

QUERY	1	10	20	30	40
UniRef90_UPI00047038CE	S	Q D P F L N A L R E R V P V S I Y L V N G I K L Q G Q I E S F D Q F V I L			
UniRef90_A5EVF4	T	L Q D P F L N A L R R D H V P V S V F L V N G T R L Q G K I I E S F D Q Y V V L			
UniRef90_U2WCW1	S	L Q D P Y L N A L R K E R V P V S I Y L V N G I K L Q G Q I I E S F D A F V I L			
UniRef90_D5XFC7	N	L Q D A F L N Q V R K E N I P V T I Y L V N G F Q L K G M V K G F D N F C V I L			
UniRef90_UP100036350BD	N	L Q E I F L N A V K Q S A E P V T M F L V N G V M L Q G E V A A Y D L F C L L			
UniRef90_UP100036350BD	N	L Q E I F L N A V K Q S A E P V T M F L V N G V M L Q G E V A A Y D L F C L L			
UniRef90_W9BT77	N	L Q E V F L R T V Q E T G V P V T M F L I N G V M L Q G K V A A Y D L F C M L			
UniRef90_W9BT77	N	L Q E V F L R T V Q E T G V P V T M F L I N G V M L Q G K V A A Y D L F C M L			
UniRef90_U3A885	N	L Q D V F L T S V R D A N V Q V T M F L V N G V M L Q G R I A A F D L F C M L			
UniRef90_U3A885	N	L Q D V F L T S V R D A N V Q V T M F L V N G V M L Q G R I A A F D L F C M L			
UniRef90_UP10003B4E5C1	T	L Q D K F L N V L R R D N T P V T I Y L V N G F Q L K G V V R G F D N F S V L			
UniRef90_Q2RJF9	N	L Q D L F L N H V R K Q K I S V T V F L I N G V K L Q G V I T W F D N F C I L			
UniRef90_U4V699	N	L Q D A F L N H V R K E K I P V T M F L V N G V M L Q G A I V A Y D L F C M L			
UniRef90_UP10003B4DE60	N	L Q D T F L N Q I R K E S V P V T I Y L V N G F Q L R G V I R G F D N F T I V			
UniRef90_R5AWW6	N	L Q D A F L N Y I R K E K I P V T M F L V N G V M L Q G A I V A Y D L F C M L			
UniRef90_W0ABV4	N	L Q E I F L N A V R R S G D P V T M F L V N G V M L Q G A I V A Y D L F C M L			
UniRef90_W0ABV4	N	L Q E I F L N A V R R S G D P V T M F L V N G V M L Q G A I V A Y D L F C M L			
UniRef90_UP100040A4B97	N	L Q D T F L N S V R K T K T P L T I F L V N G V K L Q G V V T W F D N F C V L			
UniRef90_C8WWP4	N	I Q D T F L N Q V R K E R I P V T I Y L V N G F Q I R G L V K G F D S F T V I			
UniRef90_F4A0K0	N	L Q D V F L N Q V R K E R I P V T I Y L V N G F Q I R G L V K G F D S F T V I			
UniRef90_B0TB06	N	L Q D A F L N Q V R K E N L P V T I F L V N G F Q I K G M V K G F D S F T V F			
UniRef90_M7NFZ5	N	I Q D T F L N Q I R K N G V Y V T F L T N G F Q L K G Q V K S Y D N F T V L			
UniRef90_W0E861	N	I Q D T F L N Q A R K E N M P V I I Y L V N G F Q L K G I V R G F D N Y V V V			
UniRef90_T1CB62	S	L Q D P F L N V L R R E R I P V S V Y L V N G G K T I E S F D Q F V V L			
UniRef90_C9R9M2	N	L Q D A F L N Q V R K E A I P V T L F L I N G F Q L K G T I R G F D S F T V I			
UniRef90_A0L4B1	N	V Q D P F L N T L R R E K I V P V T V F L V N G I K L Q G M I T S F D N Y C L L			
UniRef90_U4Q3N6	N	L Q D L F L S T V R K K K N I A L T I I N G V K L T G V V T A F D N F C L L			
UniRef90_U4Q3N6	N	L Q D S T V R K K K N I A L T I I N G V K L T G V V T A F D N F C L L			
UniRef90_R5PYH7	N	V Q D V F L N H I R K E K I P V T V Y L M C G V K L Q G I I T W F D S F S M L			
UniRef90_U4TI08	S	L Q D P F L N T L R R E K V S V S I Y L V N G I K L Q G Q I E S F D Q F V V F			
UniRef90_T1A781	S	L Q E P F L N A L R K S K V P V S I Y L V N G I K L Q G Q I D S F D Q F V V F			
UniRef90_B9E1Z3	N	L Q D I F L N G A R K N R I P V S I Y L T N G F Q I R G I V K G F D N F T V I			
UniRef90_D4MKB0	N	L Q D V F L N Q A R K E K I P V T I Y I T N G F Q F K G L V R G F D N Y T V I			
UniRef90_UP1000464D8DB	N	L Q D V F L N S V R K S K N P L T I F L V N G V K L T G V V T S F D N F C V L			
UniRef90_UP100041B6C7F	S	L Q D P F L N L R K G R V P V S I F L I N G V K L Q G Q I E S F D Q F V I			
UniRef90_F3WSY4	N	L Q E I F L N A V R K S E D P V T M F L I N G V M L Q G Q I A G F D L F C M L			
UniRef90_F3WSY4	N	L Q E I F L N A V R K S E D P V T M F L I N G V M L Q G Q I A G F D L F C M L			
UniRef90_Q1GTN6	N	L Q D V F L N A V R R S D E S V T M F L V N G V M L Q G D I V A F D L F C M L			
UniRef90_Q1GTN6	N	L Q D V F L N A V R R S D E S V T M F L V N G V M L Q G D I V A F D L F C M L			
UniRef90_B0K9L8	N	L Q D I F L N Q V R K E H V P V T V Y L I N G F Q L K G L V K G F D N F T V V			
UniRef90_R7MQL3	N	L Q D V F L N Q C R K D K I A V P V T I Y L T N G F Q F K G V V K G F D S Y V V			
UniRef90_E1VLK5	S	L Q D P F L N A L R K E R I P V S I F L V N G I K L Q G Q V E S F D Q Y V V V			
UniRef90_UP1000405A98B	N	I Q D Q F L N T L R R E K I P V T V F L V N G F Q L R G Q V K A F D N F T V V			
UniRef90_Q0AYA9	N	L Q D A F L N Q V R K D K I P V T V F L V N G F Q L K G M V R G F D N F T V V			
UniRef90_Q0TRD3	N	L Q D I F L N N A R K E R I P V T I F L V N G V Q L K G I V K G F D S F T V V			
UniRef90_K0C4X6	N	L Q D T F L N T L R R E K H I P V V A I F L V N G I K L Q G Q I E S F D Q Y V V V			
UniRef90_UP100035E2171	I	Q D P Y L N A L R K E R I S V S V Y L V N G V K L Q G K V D S F D Q F V V V			
UniRef90_R5D0D1	N	L Q D A F L N Q V R R D K T S L T V F L M N G F Q I H G V I R A F D G F T V I			
UniRef90_D0KV5	S	L Q E P Y L N A L R R E H V P V S I Y L T N G F Q I K Q G Q I D S F D N F V V M			
UniRef90_G0A0X0	N	N Q D S F L N A L R K E H T P V V S I F L V N G I K L Q G R V D S F D Q Y V V M			
UniRef90_G5ZVZ9	N	L Q D V F L N Q V R K Q H V P V T I F L V N G V K L Q G V I T W F D N Y S M L			
UniRef90_UP1000476942B	N	L Q D S F L N Q V R K Q H V P V T I F L V N G F Q I K G N V R G F D N F T V I			
UniRef90_C8WCK1	N	L Q D V F L S A I M Q Q Q E P V T M F L I N G V M L Q G E I A A F D L F C V L			
UniRef90_C8WCK1	N	L Q D V F L S A I M Q Q Q E P V T M F L I N G V M L Q G E I A A F D L F C V L			
UniRef90_E4Q918	N	L Q D L F L N Q L R K E K V V N T I F L L S G F Q L K G T V K G F D N F T L I			
UniRef90_R7U6H1	T	L Q D V I L N K L R T P L T I F L V N G V K L Q G V I T W F D S Y C I L			
UniRef90_K2DSR5	S	L Q D T F L N N L R K T K A P V T F L V N G V K L Q G I V T W F D S F S V L			
UniRef90_D4LBR8	N	Q D V F L N Q A R K E R M V V T F Y L T N G F Q F K G V I K G F D G F T V I			
UniRef90_D5QC16	M N H V R R S K T P V T I F L V N G V K L Q G I I T W F D N F S V L				
UniRef90_R9L900	N	Q D V F L N Q A R K E K V P V T M Y L T N G F Q F K G I V R G F D S F T V I			
UniRef90_UP1000401E84B	N	L Q D L F L T A A S R E H E P M T V F L V N G V M L Q G A V A G F D Q F S L L			
UniRef90_UP1000401E84B	N	L Q D L F L T A A S R E H E P M T V F L V N G V M L Q G A V A G F D Q F S L L			
UniRef90_D9S3G7	N	I Q D G F L N Q V R K E R N P V T I Y L V N G F Q L K G H V R G F D N F T V V			
UniRef90_UP100046F3807	N	I Q D A Y L N Q L R K E R I P V T I H I I N G F Q L K G I V K G F D N F I I L			
UniRef90_D6XU48	N	I Q D Q F L N Q L R K D S I I T V F L L N G F Q L R G Q V K S F D N F T V I			
UniRef90_W8T6T4	N	I Q D Y F L N Q A R K E K I I T V F L M N G V Q L K G L V K G F D S Y I V I			
UniRef90_C4L1C0	N	I Q D H F L N Q L R K E M V P T T V F L V S G F Q I R G V I K S F D N F T V I			
UniRef90_UP1000401E84B	N	M Q D T F L N S L R K N T F V T F L T N G F Q L K G M V K S Y D N Y T V I			
UniRef90_R6HA69	N	L Q D A L L R Q V L R K E R I P V T F L M N G F Q L R G V V T G F D N F V V			
UniRef90_R6C9W7	N	L Q D M F L N Q L R K E K I M V T V F L V N G F Q L R G Y V K G F D T F T I V			
UniRef90_R6D1Q9	N	L Q D I F L T K A R K E K N V P V T L V N G F Q L R G V I T G F D C F V V			
UniRef90_E0TDY1	N	L Q D I F L N Q A R K S K T F L T I F L V N G V K L Q G T I S W F D N F C L L			
UniRef90_R9M4D8	N	L Q D I F L L R A K R D R L P V T M F L M N G F Q F K G V I T G F D A F V V			
UniRef90_R5R5H3	N	V Q D D F L N N I R Q N K I S V T V F L V N G V K L Q G L I T W F D S F S L L			
UniRef90_W7DX19	N	I Q D D V F L N Q L R K S K V S V T V F L V N G V K L Q G L I S G F D N F S I L			
UniRef90_D7UYK5	N	L Q D N F L N Q L R K E K I P V T V F L T N G F Q L R G R V T S F D N F T V L			
UniRef90_A1WE11	N	E P E P T L R T L R R E H V P V S I Y L V N G I K L Q G Q I E S F D Q Y V V L			
UniRef90_R5SG47	N	Q D I F L T K A R K Q G V P L T V F L V N G F Q M R G S V T G F D S F V V L			
UniRef90_UP100037AE53F	N	Q D Q F L N Q L R K E G I P V T V F L L N G F Q L R G Q V K G F D N F T V L			
UniRef90_I8AMI8	N	Q D Q F L N Q L R E R E N I P V T I Y L T N G F Q L K G L V K G F D N F T V V			
UniRef90_A0A037Z8P9	N	Q D Q F L N G A R K N K T D L T I Y L T N G F Q L K G T V K G F D S F T V V			
UniRef90_W5XA00	N	Q D M F L N Q V R K E G I G V T L Y L T N S V Q I R G Q V R G F D A F T V L			
UniRef90_UP10003B518E2	L Q E V F L H A V R D T A E P V T M F L V N G V M L Q G T I R A Y D L F S L L				
UniRef90_UP10003B518E2	L Q E V F L H A V R D T A E P V T M F L V N G V M L Q G T I R A Y D L F S L L				
UniRef90_F2JRM9	N	Q D V L N Q L R K D K I S I V F L T N G F Q L K G I I K G F D N F V V			
UniRef90_P58243	N	Q D T F L N S A R K N K I P V A I H T N G F Q M R G S V K G F D S F T V I			
UniRef90_UP1000382612E	N	Q D T F L N Q I R K E N I P V I I Y L V N G F Q I R G V V K A F D N F T V I			
UniRef90_D5BP11	N	Q E V F L N N I R K S H S P V T V F L V S G V K L Q G V I T W F D N F S I L			
UniRef90_G5GZF1	N	Q D N D L N Q V R E G G S V T I H V N G F Q M R G Y V R G F D S F I I L			
UniRef90_V2ZZY5	N	Q E I F L T Q A R R D R R M T M F L M N G F Q M R G Y V T G F D A F T V V			
UniRef90_D5DKS6	N	Q D Q F L N Q L R K E N I Y V T V F L L N G F Q L R G L I K G F D N F T V L			

QUERY  
UniRef90\_UPI00047038CE  
UniRef90\_A5EVF4  
UniRef90\_U2WCW1  
UniRef90\_D5XFC7  
UniRef90\_UPI00036350BD  
UniRef90\_UPI00036350BD  
UniRef90\_W9BT77  
UniRef90\_W9BT77  
UniRef90\_U3A885  
UniRef90\_U3A885  
UniRef90\_UPI0003B4E5C1  
UniRef90\_Q2RJF9  
UniRef90\_U4V699  
UniRef90\_UPI0003B4DE60  
UniRef90\_R5AWW6  
UniRef90\_W0ABV4  
UniRef90\_W0ABV4  
UniRef90\_UPI00040A4B97  
UniRef90\_C8WWP4  
UniRef90\_F4A0K0  
UniRef90\_B0TB06  
UniRef90\_M7NFZ5  
UniRef90\_W0E861  
UniRef90\_T1CB62  
UniRef90\_C9R9M2  
UniRef90\_A0L4B1  
UniRef90\_U4Q3N6  
UniRef90\_U4Q3N6  
UniRef90\_R5PYH7  
UniRef90\_U4TI08  
UniRef90\_T1A781  
UniRef90\_B9E1Z3  
UniRef90\_D4MKB0  
UniRef90\_UPI000464D8DB  
UniRef90\_UPI00041B6C7F  
UniRef90\_F3WSY4  
UniRef90\_F3WSY4  
UniRef90\_Q1GTN6  
UniRef90\_Q1GTN6  
UniRef90\_B0K9L8  
UniRef90\_R7MLQ3  
UniRef90\_E1VLK5  
UniRef90\_UPI000405A98B  
UniRef90\_Q0AYA9  
UniRef90\_Q0TRD3  
UniRef90\_K0C4X6  
UniRef90\_UPI00035E2171  
UniRef90\_R5D0D1  
UniRef90\_D0KVK5  
UniRef90\_G0AOX0  
UniRef90\_G5ZVZ9  
UniRef90\_UPI000476942B  
UniRef90\_C8WCK1  
UniRef90\_C8WCK1  
UniRef90\_E4Q918  
UniRef90\_R7U6H1  
UniRef90\_K2DSR5  
UniRef90\_D4LBR8  
UniRef90\_D5QC16  
UniRef90\_R9L900  
UniRef90\_UPI000401E84B  
UniRef90\_UPI000401E84B  
UniRef90\_D9S3G7  
UniRef90\_UPI00046F3807  
UniRef90\_D6XU48  
UniRef90\_W8T6T4  
UniRef90\_C4L1C0  
UniRef90\_UPI000470B7E7  
UniRef90\_R6HA69  
UniRef90\_R6C9W7  
UniRef90\_R6D1Q9  
UniRef90\_E0TDY1  
UniRef90\_R9M4D8  
UniRef90\_R5R5H3  
UniRef90\_W7DX19  
UniRef90\_D7UYK5  
UniRef90\_A1WE11  
UniRef90\_R5SG47  
UniRef90\_UPI00037AE53F  
UniRef90\_I8AMI8  
UniRef90\_A0A037Z8P9  
UniRef90\_W5XA00  
UniRef90\_UPI0003B518E2  
UniRef90\_UPI0003B518E2  
UniRef90\_F2JRM9  
UniRef90\_P58243  
UniRef90\_UPI000382612E  
UniRef90\_D5BP11  
UniRef90\_G5GZF1  
UniRef90\_V2ZZJY5  
UniRef90\_D5DKS6

50                  60

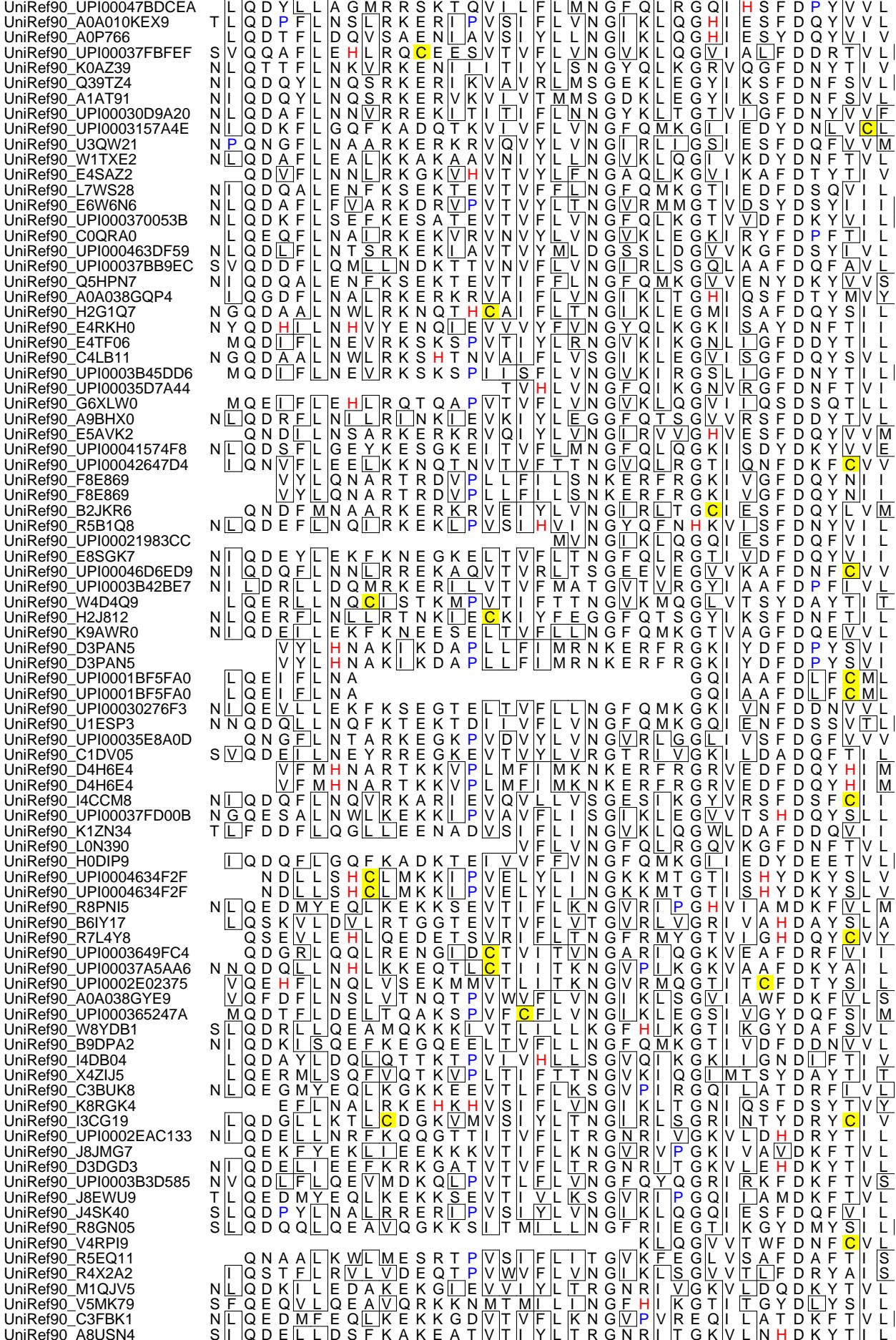
L K N T [V S Q M] V Y K H A I S T V P S R P V S H  
L R N T [V T Q M] Y K H A I S T I S P S R Q V  
L R N N [S Q M] V Y K H A I V S T I V P S R N I E  
L R D G H S Q [L V Y K H A I S T I M P T Q P I S  
L E D G K Q Q M] V Y K H A I V S T I S P L K P I S  
L R D G Q S Q [L V Y K H A I S T I S P L H P P V N  
L R D G Q S Q [L V Y K H A I S T V Q P L H P P V N  
L E R E G M Q L A Y K H A I V S T I Q P N A P I D  
L E R E G M Q L A Y K H A I V S T I Q P N A P I D  
L R E G Y V Q L A Y K H A I V S T I Q P A S P V D  
L R E G Y V Q L A Y K H A I V S T I Q P A S P V D  
L R D G H S Q [L V Y K H A I S T I M P A T P L V N  
L R D G K Q Q M] V Y K H A I S T I M P F R P V N  
L R D G Q S Q [L V Y K H A I S T I M P A Q N V S S  
I D S G K Q Q M] V Y K H A I S T F T P A R P V S S  
I D D G R Q Q M] V Y K H A I S T V A P A R P V S S  
L R D G M A Q [L V Y K H A I V S T V Q P A H P L N  
L R D G M A Q [L V Y K H A I V S T V Q P A H P L N  
L R D G Q Q L V Y K H A I S T I M P S G P V S S  
V E D G K Q Q L I Y K H A I S T F A P M R P V S S  
L D D N G R Q M [L V Y K H A I S T I T P A R S V S S  
L D E G K Q Q M] V Y K H A I S T I M P L R P V S S  
L E D G K Q Q [L I Y K H A I S T F V P A R P V N  
L D E G K Q Q M] V Y K H A I S T V M P M R P I N  
L R N Q [V S Q M] V Y K H A I S T V V P S R A V S  
L E S G R Q M M] V Y K H A I S T I S P V R P V S  
L K N S [V T Q] L V F K H A I S T V M P S R N I S  
R R D D H A Q L V Y K H A I S T I M P G Q P M  
R R D D H A Q L V Y K H A I S T I M P G Q P M  
L R D G H S Q [L V Y K H A I S V S T I M P A T P V N  
L R N T [V N Q M] V Y K H A I S T I V P A K P V K  
L R N S [V S Q M] V Y K H A I S T V V P S R R I S  
L E D G K Q M M] V Y K H A I S T I T P S K A I S  
L D D G K Q N [L I Y K H A I S T I T P L R A V S  
L R D G H S Q [L V Y K H A I S T I M P S Q P V N  
L R S N [V S Q M] V Y K H A I V S T I V P A R N I N  
L R E G M A Q [L V Y K H A I V S T I Q P A R P L N  
L R E G M A Q [L V Y K H A I V S T I Q P A R P L N  
L E R E R Q Q L V Y K H A I S T V Q P N G P I N  
L E R E R Q Q L V Y K H A I S T V Q P N G P I N  
L E S E N K Q L I Y K H A I S T I T P Q K P V  
L D E G K Q Q L V Y K H A I S T I V P A R A I S  
L R N T [V S Q M] V Y K H A I S T V V P A R N  
L D D G K Q Q [L V Y K H A I S T F A P Q R Q I S S  
I E D D Q K Q Q L V Y K H A I S T V A P L R P I S  
L D D G K Q Q L V Y K H A I S T V S P A K P I S  
L K N A I [N Q M] V Y K H A I S T V V P A R A V T  
L R S T V T Q M] V Y K H A I S T I V P M R  
L D D G K Q Q [L I Y K H A I S T I I P P R P V E Y  
L K N N [V S Q L] V Y K H A I S T I V P T R E I V N  
L K N T [V N Q M] V Y K H A I S T I V P S K N V N  
L R D G H [Q] L I Y K H A I V S T I M P S T P V N  
I D S G K Q Q M] V Y K H A I S T V T P A R P I N  
L R N D D A Q L V Y K H A I V S T V Q P V K S V D  
L R N D D A Q L V Y K H A I V S T V Q P V K S V D  
V E N N K Q Q [L I Y K H A I S S I M P S K P I N Y  
L R D G H S Q [M] V Y K H A I V S T I M P S V P V E E  
L R D D N H S Q [L V Y K H A I S T V M P V N P I K  
L D D G K Q Q L V Y K H A I S T I I P M K P I S  
L R D G H T Q L V Y K H A I S T V M P A T P V T  
L D D G R Q N L V Y K H A I S T V T P S R H I  
L R D G G Q Q Q L V Y K H A I S T M Q P G H P L N  
L E R G G Q Q Q L V Y K H A I S T M Q P G H P L N  
L D S E G K Q Q [L I Y K H A I S T I I S P Q R P V  
F E S G K Q M M] V Y K H A I V S T V T P A R Q V T  
L E D D G K Q Q [L V Y K H A I S T F S P Q R N V N  
L E D G K Q Q M] V Y K H A I S T I I P A Q P I N  
V E S G R Q Q Q [L I Y K H A I S T F S P A R N V T  
L E D G K Q Q [L I Y K H A I S T Y V P A K P V  
L T D N K Q Q M] V Y K H A I S T L V P A R P L K  
V E N G R Q Q N [L V Y K H A I V S T I T P T K P V K  
L D S G R Q Q V I Y K H A I S T I A P A R N V T  
UniRef90\_E0TDY1  
L R D G Q A Q L V Y K H A I V S T I M P S E P L D  
L D D G R Q Q V I Y K H A I S T I A P A R P V E E  
L R D G H T Q L I Y K H A I S T I M P S E A V E  
L R D S H S Q L V Y K H A I V S T I M P A T P V V  
L D E G K Q Q L V F K H A I S T F S P Q K N V T  
L R N T [V T Q M] V F K H A I S T I V P G R A V  
L S E G R Q Q M] V Y K H A I S T I A P L S P I D  
F E E G K Q Q L V F K H A I S T F S P Q R N V  
UniRef90\_I8AMI8  
L E D G K Q H [L I Y K H A I S T F T P H R P V E  
L D C G G K Q M] V Y K H A I S T I T P N R P I  
UniRef90\_W5XA00  
L D A P G K Q Q [L V Y K H A I V A S I V P T K P I S  
UniRef90\_UPI0003B518E2  
L E R E N M Q L V Y K H A I S T V Q P L Q P I S S  
UniRef90\_UPI0003B518E2  
L E R E N M Q L V Y K H A I S T V Q P L Q P I S S  
UniRef90\_F2JRM9  
L E S G K Q Q M] V Y K H A I S T L V P S K P V N  
UniRef90\_P58243  
L E D G K Q Q M] V Y K H A I S T I T P L R P I  
UniRef90\_UPI000382612E  
V E D G K Q Q [L V Y K H A I S T F T P M R N V N Y  
UniRef90\_D5BP11  
L R D Q H [V Q] L V Y K H A I S T I M P S V P V  
UniRef90\_G5GZF1  
V D S G K Q Q M] V Y K H A I V S T I T P A Q P V K  
UniRef90\_V2ZZJY5  
L S D G K Q Q [I I Y K H A I S T I V P E R P V  
UniRef90\_D5DKS6  
L I E S G K Q Q [L I Y K H A I S T F V P N K N I T

	1	10	20	30	40
UniRef90_R7H4G7	N	L Q D I F L N Q A R K E K I L V V T V F L T N G Y Q F K G I V K G F D S Y V V I			
UniRef90_UP100047E6C55	T	V Q D V F L G H V R R G K A P V T I F L V N G V K Q F K G I V T W F D A E T V L			
UniRef90_M4VJ17	N	V Q D V F L N K I R K E K M T V T V F L V N G V K Q F K G I V T W F D N F S L L			
UniRef90_R5EHW0	N	L Q E A I L K E V R R D K V P V T I F L M N G F Q L R G V I T G Y D S F V V L			
UniRef90_Q493V9	S	L Q D P F L N V L R R E R V P V F I Y L I N G Q F K L Q G E I E S F D K F V I L			
UniRef90_UP100036A8437	N	L Q D S F L N Q V R K E E N V S V T I H L V N G F Q I R G Y V K G F D N F T V I			
UniRef90_B0SBH9	N	I Q D Q L L N T A R K E E K I D L T V I Y L L N G V P K G K V V S F D N F T V I			
UniRef90_UP1000287F80E	N	I Q D N F L N S L R K E E S V P V T V Y L T N G F Q I R G L I K A F D N F T V I			
UniRef90_D9QQ94	N	L Q D S F L N Q V R R E D I T V T V Y L V N G F Q L S G K V T G F D N F T V I			
UniRef90_U6EVH8	N	L Q D I F L N S A R K E N R I E V T I H L T N G F Q I K G F V K G F D N F T V I			
UniRef90_UP100047C3353	N	L Q D V F L N Q V R K E H I P V T I Y L I S G Y Q L R G T V K G F D N F T V I			
UniRef90_I4X4M5	N	I Q D V Y L N Q L R K E N I P V T I Y L L N G F Q L K G T L K S Y D N F T V I			
UniRef90_K4LI09	N	L Q D F F L N Q I R K E G I P V T I Y L I N G F Q L K G T L R G F D N F T V I			
UniRef90_R6IAR0	N	L Q D S F L N H V R K E E N L G V I I Y L V N G F Q I R G L V R G F D N F T V I			
UniRef90_UP100046F726E	N	V Q D V F L N K V R K D N V P V T I F L V N G V K L Q G S I S A F D N F C V I			
UniRef90_C4K3V5	S	L Q D P F L N A L R K E R I P V S I Y L I N G Q F K L Q G Q I E S F D Q F V I L			
UniRef90_Q67NL2	S	L Q D G F L N L L R R E N P A T I Y L V N G Y Q L K G Y I R G F D N F T V A			
UniRef90_R6FQ79	N	L Q D I F L N G A R K S K M P V S I Y L T N G F L L K G L V K G F D N F T V I			
UniRef90_UP1000305933E	N	L Q D A F L N N I L R K S N T F V T V F L L N G F Q L K G T V K S Y D N F T V L			
UniRef90_A0A023D448	S	I Q D Q F L D Y L N Q N Q A A V T I F L V N G V K L Q G V V P A F D G E V V L			
UniRef90_R5J4H3	N	Y Q D V F L N Q A R K D R T M L T V F L M N G F Q M R G I T G F D Q F V I M			
UniRef90_K6EB23	N	I Q D Q F L N Q C H C R K D N T H V T V F L L N G F Q L R G Q I K G F D N F T V L			
UniRef90_R6M67	N	L Q D V F L N Q V R K E N V G V I I H L T N G F Q L R G N V K G F D N F T V I			
UniRef90_UP10004280210	N	I Q D T F L N Q L R K D H V Q T T V F L L N G F Q L R G T I R A F D N F T V I			
UniRef90_UP100047E6AC	N	L Q D V F L N Q V R K D N T P I T V Y L V N G F Q L K G L V K G F D N Y T I V			
UniRef90_R1CFH9	N	L Q D S F L N K V R K E N I S I T I Y L V N G Y Q L K G A V K G F D N Y T I V			
UniRef90_R6LW36	N	Y Q D Q F L L N Q A R K G R T L V T V F L M N G F Q M R G V I T G F D A F V I L			
UniRef90_UP100035DD840	N	I Q D T F L N T V R K D K S P I T V Y L V S G V K L T G K I R S F D K Y S V L			
UniRef90_F0S220	N	L Q D T Y L N R L R K E R I P V S I V F L S K G T R L Q G V I T F F D Q F T I L			
UniRef90_W0DAA5	L	Q E A F L N T A R K R K V K V T I F L I N G V R I Q G K I R S F D T F T I L			
UniRef90_UP100046ECA58	N	V Q E A F L N Q I R R S R A A V T V F L V N G V K L Q G F I T W F D D Q V M L			
UniRef90_K9CLS6	N	L Q D G F L N Q V R K D G T A V T I H L V N G F Q I K G T V K G F D N F I V M			
UniRef90_R6GMG2	N	L Q D I F L T K V R K Q S L P V S I F L M N G F Q L R G S V T G F D S F T V V			
UniRef90_E6QTH1	L	Q D P F L S S L R K D Q P V S I V F L V N G Q K L Q G Q I E A Y D Q Y V V L			
UniRef90_R5HHY0	N	L Q D Y L L S K K L R R S R M G A T V F L V N G F Q I R G E I R G F D S F V V V			
UniRef90_E4TFS1	N	I Q D V F L N F F V R K K R K I P V T I Y L I V N G V K M E G V V K G F D N F V V V			
UniRef90_Q3SIN9	N	L Q D V F L N T L R K E R I P V S I V F L V N G I K L M G R I E S F D Q F V V L			
UniRef90_A6LNU8	N	L Q D R F L N I L R T S K I P V V K V Y L V N G F Q T K G I I R S F D N F T M L			
UniRef90_UP10003B6FFDC	L	Q E L L L S R A R R N R V P V V T I F L M N G F Q L R G V I T G Y D A F V V M			
UniRef90_W0B509	L	Q D S F L K E L A K E K M P V S I F L V N G Q K L H G V I A C F D E H V I M			
UniRef90_UP1000406A7BE	N	L Q D I F L N N A R K N K I S V V I Y L T N G F Q L K G I V K G F D P F T V V			
UniRef90_B2V268	N	L Q D I F L N S A R K N K I P V T V Y L S T G F K L N G I V K G F D S F T V V			
UniRef90_T0N6L3	N	L Q D I F L N G A R K N K I P V V T I H L T N G F Q I K G T V S G F D S F T V V			
UniRef90_R7RRRV4	N	L Q D V F L N N A R K G K T P V V S I H L V N G F Q L K G L V K G F D S F T I I			
UniRef90_C5VST5	N	L Q D L F L N S S R R N K I P V T I Y L T N G F Q L N G L V Q G F D N F T I I			
UniRef90_T0I884	N	L Q D N F L N Q A R K E N I P V I I H S L N G F P V V R G F D S F T V T			
UniRef90_L0K9A3	N	L Q D K F L N Q A R K A D I K V T I F L V N G V R L S G M I E G F D N F T V V			
UniRef90_UP100016C00A4	N	L Q D V V L N Q L R K E R I I S T V F L T N G F Q I K G T I K G F D N F V V L			
UniRef90_G2LIF2	N	L Q D T F L N Q V R R E R S L V A I Y L V S G V K L T G R I R G F D K Y S V V			
UniRef90_M1Z5R5	N	L Q D V F L N K A R K D N T V I T I Y L I N G Y Q I K G T V K G F D N Y T I I			
UniRef90_R5XMF61	N	L Q D L F L N N A R K E R I P V T I F L M N G V Q V K G N V R G F D S Y I I L			
UniRef90_E3PY36	N	L Q D Q L L N Q A R K E K I F L T I F L V N G V Q I K G T I K G F D N Y V I L			
UniRef90_A0A017RWA7	N	L Q D V F L N Q A R K E K I P V I L H L V N G Y Q I K G S V K G F D N F V I I			
UniRef90_UP10002DB17F1	N	V Q D A Y L N K I L R K E K V Q L T V F L T N G F Q I R G I I K S F D N F T I I L			
UniRef90_D9SF10	N	L Q D P F L N A L R R E R H V Q V A I Y L V N G I K L Q G Q V E S F D Q Y V V L			
UniRef90_D4H0L6	N	I Q D V F L N H L R K R R I S A T I Y L V N G V K I E G Y V K G F D N F V V I			
UniRef90_E6Y126	N	L Q D M F L N T V R K Q K I S I T I F L V N G V K I T G I V T S F D N F S I L			
UniRef90_A6NSZ8	N	N Q D L F L T R L N R T R A N V T F F L M N G Y Q L R G Q V A G F D A F V V L			
UniRef90_F7YXR5	N	L Q D R F L N T L R V G K I E V K I Y L V N G F Q T K G Y I R S F D N F T I I L			
UniRef90_B8CX91	N	N Q D N L L N Q V R K K N V P V V I Y L V N G F Q I K G K V T G F D N F T I I L			
UniRef90_Q1LSQ5	S	L Q D I F L N V L R R E R I Q V S I Y L F N G Q K L Q G H I E S F D Q F V I V			
UniRef90_G9YVJ3	N	L Q D L F L L R A R K S H A S L T V F L V N G Y Q L R G Q V T G Y D A F V V V			
UniRef90_D2RKG7	N	L Q D S F L N R V R S E K K T I V V Y L L N G F Q V R G R V W G F D N F T V I I			
UniRef90_F4F0G5	N	N Q M R K S E N R A V S I H I R G F Q M K G Y V K G F D N F T V I I			
UniRef90_C0GDR3	N	N Q D N F L N L A R K E D M M L T V F F L V N G Y Q I K G T V R S F D N F T I I L			
UniRef90_UP100037C2CC6	N	L Q D T F L N E V R K V K V T V F V V N G F R I T G I V E G F D N F T I I L			
UniRef90_Q187T2	N	N Q D L F L N N A R K E R I P V T I Y L V N G V Q V K G L V K G F D S Y I I L			
UniRef90_D3SMM7	N	L Q E A F L N T A R K R R I K L T V Y L I N G V R L Q G R V R S F D I Y T I I L			
UniRef90_R6ALT2	N	N Q D T F L N E A R K E N V P V S I F L M N G V Q L K S F D S F T V V L			
UniRef90_Q1K055	N	N Q D Q Y L N Q A R K E R V K V T V M M S G E Q I K G Y I K S F D N F T C V L			
UniRef90_N8XFS9	S	L Q D P F L N A L R K E H I P V Y I F L V N G Q K L Q G H I E S F D P Y V V L			
UniRef90_B2A3Y0	N	N Q D N V L N Q V R K N K I T V T I F L V N G Y K I R G I I K S F D N F T L L I			
UniRef90_R6MT18	N	N Q D S F L N K V R A E K K I V I Y L L N G F Q V R G K V W G F D N F T V V I			
UniRef90_H2CK18	N	N Q D F V L N S A R K E K I E L T F Y L L N G F Q V R G K V Q S F D N F T I I V			
UniRef90_T0I8L2	N	N Q D N F L N Q A I N K N I P V I I R L V N G F P I R G L V K G F N S F T V V I			
UniRef90_N9XQV3	N	N Q D I F L N G A R K N R I P V E V Y I S N G Y K L K G F V K G F D N F T V V V			
UniRef90_I4B8T4	N	N Q D F I L N Q I R K E K M G I T I Y L S N G N V P I K G R V V S F D N F T I V			
UniRef90_R8W492	N	N Q D A F L N V V R Q Q G V I T V I L M N G Y Q M R G I I R G F D S F I V I			
UniRef90_B2V6C4	N	L Q E K F L N T I R K E K V R C D V Y L V N G V K L E G K I K Y F D N F V I L			
UniRef90_U5T5W0	N	R K E K V P V S I Y L V N G I K L Q G Q V D S F D Q Y M V I			
UniRef90_E6QS62	N	Q D Q F L N A L R K E H I L V S V F L V N G I K L V G K I E S F D Q Y M V I			
UniRef90_B1R0E6	N	Q D Q Y L N Q A R K E H V K V T K M M S G D K F E G H I K S F D S F C V L I			
UniRef90_UP10003621E0C	N	Q D Q F L N Q A R K E K K A V F I Y L V N G V K V K G T V K G F D S Y V I L			
UniRef90_B6FXF0	N	Q D F L N Q A R K E K K A V F I Y L L S G V K L T G R I R S F D K Y S V V			
UniRef90_Q1II9	N	Q D S F L N T A R K D K T I V T I Y L L S G V K L T G R I R S F D K Y S V V			
UniRef90_K7SMP1	T	V Q E V F L Q H L R Q A E A P V T V F L V N G V K L Q G V V A Q F D G Q T L L			
UniRef90_A0A022GWJ0	N	Q N D F L N T A R K E R K V R E V E V Y I L V N G I K L T G S I E S F D Q F V V M			
UniRef90_M1RTW8	N	Q D L M L N Q I R K S K V K V S I Y L L N G V R L Q G K V R S F D Q Y T I L			
UniRef90_I4Z3U9	N	Q D T I L L Q H L R D G G N I E V T M F L V N G R L L G W V K R F D S F T V V L			
UniRef90_R6T235	N	Q D V I L N Q I R K E R V P V S I Y L V N G I K L Q G Q V I E S F D Q F V V V			
UniRef90_B8KNJ8	N	Q E K F L N T I R K E K V R C D V Y L V N G V K L E G K I K Y F D N F V I L			
UniRef90_U1WT87	L	Q E Y F L N Q I R T S K T P V T V F T T N G F Q I R G I I T S F D S Y T V A			

50                    60

UniRef90_R7H4G7	M D D G K Q N   L V Y K H A   S T V P T R A I   S
UniRef90_UPI00047E6C55	L R D G H T Q L V Y K H A   S T V M P L V P   V S
UniRef90_M4VJ17	L R D A H I Q L V Y K H A   S T I M P G G P L   S
UniRef90_R5EHW0	V S D G K Q Q M   Y K H A   S T L A P M K P L   K
UniRef90_Q493V9	L R N T V N Q M   Y K H A   S T I V P S R V V S Y
UniRef90_UPI00036A8437	I E N G K Q Q M V Y K H A   S T I T P F K T L   S K
UniRef90_B0SBH9	L E N N K Q N L V Y K H A   S T I I P A K P I   K
UniRef90_UPI000287F80E	I D S G K Q Q M V Y K H A   S T F T P L R S V S
UniRef90_D9QQ94	L D D D Q Q Q M   Y K H A   S T I T P E K A V   E
UniRef90_U6EVH8	L D S G K Q M L   Y K H A   S T I T P S K D I
UniRef90_UPI00047C3353	L E N D Q Q Q L   Y K H A   S T I S P S K N V   V
UniRef90_I4X4M5	V E E G K Q Q L   Y K H A   S T F S P S K P V   A
UniRef90_K4LI09	L E E S G K Q Q M   Y K H A   S T V M P L K A L   A
UniRef90_R6IAR0	I E N G K Q Q L V Y K H A   S T I S P A A N I   T
UniRef90_UPI00046F726E	L R R D K Q Q L V Y K H A   S T V M P T T P   V
UniRef90_C4K3V5	L K S T S P Q V I Y K H A   S T V V P S R A V   S
UniRef90_Q67NL2	I V E D G R V Q L V Y K H A   S T I T P A R P   L
UniRef90_R6FQ79	L D S G K Q M M V Y K H A   T T I S P N K P I   S
UniRef90_UPI000305933E	I E S G K Q K H L I Y K H A   S T F S P S K S I   S
UniRef90_A0A023D448	R R D G H A Q L V Y K H A   S T I M P L S P V   V
UniRef90_R5J4H3	L S D G R Q Q M   Y K H A   V S T M T P A M P   V
UniRef90_K6EB23	F E S S G K Q Q L V F K H A   S T F A P P Q R N   V
UniRef90_R6M67	L D S G K Q M M V Y K H A   S T I S P L Q P   L K N
UniRef90_UPI0004280210	L D D G K Q Q L I F K H A   S T F A P S K N V   N
UniRef90_UPI00047E66AC	L D S G K Q Q M   Y K H A   V S T I S P T V P   V N
UniRef90_R1CFH9	L E E S G K Q N L   Y K H A   S T I T P N K P   V S
UniRef90_R6LW36	L Q S G K Q Q M   Y K H A   V S T I I P S V P   V T
UniRef90_UPI00035DD840	L E N N S Q S Q L   I F K H A   S T V V S G R A G A H
UniRef90_F0S220	L E N G G Q Q Q L V Y K H S   A T I V P S R P   V K N
UniRef90_W0DAA5	V E D G R Q Q Q L V Y K H A   S T I V P A E K L
UniRef90_UPI00046ECA58	L R D D Q T Q L   Y K H A   S T V M P S I A   V N
UniRef90_K9CLS6	I D S G K Q Q M   Y K H A   S T V T P A T T   V K
UniRef90_R6GMG2	L D D G K Q Q V   Y K H A   S T I I P V H P   V
UniRef90_E6QTH1	L K N M V T Q M V Y K H A   S T I V P A R A   V
UniRef90_R5HHY0	I S D G K Q Q M V Y K H A   S T V V P E R P   L S
UniRef90_E4TFS1	L K D D S Q K M   Y K H A   S T I S P N E E I   A
UniRef90_Q3SIN9	L K G Q D Q Q M   F K H A   S T I S P S R E V
UniRef90_A6LNU8	L E N G N Q Q Q L   Y K H A   V S T I M P
UniRef90_UPI0003B6FFDC	V N E G R Q Q L   Y K H A   S T I V P F R P   V E
UniRef90_W0B509	L K N S I T Q M V Y K H A   S T V V P A R P   V T
UniRef90_UPI000406A7BE	L D Q G K Q M L   Y K H A   T T V T P A K P
UniRef90_B2V268	L D S G K Q M L   Y K H A   I T T V T P E K P
UniRef90_T0N6L3	L D S R Q Q M L   Y K H A   V S T I T P L K P
UniRef90_R7RRRV4	L E S G K Q I L V Y K H S   V T T V T P A K P   V L Y
UniRef90_C5VST5	L D D G K Q M M   Y K H A   V S T I I P T T P
UniRef90_T0I884	L E E G K Q Q L V Y K H T   S T I L P L R Q F S Y
UniRef90_L0K9A3	V Q D K G Q Q L V Y K H A   S T V V P A K G I D N
UniRef90_UPI00016C00A4	V D S G K Q Q Q L L   Y K H A   S T I V P S K
UniRef90_G2LIF2	L E A G Q Q Q L I F K H A   S T I S V M R
UniRef90_M1Z5R5	L D S G K Q Q L   Y K H A   S T I I P V K S I N
UniRef90_R5XM61	L E N R Q Q N M   Y K H A   V S T I I P A K
UniRef90_E3PY36	L D D G K Q N I V Y K H A   V S T I I P A K
UniRef90_A0A017RWA7	L D D K Q I M   Y K H A   V S T I I T P T K P   L L Y
UniRef90_UPI0002DB17F1	I E E G R Q Q Q L I F K H A   S T F A P V K N I   D
UniRef90_D9SF10	L K N N V V Q M V Y K H A   S T I V P A R S V   N
UniRef90_D4H0L6	L K D E S S Q K M   Y K H A   S T I E P S E E I
UniRef90_E6Y126	L R D G H T Q L V Y K H A   V S T I M P G Q S L   D
UniRef90_A6NSZ8	I T D D G K Q Q M   Y K H A   S T I T P E R P   V D
UniRef90_F7YXR5	L E S E N Q Q Q L   Y K H A   S T I M P T T Y V K
UniRef90_B8CX91	I I N S G K D Q M V Y K H A   S T I I P Q E K V   D
UniRef90_Q1LSQ5	L K N T I S Q M V Y K H A   V S T I V P S K F V S H
UniRef90_G9YVJ3	L M T G K Q Q V I Y K H A   S T I V P E R A L   S
UniRef90_D2RKG7	M E E G K Q Q L   Y K H A   S T I A P L E N
UniRef90_F4F0G5	L E V G K Q N L V Y K H A   S T I V A T K
UniRef90_C0GDR3	L N D N K Q Q L V Y K H A   V S T I I P F R N I   N
UniRef90_UPI00037C2CC6	I S Q G K Q E M V Y K H A   S T I V P E Q E V K
UniRef90_Q187T2	I E N R Q Q N M   Y K H A   V S T I Q P G K Y I   N
UniRef90_D3SMM7	L E D G R Q Q L V Y K H A   S T I I P A
UniRef90_R6ALT2	L S E N R S Q L I Y K H A   I S S I T S A
UniRef90_Q1K0S5	I I S S G G D F L L   Y K H A   I S S I T S A
UniRef90_N8XFS9	L K N G Q I Q I I Y K H S   S T V I P F T R N
UniRef90_B2A3Y0	M E N G E Q Q M   Y K H A   V S T I I P G K T L   N
UniRef90_R6MT18	I D D G K R Q E L I Y K H A   S T I I I P K P   V S
UniRef90_H2CK18	I E D G K Q S L I Y K H A   S T I S P L R Q F S Y
UniRef90_T0I8L2	L E E T G K Q Q L V Y K H A   S S I T P G I P
UniRef90_N9XQV3	L D D G K E M L V Y K H A   T T I S P E K P   I K
UniRef90_I4B8T4	L E E H D H K Q L V Y K H A   V T T I S P E K P   I K
UniRef90_R8W492	L E D G R Q Q M V Y K H A   S T M I P S Q R V   E
UniRef90_B2V6C4	L K E E G R Q V L V Y K H A   T T I S P K K E I   E
UniRef90_U5T5W0	L R N S I S Q L V Y K H A   S T I V P S R N V
UniRef90_E6QS62	L K D N I S Q A I F K H A   S T L S P S R Q V   N
UniRef90_B1R0E6	L E D E N N M M L   Y K H S   S T I T P E K P
UniRef90_UPI0003621E0C	A E S D G D I L V Y K H A   A T I T S S
UniRef90_B6FXF0	L E D K K Q S L   Y K H A   V S T V Q P V D N I   S
UniRef90_Q1II9	L D T N N Q Q L I F K H A   S T V V L P R P
UniRef90_K7SMP1	L R D G H V Q L I V Y K H A   S T I M P
UniRef90_A0A022GWJ0	I L S G G G T Q I V Y K S S A   S T I V P A
UniRef90_M1RTW8	I E D G K Q Q L V Y K H S   T T I I P A E R I   D
UniRef90_I4Z3U9	V R G S S S Q V V Y K H A   S T I I P A E P
UniRef90_R6T235	L D E G K Q N I V Y K H A   S T I V P S R Y I   N
UniRef90_B8KNJ8	L K N T V S Q M V Y K H A   S T V V P G R V V   V
UniRef90_U1WT87	L Q S N K Q N I L Y K S A   S T I A P L K P   V T

Number of entries per organism



50                    60

UniRef90_UPI000470D7B1	L R D G H T Q L V F K H A V S T I M P  V A P L T
UniRef90_R5XU50	L R D G H T Q L V Y T H A V S T I M P A T P I D
UniRef90_I2F3N2	L E D G Q E Q L V Y K H A I K M M V P Q K Y V K
UniRef90_UPI00038228B0	M S R G Q Q H L I Y K H A I S Q I V S R R P
UniRef90_UPI00047BDCEA	L V D G K Q H M V Y K H A I S T I V P E R A V
UniRef90_A0A010KEX9	L K N T V S Q M V Y K H A
UniRef90_A0P766	L N G S A P Q L I Y K H A I S T I V P S Q K I T
UniRef90_UPI00037FBFEF	R R D G H V Q L V Y K H A V S T I M P
UniRef90_K0AZ39	L D D G K Q Q V I Y K H A I L T M S P A R N V D
UniRef90_Q39TZ4	M E I Q G D M L I Y K H A I S S I T
UniRef90_A1AT91	L D L N C D V L V Y K H A I S T I T S A
UniRef90_UPI00030D9A20	I E D K G Q Q L V Y K H A I T S I L P Y K Q V
UniRef90_UPI0003157A4E	L T Q G K Q H L I Y K H A I S T F T L D D A V E E
UniRef90_U3QW21	L S T G G M Q A I Y K R A I S T I
UniRef90_W1TXE2	L S S Q E K E Q L I Y K H A I S T I
UniRef90_E4SAZ2	L S D K K Q L I Y K H G T T I V P S Q T V E
UniRef90_L7WS28	V S Q G K Q H L I Y K H A I S T F M
UniRef90_E6W6N6	M K D E G I R M V Y K H A I S T I Q P N V P M S
UniRef90_UPI000370053B	Y S G G K D N L I Y K H A I S T F M
UniRef90_C0QRA0	L K E E G R Q V L V Y K H A I T T V I P K R
UniRef90_UPI000463DF59	L E D D K S Q Q M I Y K H A I A S I K P S K Y I
UniRef90_UPI00037BB9EC	L E S S G G A Q L V F K H A I S T V L P A
UniRef90_Q5HPN7	L S Q G K Q H L I Y K H A I S T F T
UniRef90_A0A038GQP4	L N S T G S Q V L F K H A I S T I
UniRef90_H2G1Q7	L S D D G Q Q Q L I Y K A K I S T I S P A
UniRef90_E4RKH0	L R D Q R D Q M I Y K H A I S T I A P V E K I S
UniRef90_E4TF06	L S E D K Q Q L V Y K S S V S T T V H P
UniRef90_C4LB11	L T D A H Q Q M I Y K A K I S T I A P
UniRef90_UPI0003B45DD6	T S E G R Q Q L V Y K S S A I S T V F P
UniRef90_UPI00035D7A44	I D S G K Q Q M I Y K H A I S T V T P A R P I N
UniRef90_G6XLW0	L R D N H I Q L V Y K H A V S T I M P V A A L T
UniRef90_A9BXH0	L K N G E Q S L V Y K H A V K M M V P S K Y I K
UniRef90_E5AVK2	L R T G G M Q V I Y K K A I S T V Q H D T P
UniRef90_UPI00041574F8	L D S G K V Q I I Y K H A I S T F I R A
UniRef90_UPI00042647D4	L S N G K Q Q L L F K H A I S T I S P Q T P V
UniRef90_F8E869	I D D D I K T N I Y K Q D L A T I A A A R N V
UniRef90_F8E869	I D D D I K T N I Y K Q D L A T I A A A R N V
UniRef90_B2JKR6	L R T P G L Q G I Y K R A I S T I T G S R P
UniRef90_R5B1Q8	V E D G V Q R L I Y K H A I S T I T
UniRef90_UPI00021983CC	L K N T V S Q M V Y K H A I S T V V P A R A V N H
UniRef90_E8SGK7	L S Q G R H H L I Y K H A I S T F
UniRef90_UPI00046D6ED9	V K T P G N Y L L Y K H A I A Y I R P F E P L K
UniRef90_UPI0003B42BE7	L I D G R Q Q L I F K H A I S S I Q P M R Y V D
UniRef90_W4D4Q9	L Q D G R Q N V L F K S A V S T V V P L K P V S
UniRef90_H2J812	L E K K G Q Q L V Y K H A V K M I V P M K Y V K
UniRef90_K9AWR0	L S Q G K N H L I Y K H A I S T F V
UniRef90_D3PAN5	I D D E V V K I H Y K R D I A T I A S A K T I
UniRef90_D3PAN5	I D D E V V K I H Y K R D I A T I A S A K T I
UniRef90_UPI0001BF5FA0	L R E G M S Q L V Y K H A V S T I Q P A N P L N
UniRef90_UPI0001BF5FA0	L R E G M S Q L V Y K H A V S T I Q P A N P L N
UniRef90_UPI00030276F3	L D Q G K E N L I Y K H A I S T F V D A Q
UniRef90_U1ESP3	F S Q N K N Q H L I Y K H A I S T F T
UniRef90_UPI00035E8A0D	L S A S G T Q A I Y K S A I S T I Q L Q G R V
UniRef90_C1DV05	L D N G Q Q Q L I Y K H A I S T I V
UniRef90_D4H6E4	I D D E M K I L L N K N D I A T V A A A K T V
UniRef90_D4H6E4	I D D E M K I L L N K N D I A T V A A A K T V
UniRef90_14CCM8	I E D R D D R L V Y K H A L S I Q A A E P
UniRef90_UPI00037FD00B	L T D G T Q Q L V Y K A K I S T I T
UniRef90_K1ZN34	L K G G I M Q L V F R H A V S T I V V P N K N V E
UniRef90_L0N390	L E S G K Q Q L I Y K H A I S T Y A P Q K N V
UniRef90_H0DIP9	Y S Q N K H H L I Y K H A I S T F T
UniRef90_UPI0004634F2F	L N D R K Q N F I F K H G V S T I L P S E K V
UniRef90_UPI0004634F2F	L N D R K Q N F I F K H G V S T I L P S E K V
UniRef90_R8PN15	M V K G K Q Q L V Y K Q A I S T I
UniRef90_B6IY17	L T G G G L Q L I Y K H A V T T L V P S S P L S
UniRef90_R7L4Y8	L D D G K K K M V Y K H A I S T I
UniRef90_UPI0003649FC4	V T N K Q S L I Y K H A V S T I V
UniRef90_UPI00037A5AA6	V N T G K Q S M V Y K H A L S T I V
UniRef90_UPI0002E02375	L Q T D K S N L I N K A A I S T I V P S K R V S
UniRef90_A0A038GYE9	V Q S P G V Q M V Y K N A V S T V I E Q H A L
UniRef90_UPI000365247A	L A S N R D Q L I M K S A I S T I V P K T A
UniRef90_W8YDB1	I E S E G Q H L I Y K H A I S T I
UniRef90_B9DPA2	L S Q G R N H L I Y K H A I S T F T
UniRef90_I4DB04	L E E G K Q Q M L F K Q M I S T I S P L R P V N
UniRef90_X4ZIJ5	L S D G K Q S V L F K S A V S T I V P L R P V S
UniRef90_C3BUK8	M M V G G K Q L V Y K Q A I S T I
UniRef90_K8RGK4	L N G T G S Q V I Y K H S I A T V
UniRef90_J3CG19	L D N D S S S Q V V Y K H A I S T I S P Q Q A
UniRef90_UPI0002EAC133	L E V E G Q H L I Y K H A V S T I V
UniRef90_J8JMG7	L S D G K Q Q F L Y K Q A I S T I
UniRef90_D3DGD3	L E D G Q P N L I Y K H A I S T I V
UniRef90_UPI0003B3D585	I E D G S E F L I F K K M V S T V Q T A A P L
UniRef90_J8EWU9	V M H G K Q Q L V Y K Q A I S T I
UniRef90_J4SK40	L K N T V N Q
UniRef90_R8GN05	F E E G K Q Q L I Y K H V I S T I
UniRef90_V4RPI9	L R D G H S Q L V Y K H A I S T V M P N H P V
UniRef90_R5EQ11	I T D H H Q Q M I Y K D K I S T I T I K K P
UniRef90_R4X2A2	L R S T G S Q T I F K S A V S T V M T Q H A F S
UniRef90_M1QJV5	L K S E G T N L I Y K H A I S T I V V
UniRef90_V5MK79	L E E G K Q Q L V Y K H A I S T I
UniRef90_C3FBK1	M V H G K R Q L F Y K Q A I S T I
UniRef90_A8USN4	L D V E G Q N L I Y K H A V S T I V E G K

	1	10	20	30
UniRef90_R8UHF6	Q D D M Y N R L K E N K A V T T I	F L K T G V R I I G Q Q I V A V D K Y T V L		
UniRef90_A0A023DX78	T L R K D F L S V L C A Q K V S V T I	F L M S G I K L Q G C I E Q F D D C L I L		
UniRef90_UPI000470313E	T V Q S N F L N T L T E R I P V T L	L I T K N G F Q M K G V K W F H D Q T I V		
UniRef90_Q73AM9	L Q E E L Y K Q I K E E K G I V T I	F L K S G V R I V G E V V A I D K F T V L	M V N G I K L H G I V D S F D Q Y V V M	
UniRef90_UPI00036CA090	N L Q E D M Y E Q L K D K K G D I T I F L K S G V P L H G Q I L A T D K F T V L			
UniRef90_R8G7F9	S M Q E R L L Q E V I Q K K K I T S L I L I N G F H M K G I V K E Y D A F S I L			
UniRef90_C3ECC3	N L Q H L Q L S T H S A S R N P V V V H L S N G I R L H G V I V A A D N Y M V L			
UniRef90_H1RY47	V Q E M F L D Y V I S H Q V P V A L I T K N G V H M K G F I I A T D P Y T V T			
UniRef90_UPI00036990A0	S L Q E Q F L T E A I Q Q E V P V T L I T K N G I Q M K G M I T S F D V Y T I V			
UniRef90_H3SCR3	L L Q T R F L N E I I E S G R V T I Y T T N G V P L K C K I G H D N F T I L			
UniRef90_K6DL1	N I Q N E Y Y E Q L K N K K N E M V I L K N G F R V S G Q I L S I D R F T V L			
UniRef90_C3AXB7	S V Q N K I L V Q L K E Q Q A S I I V Y L I N G Y R L G G K L K D F D T F T V L			
UniRef90_C8W3I4	L L Q D R Q L A F H R A S R H P V V L H L T S G V R L H G V V V G A D A Y M V L			
UniRef90_V217N4	L L Q Q L Q F S T L S A S H S P V V V H L S S G I R L H G V I V D T D N Y M V L			
UniRef90_A0A022GP43	N I Q D Q F L N Q I R K E S T F V T V F L L N G F Q L R G Q V K G F D N F T I L			
UniRef90_L0MZM2	S V Q N R F L D R L I A E R I P V T L I T K N G V Q M Q G T L K S T D R Y T I L			
UniRef90_UPI000248C607	S C Q D K F I E Q L L I E K G E E N I F L I G G Q R M T G K I I Q T V F I M			
UniRef90_J8N3C4	Q D D H R L H I L Q E A Q L E C T I I T V N G I H I K G T V Q S F D K Y V V L			
UniRef90_B5Z503	Q N Q L I E K A K R K R S M A I Q I F L K S G V P I R G K V I A H D N H S V I			
UniRef90_U4TCL1	I Q N E L Y E Q L K L A K K E I T F L I I L L K G L H V K G L I R G F D T Y S V L			
UniRef90_F5SEH1	I Q E D M Y K E L I D T E R M V T I F L K S G V P I R G Q I L S M D T Y S V L			
UniRef90_H2CG74	I Q E D M Y K E L I D K K R T V T I F L K S G V P I R G K I L S T D K F T V M			
UniRef90_C3EE76	I Q E D M Y K E L I D K K R T V T I F L K S G V P I R G K I L S T D K F T V M			
UniRef90_A0A024E1E0	Q F Q Q L A A H S N S R A P V V V H L S N G T R L Q G I V L A T D D Y M L V L			
UniRef90_C3CC47	V Q S R E L R Q A M G K R I I V F F R N G S R L E G R L K G F D R F T L K			
UniRef90_UPI00046A4199	S L Q D Q V L S S S L L G K D V V V F L I S G T R L E G K L L D F D N F T L A			
UniRef90_X2M473	M F E Q L K K K K G Q V T V F L L K S G V P I R G E I I T D K F T V L			
UniRef90_C3IB87	N Q Q F S T L N S L R R A R T W V D V Y L V T G T C H G Q I R S F D S N M L L			
UniRef90_U3R3C8	S L Q E K T S E L L K E K K K P I T V L K S R V R T Q G I L A M D K F T I L			
UniRef90_F0S014	V Q N Q F L S Q A R K K H M K V E V I L E T G S V L R G K L K A Y D Q F S I S			
UniRef90_W6WMP7	N L Q E D M Y E Q L K E K K G A V T V F L K N G V P V R G Q V L E T D D K F T V L			
UniRef90_E8T3Y6	L Q H L Q Y A A L S A S R N A V I V H L S N G T N L T G V V L A S D D Y M I L			
UniRef90_B3RCS9	V V Q N Q F L S Q A R K K H M K V E V I L E T G S V L R G K L K A Y D Q F S I S			
UniRef90_J7VZM1	N I Q D K A L E N F K A N Q T E V T V F F L N G F Q M K G V I E E Y D K Y V V S			
UniRef90_M1VJF9	Y L K S L S D R K I P V T V K L R D G E T V K G W I E Y F D D G M L L			
UniRef90_UPI0002F0092D	V Q D A F Y Q H L M T E R S L V E V V F L D G M S L I G V I D G F D T Y A I L			
UniRef90_K2C746	Q Y R F L D H C Q T N R V E L T I F S T S G A S F N G I V H R F D R E T I L			
UniRef90_E1E6B9	S I Q E Q L L Q E A F Q K R K D I T L I I L K G L H V K G I I R G F D T Y F V L			
UniRef90_M5V1Z3	S I Q E Q L L Q E A F Q K R K D I T L I I L K G L H V K G I I R G F D T Y F V L			
UniRef90_UPI0004793EA3	S L Q E Q L L Q E A F Q K R K D I T L I I L K G L H V K G I I R G F D T Y F V L			
UniRef90_UPI00037076CC	T V Q N K V I E N V K G K N S K V N F I L N N G F R I E G K I V A Y D D F C I L			
UniRef90_S6JMA9	D M I L H Y V E Q K E I P C R L I I I E S K Q V T G K V I G H D P Y M I Y			
UniRef90_J3X655	Q T P M V I V L E D G Q K I Q G V I E W Y D R N S I K			
UniRef90_F8GTV7	Q E N F Y K K L I E E Q R V V T I F L I N G V R V P G L I V A V D K F S V L			
UniRef90_U7PC28	Y L K M L G E K Q K P V K I K L V D G E I V K G W I E Y Y D K A M V L			
UniRef90_C3CBQ2	Y L R S L S E R Q I T V S I E L R D G E T V T G W I E Y F D D R M I L			
UniRef90_R8RDN0	L Q H Q Q L G L H A G S R I P V V V V L L C N G T R L Q G V V L G K D			
UniRef90_J3DTM6	Q F I P K L K G K R V L I R L T S G G Q V T G T I E S F N S Y E I L			
UniRef90_B7IZ69	R F I Q T L I R D K Q S V E I Q L V N N K L S G T V A W Q D T V S I L			
UniRef90_F0PZS8	N E Q D R F L D Y C Q R N E I L I K V Y D S G R A L Q G K I V D H D R K C I K			
UniRef90_E6QHP6	Q F Y F S K Q M Q S K T Q M V V I L T D G E R L E G V V E W Y D R S C I K			
UniRef90_J8LBX5	D S I L M Y L E H Y E M P C T F V L S N G K P L K G K V V G R D K Y M Y			
UniRef90_Q1IPZ0	Q O H T E T V I V L F D G F E L N G V I E W Y D R S C I K C V Y M Y			
UniRef90_C1F3F6				
UniRef90_Q4QZ8				
UniRef90_F4BVY6				
UniRef90_U5DEA9				
UniRef90_A4V7P6				
UniRef90_UPI00037267CB				
UniRef90_J8CBC5				
UniRef90_G8NY57				

lupas\_21  
lupas\_14

lupas

jnet

cont  
sol25

sol25  
sol5

sol0

jhmm

jpssm

The diagram illustrates a sequence of numbered cylinders (9, 8, 7, 6, 5, 4, 3, 2, 1) and letter cylinders (B). The top row contains 10 cylinders, while the bottom row contains 9 cylinders. Yellow arrows indicate a connection between the first cylinder of each row and the last cylinder of the respective row.

	50	60
UniRef90_R8UHF6	M N H G K Q Q   L V Y K Q A   I S T   M P	
UniRef90_A0A023DX78	R K D G   V Q I   L Y Q H A   I S S   M P   V T P F T	
UniRef90_UPI000470313E	L E N G N D T L I N K V A   I S T   I S S K R V	
UniRef90_Q73AM9	L V D G K Q Q L I Y K Q A V S T   M	
UniRef90_UPI00036CA090	L K N S V T Q M V Y K H A   S T V V P S R L V N	
UniRef90_R8G7F9	M T H G K Q Q L V Y K Q V   F T   I	
UniRef90_C3ECC3	T E D N K N Q L I Y K H A   S T	
UniRef90_H1RY47	L A E S A Q Q I V Y K H S   A V   T P A	
UniRef90_UPI00036990A0	L Q Q S K Q Q S L L Y K A A   S T   P S K P V	
UniRef90_H3SCR3	L K D S K F S L I N K S A V S T   P S Q R L S	
UniRef90_K6DLL1	I D S G Q Q Q M L G K G A   S T   V	
UniRef90_C3AXB7	L V N G K Q Q L I Y K T A   S T   T	
UniRef90_C8W314	L E E K E T Q I V Y K H A   S T   P E K	
UniRef90_V2I7N4	L A D P A P Q I V Y K H A   A A   T P	
UniRef90_A0A022GP43	L Q D P Q P Q V V Y K H A   A V   T P A H A	
UniRef90_L0MZM2	I E	
UniRef90_UPI000248C607	I E V G R D T L I N K V A   V S T   V S S K R L	
UniRef90_J8N3C4	L V N G K Q Q L I Y K Q A   I S T	
UniRef90_B5Z503	I S N G K Q Q F L Y K Q A   I S T	
UniRef90_U4TCL1	I E D Q R K M M I Y K H A   I S T	
UniRef90_F5SEH1	I R S G N Q S M V Y K H A   I S T	
UniRef90_H2CG74	V T E Q G Q V L I Y K H A   I S S   S P S R P	
UniRef90_C3EE76	I E E G K Q Q L V Y K H A   I S T	
UniRef90_A0A024E1E0	M V N G K Q Q L I Y K Q A   V S T   V	
UniRef90_C3CC47	L V N G K Q Q L I Y K Q A   I S T	
UniRef90_UPI00046A4199	M A H N K Q Q L I Y K Q A   I S T   I	
UniRef90_X2M473	L K N T V S Q M V Y K	
UniRef90_C3IB87	M V Q G K Q Q L V F K Q A   L S T   I	
UniRef90_U3R3C8	L D D N Q P T L V Y K Q A   I A   T P A	
UniRef90_F0S0I4	M R N R G N I L V Y K H A   I S T   V	
UniRef90_W6WMP7	L G S P G I Q A V F K H S V S T	
UniRef90_E8T3Y6	M T A P K K S L V Y K H A   V A T   I	
UniRef90_C3AJV4	M A Q G K K Q L I Y K Q A   I S T   V	
UniRef90_L0N2G4	L E T E G N Q L I Y K H A   I S	
UniRef90_E7RY23	L Q T S G D V A L Y H A   V S S   V M R A Q	
UniRef90_C3AX98	M M V D K Q Q L V Y K Q A   V S T   T	
UniRef90_UPI0003B6DF84	I N S M G K M L V Y K H A   I T T   I	
UniRef90_B3RCS9	L D D I Q P T V V Y K R A   C L   T P A T A	
UniRef90_J7VZM1	M	
UniRef90_M1VJF9	I E E G K Q Q L I Y K H A   I	
UniRef90_UPI0002F0092D	L E D P T P T L I Y K R A   I T V V T P A H A	
UniRef90_K2C746	L S K D K D V E V V Y K S S   I Y I	
UniRef90_E1E6B9	L N S Q G K N	
UniRef90_M5V1Z3	I E Q N K Q S L V Y K H A   I S T   I P A K   I K	
UniRef90_UPI0004793EA3	T R E G K P N L I Y K H Q   I R T   I T E A	
UniRef90_UPI00037076CC	L E D A G D Q V V Y K H A   I A V   T P A H A	
UniRef90_UPI000304ADB9	L S N G E E I L V F K S A   I R Y   I P R E A I	
UniRef90_S6JMA9	F G G S G K R L I Y K S F   I A M   I P R E A I	
UniRef90_J3X655	M M Q G K Q Q R I Y K T A   P T	
UniRef90_F8GTV7	L D D I R P T V V Y K R A   C L   V T P D A P V	
UniRef90_U7PC28	F S Q G K N H	
UniRef90_C3CBQ2	V S S K Q K Q L I Y K H N   I S T	
UniRef90_R8RDN0	I E V E G K Q Q L Y	
UniRef90_I3DTM6	V S V K K E M M I Y K H A   I S L   R P	
UniRef90_B7IZ69	V S S N E K Q Q L I Y K H N   I S T	
UniRef90_F0PZS8	L Q D N K K H F L F K H A   I K D V V P Q K D   D	
UniRef90_E6QHP6	V R G R Q R Q L I Y K S A   I K Y I	
UniRef90_J8LBX5	I S N K G	
UniRef90_Q1IPZ0	T R E G A P N L I Y K H D   I R Y   I S E E P V K	
UniRef90_C1F3F6	T R K N H P N L I Y K Q Q   I R T   I T	
UniRef90_Q46QZ8	M Q D T R P V V Y K H A   I A M   I T	
UniRef90_F4BVY6	L Q T A K G E L V F K H A   I A T   I	
UniRef90_U5DEA9	L N D G K T V L I W K Q A   I A T   I	
UniRef90_A4V7P6	L	
UniRef90_UPI00037267CB	L R D G E P N L L Y K H C   I K Y   L Y K S E P	
UniRef90_J8CBC5	V E E E K Q H F L F K S N V M D V I   P N E K   D	
UniRef90_G8NY57	L K A G R R M M I Y K S G I	

lupas\_21  
 lupas\_14  
 lupas\_28  
 jnet  
 conf  
 sol25  
 sol5  
 sol0  
 jhmm  
 jpssm

