniRef90_C0KK05	L N P G	L L E T A E G C C Q Q I	I I E Q I Q S A L R T G S E E E L K S S L F N A V A V L		
UniRef90_J9PBV6	L N P G	L L E T T E G C C Q Q I	M S Q L Q P S I Q T G T E E E L K S S L F N A V A V L		
UniRef90_B6RNU0	V N P G	L L T T S D G C C K Q I	I I A Q L Q P S L K T G S E K L K S L F N T V A T L		
UniRef90_B8XB0	L N P G	L L E T A D G C C Q Q I	I I K Q L Q H P A L P I A T L		
UniRef90_M5BG58	L N P G	L L E T A E G C C E Q I	I I E Q L Q S T L K T G S E E E L K S S L F N T I A T L		
UniRef90_M5BGE7	L N P S L	M E T G K G C C Q Q I	I X E Q L Q P A L G T G T E E E I I R S S L F N T I A T L		
UniRef90_Q9IN71	L N P G	L L E T A E G C C Q Q I	I I K Q L Q P A L K T G S E E E I I Q S S L H N T V A T L		
UniRef90_Q9YK8	L N P S	L L E T P E G C C K Q I	I X V Q L Q P A I V Q T G S E E G I I K S S L Y N T V A T L		
UniRef90_Q9IM52	L N P G	L L E T S E G C C Q Q I	I I A Q L Q P A V Q T G S E E E I I K S S L F N T I A T L		
UniRef90_G5DDD6	V D P G	L L E T S E G C C Q Q I	I I L Q L Q P A L Q T G S E E E I I K S S L F N T V A T L		
UniRef90_J9PC76	L N P G	L L E T A E G C C Q Q I	I I K Q L Q P S L Q T G T E E E I I K S S L H N T I A T L		

UniRef90_A8V2K3
 UniRef90_A1XWU4
 UniRef90_Q2I5G0
 UniRef90_A1XWU7
 UniRef90_A5JIU0
 UniRef90_D2XKZ6
 UniRef90_D1KKH3
 UniRef90_J7FD82
 UniRef90_Q6JUM3
 UniRef90_Q02843
 UniRef90_M5BHB4
 UniRef90_I3WKV7
 UniRef90_Q9QFJ7
 UniRef90_Q6PTZ5
 UniRef90_A2I3M3
 UniRef90_Q6PTY4
 UniRef90_O40378
 UniRef90_B2BRN8
 UniRef90_Q1AF84
 UniRef90_A2I3P3
 UniRef90_P27972
 UniRef90_C8C559
 UniRef90_Q8US96
 UniRef90_Q6UT19
 UniRef90_V5XW97
 UniRef90_Q9YWR4
 UniRef90_AOPEE7
 UniRef90_Q9YKZ3
 UniRef90_A1XWV5
 UniRef90_M5BGL1
 UniRef90_M5BFY6
 UniRef90_Q8J540
 UniRef90_Q8J6E7
 UniRef90_S4US21
 UniRef90_F6KL40
 UniRef90_A4UDF3
 UniRef90_Q8US89
 UniRef90_M5BHF8
 UniRef90_F6KKW1
 UniRef90_Q03259
 UniRef90_M5BGZ4
 UniRef90_M5BHC3
 UniRef90_B6RNV0
 UniRef90_M5BHG7
 UniRef90_J9PBX3
 UniRef90_O89388
 UniRef90_W8EBT2
 UniRef90_Q8AKG0
 UniRef90_M5BGK3
 UniRef90_W0GUFB
 UniRef90_Q8J527
 UniRef90_M5BHG8
 UniRef90_F6KLC5
 UniRef90_Q8AD37
 UniRef90_M5BHE3
 UniRef90_M5BGZ3
 UniRef90_F6KLG5
 UniRef90_M5BHG0
 UniRef90_C0LQC9
 UniRef90_Q9INC8
 UniRef90_O71243
 UniRef90_Q9IM10
 UniRef90_J9PBV1
 UniRef90_M5BGC7
 UniRef90_Q1XE76
 UniRef90_Q9INC7
 UniRef90_Q1PCA2
 UniRef90_Q6UT16
 UniRef90_Q8J523
 UniRef90_Q214U4
 UniRef90_A4U7U0
 UniRef90_Q9Q095
 UniRef90_Q9J664
 UniRef90_D2EC93
 UniRef90_M5BHB5
 UniRef90_Q9WSA8
 UniRef90_O90272
 UniRef90_M5BGF1
 UniRef90_M5BFX7
 UniRef90_Q9IXN9
 UniRef90_M5BG83
 UniRef90_C0KK05
 UniRef90_J9PBV6
 UniRef90_B6RNU0
 UniRef90_B8XBN0
 UniRef90_M5BG58
 UniRef90_M5BGE7
 UniRef90_Q9IN71
 UniRef90_Q9YKY8
 UniRef90_Q9IM52
 UniRef90_G5DDD6
 UniRef90_J9PC76

90 100 110

Y C V H E K I | Q V H D T K E A Q Q R T Q Q A K E A D G K D S Q N Y P
 Q C V H Q R I | E V R D T K E A L D K L E Q A A A A T G S S S Q N Y P
 Y C V H Q R I | D V K D T K E A L D K V E E Q Q A A A A N N K V S Q N Y P
 W C V H Q R I | N V K D T T E A L Q K T Q Q A A A A T G S S S Q N Y P
 Y C V H Q R I | D V K D T K E A L G K V E E Q N K D G K V S Q N Y P
 Y C V H E R I | D
 Y C V H E R I | D
 F C V H T G E K I | E N T E D A V K L V K E K L K V E
 Y C V H Q R I | D
 W C V H A E Q K V K D T E E A V V T V K Q H T A P P G G E S R N Y P
 Y C V H Q R I | K V A D T K E A L D K I E Q Q A A A A T G N S Q N Y P
 Y C V H Q R I | D
 Y C V H R R I | E V K D T Q E A L E K I K E E Q S K S G Q A S Q N Y P
 Y C V H K R M E I | R D T K E A
 Y C V H S G I | D T Q Q A K E A D G K V S Q N Y G K V S Q N Y P
 Y C V H R K I | E I R D T K E A L D K I Q A E T A D T G K V S Q N Y P
 Y C V H Q R I | E I K D T K E A L D K I E E Q N K S K K V S Q N Y P
 Y C V H K N I | E V K D T S E A L D K V K Q Q A A A D G Q V S Q N Y P
 Y C V H S N I | E
 Y C V H Q R I | E
 Y C V H Q R I | E
 Y C V H Q E K K V K D T E E A L A I V R Q H L V D K E K T A V T P P
 Y C V H Q R I | D
 Y C V H Q R I | E V K D T K E A L D K I E Q A A A A T G S S S Q N Y P
 Y C V H Q R I | D V R D T K E A L D K I E E E Q N K S K Q V S Q N Y P
 Y C V H Q R I | D
 F C V P Q R I | K V K D T K E A L E E V E K Q A A K D E G N S Q N F P
 Y C V H Q R I | E I K D T K K A L D K I E E K Q N K S K K R A Q
 W C V H Q R I | E V K D T K E A L D K M E E
 Y C V H Q R I | K V A D T K E A L D K I E E E
 M C V H Q G I | D I R D T K E A L D K V E Q A A A A T G S S S Q N Y P
 Y C V H Q R I | E V K D T K E A L D K V E E E Q N K S N K V S Q N Y P
 Y C V H Q R I | K I R D T K E A L D K I E A E Q N K S K K K A Q
 Y C V H Q N V | E V K D T K E A L E K V E E E Q N K S K T K T Q
 W C V H Q R I | E V X D T K E A L D K M E E A Q X R S S K V S Q N Y P
 UniRef90_F6KL40
 Y C V H Q K I | H K Q K T Q H A | E A A T G S S S S Q N Y P
 UniRef90_A4UDF3
 W C I H A D V | T V K D T E E A K K Q I | R E K K E D S K G D S Q N Y P
 Y C V H R K I | E V K D T D E A E I L E V V E Q K A A T D K V N S Q N Y P
 UniRef90_M5BHF8
 W C V H Q R I | D I K D T K E A L D K V E E X Q N K S G S G S Q N Y P
 UniRef90_F6KKW1
 Y C V H Z X I | E X K D T K E A L X X I | E Q Q A X A X T G V S Q N Y P
 UniRef90_Q03259
 W A V H A K K | E V E D T E Q A K Q K V K E A C N Q S E N S S Q N M
 Y C V H R R I | E V Q P D T K E A L D K I E E Q N K S K N T S Q N Y P
 Y C V H R R I | E V Q P D T K E A L D K I E E E Q N K S K K K A Q
 Y C V H Q R I | K V L D T K E A L D K I E E E Q N K S K K K A Q
 Y C V H Q N M E | V R D T K E A L D K I E E E Q N K S G S S S Q N Y P
 UniRef90_J9PBX3
 W C V H Q R I | D V R D T K E A L D K I E E E Q N K S G S S S Q N Y P
 UniRef90_O89388
 Y C V H Q R I | D I K D T K E A L D K I E E E A Q N K S G K V S Q N Y P
 UniRef90_W8EBT2
 Y C V H Q R I | D V K D T K E A L D K I E E E M Q N K S K Q K
 UniRef90_Q8AKG0
 Y C V H Q R I | E I R D T K E A L D K I E E A Q N K S G K V S Q N Y P
 UniRef90_M5BGK3
 W C V H Q R I | D I K D T K E A L D K I E E E M Q N K S G S S S Q N F P
 UniRef90_W0GUFB
 W C V H Q R I | E V K D T K E A L D K
 UniRef90_Q8J527
 Y C V H E R I | G V R D T K E A L D K I K Q Q A E A D G K V S Q N Y P
 UniRef90_M5BHG38
 W C V H Q R I | E V X D T K E A L D K I E E X A A A T G S S S Q N Y P
 UniRef90_F6KLC5
 Y C V H Q K I | E
 UniRef90_Q8AD37
 Y C V H K R I | E I K D T K E A L L E E V E Q Q A A M N K G N S Q N Y P
 UniRef90_M5BHE3
 Y C V H Q K I | X V K D T K E A L D K I E E E Q K K G K G V S Q N Y P
 UniRef90_M5BGZ3
 Y C V H Q K I | E V R D T X E A L D K I E E A T G S S S N V S Q N Y P
 UniRef90_F6KLG5
 Y K E A L D K I | E E E Q N K S Q N T Q Q A P A A D K G K S Q N Y P
 UniRef90_M5BHG0
 W C V H Q R I | D V K D T K E A L D K I E E E V Q N K S K S S S Q N Y P
 UniRef90_C0LQC9
 W C V H Q R I | G V K D T K E A L D K M E Q Q A A A D T G N S Q N Y P
 UniRef90_Q9INC8
 W C V H K K I | E V R D T K E A L D K I E Q Q A A A D T G N S Q N Y P
 UniRef90_O71243
 W C L H A E V | K V H T E E A K A A A Q R H L E E E A G T A D K
 UniRef90_Q9IM10
 Y C V H Q K I | E E E Q N K S R Q K T Q Q A A A X D K G V S Q N Y P
 UniRef90_J9PBV1
 Y C V H Q Q I | R I K D T K E A L D K I E Q Q A A A D T G S S Q N Y P
 UniRef90_M5BGC7
 Y C V H Q K X | E V K D T K E A V D K I E Q Q A A A A T G S S Q N Y P
 UniRef90_Q1XE76
 Y C V H Q K I | E I E D T E Q A K A E V K K H P V E K K E E S
 UniRef90_Q9INC7
 Y C V H Q N T I | D V K D T K E A L D K I E Q Q A A A D T K V S Q N Y P
 UniRef90_Q1PCA2
 Y C V H Q R I | N V T D T K E A F D K I E E Q Q A A G T G N S Q N Y P
 UniRef90_Q6UT16
 Y C V H E R I | D V R D T K E A L E K I E E V Q N K S K K R S Q N Y P
 UniRef90_Q8J523
 Y C V H E K I | E V Q D T K E A L D K I K Q Q A A D K G K V S Q N Y P
 UniRef90_Q214U4
 Y C V H Q K I | E V R D T K E A K A Q Q A Q Q A A A G T G N S Q N Y P
 UniRef90_A4U7U0
 W C V H Q R I | D V R D T K E A L D K I E E V Q N K S
 UniRef90_Q9Q095
 C C C H L G I | K I A N T A E A M Q K I K I E P T Q E Q Q K S G N Y P
 UniRef90_Q9J664
 Y C V H Q R I | E V K D
 UniRef90_D2EC93
 Y C V H Q Q I | T V R D T K E A L D K V E E Q A A A A T G N S Q K Y P
 UniRef90_M5BHB5
 Y C V H Q Q I | E V K D T K E A L D K V
 UniRef90_Q9WSA8
 Y C V H Q K I | E V K D T K E A L D K I E P A A A G K K Q Q N Y P
 UniRef90_O90272
 C C C H L G I | V R I S D T Q E A I S K V K I E P A A A G K K Q Q N Y P
 UniRef90_M5BGF1
 F C V H Q R I | E V K D T K E A L E E V E K I Q K N S Q K K Q Q
 UniRef90_M5BFX7
 Y C V H A A I | E V R D T K E A L D K V I K E E Q N K S Q Q K S Q N Y P
 UniRef90_Q9IXN9
 Y C V H R K I | D V R D T K E A L D K L Q Q Q A T A D K G V S Q N Y P
 UniRef90_M5BG83
 W C V H E K X | E V K D T K E A L E K I E E X Q X K S X K T A Q
 UniRef90_C0KK05
 UniRef90_J9PBV6
 Y C V H Q R I | E V K D T K E A L E V E Q Q A A K N E G N S Q N Y P
 UniRef90_B6RNU0
 UniRef90_B8XBN0
 UniRef90_M5BG58
 W C V H R R I | E I K D T K E A X D K I E E V Q N K S X Q K T
 Y C V H N Q I | K I Q D T K E A L D K I E E Q A E A D T G N S Q N Y P
 UniRef90_Q9IN71
 Y C V H Q R I | D V K D T K E A L D K I E E Q N K
 UniRef90_Q9YKY8
 Y C V H A G I | K V A D T K E A L D K I E E
 UniRef90_Q9IM52
 Y C V H E R I | P V K D T K E A L E K I E Q Q A A T D T G N S Q N Y P
 UniRef90_G5DDD6
 UniRef90_J9PC76
 Y C V H Q K I | E V R D T K E A L E E V E K A Q K A T T G N S Q N F P



				50	60	70	80																																								
UniRef90_F90_5USUH0	L	N	P	G	L	D	T	A	E	G	C	Q	Q	L	M	E	Q	L	Q	S	A	L	G	T	G	S	E	L	K	S	L	F	N	T	L	A	T	L									
UniRef90_W0GV17	L	N	P	S	L	E	T	S	D	G	C	K	K	Q	L	Q	Q	L	H	P	A	L	K	T	T	G	S	E	E	L	I	S	L	H	N	A	V	A	T	L							
UniRef90_M5BFX9	L	D	P	G	L	E	T	S	E	G	C	K	K	Q	I	G	Q	L	Q	P	A	I	K	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L								
UniRef90_M5BGA9	L	P	G	L	E	T	S	E	G	C	K	K	Q	I	G	Q	L	Q	P	A	I	K	T	G	S	E	E	L	L	I	S	L	Y	N	T	V	A	T	L								
UniRef90_Q8AD40	L	N	P	S	L	E	T	A	E	G	C	Q	Q	I	E	E	Q	L	Q	P	A	L	K	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L								
UniRef90_Q9INC6	L	N	P	G	L	E	T	A	E	G	C	Q	Q	I	E	E	Q	L	Q	S	T	L	K	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	T	L								
UniRef90_Q6UTI8	L	K	H	G	L	S	D	T	S	E	G	C	K	K	Q	L	E	Q	L	Q	P	T	L	R	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L							
UniRef90_Q8QDJ3	L	N	P	N	L	E	T	S	D	G	C	K	K	Q	I	R	Q	L	Q	P	A	I	Q	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	T	L								
UniRef90_Q8US99	L	N	P	G	L	E	T	A	E	G	C	Q	Q	I	E	E	Q	L	Q	S	T	L	K	T	G	S	E	E	L	K	S	L	Y	N	A	V	A	T	L								
UniRef90_M5BG69	L	D	P	G	L	E	T	S	Q	G	C	Q	Q	I	N	N	Q	L	Q	S	T	L	K	T	G	S	E	E	L	I	S	L	Y	N	A	V	A	T	L								
UniRef90_C8C5U4	L	N	X	G	L	E	T	A	E	G	C	C	Q	Q	X	I	E	Z	L	Z	X	T	L	K	X	G	S	E	E	L	R	S	L	F	N	T	V	A	T	L							
UniRef90_Q9EA17	L	N	P	G	L	E	T	S	G	G	C	C	Q	Q	I	L	K	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	V	L							
UniRef90_O36913	V	N	P	G	L	E	T	S	G	G	C	C	Q	Q	I	K	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	V	L								
UniRef90_Q9INC0	L	N	P	D	L	E	T	T	E	G	C	C	Q	Q	I	K	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L								
UniRef90_A1XWV2	L	N	P	G	L	E	T	T	E	G	C	C	Q	Q	I	M	E	Q	L	Q	S	A	L	Q	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	V	L							
UniRef90_Q995R4	L	N	P	D	L	E	T	S	E	G	C	K	K	Q	I	M	K	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	V	L							
UniRef90_F6KKX9	L	N	P	G	L	E	T	T	E	G	C	K	K	Q	I	E	E	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	V	L							
UniRef90_M5BHD7	L	N	P	G	L	E	T	T	E	G	C	K	K	Q	I	X	X	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	V	L							
UniRef90_B5DC36	V	X	X	G	L	E	T	S	X	G	X	R	R	X	I	L	A	Q	X	Q	P	X	X	X	T	T	G	S	E	E	X	R	S	L	Y	N	T	V	A	T	X						
UniRef90_W0GQK6	I	N	P	S	L	E	T	P	E	G	C	Q	Q	I	E	E	Q	L	Q	S	T	L	K	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L								
UniRef90_Q9IND7	L	N	P	G	L	E	T	A	E	G	C	Q	Q	I	E	E	Q	L	Q	S	T	L	K	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	A	L								
UniRef90_O89371	V	N	P	G	L	E	T	S	E	G	C	R	R	Q	I	L	E	E	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L						
UniRef90_M416U6	V	N	P	G	L	E	T	A	D	G	C	K	K	Q	I	E	E	Q	L	Q	P	A	L	R	T	G	S	E	E	L	K	S	L	F	N	T	V	X	T	L							
UniRef90_S4USR2	C	N	P	S	L	E	S	A	E	G	C	Q	Q	I	E	E	Q	L	Q	P	A	I	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L								
UniRef90_M5BGE64	G	L	E	T	P	G	G	C	Q	Q	I	E	E	Q	L	Q	P	A	I	Q	T	G	S	E	E	L	K	S	L	Y	N	T	V	A	A	L											
UniRef90_Q9EAG4	P	F	I	N	S	R	R	S	Q	Q	I	M	M	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	T	L										
UniRef90_Q8Q400	V	N	P	G	L	E	T	S	D	G	C	C	Q	Q	I	L	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L							
UniRef90_G3FTN4	L	N	P	G	L	E	T	S	E	G	C	K	K	Q	I	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L								
UniRef90_G5DDG5	V	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	L	Q	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	A	V	A	V	L							
UniRef90_M5B45	L	E	T	A	E	G	C	Q	Q	I	L	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	K	S	L	F	F	X	I	A	T	L												
UniRef90_Q6V5X2	L	S	G	L	E	T	A	E	G	C	Q	Q	I	L	V	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	G	S	M	F	F	X	I	A	T	L									
UniRef90_A2TAU5	V	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	L	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	X	S	L	Y	N	T	V	A	T	X							
UniRef90_Q6V5Z3	V	N	P	G	L	E	T	S	Q	G	C	C	Q	Q	I	L	Q	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	Y	N	T	V	A	T	L							
UniRef90_Q1PC99	L	N	P	S	L	E	T	P	E	G	C	C	Q	Q	I	R	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	A	V	A	V	L								
UniRef90_Q2I563	L	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	L	E	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L							
UniRef90_Q9J011	V	D	P	G	L	E	T	A	E	G	C	C	Q	Q	I	G	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	V	L								
UniRef90_M5BGE0	L	N	P	G	L	E	T	A	E	G	C	Q	Q	I	M	A	Q	L	Q	S	T	L	K	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L								
UniRef90_F6KLC9	L	N	P	G	L	E	T	T	E	G	C	Q	Q	I	M	E	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L								
UniRef90_Q2QX93	I	N	P	G	L	E	T	A	E	G	C	Q	Q	I	R	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L									
UniRef90_Q7ZMM9	V	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	R	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L								
UniRef90_M5BGE4	V	S	L	A	L	D	T	A	E	G	C	Q	Q	I	F	E	Q	L	Q	S	A	L	Q	G	S	G	T	E	E	L	R	S	L	F	N	S	V	A	I	L							
UniRef90_B2BRN5	L	N	P	G	L	E	T	S	D	G	C	K	K	Q	I	M	N	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	T	L							
UniRef90_G3FTE5	L	D	S	S	L	E	T	S	E	G	C	K	K	Q	I	R	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	A	V	A	V	L								
UniRef90_D7UPJ0	L	A	E	S	L	E	X	K	E	G	C	K	K	Q	I	L	X	V	L	A	P	L	X	P	T	G	S	E	E	L	R	S	L	F	N	T	V	C	V	I							
UniRef90_Q8Q2D3	I	N	P	G	L	E	T	S	V	G	C	C	Q	Q	I	Q	Q	L	Q	P	A	L	Q	V	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L								
UniRef90_B6RN8T	V	N	P	G	F	P	E	T	S	E	G	C	C	Q	Q	I	G	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L							
UniRef90_Q2XQ84	L	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	G	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	V	L								
UniRef90_S4US23	I	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	G	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	C	V	I								
UniRef90_Q76930	L	A	E	N	L	G	S	K	E	G	C	C	Q	Q	I	H	K	L	A	V	L	E	P	L	V	P	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L					
UniRef90_M5BHC9	L	N	P	G	L	E	T	S	D	G	C	X	X	Q	I	S	Q	L	Q	P	A	V	X	T	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L							
UniRef90_B6RNW1	V	N	P	G	L	E	T	S	E	G	C	R	R	Q	I	G	Q	L	Q	P	S	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	V	L								
UniRef90_Q6V5X9	V	N	P	G	L	E	T	A	G	G	C	R	R	Q	I	G	Q	L	Q	P	A	V	H	T	T	G	S	E	E	L	K	S	L	F	N	T	V	A	V	L							
UniRef90_J9PBX5	L	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	K	H	A	E	G	C	Q	Q	I	M	M	Q	Q	A	L	Q	T	G	S	E	E	L	K	S	L	F	N	T	V	A	T	L
UniRef90_Q9EAG8	K	H	A	E	G	C	C	Q	Q	I	L	Q	Q	I	R	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S	L	F	N	T	V	A	T	L									
UniRef90_Q9IN96	L	N	P	G	L	E	T	S	E	G	C	C	Q	Q	I	R	Q	L	Q	P	A	L	Q	T	G	S	E	E	L	R	S																

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm

			90		100		110
UniRef90_S4USH0	W	C	V	H R G L D I R D K N K N K Q K T Q Q T A A A T E S S S Q N Y P			
UniRef90_W0GV17							
UniRef90_M5BFX9	W	C	V	H E K I D V R D T K E A L D K V X E E A A D K X X K X S Q N Y P			
UniRef90_M5BGA9	Y	C	V	H E K I E V K D T K E A L D K I E E E Q N K S K G K S Q N Y P			
UniRef90_Q8AD40	Y	C	V	H A R I E I K D T Q E A L D K I K E I Q N K S K Q K T Q			
UniRef90_Q9INC6	Y	C	V	H Q K I E V K D T K E A L D Q K T Q Q A A A D T G S S Q N Y P			
UniRef90_Q6UT18	Y	C	V	H Q G I E I K D T E E A L D K K A Q Q A A A D K G N S Q N Y P			
UniRef90_Q8QDJ3	Y	C	V	H E R I K V A N T K E A E V K D			
UniRef90_Q8US99	Y	C	V	H Q R I E V K D			
UniRef90_M5BG69	X	C	V	H E K I E I R D T X E A L D K I K E E Q N K S Q Q K T Q			
UniRef90_C8C5U4							
UniRef90_Q9EA17	W	C	V	H Q R I D I K D T K E A L D K I E E E A A A A G S S S Q N F P			
UniRef90_O36913	Y	C	V	H Q R I D V K D T K E A L D K I E E I Q I K S K N S			
UniRef90_Q9INCO	Y	C	V	H R G I D V K D T K E A L D K I E E I Q I K S K N S			
UniRef90_A1XWV2	W	C	V	H Q R I N K Q Q T Q Q V K P Q Q A A A A T G S S S Q N Y P			
UniRef90_Q995R4	Y	C	V	H E E I E			
UniRef90_F6KKX9	Y	C	V	H R R I D			
UniRef90_M5BHD7	Y	C	V	H Q R I D I K D T K E A			
UniRef90_B5DC36	Y	C	V	L Q N X X X K D T			
UniRef90_W0GQK6	Y	C	V	H Q N I D I K D I Q N K N K Q K K Q Q A A A N T G N S Q N Y P			
UniRef90_Q9IND7	C	C	V	H Q R I D V K D M Q N K N K Q K T Q Q A A A D K G N S Q N Y P			
UniRef90_O89371	Y	C	V	H Q			
UniRef90_M4I6U6	Y	C	V	H S D I D			
UniRef90_S4USR2	W	C	V	H Q R I D			
UniRef90_M5BG64	Y	C	V	H E K I K V A D T K E A L D K I E E E Q T K S K K K T Q			
UniRef90_Q9EAG4	Y	C	V	H Q R I E V K D T K E A L E V E Q Q A A M D E G N S Q N Y P			
UniRef90_Q8Q400	Y	C	V	H Q K I D			
UniRef90_G3FTN4	Y	C	V	H A N I K E E E Q H E S Q Q K T Q Q A K A A G E K V S Q N F P			
UniRef90_G5DDG5	Y	C	V	H Q G I E I E E Q N K S K K K A Q Q A T G D T G N S Q N Y P			
UniRef90_M5BG45	W	C	V	H H R I E I K D T K E A L D K I E E X A A A T G S S S Q N Y P			
UniRef90_Q6V5X2	Y	C	V	H Q Y C V H Q K I E			
UniRef90_A2TAU5	Y	C	V	H Q K I E			
UniRef90_Q6V5Z3	Y	C	V	H Q Y C V H Q K I E			
UniRef90_Q1PC99	Y	W	V	H Q K I E V K D T K E A L D K I E Q Q G K A D K G V S Q N Y P			
UniRef90_Q2I563	Y	C	V	H K N I D			
UniRef90_Q9J01	Y	C	V	H Q R I I E Q N K S Q Q K Q K T Q Q A A A A D K G V S Q N Y P			
UniRef90_M5BGE0	W	C	V	H Q R I D			
UniRef90_F6KLC9	Y	C	V	H Q R I E			
UniRef90_Q2XQ93	Y	C	V	H Q R I D			
UniRef90_Q7ZMM9	Y	C	V	H Q X I D V K D T K E A L D K I E E Q Q A A D T G N S Q N Y P			
UniRef90_M5BGE4	F	C	V	H Q R I N L K D T N E A F D K I E E D P G N S S K V S Q N Y P			
UniRef90_B2BRN5	Y						
UniRef90_G3FTE5	Y	C	V	H Q R I E Q Q K T Q Q A E A D R G R V S Q N Y P			
UniRef90_D7UPJ0	W	C	L	H A E Q K V K D T E E A K K I A Q S H L A A A T E K A			
UniRef90_Q8Q2D3	Y	C	V	H S G I E			
UniRef90_B6RNT8	Y	C	V	H Q R I D I K D T K K A Q A D T G N S Q N Y P			
UniRef90_Q2XQ84	Y	C	V	H E K I I K			
UniRef90_S4US23	F	C	V	H E R I D			
UniRef90_Q76930	Y	C	V	H A G E K V K D T E E A K K I A Q R H L V G N T E K M P			
UniRef90_M5BHC9	Y	C	V	H E R I I A Q R H L V G N T E K M P			
UniRef90_B6RNW1	Y	C	V	H Q R I D E E Q N K I K K T Q E Q Q A A A G T G N S Q N Y P			
UniRef90_Q6V5X9	Y						
UniRef90_J9PBX5	Y	C	V	H E R I D V K D T K E A L E K I E Q P A T A D T K N S Q N Y P			
UniRef90_Q9EAG8	Y	C	V	H Q R I E V K D T K E A L E V E Q Q A V K N E G N S Q N Y P			
UniRef90_Q9IN96	Y	C	V	H Q R I D V G D I Q K R N Q Q K T Q Q A T A D K G K S Q N Y P			
UniRef90_Q7ZMM6	Y	C	V	H Q R V D			
UniRef90_Q1PCA0	Y	Y	V	H R Q V D K S Q Q K E A Q L T K V S K G V S Q N Y P			
UniRef90_B3CKG7	A	C	L	Y N N I Q V S D T Q A A I K K I E V R P R E E K A S V N M P			
UniRef90_M5BGG3	W	C	V	H Q R I E X K D A Q K K S Q Q K T Q Q A A A D T G S S Q N Y P			
UniRef90_Q8Q3W6	Y						
UniRef90_Q6V5X7	Y						
UniRef90_Q9J414	Y	V	K	D T K E A L E K I E E Q N K K T Q Q A A A D K G V S Q N Y P			
UniRef90_B9ULY1	Y	E	K	L E E E Q N K S Q Q K A Q Q K T Q Q A A A D K G V S Q N Y P			
UniRef90_A7U509	Y	C	V	H Q K I D X R D T Q N X S K K K A Q Q A A A D T G N S Q N Y P			
UniRef90_Q79823	Y	C	V	H Q K I D E E E Q N K S K K K A Q Q A A A A T G Q S S Q N Y P			
UniRef90_W8DQT0	F	C	V	H A G I E V R D T M D A L D K C Q Q K I L Q H D G K V S Q N Y P			
UniRef90_M5BG35	Y	F	V	H Q K I E I K D T K E A L D K I E X Q E A A D K G V S Q N Y P			
UniRef90_12A5F4	Y	C	V	H Q R I E E E Q N K S K K K A Q P A A A D T G S S Q N Y P			
UniRef90_Q9K88	Y	C	V	H E K I E K K S C O O K S C O O K T Q Q A A A D T G S S Q N Y P			

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
inssm