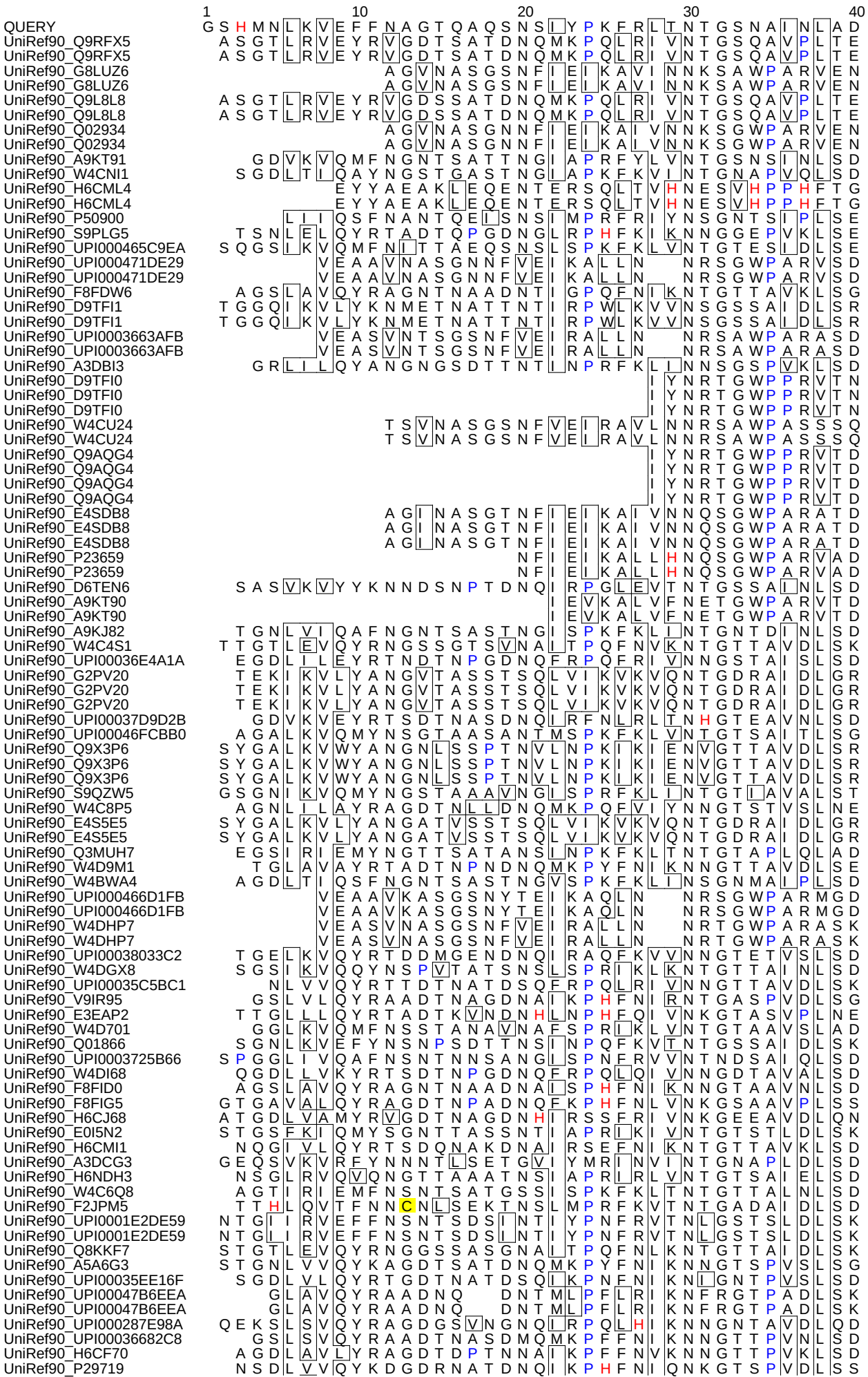
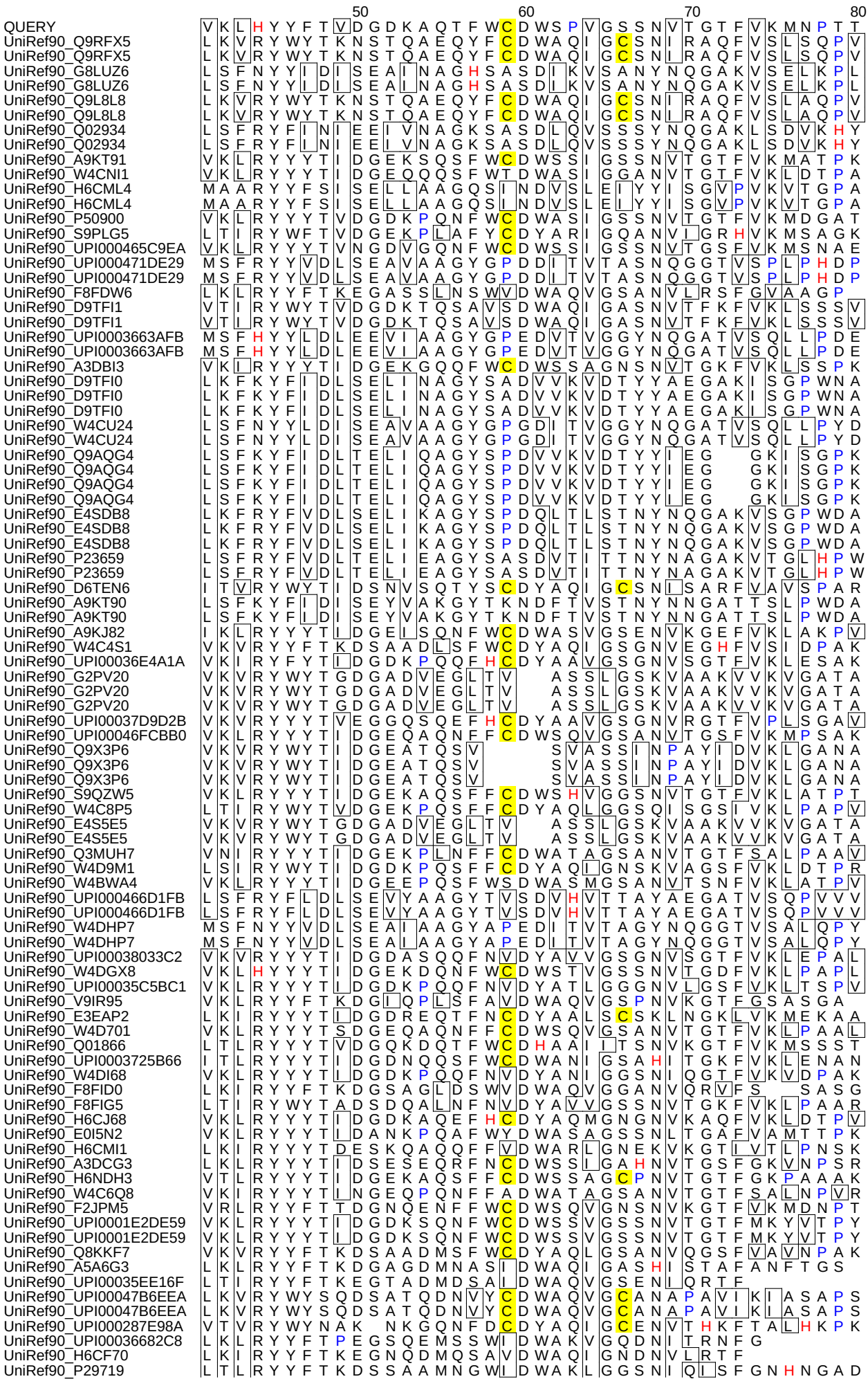
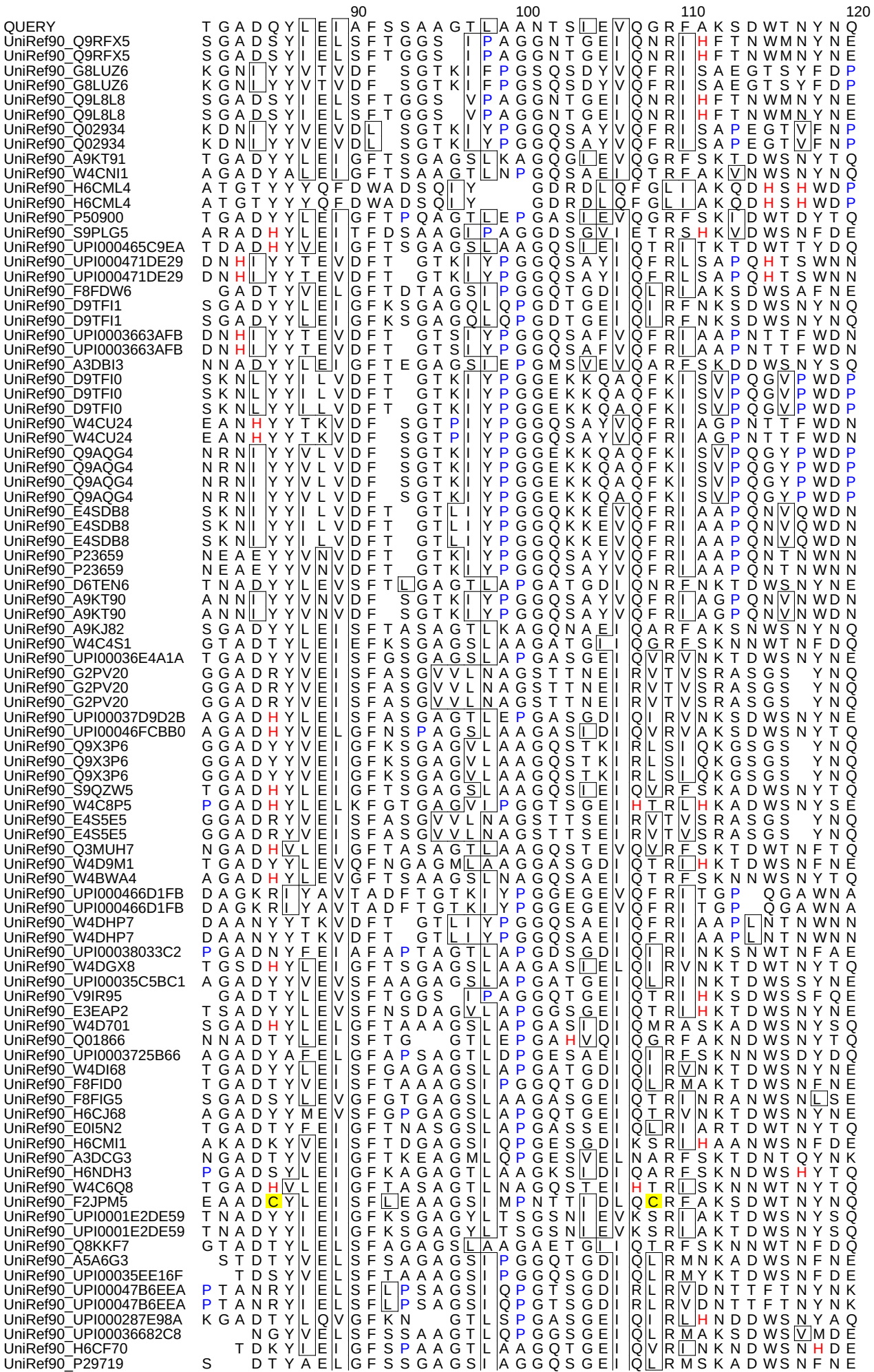
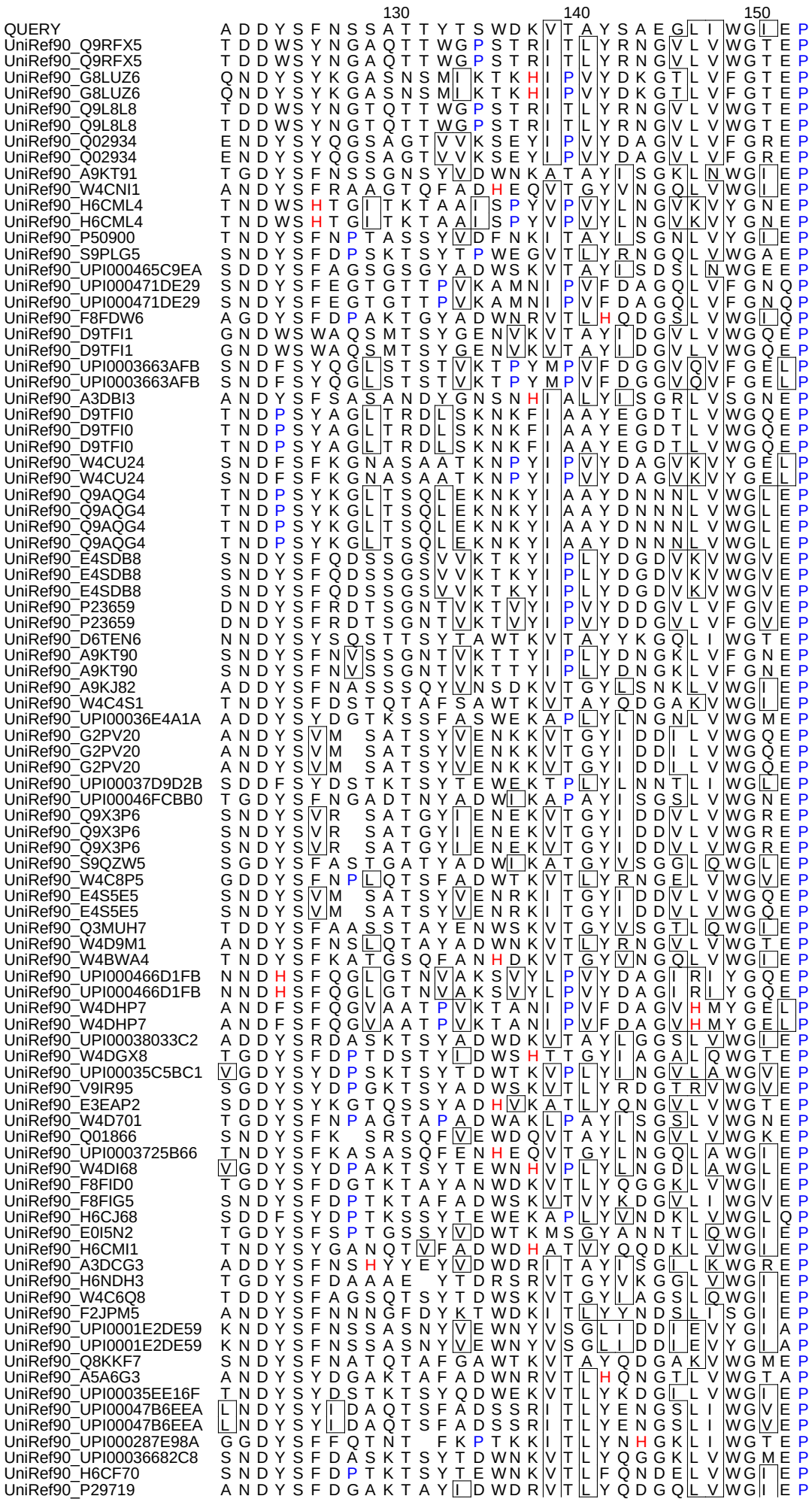
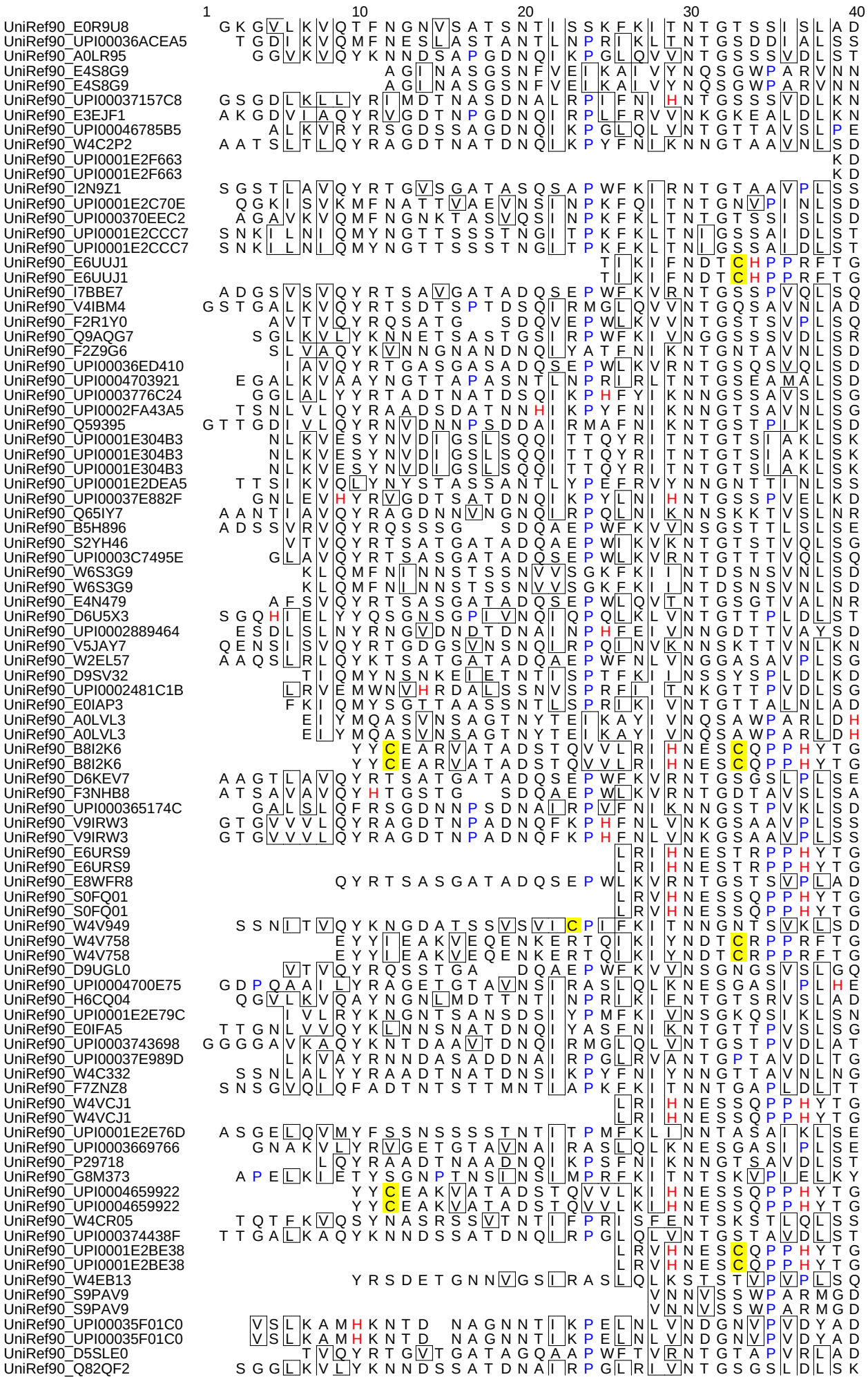
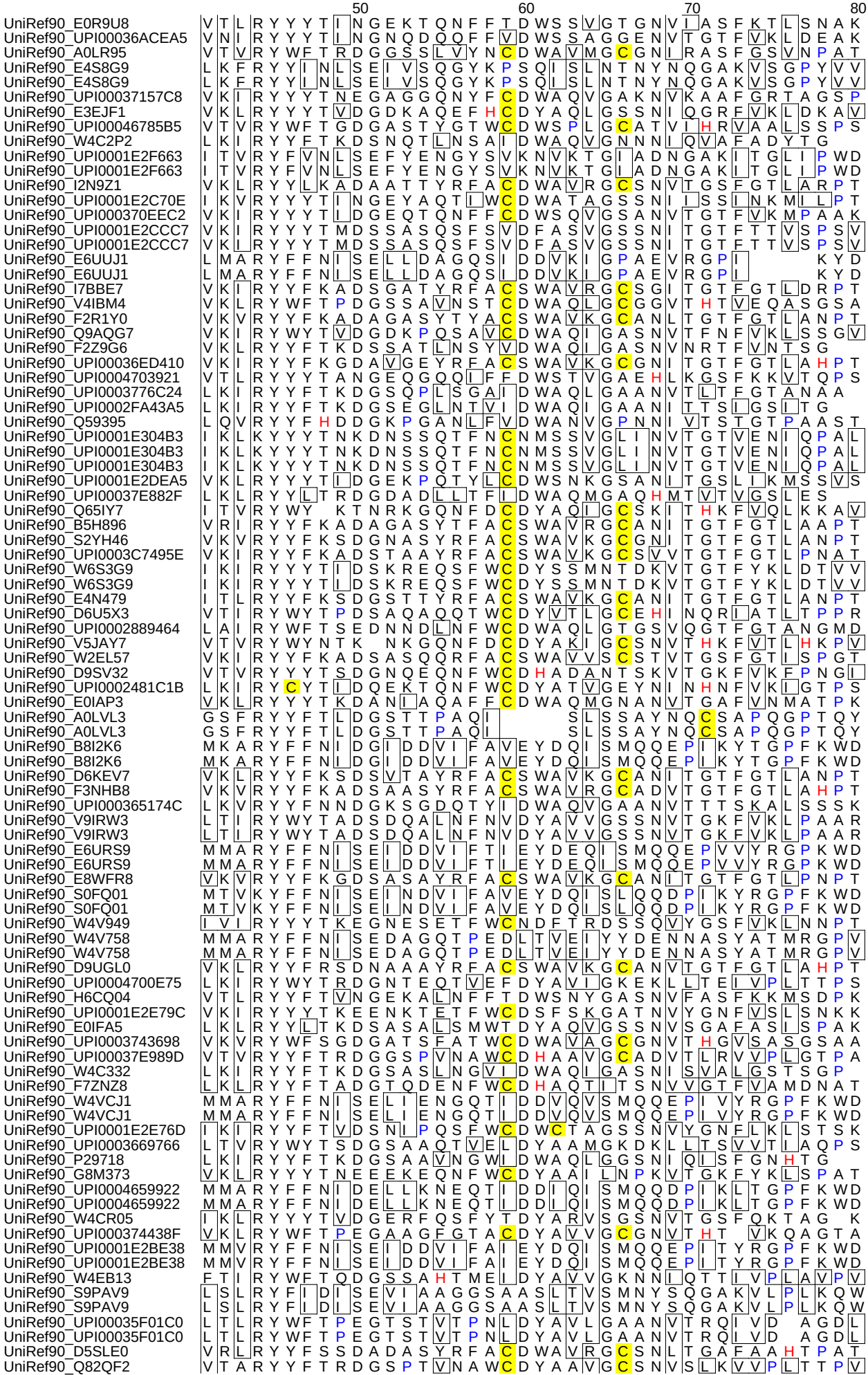

1
10
20
30
40
QUERY
UniRef90_Q9RFX5
UniRef90_Q9RFX5
UniRef90_G8LUZ6
UniRef90_G8LUZ6
UniRef90_Q9L8L8
UniRef90_Q9L8L8
UniRef90_Q02934
UniRef90_Q02934
UniRef90_A9KT91
UniRef90_W4CNI1
UniRef90_H6CML4
UniRef90_H6CML4
UniRef90_P50900
UniRef90_S9PLG5
UniRef90_UPI000465C9EA
UniRef90_UPI000471DE29
UniRef90_UPI000471DE29
UniRef90_F8FDW6
UniRef90_D9TFI1
UniRef90_D9TFI1
UniRef90_UPI0003663AFB
UniRef90_UPI0003663AFB
UniRef90_A3DBI3
UniRef90_D9TFI0
UniRef90_D9TFI0
UniRef90_D9TFI0
UniRef90_W4CU24
UniRef90_W4CU24
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_E4SDB8
UniRef90_E4SDB8
UniRef90_E4SDB8
UniRef90_P23659
UniRef90_P23659
UniRef90_D6TEN6
UniRef90_A9KT90
UniRef90_A9KT90
UniRef90_A9KJ82
UniRef90_W4C4S1
UniRef90_UPI00036E4A1A
UniRef90_G2PV20
UniRef90_G2PV20
UniRef90_G2PV20
UniRef90_UPI00037D9D2B
UniRef90_UPI00046FCBB0
UniRef90_Q9X3P6
UniRef90_Q9X3P6
UniRef90_Q9X3P6
UniRef90_S9QZW5
UniRef90_W4C8P5
UniRef90_E4S5E5
UniRef90_E4S5E5
UniRef90_Q3MUH7
UniRef90_W4D9M1
UniRef90_W4BWA4
UniRef90_UPI000466D1FB
UniRef90_UPI000466D1FB
UniRef90_W4DHP7
UniRef90_W4DHP7
UniRef90_UPI00038033C2
UniRef90_W4DGX8
UniRef90_UPI00035C5BC1
UniRef90_V9IR95
UniRef90_E3EAP2
UniRef90_W4D701
UniRef90_Q01866
UniRef90_UPI0003725B66
UniRef90_W4DI68
UniRef90_F8FID0
UniRef90_F8FIG5
UniRef90_H6CJ68
UniRef90_E0I5N2
UniRef90_H6CMI1
UniRef90_A3DCG3
UniRef90_H6NDH3
UniRef90_W4C6Q8
UniRef90_F2JPM5
UniRef90_UPI0001E2DE59
UniRef90_UPI0001E2DE59
UniRef90_Q8KKF7
UniRef90_A5A6G3
UniRef90_UPI00035EE16F
UniRef90_UPI00047B6EEA
UniRef90_UPI00047B6EEA
UniRef90_UPI000287E98A
UniRef90_UPI00036682C8
UniRef90_H6CF70
UniRef90_P29719

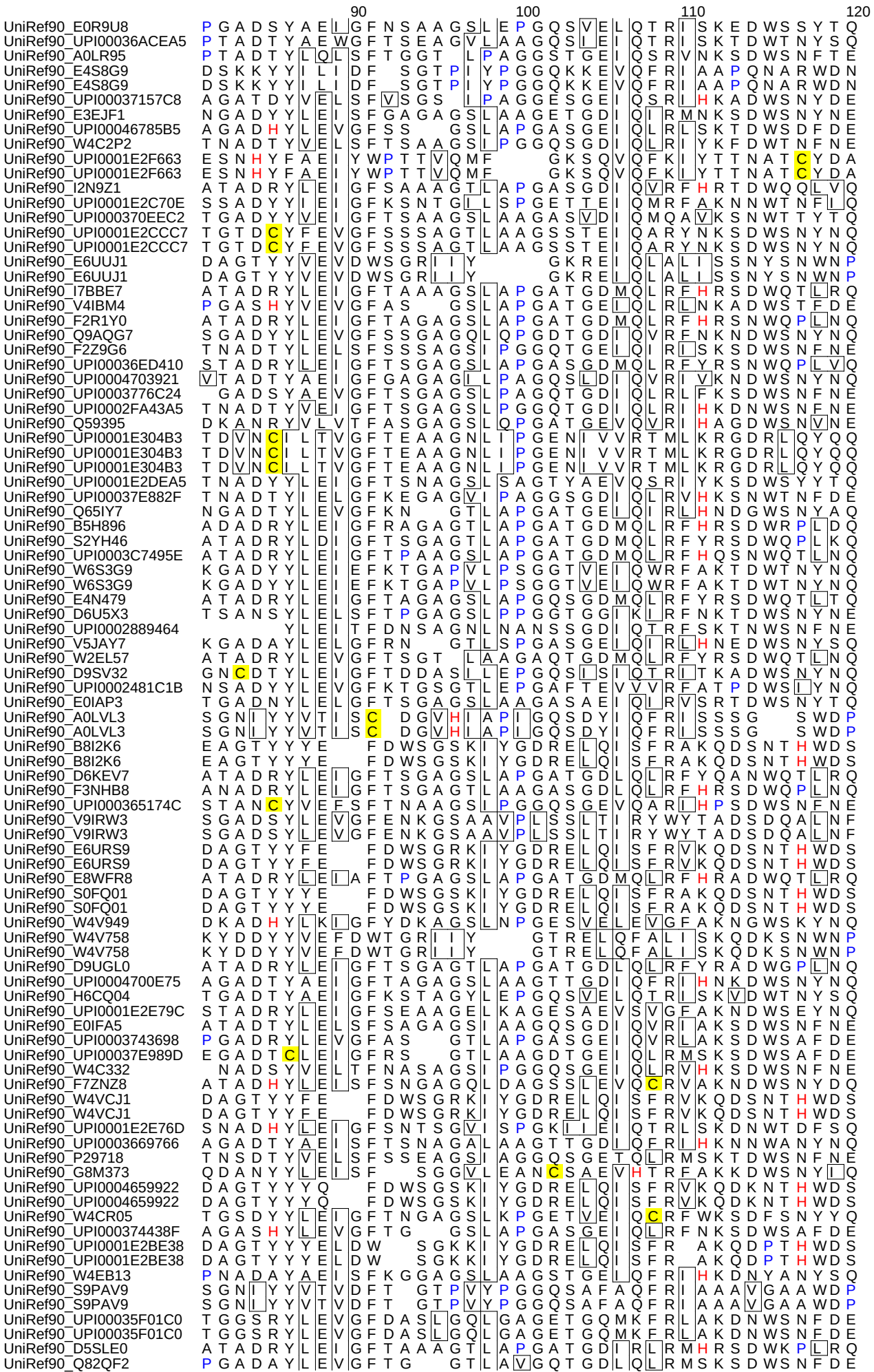

50
60
70
80
QUERY
UniRef90_Q9RFX5
UniRef90_Q9RFX5
UniRef90_G8LUZ6
UniRef90_G8LUZ6
UniRef90_Q9L8L8
UniRef90_Q9L8L8
UniRef90_Q02934
UniRef90_Q02934
UniRef90_A9KT91
UniRef90_W4CNI1
UniRef90_H6CML4
UniRef90_H6CML4
UniRef90_P50900
UniRef90_S9PLG5
UniRef90_UPI000465C9EA
UniRef90_UPI000471DE29
UniRef90_UPI000471DE29
UniRef90_F8FDW6
UniRef90_D9TFI1
UniRef90_D9TFI1
UniRef90_UPI0003663AFB
UniRef90_UPI0003663AFB
UniRef90_A3DBI3
UniRef90_D9TFI0
UniRef90_D9TFI0
UniRef90_D9TFI0
UniRef90_W4CU24
UniRef90_W4CU24
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_Q9AQG4
UniRef90_E4SDB8
UniRef90_E4SDB8
UniRef90_E4SDB8
UniRef90_P23659
UniRef90_P23659
UniRef90_D6TEN6
UniRef90_A9KT90
UniRef90_A9KT90
UniRef90_A9KJ82
UniRef90_W4C4S1
UniRef90_UPI00036E4A1A
UniRef90_G2PV20
UniRef90_G2PV20
UniRef90_G2PV20
UniRef90_UPI00037D9D2B
UniRef90_UPI00046FCBB0
UniRef90_Q9X3P6
UniRef90_Q9X3P6
UniRef90_Q9X3P6
UniRef90_S9QZW5
UniRef90_W4C8P5
UniRef90_E4S5E5
UniRef90_E4S5E5
UniRef90_Q3MUH7
UniRef90_W4D9M1
UniRef90_W4BWA4
UniRef90_UPI000466D1FB
UniRef90_UPI000466D1FB
UniRef90_W4DHP7
UniRef90_W4DHP7
UniRef90_UPI00038033C2
UniRef90_W4DGX8
UniRef90_UPI00035C5BC1
UniRef90_V9IR95
UniRef90_E3EAP2
UniRef90_W4D701
UniRef90_Q01866
UniRef90_UPI0003725B66
UniRef90_W4DI68
UniRef90_F8FID0
UniRef90_F8FIG5
UniRef90_H6CJ68
UniRef90_E0I5N2
UniRef90_H6CMI1
UniRef90_A3DCG3
UniRef90_H6NDH3
UniRef90_W4C6Q8
UniRef90_F2JPM5
UniRef90_UPI0001E2DE59
UniRef90_UPI0001E2DE59
UniRef90_Q8KKF7
UniRef90_A5A6G3
UniRef90_UPI00035EE16F
UniRef90_UPI00047B6EEA
UniRef90_UPI00047B6EEA
UniRef90_UPI000287E98A
UniRef90_UPI00036682C8
UniRef90_H6CF70
UniRef90_P29719

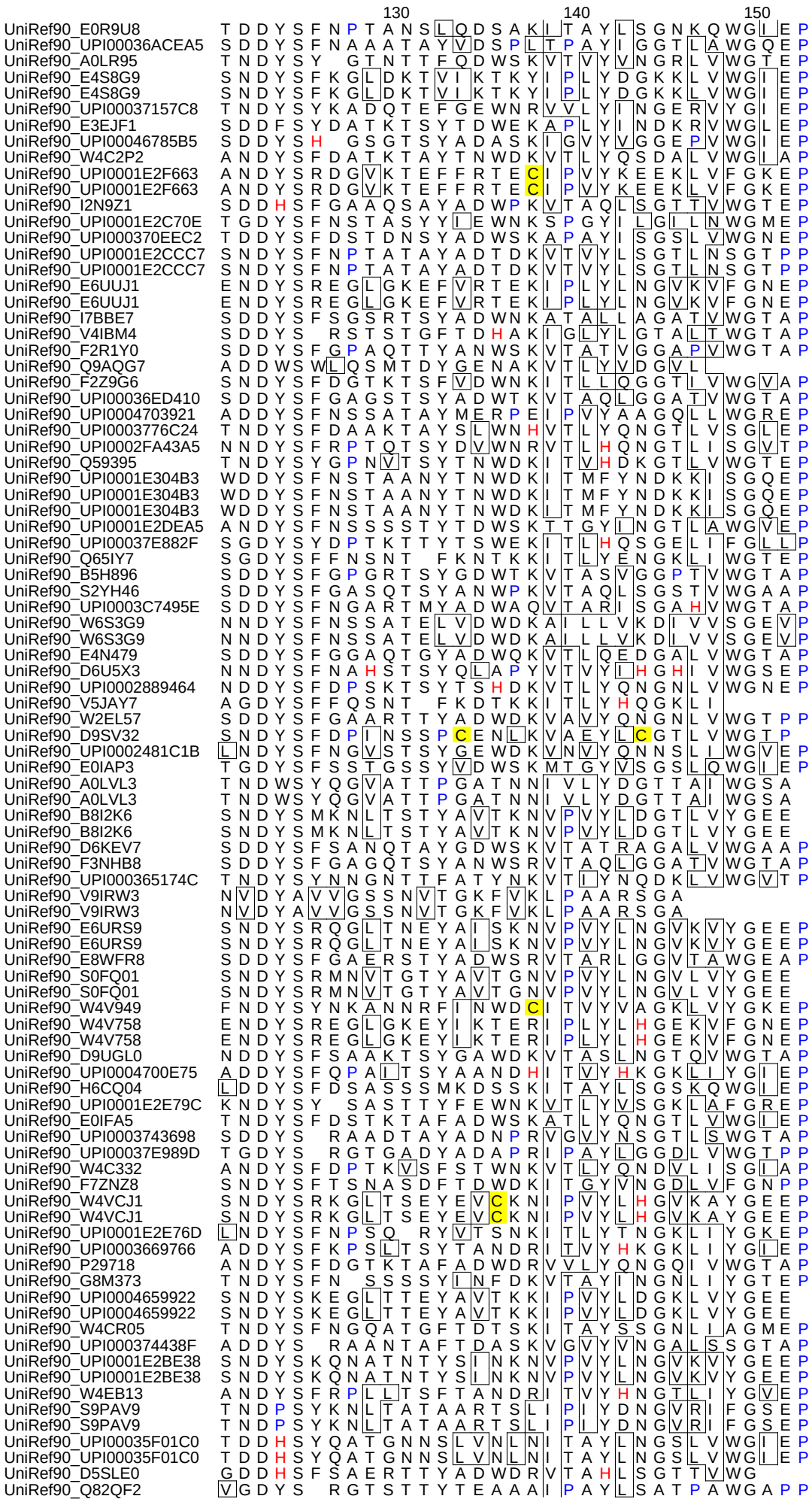

90
100
110
120
QUERY T G A D Q Y L E I A F S S A A G T L A A N T S I E V Q G R F A K S D W T N Y N Q
UniRef90_Q9RFX5 S G A D S Y I E L S F T G G S I P A G G N T G E I Q N R I H F T N W M N Y N E
UniRef90_Q9RFX5 S G A D S Y I E L S F T G G S I P A G G N T G E I Q N R I H F T N W M N Y N E
UniRef90_G8LUZ6 K G N I Y Y V T V D F S G T K I F P G S Q S D Y V Q F R I S A E G T S Y F D P
UniRef90_G8LUZ6 K G N I Y Y V T V D F S G T K I F P G S Q S D Y V Q F R I S A E G T S Y F D P
UniRef90_Q9L8L8 S G A D S Y I E L S F T G G S V P A G G N T G E I Q N R I H F T N W M N Y N E
UniRef90_Q9L8L8 S G A D S Y I E L S F T G G S V P A G G N T G E I Q N R I H F T N W M N Y N E
UniRef90_Q02934 K D N I Y Y V E V D L S G T K I Y P G G Q S A Y V Q F R I S A P E G T V F N P
UniRef90_Q02934 K D N I Y Y V E V D L S G T K I Y P G G Q S A Y V Q F R I S A P E G T V F N P
UniRef90_A9KT91 T G A D Y Y L E I G F T S G A G S L K A G Q G I E V Q G R F S K T D W S N Y T Q
UniRef90_W4CNI1 A G A D Y A L E I G F T S A A G T L N P G Q S A E I Q T R F A K V N W S N Y N Q
UniRef90_H6CML4 A T G T Y Y Y Q F D W A D S Q I Y G D R D L Q F G L I A K Q D H S H W D P
UniRef90_H6CML4 A T G T Y Y Y Q F D W A D S Q I Y G D R D L Q F G L I A K Q D H S H W D P
UniRef90_P50900 T G A D Y Y L E I G F T P Q A G T L E P G A S I E V Q G R F S K I D W T D Y T Q
UniRef90_S9PLG5 A R A D H Y L E I T F D S A A G I P A G G D S G V I E T R S H K V D W S N F D E
UniRef90_UPI000465C9EA T D A D H Y V E I G F T S G A G S L A A G Q S I E I Q T R I T K T D W T T Y D Q
UniRef90_UPI000471DE29 D N H I Y Y T E V D F T G T K I Y P G G Q S A Y I Q F R L S A P Q H T S W N N
UniRef90_UPI000471DE29 D N H I Y Y T E V D F T G T K I Y P G G Q S A Y I Q F R L S A P Q H T S W N N
UniRef90_F8FDW6 G A D T Y V E L G F T D T A G S I P G G Q T G D I Q L R I A K S D W S A F N E
UniRef90_D9TFI1 S G A D Y Y L E I G F K S G A G Q L Q P G D T G E I Q I R F N K S D W S N Y N Q
UniRef90_D9TFI1 S G A D Y Y L E I G F K S G A G Q L Q P G D T G E I Q I R F N K S D W S N Y N Q
UniRef90_UPI0003663AFB D N H I Y Y T E V D F T G T S I Y P G G Q S A F V Q F R I A A P N T T F W D N
UniRef90_UPI0003663AFB D N H I Y Y T E V D F T G T S I Y P G G Q S A F V Q F R I A A P N T T F W D N
UniRef90_A3DBI3 N N A D Y Y L E I G F T E G A G S I E P G M S V E V Q A R F S K D D W S N Y S Q
UniRef90_D9TFI0 S K N L Y Y I L V D F T G T K I Y P G G E K K Q A Q F K I S V P Q G V P W D P
UniRef90_D9TFI0 S K N L Y Y I L V D F T G T K I Y P G G E K K Q A Q F K I S V P Q G V P W D P
UniRef90_D9TFI0 S K N L Y Y I L V D F T G T K I Y P G G E K K Q A Q F K I S V P Q G V P W D P
UniRef90_W4CU24 E A N H Y Y T K V D F S G T P I Y P G G Q S A Y V Q F R I A G P N T T F W D N
UniRef90_W4CU24 E A N H Y Y T K V D F S G T P I Y P G G Q S A Y V Q F R I A G P N T T F W D N
UniRef90_Q9AQG4 N R N I Y Y V L V D F S G T K I Y P G G E K K Q A Q F K I S V P Q G Y P W D P
UniRef90_Q9AQG4 N R N I Y Y V L V D F S G T K I Y P G G E K K Q A Q F K I S V P Q G Y P W D P
UniRef90_Q9AQG4 N R N I Y Y V L V D F S G T K I Y P G G E K K Q A Q F K I S V P Q G Y P W D P
UniRef90_Q9AQG4 N R N I Y Y V L V D F S G T K I Y P G G E K K Q A Q F K I S V P Q G Y P W D P
UniRef90_E4SDB8 S K N I Y Y I L V D F T G T L I Y P G G Q K K E V Q F R I A A P Q N V Q W D N
UniRef90_E4SDB8 S K N I Y Y I L V D F T G T L I Y P G G Q K K E V Q F R I A A P Q N V Q W D N
UniRef90_E4SDB8 S K N I Y Y I L V D F T G T L I Y P G G Q K K E V Q F R I A A P Q N V Q W D N
UniRef90_P23659 N E A E Y Y V N V D F T G T K I Y P G G Q S A Y V Q F R I A A P Q N T N W N N
UniRef90_P23659 N E A E Y Y V N V D F T G T K I Y P G G Q S A Y V Q F R I A A P Q N T N W N N
UniRef90_D6TEN6 T N A D Y Y L E V S F T L G A G T L A P G A T G D I Q N R F N K T D W S N Y N E
UniRef90_A9KT90 A N N I Y Y V N V D F S G T K I Y P G G Q S A Y V Q F R I A G P Q N V N W D N
UniRef90_A9KT90 A N N I Y Y V N V D F S G T K I Y P G G Q S A Y V Q F R I A G P Q N V N W D N
UniRef90_A9KJ82 S G A D Y Y L E I S F T A S A G T L K A G Q N A E I Q A R F A K S N W S N Y N Q
UniRef90_W4C4S1 G T A D T Y L E I E F K S G A G S L A A G A T G I I Q G R F S K N N W T N F D Q
UniRef90_UPI00036E4A1A T G A D Y Y V E I S F G S G A G S L A P G A S G E I Q V R V N K T D W S N Y N E
UniRef90_G2PV20 G G A D R Y V E I S F A S G V V L N A G S T T N E I R V T V S R A S G S Y N Q
UniRef90_G2PV20 G G A D R Y V E I S F A S G V V L N A G S T T N E I R V T V S R A S G S Y N Q
UniRef90_G2PV20 G G A D R Y V E I S F A S G V V L N A G S T T N E I R V T V S R A S G S Y N Q
UniRef90_UPI00037D9D2B A G A D H Y L E I S F A S G A G T L E P G A S G D I Q I R V N K S D W S N Y N E
UniRef90_UPI00046FCBB0 A G A D H Y V E L G F N S P A G S L A A G A S I D I Q V R V A K S D W S N Y T Q
UniRef90_Q9X3P6 G G A D Y Y V E I G F K S G A G V L A A G Q S T K I R L S I Q K G S G S Y N Q
UniRef90_Q9X3P6 G G A D Y Y V E I G F K S G A G V L A A G Q S T K I R L S I Q K G S G S Y N Q
UniRef90_Q9X3P6 G G A D Y Y V E I G F K S G A G V L A A G Q S T K I R L S I Q K G S G S Y N Q
UniRef90_S9QZW5 T G A D H Y L E I G F T S G A G S L A A G Q S I E I Q V R F S K A D W S N Y T Q
UniRef90_W4C8P5 P G A D H Y L E L K F G T G A G V I P G G T S G E I H T R L H K A D W S N Y S E
UniRef90_E4S5E5 G G A D R Y V E I S F A S G V V L N A G S T T S E I R V T V S R A S G S Y N Q
UniRef90_E4S5E5 G G A D R Y V E I S F A S G V V L N A G S T T S E I R V T V S R A S G S Y N Q
UniRef90_Q3MUH7 N G A D H V L E I G F T A S A G T L A A G Q S T E V Q V R F S K T D W T N F T Q
UniRef90_W4D9M1 T G A D Y Y L E V Q F N G A G M L A A G G A S G D I Q T R I H K T D W S N F N E
UniRef90_W4BWA4 A G A D H Y L E V G F T S A A G S L N A G Q S A E I Q T R F S K N N W S N Y T Q
UniRef90_UPI000466D1FB D A G K R I Y A V T A D F T G T K I Y P G G E G E V Q F R I T G P Q G A W N A
UniRef90_UPI000466D1FB D A G K R I Y A V T A D F T G T K I Y P G G E G E V Q F R I T G P Q G A W N A
UniRef90_W4DHP7 D A A N Y Y T K V D F T G T L I Y P G G Q S A E I Q F R I A A P L N T N W N N
UniRef90_W4DHP7 D A A N Y Y T K V D F T G T L I Y P G G Q S A E I Q F R I A A P L N T N W N N
UniRef90_UPI00038033C2 P G A D N Y F E I A F A P T A G T L A P G D S G D I Q I R I N K S N W T N F A E
UniRef90_W4DGX8 T G S D H Y L E I G F T S G A G S L A A G A S I E L Q I R V N K T D W T N Y T Q
UniRef90_UPI00035C5BC1 A G A D Y Y V E V S F A A G A G S L A P G A T G E I Q L R I N K T D W S S Y N E
UniRef90_V9IR95 G A D T Y L E V S F T G G S I P A G G Q T G E I Q T R I H K S D W S S F Q E
UniRef90_E3EAP2 T S A D Y Y L E V S F N S D A G V L A P G G S G E I Q T R I H K T D W S N Y N E
UniRef90_W4D701 S G A D H Y L E L G F T A A A G S L A P G A S I D I Q M R A S K A D W S N Y S Q
UniRef90_Q01866 N N A D T Y L E I S F T G G T L E P G A H V Q I Q G R F A K N D W S N Y T Q
UniRef90_UPI0003725B66 A G A D Y A F E L G F A P S A G T L D P G E S A E I Q I R F S K N N W S D Y D Q
UniRef90_W4DI68 T G A D Y Y L E I S F G A G A G S L A P G A T G D I Q I R V N K T D W S N Y N E
UniRef90_F8FID0 T G A D T Y V E I S F T A A A G S I P G G Q T G D I Q L R M A K T D W S N F N E
UniRef90_F8FIG5 S G A D S Y L E V G F G T G A G S L A A G A S G E I Q T R I N R A N W S N L S E
UniRef90_H6CJ68 A G A D Y Y M E V S F G P G A G S L A P G Q T G E I Q T R V N K T D W S N Y N E
UniRef90_E0I5N2 T G A D T Y F E I G F T N A S G S L A P G A S S E I Q L R I A R T D W T N Y T Q
UniRef90_H6CMI1 A K A D K Y V E I S F T D G A G S I Q P G E S G D I K S R I H A A N W S N F D E
UniRef90_A3DCG3 N G A D T Y V E I G F T K E A G M L Q P G E S V E L N A R F S K T D N T Q Y N K
UniRef90_H6NDH3 P G A D S Y L E I G F K A G A G T L A A G K S I D I Q A R F S K N D W S H Y T Q
UniRef90_W4C6Q8 T G A D H V L E I G F T A S A G T L N A G Q S T E I H T R I S K N N W T N Y T Q
UniRef90_F2JPM5 E A A D C Y L E I S F L E A A G S I M P N T T I D L Q C R F A K S D W T N Y N Q
UniRef90_UPI0001E2DE59 T N A D Y Y I E I G F K S G A G Y L T S G S N I E V K S R I A K T D W S N Y S Q
UniRef90_UPI0001E2DE59 T N A D Y Y I E I G F K S G A G Y L T S G S N I E V K S R I A K T D W S N Y S Q
UniRef90_Q8KKF7 G T A D T Y L E L S F A G A G S L A A G A E T G I I Q T R F S K N N W T N F D Q
UniRef90_A5A6G3 S T D T Y V E L S F S A G A G S I P G G Q T G D I Q L R M N K A D W S N F N E
UniRef90_UPI00035EE16F T D S Y V E L S F T A A A G S I P G G Q S G D I Q L R M Y K T D W S N F D E
UniRef90_UPI00047B6EEA P T A N R Y I E L S F L P S A G S I Q P G T S G D I R L R V D N T T F T N Y N K
UniRef90_UPI00047B6EEA P T A N R Y I E L S F L P S A G S I Q P G T S G D I R L R V D N T T F T N Y N K
UniRef90_UPI000287E98A K G A D T Y L Q V G F K N G T L S P G A S G E I Q I R L H N D D W S N Y A Q
UniRef90_UPI00036682C8 N G Y V E L S F S S A A G T L Q P G G S G E I Q L R M A K S D W S V M D E
UniRef90_H6CF70 T D K Y I E I G F S P A A G T L A A G Q T G E I Q V R I N K N D W S N H D E
UniRef90_P29719 S D T Y A E L G F S S G A G S I A G G Q S G E I Q L R M S K A D W S N F N E

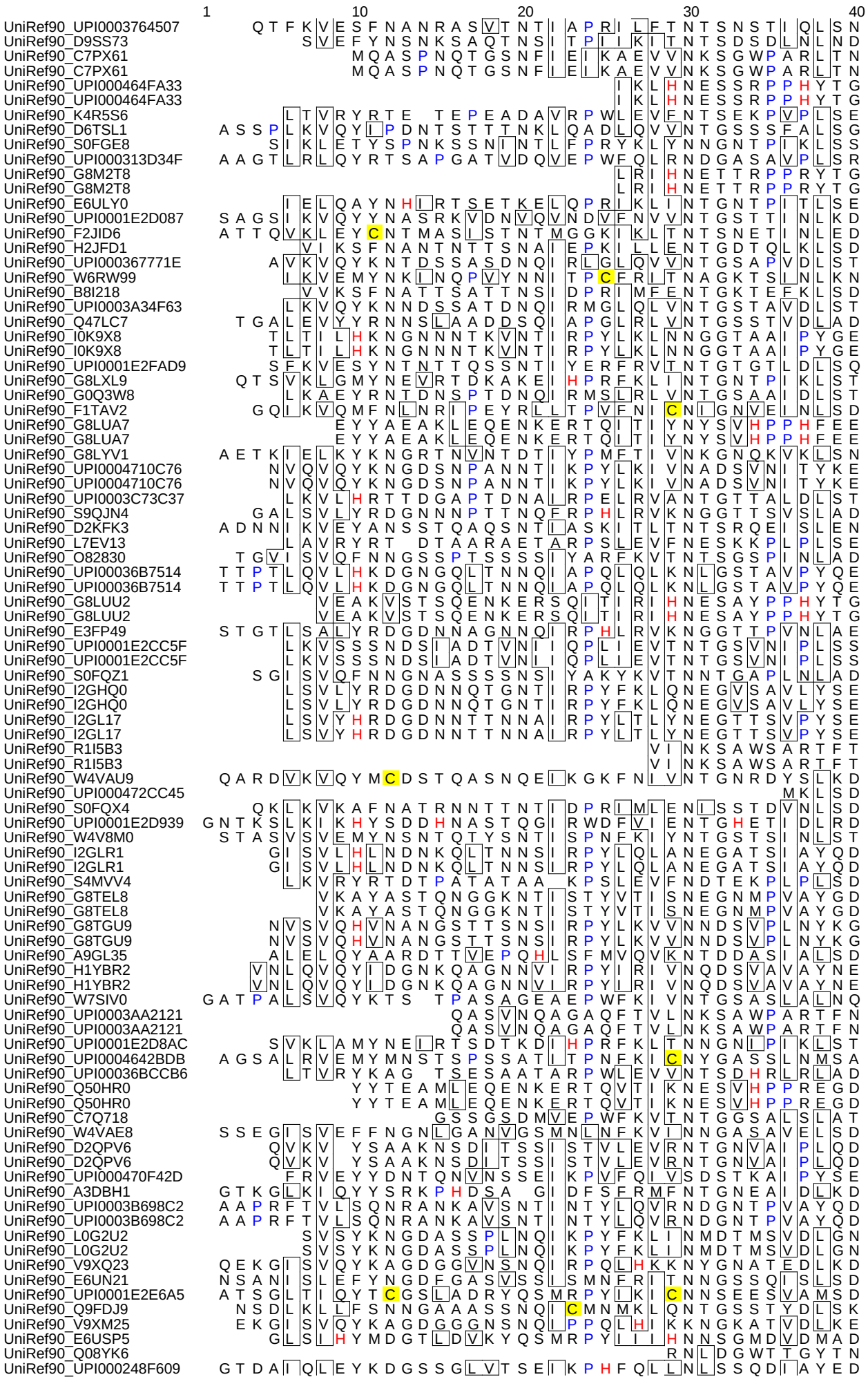

130
140
150
QUERY A D D Y S F N S S A T T Y T S W D K V T A Y S A E G L I W G I E P
UniRef90_Q9RFX5 T D D W S Y N G A Q T T W G P S T R I T L Y R N G V L V W G T E P
UniRef90_Q9RFX5 T D D W S Y N G A Q T T W G P S T R I T L Y R N G V L V W G T E P
UniRef90_G8LUZ6 Q N D Y S Y K G A S N S M I K T K H I P V Y D K G T L V F G T E P
UniRef90_G8LUZ6 Q N D Y S Y K G A S N S M I K T K H I P V Y D K G T L V F G T E P
UniRef90_Q9L8L8 T D D W S Y N G T Q T T W G P S T R I T L Y R N G V L V W G T E P
UniRef90_Q9L8L8 T D D W S Y N G T Q T T W G P S T R I T L Y R N G V L V W G T E P
UniRef90_Q02934 E N D Y S Y Q G S A G T V V K S E Y I P V Y D A G V L V F G R E P
UniRef90_Q02934 E N D Y S Y Q G S A G T V V K S E Y I P V Y D A G V L V F G R E P
UniRef90_A9KT91 T G D Y S F N S S G N S Y V D W N K A T A Y I S G K L N W G I E P
UniRef90_W4CNI1 A N D Y S F R A A G T Q F A D H E Q V T G Y V N G Q L V W G I E P
UniRef90_H6CML4 T N D W S H T G I T K T A A I S P Y V P V Y L N G V K V Y G N E P
UniRef90_H6CML4 T N D W S H T G I T K T A A I S P Y V P V Y L N G V K V Y G N E P
UniRef90_P50900 T N D Y S F N P T A S S Y V D F N K I T A Y I S G N L V Y G I E P
UniRef90_S9PLG5 S N D Y S F D P S K T S Y T P W E G V T L Y R N G Q L V W G A E P
UniRef90_UPI000465C9EA S D D Y S F A G S G S G Y A D W S K V T A Y I S D S L N W G E E P
UniRef90_UPI000471DE29 S N D Y S F E G T G T T P V K A M N I P V F D A G Q L V F G N Q P
UniRef90_UPI000471DE29 S N D Y S F E G T G T T P V K A M N I P V F D A G Q L V F G N Q P
UniRef90_F8FDW6 A G D Y S F D P A K T G Y A D W N R V T L H Q D G S L V W G I Q P
UniRef90_D9TFI1 G N D W S W A Q S M T S Y G E N V K V T A Y I D G V L V W G Q E P
UniRef90_D9TFI1 G N D W S W A Q S M T S Y G E N V K V T A Y I D G V L V W G Q E P
UniRef90_UPI0003663AFB S N D F S Y Q G L S T S T V K T P Y M P V F D G G V Q V F G E L P
UniRef90_UPI0003663AFB S N D F S Y Q G L S T S T V K T P Y M P V F D G G V Q V F G E L P
UniRef90_A3DBI3 A N D Y S F S A S A N D Y G N S N H I A L Y I S G R L V S G N E P
UniRef90_D9TFI0 T N D P S Y A G L T R D L S K N K F I A A Y E G D T L V W G Q E P
UniRef90_D9TFI0 T N D P S Y A G L T R D L S K N K F I A A Y E G D T L V W G Q E P
UniRef90_D9TFI0 T N D P S Y A G L T R D L S K N K F I A A Y E G D T L V W G Q E P
UniRef90_W4CU24 S N D F S F K G N A S A A T K N P Y I P V Y D A G V K V Y G E L P
UniRef90_W4CU24 S N D F S F K G N A S A A T K N P Y I P V Y D A G V K V Y G E L P
UniRef90_Q9AQG4 T N D P S Y K G L T S Q L E K N K Y I A A Y D N N N L V W G L E P
UniRef90_Q9AQG4 T N D P S Y K G L T S Q L E K N K Y I A A Y D N N N L V W G L E P
UniRef90_Q9AQG4 T N D P S Y K G L T S Q L E K N K Y I A A Y D N N N L V W G L E P
UniRef90_Q9AQG4 T N D P S Y K G L T S Q L E K N K Y I A A Y D N N N L V W G L E P
UniRef90_E4SDB8 S N D Y S F Q D S S G S V V K T K Y I P L Y D G D V K V W G V E P
UniRef90_E4SDB8 S N D Y S F Q D S S G S V V K T K Y I P L Y D G D V K V W G V E P
UniRef90_E4SDB8 S N D Y S F Q D S S G S V V K T K Y I P L Y D G D V K V W G V E P
UniRef90_P23659 D N D Y S F R D T S G N T V K T V Y I P V Y D D G V L V F G V E P
UniRef90_P23659 D N D Y S F R D T S G N T V K T V Y I P V Y D D G V L V F G V E P
UniRef90_D6TEN6 N N D Y S Y S Q S T T S Y T A W T K V T A Y Y K G Q L I W G T E P
UniRef90_A9KT90 S N D Y S F N V S S G N T V K T T Y I P L Y D N G K L V F G N E P
UniRef90_A9KT90 S N D Y S F N V S S G N T V K T T Y I P L Y D N G K L V F G N E P
UniRef90_A9KJ82 A D D Y S F N A S S S Q Y V N S D K V T G Y L S N K L V W G I E P
UniRef90_W4C4S1 T N D Y S F D S T Q T A F S A W T K V T A Y Q D G A K V W G I E P
UniRef90_UPI00036E4A1A A D D Y S Y D G T K S S F A S W E K A P L Y L N G N L V W G M E P
UniRef90_G2PV20 A N D Y S V M S A T S Y V E N K K V T G Y I D D I L V W G Q E P
UniRef90_G2PV20 A N D Y S V M S A T S Y V E N K K V T G Y I D D I L V W G Q E P
UniRef90_G2PV20 A N D Y S V M S A T S Y V E N K K V T G Y I D D I L V W G Q E P
UniRef90_UPI00037D9D2B S D D F S Y D S T K T S Y T E W E K T P L Y L N N T L I W G L E P
UniRef90_UPI00046FCBB0 T G D Y S F N G A D T N Y A D W I K A P A Y I S G S L V W G N E P
UniRef90_Q9X3P6 S N D Y S V R S A T G Y I E N E K V T G Y I D D V L V W G R E P
UniRef90_Q9X3P6 S N D Y S V R S A T G Y I E N E K V T G Y I D D V L V W G R E P
UniRef90_Q9X3P6 S N D Y S V R S A T G Y I E N E K V T G Y I D D V L V W G R E P
UniRef90_S9QZW5 S G D Y S F A S T G A T Y A D W I K A T G Y V S G G L Q W G L E P
UniRef90_W4C8P5 G D D Y S F N P L Q T S F A D W T K V T L Y R N G E L V W G V E P
UniRef90_E4S5E5 S N D Y S V M S A T S Y V E N R K I T G Y I D D V L V W G Q E P
UniRef90_E4S5E5 S N D Y S V M S A T S Y V E N R K I T G Y I D D V L V W G Q E P
UniRef90_Q3MUH7 T D D Y S F A A S S T A Y E N W S K V T G Y V S G T L Q W G I E P
UniRef90_W4D9M1 A N D Y S F N S L Q T A Y A D W N K V T L Y R N G V L V W G T E P
UniRef90_W4BWA4 T N D Y S F K A T G S Q F A N H D K V T G Y V N G Q L V W G I E P
UniRef90_UPI000466D1FB N N D H S F Q G L G T N V A K S V Y L P V Y D A G I R I Y G Q E P
UniRef90_UPI000466D1FB N N D H S F Q G L G T N V A K S V Y L P V Y D A G I R I Y G Q E P
UniRef90_W4DHP7 A N D F S F Q G V A A T P V K T A N I P V F D A G V H M Y G E L P
UniRef90_W4DHP7 A N D F S F Q G V A A T P V K T A N I P V F D A G V H M Y G E L P
UniRef90_UPI00038033C2 A D D Y S R D A S K T S Y A D W D K V T A Y L G G S L V W G I E P
UniRef90_W4DGX8 T G D Y S F D P T D S T Y I D W S H T T G Y I A G A L Q W G T E P
UniRef90_UPI00035C5BC1 V G D Y S Y D P S K T S Y T D W T K V P L Y I N G V L A W G V E P
UniRef90_V9IR95 S G D Y S Y D P G K T S Y A D W S K V T L Y R D G T R V W G V E P
UniRef90_E3EAP2 S D D Y S Y K G T Q S S Y A D H V K A T L Y Q N G V L V W G T E P
UniRef90_W4D701 T G D Y S F N P A G T A P A D W A K L P A Y I S G S L V W G N E P
UniRef90_Q01866 S N D Y S F K S R S Q F V E W D Q V T A Y L N G V L V W G K E P
UniRef90_UPI0003725B66 T N D Y S F K A S A S Q F E N H E Q V T G Y L N G Q L A W G I E P
UniRef90_W4DI68 V G D Y S Y D P A K T S Y T E W N H V P L Y L N G D L A W G L E P
UniRef90_F8FID0 T G D Y S F D G T K T A Y A N W D K V T L Y Q G G K L V W G I E P
UniRef90_F8FIG5 S N D Y S F D P T K T A F A D W S K V T V Y K D G V L I W G V E P
UniRef90_H6CJ68 S D D F S Y D P T K S S Y T E W E K A P L Y V N D K L V W G L Q P
UniRef90_E0I5N2 T G D Y S F S P T G S S Y V D W T K M S G Y A N N T L Q W G I E P
UniRef90_H6CMI1 T N D Y S Y G A N Q T V F A D W D H A T V Y Q Q D K L V W G I E P
UniRef90_A3DCG3 A D D Y S F N S H Y Y E Y V D W D R I T A Y I S G I L K W G R E P
UniRef90_H6NDH3 T G D Y S F D A A A E Y T D R S R V T G Y V K G G L V W G I E P
UniRef90_W4C6Q8 T D D Y S F A G S Q T S Y T D W S K V T G Y I A G S L Q W G I E P
UniRef90_F2JPM5 A N D Y S F N N N G F D Y K T W D K I T L Y Y N D S L I S G I E P
UniRef90_UPI0001E2DE59 K N D Y S F N S S A S N Y V E W N Y V S G L I D D I E V Y G I A P
UniRef90_UPI0001E2DE59 K N D Y S F N S S A S N Y V E W N Y V S G L I D D I E V Y G I A P
UniRef90_Q8KKF7 S N D Y S F N A T Q T A F G A W T K V T A Y Q D G A K V W G M E P
UniRef90_A5A6G3 A N D Y S Y D G A K T A F A D W N R V T L H Q N G T L V W G T A P
UniRef90_UPI00035EE16F T N D Y S Y D S T K T S Y Q D W E K V T L Y K D G I L V W G I E P
UniRef90_UPI00047B6EEA L N D Y S Y I D A Q T S F A D S S R I T L Y E N G S L I W G V E P
UniRef90_UPI00047B6EEA L N D Y S Y I D A Q T S F A D S S R I T L Y E N G S L I W G V E P
UniRef90_UPI000287E98A G G D Y S F F Q T N T F K P T K K I T L Y N H G K L I W G T E P
UniRef90_UPI00036682C8 S N D Y S F D A S K T S Y T D W N K V T L Y Q G G K L V W G M E P
UniRef90_H6CF70 S N D Y S F D P T K T S Y T E W N K V T L F Q N D E L V W G I E P
UniRef90_P29719 A N D Y S F D G A K T A Y I D W D R V T L Y Q D G Q L V W G I E P

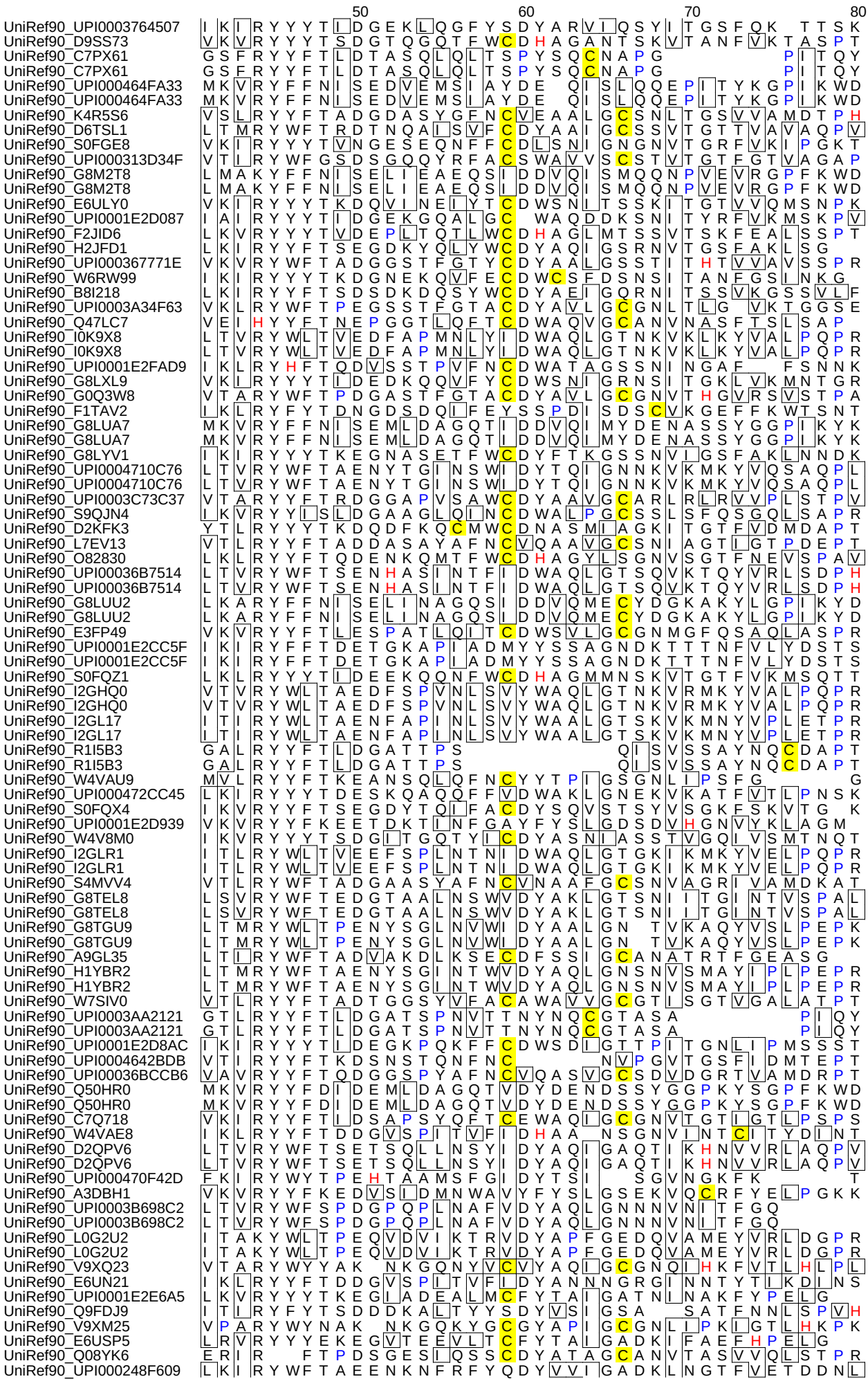

1
10
20
30
40
UniRef90_E0R9U8
UniRef90_UPI00036ACEA5
UniRef90_A0LR95
UniRef90_E4S8G9
UniRef90_E4S8G9
UniRef90_UPI00037157C8
UniRef90_E3EJF1
UniRef90_UPI00046785B5
UniRef90_W4C2P2
UniRef90_UPI0001E2F663
UniRef90_UPI0001E2F663
UniRef90_I2N9Z1
UniRef90_UPI0001E2C70E
UniRef90_UPI000370EEC2
UniRef90_UPI0001E2CCC7
UniRef90_UPI0001E2CCC7
UniRef90_E6UUJ1
UniRef90_E6UUJ1
UniRef90_I7BBE7
UniRef90_V4IBM4
UniRef90_F2R1Y0
UniRef90_Q9AQG7
UniRef90_F2Z9G6
UniRef90_UPI00036ED410
UniRef90_UPI0004703921
UniRef90_UPI0003776C24
UniRef90_UPI0002FA43A5
UniRef90_Q59395
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E2DEA5
UniRef90_UPI00037E882F
UniRef90_Q65IY7
UniRef90_B5H896
UniRef90_S2YH46
UniRef90_UPI0003C7495E
UniRef90_W6S3G9
UniRef90_W6S3G9
UniRef90_E4N479
UniRef90_D6U5X3
UniRef90_UPI0002889464
UniRef90_V5JAY7
UniRef90_W2EL57
UniRef90_D9SV32
UniRef90_UPI0002481C1B
UniRef90_E0IAP3
UniRef90_A0LVL3
UniRef90_A0LVL3
UniRef90_B8I2K6
UniRef90_B8I2K6
UniRef90_D6KEV7
UniRef90_F3NHB8
UniRef90_UPI000365174C
UniRef90_V9IRW3
UniRef90_V9IRW3
UniRef90_E6URS9
UniRef90_E6URS9
UniRef90_E8WFR8
UniRef90_S0FQ01
UniRef90_S0FQ01
UniRef90_W4V949
UniRef90_W4V758
UniRef90_W4V758
UniRef90_D9UGL0
UniRef90_UPI0004700E75
UniRef90_H6CQ04
UniRef90_UPI0001E2E79C
UniRef90_E0IFA5
UniRef90_UPI0003743698
UniRef90_UPI00037E989D
UniRef90_W4C332
UniRef90_F7ZNZ8
UniRef90_W4VCJ1
UniRef90_W4VCJ1
UniRef90_UPI0001E2E76D
UniRef90_UPI0003669766
UniRef90_P29718
UniRef90_G8M373
UniRef90_UPI0004659922
UniRef90_UPI0004659922
UniRef90_W4CR05
UniRef90_UPI000374438F
UniRef90_UPI0001E2BE38
UniRef90_UPI0001E2BE38
UniRef90_W4EB13
UniRef90_S9PAV9
UniRef90_S9PAV9
UniRef90_UPI00035F01C0
UniRef90_UPI00035F01C0
UniRef90_D5SLE0
UniRef90_Q82QF2

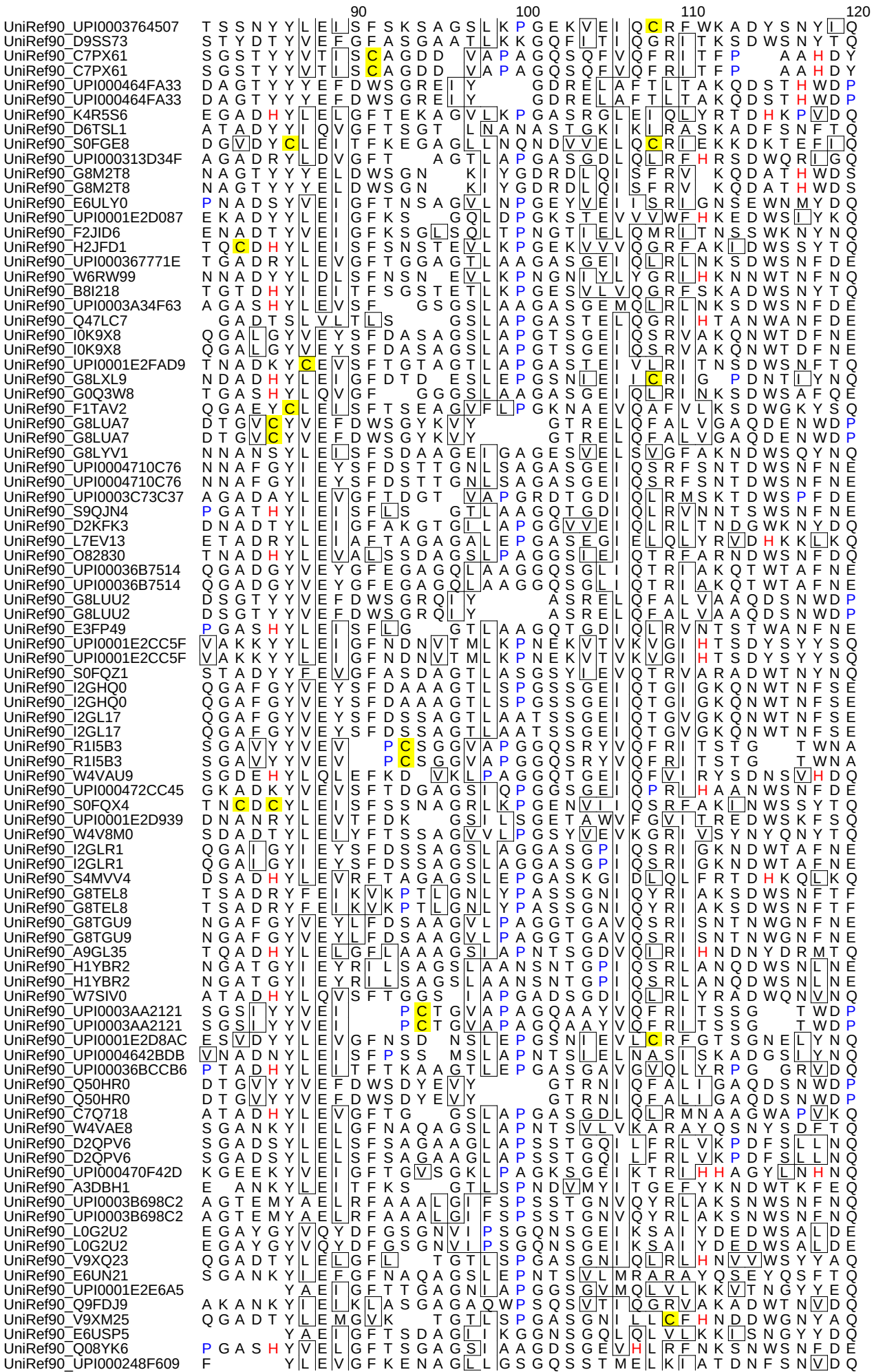

50
60
70
80
UniRef90_E0R9U8
UniRef90_UPI00036ACEA5
UniRef90_A0LR95
UniRef90_E4S8G9
UniRef90_E4S8G9
UniRef90_UPI00037157C8
UniRef90_E3EJF1
UniRef90_UPI00046785B5
UniRef90_W4C2P2
UniRef90_UPI0001E2F663
UniRef90_UPI0001E2F663
UniRef90_I2N9Z1
UniRef90_UPI0001E2C70E
UniRef90_UPI000370EEC2
UniRef90_UPI0001E2CCC7
UniRef90_UPI0001E2CCC7
UniRef90_E6UUJ1
UniRef90_E6UUJ1
UniRef90_I7BBE7
UniRef90_V4IBM4
UniRef90_F2R1Y0
UniRef90_Q9AQG7
UniRef90_F2Z9G6
UniRef90_UPI00036ED410
UniRef90_UPI0004703921
UniRef90_UPI0003776C24
UniRef90_UPI0002FA43A5
UniRef90_Q59395
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E2DEA5
UniRef90_UPI00037E882F
UniRef90_Q65IY7
UniRef90_B5H896
UniRef90_S2YH46
UniRef90_UPI0003C7495E
UniRef90_W6S3G9
UniRef90_W6S3G9
UniRef90_E4N479
UniRef90_D6U5X3
UniRef90_UPI0002889464
UniRef90_V5JAY7
UniRef90_W2EL57
UniRef90_D9SV32
UniRef90_UPI0002481C1B
UniRef90_E0IAP3
UniRef90_A0LVL3
UniRef90_A0LVL3
UniRef90_B8I2K6
UniRef90_B8I2K6
UniRef90_D6KEV7
UniRef90_F3NHB8
UniRef90_UPI000365174C
UniRef90_V9IRW3
UniRef90_V9IRW3
UniRef90_E6URS9
UniRef90_E6URS9
UniRef90_E8WFR8
UniRef90_S0FQ01
UniRef90_S0FQ01
UniRef90_W4V949
UniRef90_W4V758
UniRef90_W4V758
UniRef90_D9UGL0
UniRef90_UPI0004700E75
UniRef90_H6CQ04
UniRef90_UPI0001E2E79C
UniRef90_E0IFA5
UniRef90_UPI0003743698
UniRef90_UPI00037E989D
UniRef90_W4C332
UniRef90_F7ZNZ8
UniRef90_W4VCJ1
UniRef90_W4VCJ1
UniRef90_UPI0001E2E76D
UniRef90_UPI0003669766
UniRef90_P29718
UniRef90_G8M373
UniRef90_UPI0004659922
UniRef90_UPI0004659922
UniRef90_W4CR05
UniRef90_UPI000374438F
UniRef90_UPI0001E2BE38
UniRef90_UPI0001E2BE38
UniRef90_W4EB13
UniRef90_S9PAV9
UniRef90_S9PAV9
UniRef90_UPI00035F01C0
UniRef90_UPI00035F01C0
UniRef90_D5SLE0
UniRef90_Q82QF2

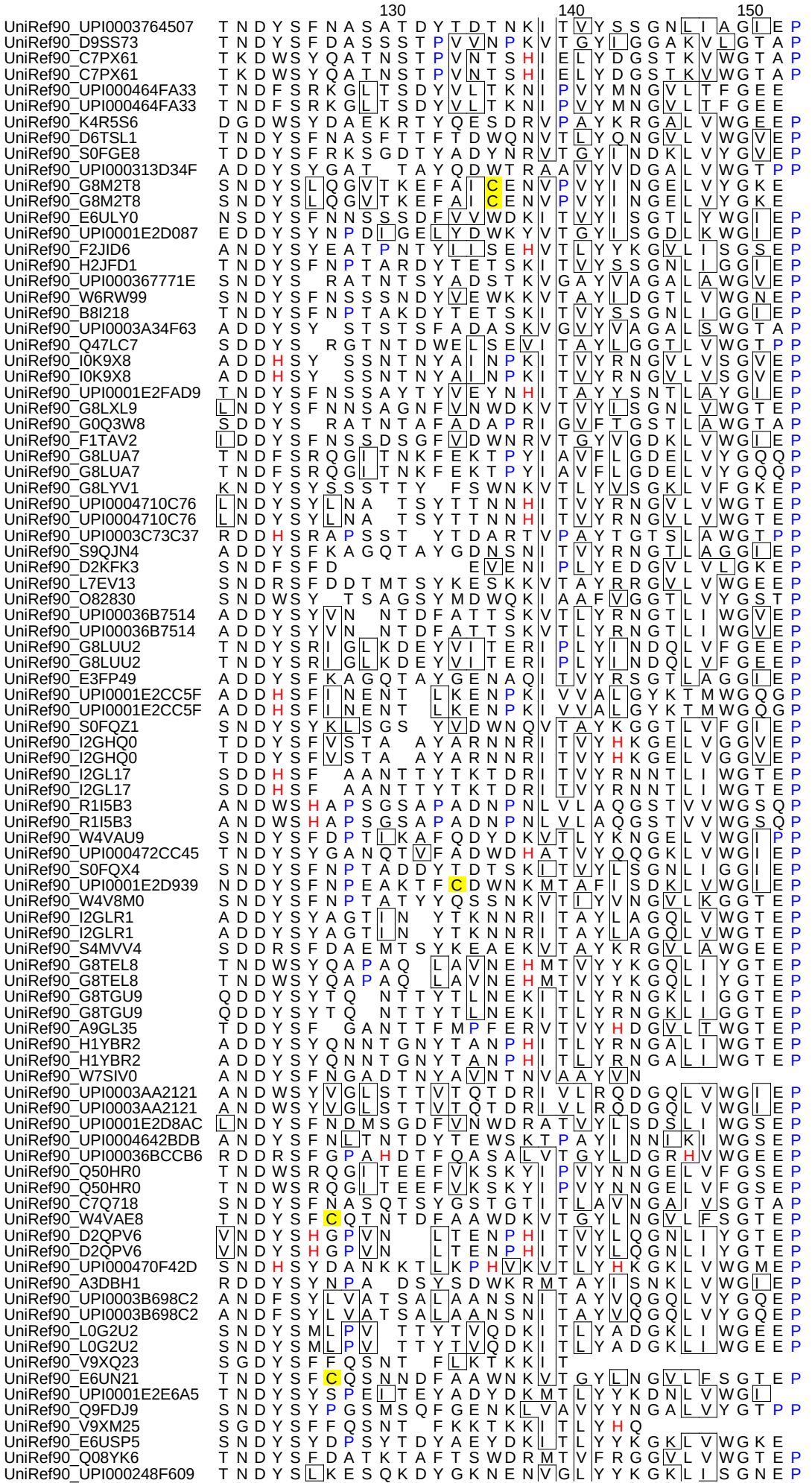

90
100
110
120
UniRef90_E0R9U8
UniRef90_UPI00036ACEA5
UniRef90_A0LR95
UniRef90_E4S8G9
UniRef90_E4S8G9
UniRef90_UPI00037157C8
UniRef90_E3EJF1
UniRef90_UPI00046785B5
UniRef90_W4C2P2
UniRef90_UPI0001E2F663
UniRef90_UPI0001E2F663
UniRef90_I2N9Z1
UniRef90_UPI0001E2C70E
UniRef90_UPI000370EEC2
UniRef90_UPI0001E2CCC7
UniRef90_UPI0001E2CCC7
UniRef90_E6UUJ1
UniRef90_E6UUJ1
UniRef90_I7BBE7
UniRef90_V4IBM4
UniRef90_F2R1Y0
UniRef90_Q9AQG7
UniRef90_F2Z9G6
UniRef90_UPI00036ED410
UniRef90_UPI0004703921
UniRef90_UPI0003776C24
UniRef90_UPI0002FA43A5
UniRef90_Q59395
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E304B3
UniRef90_UPI0001E2DEA5
UniRef90_UPI00037E882F
UniRef90_Q65IY7
UniRef90_B5H896
UniRef90_S2YH46
UniRef90_UPI0003C7495E
UniRef90_W6S3G9
UniRef90_W6S3G9
UniRef90_E4N479
UniRef90_D6U5X3
UniRef90_UPI0002889464
UniRef90_V5JAY7
UniRef90_W2EL57
UniRef90_D9SV32
UniRef90_UPI0002481C1B
UniRef90_E0IAP3
UniRef90_A0LVL3
UniRef90_A0LVL3
UniRef90_B8I2K6
UniRef90_B8I2K6
UniRef90_D6KEV7
UniRef90_F3NHB8
UniRef90_UPI000365174C
UniRef90_V9IRW3
UniRef90_V9IRW3
UniRef90_E6URS9
UniRef90_E6URS9
UniRef90_E8WFR8
UniRef90_S0FQ01
UniRef90_S0FQ01
UniRef90_W4V949
UniRef90_W4V758
UniRef90_W4V758
UniRef90_D9UGL0
UniRef90_UPI0004700E75
UniRef90_H6CQ04
UniRef90_UPI0001E2E79C
UniRef90_E0IFA5
UniRef90_UPI0003743698
UniRef90_UPI00037E989D
UniRef90_W4C332
UniRef90_F7ZNZ8
UniRef90_W4VCJ1
UniRef90_W4VCJ1
UniRef90_UPI0001E2E76D
UniRef90_UPI0003669766
UniRef90_P29718
UniRef90_G8M373
UniRef90_UPI0004659922
UniRef90_UPI0004659922
UniRef90_W4CR05
UniRef90_UPI000374438F
UniRef90_UPI0001E2BE38
UniRef90_UPI0001E2BE38
UniRef90_W4EB13
UniRef90_S9PAV9
UniRef90_S9PAV9
UniRef90_UPI00035F01C0
UniRef90_UPI00035F01C0
UniRef90_D5SLE0
UniRef90_Q82QF2

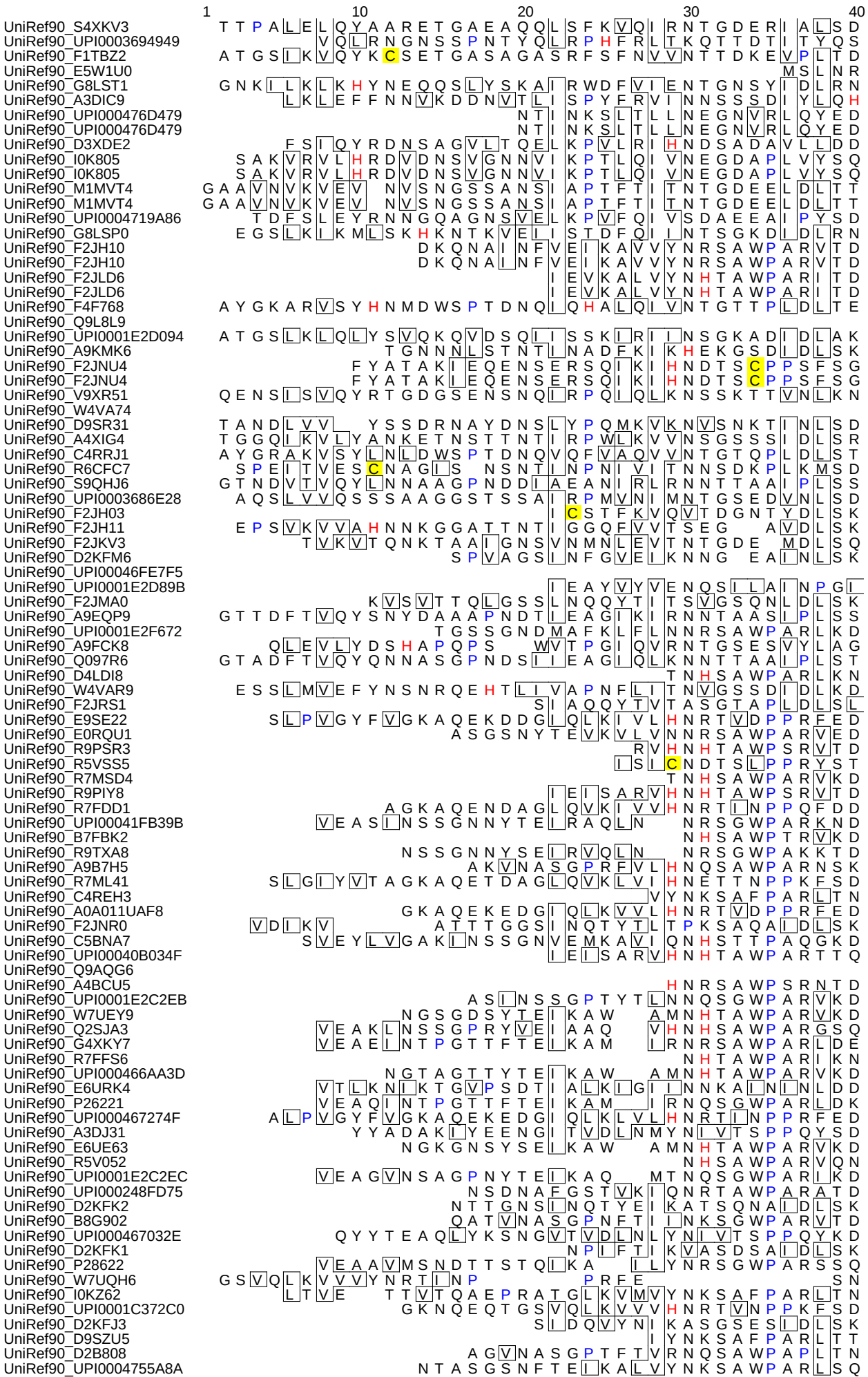

130
140
150
UniRef90_E0R9U8 T D D Y S F N P T A N S L Q D S A K I T A Y L S G N K Q W G I E P
UniRef90_UPI00036ACEA5 S D D Y S F N A A A T A Y V D S P L T P A Y I G G T L A W G Q E P
UniRef90_A0LR95 T N D Y S Y G T N T T F Q D W S K V T V Y V N G R L V W G T E P
UniRef90_E4S8G9 S N D Y S F K G L D K T V I K T K Y I P L Y D G K K L V W G I E P
UniRef90_E4S8G9 S N D Y S F K G L D K T V I K T K Y I P L Y D G K K L V W G I E P
UniRef90_UPI00037157C8 T N D Y S Y K A D Q T E F G E W N R V V L Y I N G E R V Y G I E P
UniRef90_E3EJF1 S D D F S Y D A T K T S Y T D W E K A P L Y I N D K R V W G L E P
UniRef90_UPI00046785B5 S D D Y S H G S G T S Y A D A S K I G V Y V G G E P V W G I E P
UniRef90_W4C2P2 A N D Y S F D A T K T A Y T N W D K V T L Y Q S D A L V W G I A P
UniRef90_UPI0001E2F663 A N D Y S R D G V K T E F F R T E C I P V Y K E E K L V F G K E P
UniRef90_UPI0001E2F663 A N D Y S R D G V K T E F F R T E C I P V Y K E E K L V F G K E P
UniRef90_I2N9Z1 S D D H S F G A A Q S A Y A D W P K V T A Q L S G T T V W G T E P
UniRef90_UPI0001E2C70E T G D Y S F N S T A S Y Y I E W N K S P G Y I L G I L N W G M E P
UniRef90_UPI000370EEC2 T D D Y S F D S T D N S Y A D W S K A P A Y I S G S L V W G N E P
UniRef90_UPI0001E2CCC7 S N D Y S F N P T A T A Y A D T D K V T V Y L S G T L N S G T P P
UniRef90_UPI0001E2CCC7 S N D Y S F N P T A T A Y A D T D K V T V Y L S G T L N S G T P P
UniRef90_E6UUJ1 E N D Y S R E G L G K E F V R T E K I P L Y L N G V K V F G N E P
UniRef90_E6UUJ1 E N D Y S R E G L G K E F V R T E K I P L Y L N G V K V F G N E P
UniRef90_I7BBE7 S D D Y S F S G S R T S Y A D W N K A T A L L A G A T V W G T A P
UniRef90_V4IBM4 S D D Y S R S T S T G F T D H A K I G L Y L G T A L T W G T A P
UniRef90_F2R1Y0 S D D Y S F G P A Q T T Y A N W S K V T A T V G G A P V W G T A P
UniRef90_Q9AQG7 A D D W S W L Q S M T D Y G E N A K V T L Y V D G V L
UniRef90_F2Z9G6 S N D Y S F D G T K T S F V D W N K I T L L Q G G T I V W G V A P
UniRef90_UPI00036ED410 S D D Y S F G A G S T S Y A D W T K V T A Q L G G A T V W G T A P
UniRef90_UPI0004703921 A D D Y S F N S S A T A Y M E R P E I P V Y A A G Q L L W G R E P
UniRef90_UPI0003776C24 T N D Y S F D A A K T A Y S L W N H V T L Y Q N G T L V S G L E P
UniRef90_UPI0002FA43A5 N N D Y S F R P T Q T S Y D V W N R V T L H Q N G T L I S G V T P
UniRef90_Q59395 T N D Y S Y G P N V T S Y T N W D K I T V H D K G T L V W G T E P
UniRef90_UPI0001E304B3 W D D Y S F N S T A A N Y T N W D K I T M F Y N D K K I S G Q E P
UniRef90_UPI0001E304B3 W D D Y S F N S T A A N Y T N W D K I T M F Y N D K K I S G Q E P
UniRef90_UPI0001E304B3 W D D Y S F N S T A A N Y T N W D K I T M F Y N D K K I S G Q E P
UniRef90_UPI0001E2DEA5 A N D Y S F N S S S S T Y T D W S K T T G Y I N G T L A W G V E P
UniRef90_UPI00037E882F S G D Y S Y D P T K T T Y T S W E K I T L H Q S G E L I F G L L P
UniRef90_Q65IY7 S G D Y S F F N S N T F K N T K K I T L Y E N G K L I W G T E P
UniRef90_B5H896 S D D Y S F G P G R T S Y G D W T K V T A S V G G P T V W G T A P
UniRef90_S2YH46 S D D Y S F G A S Q T S Y A N W P K V T A Q L S G S T V W G A A P
UniRef90_UPI0003C7495E S D D Y S F N G A R T M Y A D W A Q V T A R I S G A H V W G T A P
UniRef90_W6S3G9 N N D Y S F N S S A T E L V D W D K A I L L V K D I V V S G E V P
UniRef90_W6S3G9 N N D Y S F N S S A T E L V D W D K A I L L V K D I V V S G E V P
UniRef90_E4N479 S D D Y S F G G A Q T G Y A D W Q K V T L Q E D G A L V W G T A P
UniRef90_D6U5X3 N N D Y S F N A H S T S Y Q L A P Y V T V Y I H G H I V W G S E P
UniRef90_UPI0002889464 N D D Y S F D P S K T S Y T S H D K V T L Y Q N G N L V W G N E P
UniRef90_V5JAY7 A G D Y S F F Q S N T F K D T K K I T L Y H Q G K L I
UniRef90_W2EL57 S D D Y S F G A A R T T Y A D W D K V A V Y Q N G N L V W G T P P
UniRef90_D9SV32 S N D Y S F D P I N S S P C E N L K V A E Y L C G T L V W G T P
UniRef90_UPI0002481C1B L N D Y S F N G V S T S Y G E W D K V N V Y Q N N S L I W G V E P
UniRef90_E0IAP3 T G D Y S F S S T G S S Y V D W S K M T G Y V S G S L Q W G I E P
UniRef90_A0LVL3 T N D W S Y Q G V A T T P G A T N N I V L Y D G T T A I W G S A
UniRef90_A0LVL3 T N D W S Y Q G V A T T P G A T N N I V L Y D G T T A I W G S A
UniRef90_B8I2K6 S N D Y S M K N L T S T Y A V T K N V P V Y L D G T L V Y G E E
UniRef90_B8I2K6 S N D Y S M K N L T S T Y A V T K N V P V Y L D G T L V Y G E E
UniRef90_D6KEV7 S D D Y S F S A N Q T A Y G D W S K V T A T R A G A L V W G A A P
UniRef90_F3NHB8 S D D Y S F G A G Q T S Y A N W S R V T A Q L G G A T V W G T A P
UniRef90_UPI000365174C T N D Y S Y N N G N T T F A T Y N K V T I Y N Q D K L V W G V T P
UniRef90_V9IRW3 N V D Y A V V G S S N V T G K F V K L P A A R S G A
UniRef90_V9IRW3 N V D Y A V V G S S N V T G K F V K L P A A R S G A
UniRef90_E6URS9 S N D Y S R Q G L T N E Y A I S K N V P V Y L N G V K V Y G E E P
UniRef90_E6URS9 S N D Y S R Q G L T N E Y A I S K N V P V Y L N G V K V Y G E E P
UniRef90_E8WFR8 S D D Y S F G A E R S T Y A D W S R V T A R L G G V T A W G E A P
UniRef90_S0FQ01 S N D Y S R M N V T G T Y A V T G N V P V Y L N G V L V Y G E E
UniRef90_S0FQ01 S N D Y S R M N V T G T Y A V T G N V P V Y L N G V L V Y G E E
UniRef90_W4V949 F N D Y S Y N K A N N R F I N W D C I T V Y V A G K L V Y G K E P
UniRef90_W4V758 E N D Y S R E G L G K E Y I K T E R I P L Y L H G E K V F G N E P
UniRef90_W4V758 E N D Y S R E G L G K E Y I K T E R I P L Y L H G E K V F G N E P
UniRef90_D9UGL0 N D D Y S F S A A K T S Y G A W D K V T A S L N G T Q V W G T A P
UniRef90_UPI0004700E75 A D D Y S F Q P A I T S Y A A N D H I T V Y H K G K L I Y G I E P
UniRef90_H6CQ04 L D D Y S F D S A S S S M K D S S K I T A Y L S G S K Q W G I E P
UniRef90_UPI0001E2E79C K N D Y S Y S A S T T Y F E W N K V T L Y V S G K L A F G R E P
UniRef90_E0IFA5 T N D Y S F D S T K T A F A D W S K A T L Y Q N G T L V W G I E P
UniRef90_UPI0003743698 S D D Y S R A A D T A Y A D N P R V G V Y N S G T L S W G T A P
UniRef90_UPI00037E989D T G D Y S R G T G A D Y A D A P R I P A Y L G G D L V W G T P P
UniRef90_W4C332 A N D Y S F D P T K V S F S T W N K V T L Y Q N D V L I S G I A P
UniRef90_F7ZNZ8 S N D Y S F T S N A S D F T D W D K I T G Y V N G D L V F G N P P
UniRef90_W4VCJ1 S N D Y S R K G L T S E Y E V C K N I P V Y L H G V K A Y G E E P
UniRef90_W4VCJ1 S N D Y S R K G L T S E Y E V C K N I P V Y L H G V K A Y G E E P
UniRef90_UPI0001E2E76D L N D Y S F N P S Q R Y V T S N K I T L Y T N G K L I Y G K E P
UniRef90_UPI0003669766 A D D Y S F K P S L T S Y T A N D R I T V Y H K G K L I Y G I E P
UniRef90_P29718 A N D Y S F D G T K T A F A D W D R V V L Y Q N G Q I V W G T A P
UniRef90_G8M373 T N D Y S F N S S S S Y I N F D K V T A Y I N G N L I Y G T E P
UniRef90_UPI0004659922 S N D Y S K E G L T T E Y A V T K K I P V Y L D G K L V Y G E E
UniRef90_UPI0004659922 S N D Y S K E G L T T E Y A V T K K I P V Y L D G K L V Y G E E
UniRef90_W4CR05 T N D Y S F N G Q A T G F T D T S K I T A Y S S G N L I A G M E P
UniRef90_UPI000374438F A D D Y S R A A N T A F T D A S K V G V Y V N G A L S S G T A P
UniRef90_UPI0001E2BE38 S N D Y S K Q N A T N T Y S I N K N V P V Y L N G V K V Y G E E P
UniRef90_UPI0001E2BE38 S N D Y S K Q N A T N T Y S I N K N V P V Y L N G V K V Y G E E P
UniRef90_W4EB13 A N D Y S F R P L L T S F T A N D R I T V Y H N G T L I Y G V E P
UniRef90_S9PAV9 T N D P S Y K N L T A T A A R T S L I P I Y D N G V R I F G S E P
UniRef90_S9PAV9 T N D P S Y K N L T A T A A R T S L I P I Y D N G V R I F G S E P
UniRef90_UPI00035F01C0 T D D H S Y Q A T G N N S L V N L N I T A Y L N G S L V W G I E P
UniRef90_UPI00035F01C0 T D D H S Y Q A T G N N S L V N L N I T A Y L N G S L V W G I E P
UniRef90_D5SLE0 G D D H S F S A E R T T Y A D W D R V T A H L S G T T V W G
UniRef90_Q82QF2 V G D Y S R G T S T T Y T E A A A I P A Y L S A T P A W G A P P

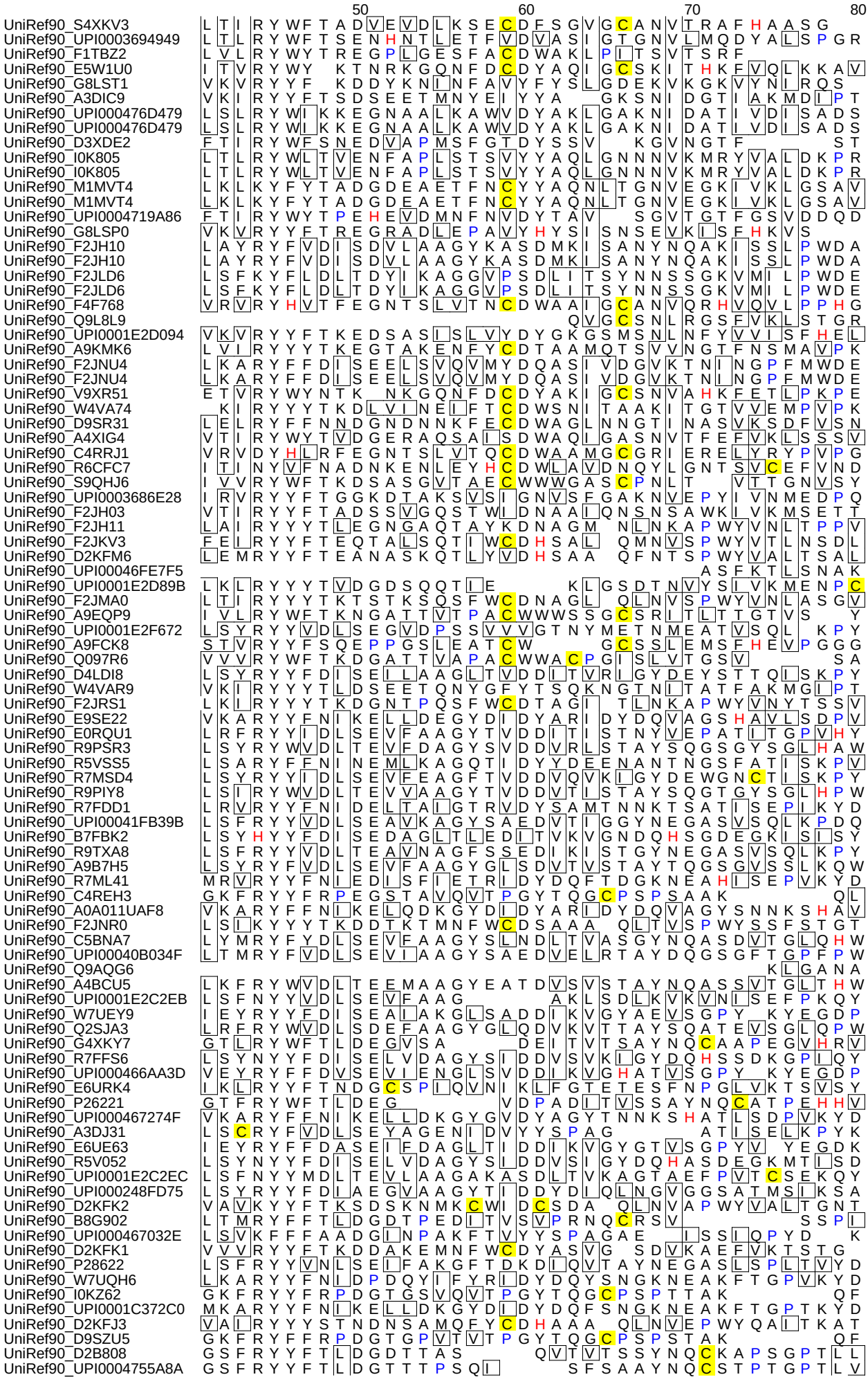

1
10
20
30
40
UniRef90_UPI0003764507
UniRef90_D9SS73
UniRef90_C7PX61
UniRef90_C7PX61
UniRef90_UPI000464FA33
UniRef90_UPI000464FA33
UniRef90_K4R5S6
UniRef90_D6TSL1
UniRef90_S0FGE8
UniRef90_UPI000313D34F
UniRef90_G8M2T8
UniRef90_G8M2T8
UniRef90_E6ULY0
UniRef90_UPI0001E2D087
UniRef90_F2JID6
UniRef90_H2JFD1
UniRef90_UPI000367771E
UniRef90_W6RW99
UniRef90_B8I218
UniRef90_UPI0003A34F63
UniRef90_Q47LC7
UniRef90_I0K9X8
UniRef90_I0K9X8
UniRef90_UPI0001E2FAD9
UniRef90_G8LXL9
UniRef90_G0Q3W8
UniRef90_F1TAV2
UniRef90_G8LUA7
UniRef90_G8LUA7
UniRef90_G8LYV1
UniRef90_UPI0004710C76
UniRef90_UPI0004710C76
UniRef90_UPI0003C73C37
UniRef90_S9QJN4
UniRef90_D2KFK3
UniRef90_L7EV13
UniRef90_O82830
UniRef90_UPI00036B7514
UniRef90_UPI00036B7514
UniRef90_G8LUU2
UniRef90_G8LUU2
UniRef90_E3FP49
UniRef90_UPI0001E2CC5F
UniRef90_UPI0001E2CC5F
UniRef90_S0FQZ1
UniRef90_I2GHQ0
UniRef90_I2GHQ0
UniRef90_I2GL17
UniRef90_I2GL17
UniRef90_R1I5B3
UniRef90_R1I5B3
UniRef90_W4VAU9
UniRef90_UPI000472CC45
UniRef90_S0FQX4
UniRef90_UPI0001E2D939
UniRef90_W4V8M0
UniRef90_I2GLR1
UniRef90_I2GLR1
UniRef90_S4MVV4
UniRef90_G8TEL8
UniRef90_G8TEL8
UniRef90_G8TGU9
UniRef90_G8TGU9
UniRef90_A9GL35
UniRef90_H1YBR2
UniRef90_H1YBR2
UniRef90_W7SIV0
UniRef90_UPI0003AA2121
UniRef90_UPI0003AA2121
UniRef90_UPI0001E2D8AC
UniRef90_UPI0004642BDB
UniRef90_UPI00036BCCB6
UniRef90_Q50HR0
UniRef90_Q50HR0
UniRef90_C7Q718
UniRef90_W4VAE8
UniRef90_D2QPV6
UniRef90_D2QPV6
UniRef90_UPI000470F42D
UniRef90_A3DBH1
UniRef90_UPI0003B698C2
UniRef90_UPI0003B698C2
UniRef90_L0G2U2
UniRef90_L0G2U2
UniRef90_V9XQ23
UniRef90_E6UN21
UniRef90_UPI0001E2E6A5
UniRef90_Q9FDJ9
UniRef90_V9XM25
UniRef90_E6USP5
UniRef90_Q08YK6
UniRef90_UPI000248F609

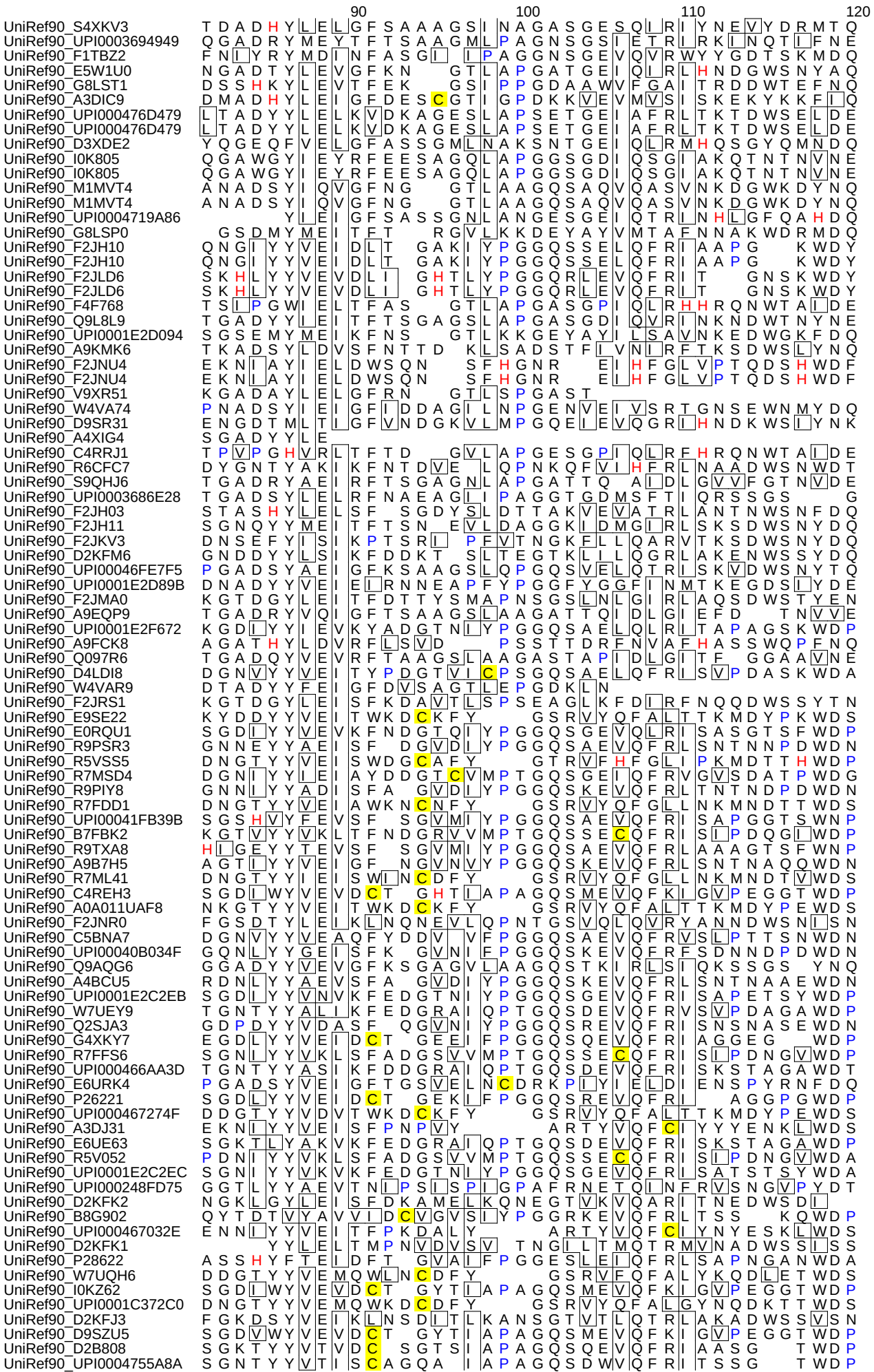

50
60
70
80
UniRef90_UPI0003764507
UniRef90_D9SS73
UniRef90_C7PX61
UniRef90_C7PX61
UniRef90_UPI000464FA33
UniRef90_UPI000464FA33
UniRef90_K4R5S6
UniRef90_D6TSL1
UniRef90_S0FGE8
UniRef90_UPI000313D34F
UniRef90_G8M2T8
UniRef90_G8M2T8
UniRef90_E6ULY0
UniRef90_UPI0001E2D087
UniRef90_F2JID6
UniRef90_H2JFD1
UniRef90_UPI000367771E
UniRef90_W6RW99
UniRef90_B8I218
UniRef90_UPI0003A34F63
UniRef90_Q47LC7
UniRef90_I0K9X8
UniRef90_I0K9X8
UniRef90_UPI0001E2FAD9
UniRef90_G8LXL9
UniRef90_G0Q3W8
UniRef90_F1TAV2
UniRef90_G8LUA7
UniRef90_G8LUA7
UniRef90_G8LYV1
UniRef90_UPI0004710C76
UniRef90_UPI0004710C76
UniRef90_UPI0003C73C37
UniRef90_S9QJN4
UniRef90_D2KFK3
UniRef90_L7EV13
UniRef90_O82830
UniRef90_UPI00036B7514
UniRef90_UPI00036B7514
UniRef90_G8LUU2
UniRef90_G8LUU2
UniRef90_E3FP49
UniRef90_UPI0001E2CC5F
UniRef90_UPI0001E2CC5F
UniRef90_S0FQZ1
UniRef90_I2GHQ0
UniRef90_I2GHQ0
UniRef90_I2GL17
UniRef90_I2GL17
UniRef90_R1I5B3
UniRef90_R1I5B3
UniRef90_W4VAU9
UniRef90_UPI000472CC45
UniRef90_S0FQX4
UniRef90_UPI0001E2D939
UniRef90_W4V8M0
UniRef90_I2GLR1
UniRef90_I2GLR1
UniRef90_S4MVV4
UniRef90_G8TEL8
UniRef90_G8TEL8
UniRef90_G8TGU9
UniRef90_G8TGU9
UniRef90_A9GL35
UniRef90_H1YBR2
UniRef90_H1YBR2
UniRef90_W7SIV0
UniRef90_UPI0003AA2121
UniRef90_UPI0003AA2121
UniRef90_UPI0001E2D8AC
UniRef90_UPI0004642BDB
UniRef90_UPI00036BCCB6
UniRef90_Q50HR0
UniRef90_Q50HR0
UniRef90_C7Q718
UniRef90_W4VAE8
UniRef90_D2QPV6
UniRef90_D2QPV6
UniRef90_UPI000470F42D
UniRef90_A3DBH1
UniRef90_UPI0003B698C2
UniRef90_UPI0003B698C2
UniRef90_L0G2U2
UniRef90_L0G2U2
UniRef90_V9XQ23
UniRef90_E6UN21
UniRef90_UPI0001E2E6A5
UniRef90_Q9FDJ9
UniRef90_V9XM25
UniRef90_E6USP5
UniRef90_Q08YK6
UniRef90_UPI000248F609

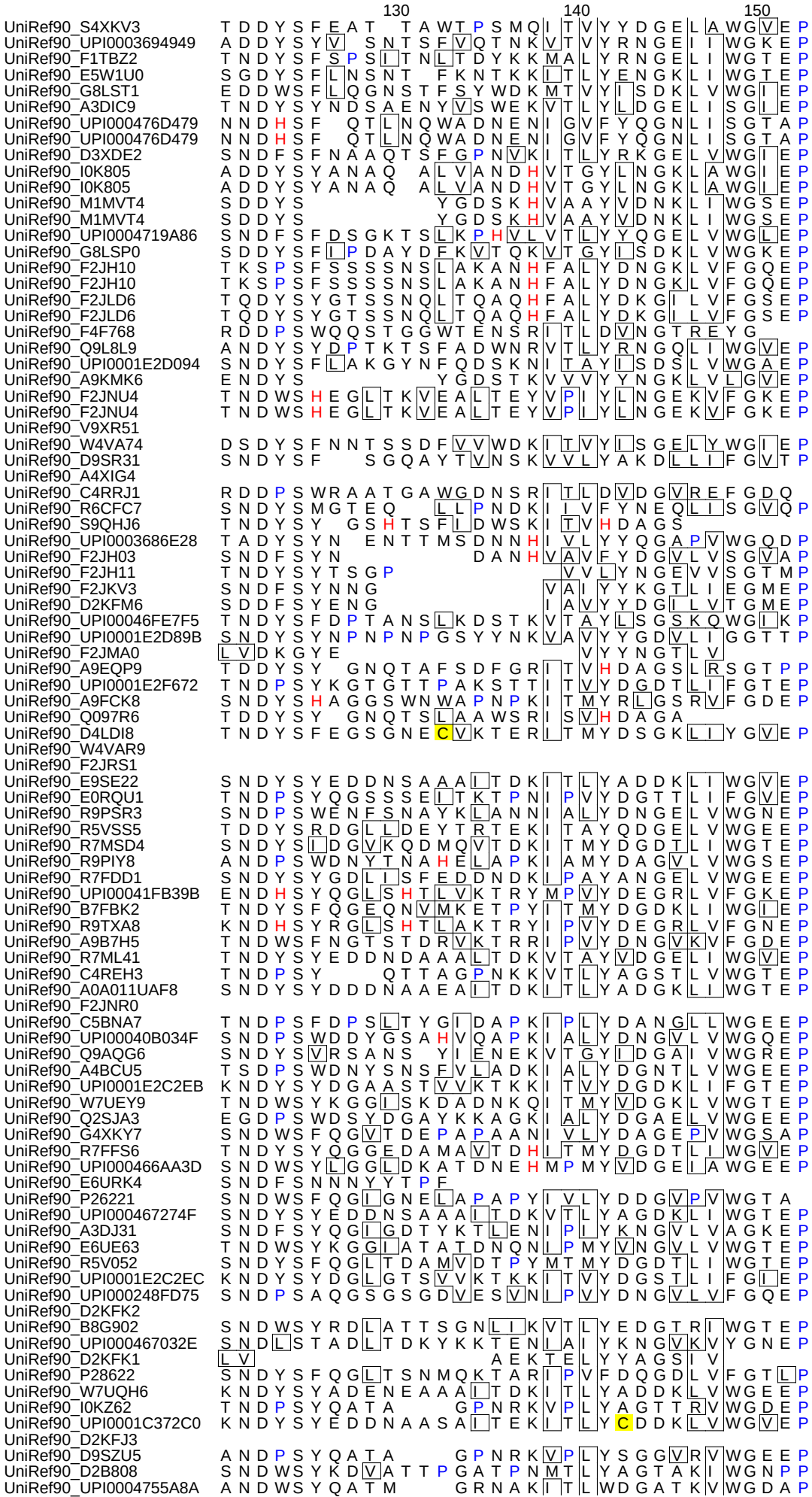

90
100
110
120
UniRef90_UPI0003764507
UniRef90_D9SS73
UniRef90_C7PX61
UniRef90_C7PX61
UniRef90_UPI000464FA33
UniRef90_UPI000464FA33
UniRef90_K4R5S6
UniRef90_D6TSL1
UniRef90_S0FGE8
UniRef90_UPI000313D34F
UniRef90_G8M2T8
UniRef90_G8M2T8
UniRef90_E6ULY0
UniRef90_UPI0001E2D087
UniRef90_F2JID6
UniRef90_H2JFD1
UniRef90_UPI000367771E
UniRef90_W6RW99
UniRef90_B8I218
UniRef90_UPI0003A34F63
UniRef90_Q47LC7
UniRef90_I0K9X8
UniRef90_I0K9X8
UniRef90_UPI0001E2FAD9
UniRef90_G8LXL9
UniRef90_G0Q3W8
UniRef90_F1TAV2
UniRef90_G8LUA7
UniRef90_G8LUA7
UniRef90_G8LYV1
UniRef90_UPI0004710C76
UniRef90_UPI0004710C76
UniRef90_UPI0003C73C37
UniRef90_S9QJN4
UniRef90_D2KFK3
UniRef90_L7EV13
UniRef90_O82830
UniRef90_UPI00036B7514
UniRef90_UPI00036B7514
UniRef90_G8LUU2
UniRef90_G8LUU2
UniRef90_E3FP49
UniRef90_UPI0001E2CC5F
UniRef90_UPI0001E2CC5F
UniRef90_S0FQZ1
UniRef90_I2GHQ0
UniRef90_I2GHQ0
UniRef90_I2GL17
UniRef90_I2GL17
UniRef90_R1I5B3
UniRef90_R1I5B3
UniRef90_W4VAU9
UniRef90_UPI000472CC45
UniRef90_S0FQX4
UniRef90_UPI0001E2D939
UniRef90_W4V8M0
UniRef90_I2GLR1
UniRef90_I2GLR1
UniRef90_S4MVV4
UniRef90_G8TEL8
UniRef90_G8TEL8
UniRef90_G8TGU9
UniRef90_G8TGU9
UniRef90_A9GL35
UniRef90_H1YBR2
UniRef90_H1YBR2
UniRef90_W7SIV0
UniRef90_UPI0003AA2121
UniRef90_UPI0003AA2121
UniRef90_UPI0001E2D8AC
UniRef90_UPI0004642BDB
UniRef90_UPI00036BCCB6
UniRef90_Q50HR0
UniRef90_Q50HR0
UniRef90_C7Q718
UniRef90_W4VAE8
UniRef90_D2QPV6
UniRef90_D2QPV6
UniRef90_UPI000470F42D
UniRef90_A3DBH1
UniRef90_UPI0003B698C2
UniRef90_UPI0003B698C2
UniRef90_L0G2U2
UniRef90_L0G2U2
UniRef90_V9XQ23
UniRef90_E6UN21
UniRef90_UPI0001E2E6A5
UniRef90_Q9FDJ9
UniRef90_V9XM25
UniRef90_E6USP5
UniRef90_Q08YK6
UniRef90_UPI000248F609

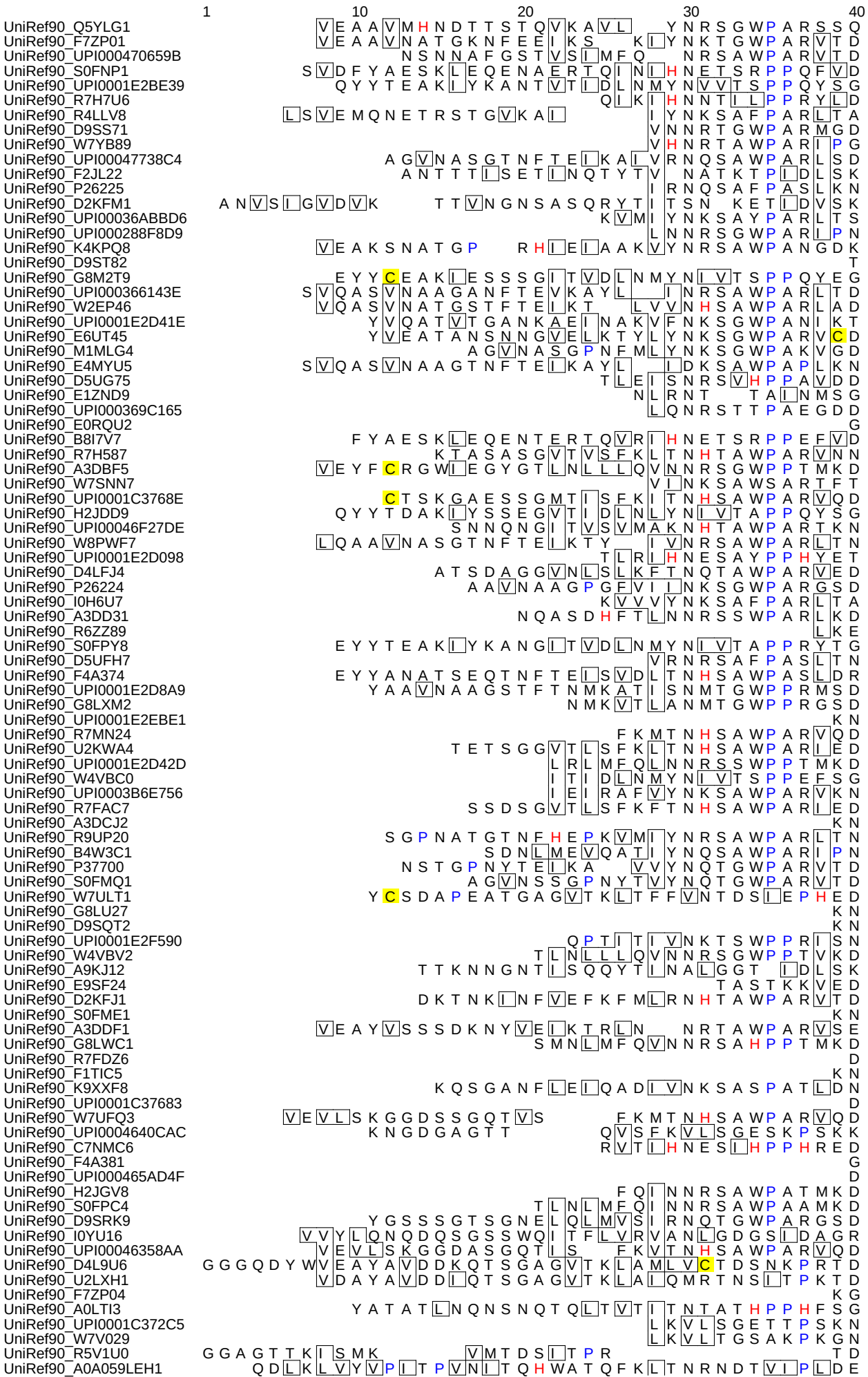

130
140
150
UniRef90_UPI0003764507
UniRef90_D9SS73
UniRef90_C7PX61
UniRef90_C7PX61
UniRef90_UPI000464FA33
UniRef90_UPI000464FA33
UniRef90_K4R5S6
UniRef90_D6TSL1
UniRef90_S0FGE8
UniRef90_UPI0003313D34F
UniRef90_G8M2T8
UniRef90_G8M2T8
UniRef90_E6ULY0
UniRef90_UPI0001E2D087
UniRef90_F2JID6
UniRef90_H2JFD1
UniRef90_UPI000367771E
UniRef90_W6RW99
UniRef90_B8I218
UniRef90_UPI0003A34F63
UniRef90_Q47LC7
UniRef90_I0K9X8
UniRef90_I0K9X8
UniRef90_UPI0001E2FAD9
UniRef90_G8LXL9
UniRef90_G0Q3W8
UniRef90_F1TAV2
UniRef90_G8LUA7
UniRef90_G8LUA7
UniRef90_G8LYV1
UniRef90_UPI0004710C76
UniRef90_UPI0004710C76
UniRef90_UPI0003C73C37
UniRef90_S9QJN4
UniRef90_D2KFK3
UniRef90_L7EV13
UniRef90_O82830
UniRef90_UPI00036B7514
UniRef90_UPI00036B7514
UniRef90_G8LUU2
UniRef90_G8LUU2
UniRef90_E3FP49
UniRef90_UPI0001E2CC5F
UniRef90_UPI0001E2CC5F
UniRef90_S0FQZ1
UniRef90_I2GHQ0
UniRef90_I2GHQ0
UniRef90_I2GL17
UniRef90_I2GL17
UniRef90_R1I5B3
UniRef90_R1I5B3
UniRef90_W4VAU9
UniRef90_UPI000472CC45
UniRef90_S0FQX4
UniRef90_UPI0001E2D939
UniRef90_W4V8M0
UniRef90_I2GLR1
UniRef90_I2GLR1
UniRef90_S4MVV4
UniRef90_G8TEL8
UniRef90_G8TEL8
UniRef90_G8TGU9
UniRef90_G8TGU9
UniRef90_A9GL35
UniRef90_H1YBR2
UniRef90_H1YBR2
UniRef90_W7SIV0
UniRef90_UPI0003AA2121
UniRef90_UPI0003AA2121
UniRef90_UPI0001E2D8AC
UniRef90_UPI0004642BDB
UniRef90_UPI00036BCCB6
UniRef90_Q50HR0
UniRef90_Q50HR0
UniRef90_C7Q718
UniRef90_W4VAE8
UniRef90_D2QPV6
UniRef90_D2QPV6
UniRef90_UPI000470F42D
UniRef90_A3DBH1
UniRef90_UPI0003B698C2
UniRef90_UPI0003B698C2
UniRef90_L0G2U2
UniRef90_L0G2U2
UniRef90_V9XQ23
UniRef90_E6UN21
UniRef90_UPI0001E2E6A5
UniRef90_Q9FDJ9
UniRef90_V9XM25
UniRef90_E6USP5
UniRef90_Q08YK6
UniRef90_UPI000248F609

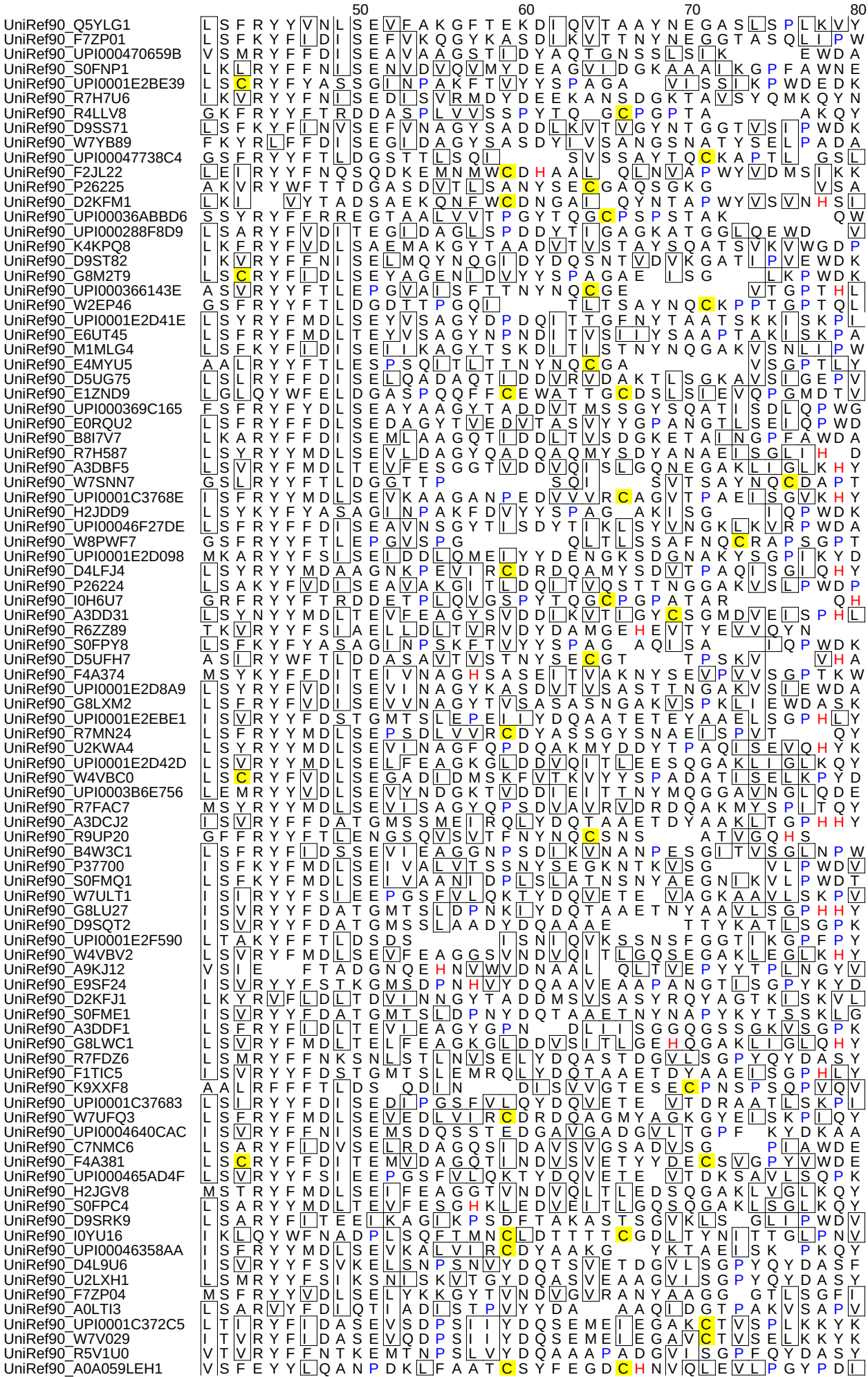

1
10
20
30
40
UniRef90_S4XKV3
UniRef90_UPI0003694949
UniRef90_F1TBZ2
UniRef90_E5W1U0
UniRef90_G8LST1
UniRef90_A3DIC9
UniRef90_UPI000476D479
UniRef90_UPI000476D479
UniRef90_D3XDE2
UniRef90_I0K805
UniRef90_I0K805
UniRef90_M1MVT4
UniRef90_M1MVT4
UniRef90_UPI0004719A86
UniRef90_G8LSP0
UniRef90_F2JH10
UniRef90_F2JH10
UniRef90_F2JLD6
UniRef90_F2JLD6
UniRef90_F4F768
UniRef90_Q9L8L9
UniRef90_UPI0001E2D094
UniRef90_A9KMK6
UniRef90_F2JNU4
UniRef90_F2JNU4
UniRef90_V9XR51
UniRef90_W4VA74
UniRef90_D9SR31
UniRef90_A4XIG4
UniRef90_C4RRJ1
UniRef90_R6CFC7
UniRef90_S9QHJ6
UniRef90_UPI0003686E28
UniRef90_F2JH03
UniRef90_F2JH11
UniRef90_F2JKV3
UniRef90_D2KFM6
UniRef90_UPI00046FE7F5
UniRef90_UPI0001E2D89B
UniRef90_F2JMA0
UniRef90_A9EQP9
UniRef90_UPI0001E2F672
UniRef90_A9FCK8
UniRef90_Q097R6
UniRef90_D4LDI8
UniRef90_W4VAR9
UniRef90_F2JRS1
UniRef90_E9SE22
UniRef90_E0RQU1
UniRef90_R9PSR3
UniRef90_R5VSS5
UniRef90_R7MSD4
UniRef90_R9PIY8
UniRef90_R7FDD1
UniRef90_UPI00041FB39B
UniRef90_B7FBK2
UniRef90_R9TXA8
UniRef90_A9B7H5
UniRef90_R7ML41
UniRef90_C4REH3
UniRef90_A0A011UAF8
UniRef90_F2JNR0
UniRef90_C5BNA7
UniRef90_UPI00040B034F
UniRef90_Q9AQG6
UniRef90_A4BCU5
UniRef90_UPI0001E2C2EB
UniRef90_W7UEY9
UniRef90_Q2SJA3
UniRef90_G4XKY7
UniRef90_R7FFS6
UniRef90_UPI000466AA3D
UniRef90_E6URK4
UniRef90_P26221
UniRef90_UPI000467274F
UniRef90_A3DJ31
UniRef90_E6UE63
UniRef90_R5V052
UniRef90_UPI0001E2C2EC
UniRef90_UPI000248FD75
UniRef90_D2KFK2
UniRef90_B8G902
UniRef90_UPI000467032E
UniRef90_D2KFK1
UniRef90_P28622
UniRef90_W7UQH6
UniRef90_I0KZ62
UniRef90_UPI0001C372C0
UniRef90_D2KFJ3
UniRef90_D9SZU5
UniRef90_D2B808
UniRef90_UPI0004755A8A

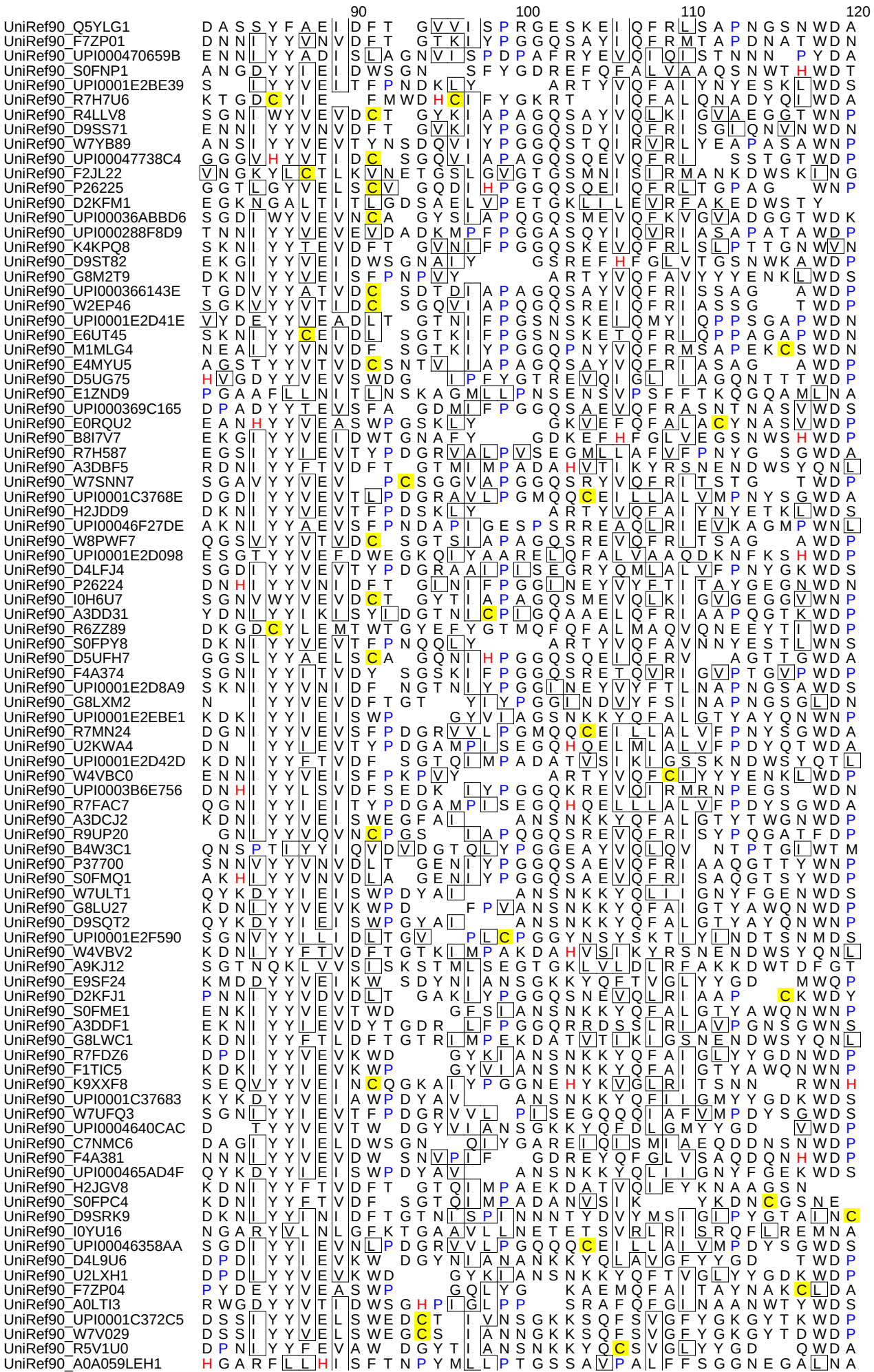

50
60
70
80
UniRef90_S4XKV3
UniRef90_UPI0003694949
UniRef90_F1TBZ2
UniRef90_E5W1U0
UniRef90_G8LST1
UniRef90_A3DIC9
UniRef90_UPI000476D479
UniRef90_UPI000476D479
UniRef90_D3XDE2
UniRef90_I0K805
UniRef90_I0K805
UniRef90_M1MVT4
UniRef90_M1MVT4
UniRef90_UPI0004719A86
UniRef90_G8LSP0
UniRef90_F2JH10
UniRef90_F2JH10
UniRef90_F2JLD6
UniRef90_F2JLD6
UniRef90_F4F768
UniRef90_Q9L8L9
UniRef90_UPI0001E2D094
UniRef90_A9KMK6
UniRef90_F2JNU4
UniRef90_F2JNU4
UniRef90_V9XR51
UniRef90_W4VA74
UniRef90_D9SR31
UniRef90_A4XIG4
UniRef90_C4RRJ1
UniRef90_R6CFC7
UniRef90_S9QHJ6
UniRef90_UPI0003686E28
UniRef90_F2JH03
UniRef90_F2JH11
UniRef90_F2JKV3
UniRef90_D2KFM6
UniRef90_UPI00046FE7F5
UniRef90_UPI0001E2D89B
UniRef90_F2JMA0
UniRef90_A9EQP9
UniRef90_UPI0001E2F672
UniRef90_A9FCK8
UniRef90_Q097R6
UniRef90_D4LDI8
UniRef90_W4VAR9
UniRef90_F2JRS1
UniRef90_E9SE22
UniRef90_E0RQU1
UniRef90_R9PSR3
UniRef90_R5VSS5
UniRef90_R7MSD4
UniRef90_R9PIY8
UniRef90_R7FDD1
UniRef90_UPI00041FB39B
UniRef90_B7FBK2
UniRef90_R9TXA8
UniRef90_A9B7H5
UniRef90_R7ML41
UniRef90_C4REH3
UniRef90_A0A011UAF8
UniRef90_F2JNR0
UniRef90_C5BNA7
UniRef90_UPI00040B034F
UniRef90_Q9AQG6
UniRef90_A4BCU5
UniRef90_UPI0001E2C2EB
UniRef90_W7UEY9
UniRef90_Q2SJA3
UniRef90_G4XKY7
UniRef90_R7FFS6
UniRef90_UPI000466AA3D
UniRef90_E6URK4
UniRef90_P26221
UniRef90_UPI000467274F
UniRef90_A3DJ31
UniRef90_E6UE63
UniRef90_R5V052
UniRef90_UPI0001E2C2EC
UniRef90_UPI000248FD75
UniRef90_D2KFK2
UniRef90_B8G902
UniRef90_UPI000467032E
UniRef90_D2KFK1
UniRef90_P28622
UniRef90_W7UQH6
UniRef90_I0KZ62
UniRef90_UPI0001C372C0
UniRef90_D2KFJ3
UniRef90_D9SZU5
UniRef90_D2B808
UniRef90_UPI0004755A8A

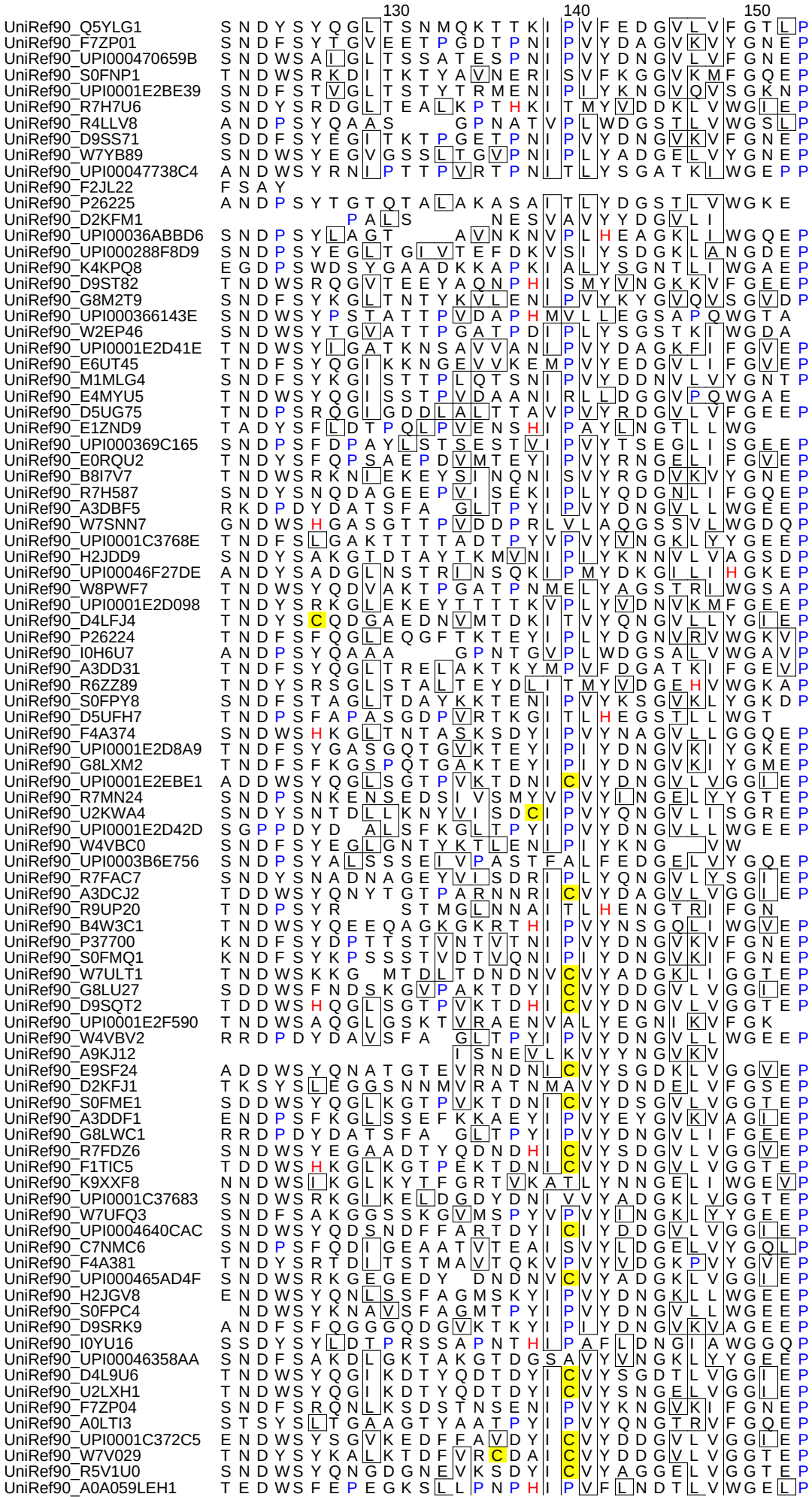

90
100
110
120
UniRef90_S4XKV3
UniRef90_UPI0003694949
UniRef90_F1TBZ2
UniRef90_E5W1U0
UniRef90_G8LST1
UniRef90_A3DIC9
UniRef90_UPI000476D479
UniRef90_UPI000476D479
UniRef90_D3XDE2
UniRef90_I0K805
UniRef90_I0K805
UniRef90_M1MVT4
UniRef90_M1MVT4
UniRef90_UPI0004719A86
UniRef90_G8LSP0
UniRef90_F2JH10
UniRef90_F2JH10
UniRef90_F2JLD6
UniRef90_F2JLD6
UniRef90_F4F768
UniRef90_Q9L8L9
UniRef90_UPI0001E2D094
UniRef90_A9KMK6
UniRef90_F2JNU4
UniRef90_F2JNU4
UniRef90_V9XR51
UniRef90_W4VA74
UniRef90_D9SR31
UniRef90_A4XIG4
UniRef90_C4RRJ1
UniRef90_R6CFC7
UniRef90_S9QHJ6
UniRef90_UPI0003686E28
UniRef90_F2JH03
UniRef90_F2JH11
UniRef90_F2JKV3
UniRef90_D2KFM6
UniRef90_UPI00046FE7F5
UniRef90_UPI0001E2D89B
UniRef90_F2JMA0
UniRef90_A9EQP9
UniRef90_UPI0001E2F672
UniRef90_A9FCK8
UniRef90_Q097R6
UniRef90_D4LDI8
UniRef90_W4VAR9
UniRef90_F2JRS1
UniRef90_E9SE22
UniRef90_E0RQU1
UniRef90_R9PSR3
UniRef90_R5VSS5
UniRef90_R7MSD4
UniRef90_R9PIY8
UniRef90_R7FDD1
UniRef90_UPI00041FB39B
UniRef90_B7FBK2
UniRef90_R9TXA8
UniRef90_A9B7H5
UniRef90_R7ML41
UniRef90_C4REH3
UniRef90_A0A011UAF8
UniRef90_F2JNR0
UniRef90_C5BNA7
UniRef90_UPI00040B034F
UniRef90_Q9AQG6
UniRef90_A4BCU5
UniRef90_UPI0001E2C2EB
UniRef90_W7UEY9
UniRef90_Q2SJA3
UniRef90_G4XKY7
UniRef90_R7FFS6
UniRef90_UPI000466AA3D
UniRef90_E6URK4
UniRef90_P26221
UniRef90_UPI000467274F
UniRef90_A3DJ31
UniRef90_E6UE63
UniRef90_R5V052
UniRef90_UPI0001E2C2EC
UniRef90_UPI000248FD75
UniRef90_D2KFK2
UniRef90_B8G902
UniRef90_UPI000467032E
UniRef90_D2KFK1
UniRef90_P28622
UniRef90_W7UQH6
UniRef90_I0KZ62
UniRef90_UPI0001C372C0
UniRef90_D2KFJ3
UniRef90_D9SZU5
UniRef90_D2B808
UniRef90_UPI0004755A8A

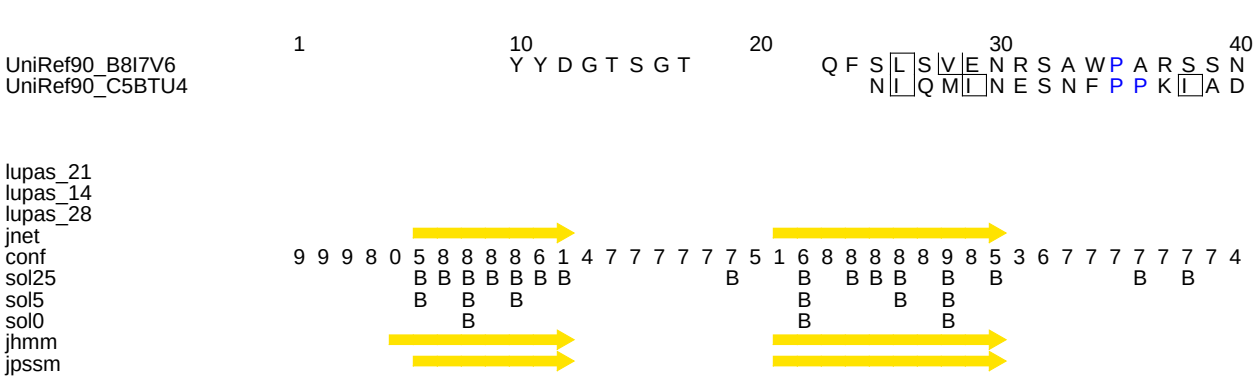

130
140
150
UniRef90_S4XKV3
UniRef90_UPI0003694949
UniRef90_F1TBZ2
UniRef90_E5W1U0
UniRef90_G8LST1
UniRef90_A3DIC9
UniRef90_UPI000476D479
UniRef90_UPI000476D479
UniRef90_D3XDE2
UniRef90_I0K805
UniRef90_I0K805
UniRef90_M1MVT4
UniRef90_M1MVT4
UniRef90_UPI0004719A86
UniRef90_G8LSP0
UniRef90_F2JH10
UniRef90_F2JH10
UniRef90_F2JLD6
UniRef90_F2JLD6
UniRef90_F4F768
UniRef90_Q9L8L9
UniRef90_UPI0001E2D094
UniRef90_A9KMK6
UniRef90_F2JNU4
UniRef90_F2JNU4
UniRef90_V9XR51
UniRef90_W4VA74
UniRef90_D9SR31
UniRef90_A4XIG4
UniRef90_C4RRJ1
UniRef90_R6CFC7
UniRef90_S9QHJ6
UniRef90_UPI0003686E28
UniRef90_F2JH03
UniRef90_F2JH11
UniRef90_F2JKV3
UniRef90_D2KFM6
UniRef90_UPI00046FE7F5
UniRef90_UPI0001E2D89B
UniRef90_F2JMA0
UniRef90_A9EQP9
UniRef90_UPI0001E2F672
UniRef90_A9FCK8
UniRef90_Q097R6
UniRef90_D4LDI8
UniRef90_W4VAR9
UniRef90_F2JRS1
UniRef90_E9SE22
UniRef90_E0RQU1
UniRef90_R9PSR3
UniRef90_R5VSS5
UniRef90_R7MSD4
UniRef90_R9PIY8
UniRef90_R7FDD1
UniRef90_UPI00041FB39B
UniRef90_B7FBK2
UniRef90_R9TXA8
UniRef90_A9B7H5
UniRef90_R7ML41
UniRef90_C4REH3
UniRef90_A0A011UAF8
UniRef90_F2JNR0
UniRef90_C5BNA7
UniRef90_UPI00040B034F
UniRef90_Q9AQG6
UniRef90_A4BCU5
UniRef90_UPI0001E2C2EB
UniRef90_W7UEY9
UniRef90_Q2SJA3
UniRef90_G4XKY7
UniRef90_R7FFS6
UniRef90_UPI000466AA3D
UniRef90_E6URK4
UniRef90_P26221
UniRef90_UPI000467274F
UniRef90_A3DJ31
UniRef90_E6UE63
UniRef90_R5V052
UniRef90_UPI0001E2C2EC
UniRef90_UPI000248FD75
UniRef90_D2KFK2
UniRef90_B8G902
UniRef90_UPI000467032E
UniRef90_D2KFK1
UniRef90_P28622
UniRef90_W7UQH6
UniRef90_I0KZ62
UniRef90_UPI0001C372C0
UniRef90_D2KFJ3
UniRef90_D9SZU5
UniRef90_D2B808
UniRef90_UPI0004755A8A

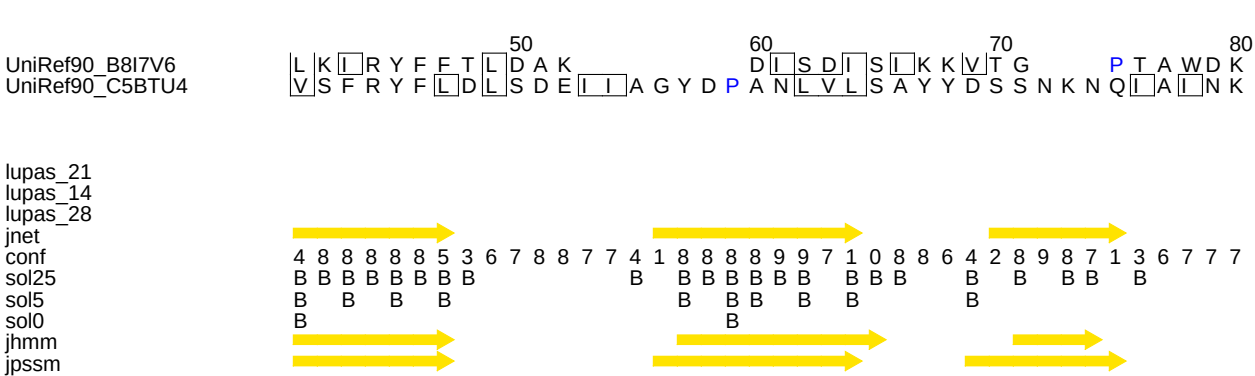

1
10
20
30
40
UniRef90_Q5YLG1
UniRef90_F7ZP01
UniRef90_UPI000470659B
UniRef90_S0FNP1
UniRef90_UPI0001E2BE39
UniRef90_R7H7U6
UniRef90_R4LLV8
UniRef90_D9SS71
UniRef90_W7YB89
UniRef90_UPI00047738C4
UniRef90_F2JL22
UniRef90_P26225
UniRef90_D2KFM1
UniRef90_UPI00036ABBD6
UniRef90_UPI000288F8D9
UniRef90_K4KPQ8
UniRef90_D9ST82
UniRef90_G8M2T9
UniRef90_UPI000366143E
UniRef90_W2EP46
UniRef90_UPI0001E2D41E
UniRef90_E6UT45
UniRef90_M1MLG4
UniRef90_E4MYU5
UniRef90_D5UG75
UniRef90_E1ZND9
UniRef90_UPI000369C165
UniRef90_E0RQU2
UniRef90_B8I7V7
UniRef90_R7H587
UniRef90_A3DBF5
UniRef90_W7SNN7
UniRef90_UPI0001C3768E
UniRef90_H2JDD9
UniRef90_UPI00046F27DE
UniRef90_W8PWF7
UniRef90_UPI0001E2D098
UniRef90_D4LFJ4
UniRef90_P26224
UniRef90_I0H6U7
UniRef90_A3DD31
UniRef90_R6ZZ89
UniRef90_S0FPY8
UniRef90_D5UFH7
UniRef90_F4A374
UniRef90_UPI0001E2D8A9
UniRef90_G8LXM2
UniRef90_UPI0001E2EBE1
UniRef90_R7MN24
UniRef90_U2KWA4
UniRef90_UPI0001E2D42D
UniRef90_W4VBC0
UniRef90_UPI0003B6E756
UniRef90_R7FAC7
UniRef90_A3DCJ2
UniRef90_R9UP20
UniRef90_B4W3C1
UniRef90_P37700
UniRef90_S0FMQ1
UniRef90_W7ULT1
UniRef90_G8LU27
UniRef90_D9SQT2
UniRef90_UPI0001E2F590
UniRef90_W4VBV2
UniRef90_A9KJ12
UniRef90_E9SF24
UniRef90_D2KFJ1
UniRef90_S0FME1
UniRef90_A3DDF1
UniRef90_G8LWC1
UniRef90_R7FDZ6
UniRef90_F1TIC5
UniRef90_K9XXF8
UniRef90_UPI0001C37683
UniRef90_W7UFQ3
UniRef90_UPI0004640CAC
UniRef90_C7NMC6
UniRef90_F4A381
UniRef90_UPI000465AD4F
UniRef90_H2JGV8
UniRef90_S0FPC4
UniRef90_D9SRK9
UniRef90_I0YU16
UniRef90_UPI00046358AA
UniRef90_D4L9U6
UniRef90_U2LXH1
UniRef90_F7ZP04
UniRef90_A0LTI3
UniRef90_UPI0001C372C5
UniRef90_W7V029
UniRef90_R5V1U0
UniRef90_A0A059LEH1

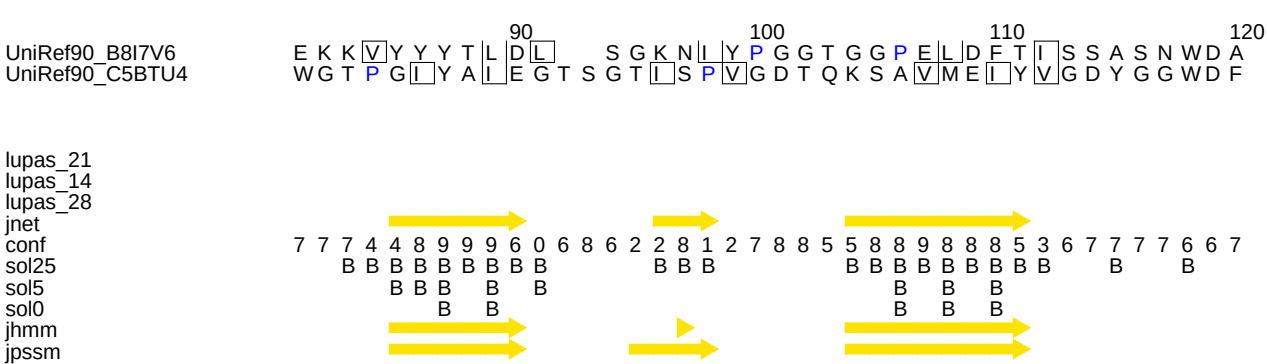

50
60
70
80
UniRef90_Q5YLG1
UniRef90_F7ZP01
UniRef90_UPI000470659B
UniRef90_S0FNP1
UniRef90_UPI0001E2BE39
UniRef90_R7H7U6
UniRef90_R4LLV8
UniRef90_D9SS71
UniRef90_W7YB89
UniRef90_UPI00047738C4
UniRef90_F2JL22
UniRef90_P26225
UniRef90_D2KFM1
UniRef90_UPI00036ABBD6
UniRef90_UPI000288F8D9
UniRef90_K4KPQ8
UniRef90_D9ST82
UniRef90_G8M2T9
UniRef90_UPI000366143E
UniRef90_W2EP46
UniRef90_UPI0001E2D41E
UniRef90_E6UT45
UniRef90_M1MLG4
UniRef90_E4MYU5
UniRef90_D5UG75
UniRef90_E1ZND9
UniRef90_UPI000369C165
UniRef90_E0RQU2
UniRef90_B8I7V7
UniRef90_R7H587
UniRef90_A3DBF5
UniRef90_W7SNN7
UniRef90_UPI0001C3768E
UniRef90_H2JDD9
UniRef90_UPI00046F27DE
UniRef90_W8PWF7
UniRef90_UPI0001E2D098
UniRef90_D4LFJ4
UniRef90_P26224
UniRef90_I0H6U7
UniRef90_A3DD31
UniRef90_R6ZZ89
UniRef90_S0FPY8
UniRef90_D5UFH7
UniRef90_F4A374
UniRef90_UPI0001E2D8A9
UniRef90_G8LXM2
UniRef90_UPI0001E2EBE1
UniRef90_R7MN24
UniRef90_U2KWA4
UniRef90_UPI0001E2D42D
UniRef90_W4VBC0
UniRef90_UPI0003B6E756
UniRef90_R7FAC7
UniRef90_A3DCJ2
UniRef90_R9UP20
UniRef90_B4W3C1
UniRef90_P37700
UniRef90_S0FMQ1
UniRef90_W7ULT1
UniRef90_G8LU27
UniRef90_D9SQT2
UniRef90_UPI0001E2F590
UniRef90_W4VBV2
UniRef90_A9KJ12
UniRef90_E9SF24
UniRef90_D2KFJ1
UniRef90_S0FME1
UniRef90_A3DDF1
UniRef90_G8LWC1
UniRef90_R7FDZ6
UniRef90_F1TIC5
UniRef90_K9XXF8
UniRef90_UPI0001C37683
UniRef90_W7UFQ3
UniRef90_UPI0004640CAC
UniRef90_C7NMC6
UniRef90_F4A381
UniRef90_UPI000465AD4F
UniRef90_H2JGV8
UniRef90_S0FPC4
UniRef90_D9SRK9
UniRef90_I0YU16
UniRef90_UPI00046358AA
UniRef90_D4L9U6
UniRef90_U2LXH1
UniRef90_F7ZP04
UniRef90_A0LTI3
UniRef90_UPI0001C372C5
UniRef90_W7V029
UniRef90_R5V1U0
UniRef90_A0A059LEH1

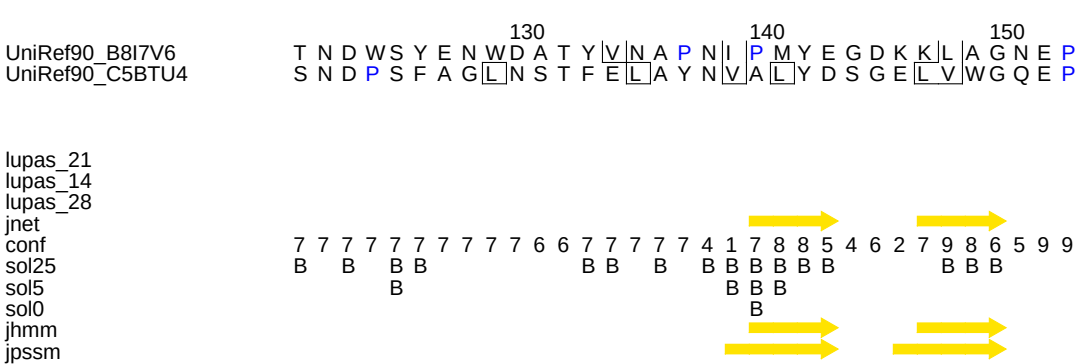

90
100
110
120
UniRef90_Q5YLG1
UniRef90_F7ZP01
UniRef90_UPI000470659B
UniRef90_S0FNP1
UniRef90_UPI0001E2BE39
UniRef90_R7H7U6
UniRef90_R4LLV8
UniRef90_D9SS71
UniRef90_W7YB89
UniRef90_UPI00047738C4
UniRef90_F2JL22
UniRef90_P26225
UniRef90_D2KFM1
UniRef90_UPI00036ABBD6
UniRef90_UPI000288F8D9
UniRef90_K4KPQ8
UniRef90_D9ST82
UniRef90_G8M2T9
UniRef90_UPI000366143E
UniRef90_W2EP46
UniRef90_UPI0001E2D41E
UniRef90_E6UT45
UniRef90_M1MLG4
UniRef90_E4MYU5
UniRef90_D5UG75
UniRef90_E1ZND9
UniRef90_UPI000369C165
UniRef90_E0RQU2
UniRef90_B8I7V7
UniRef90_R7H587
UniRef90_A3DBF5
UniRef90_W7SNN7
UniRef90_UPI0001C3768E
UniRef90_H2JDD9
UniRef90_UPI00046F27DE
UniRef90_W8PWF7
UniRef90_UPI0001E2D098
UniRef90_D4LFJ4
UniRef90_P26224
UniRef90_I0H6U7
UniRef90_A3DD31
UniRef90_R6ZZ89
UniRef90_S0FPY8
UniRef90_D5UFH7
UniRef90_F4A374
UniRef90_UPI0001E2D8A9
UniRef90_G8LXM2
UniRef90_UPI0001E2EBE1
UniRef90_R7MN24
UniRef90_U2KWA4
UniRef90_UPI0001E2D42D
UniRef90_W4VBC0
UniRef90_UPI0003B6E756
UniRef90_R7FAC7
UniRef90_A3DCJ2
UniRef90_R9UP20
UniRef90_B4W3C1
UniRef90_P37700
UniRef90_S0FMQ1
UniRef90_W7ULT1
UniRef90_G8LU27
UniRef90_D9SQT2
UniRef90_UPI0001E2F590
UniRef90_W4VBV2
UniRef90_A9KJ12
UniRef90_E9SF24
UniRef90_D2KFJ1
UniRef90_S0FME1
UniRef90_A3DDF1
UniRef90_G8LWC1
UniRef90_R7FDZ6
UniRef90_F1TIC5
UniRef90_K9XXF8
UniRef90_UPI0001C37683
UniRef90_W7UFQ3
UniRef90_UPI0004640CAC
UniRef90_C7NMC6
UniRef90_F4A381
UniRef90_UPI000465AD4F
UniRef90_H2JGV8
UniRef90_S0FPC4
UniRef90_D9SRK9
UniRef90_I0YU16
UniRef90_UPI00046358AA
UniRef90_D4L9U6
UniRef90_U2LXH1
UniRef90_F7ZP04
UniRef90_A0LTI3
UniRef90_UPI0001C372C5
UniRef90_W7V029
UniRef90_R5V1U0
UniRef90_A0A059LEH1


130
140
150
UniRef90_Q5YLG1
UniRef90_F7ZP01
UniRef90_UPI000470659B
UniRef90_S0FNP1
UniRef90_UPI0001E2BE39
UniRef90_R7H7U6
UniRef90_R4LLV8
UniRef90_D9SS71
UniRef90_W7YB89
UniRef90_UPI00047738C4
UniRef90_F2JL22
UniRef90_P26225
UniRef90_D2KFM1
UniRef90_UPI00036ABBD6
UniRef90_UPI000288F8D9
UniRef90_K4KPQ8
UniRef90_D9ST82
UniRef90_G8M2T9
UniRef90_UPI000366143E
UniRef90_W2EP46
UniRef90_UPI0001E2D41E
UniRef90_E6UT45
UniRef90_M1MLG4
UniRef90_E4MYU5
UniRef90_D5UG75
UniRef90_E1ZND9
UniRef90_UPI000369C165
UniRef90_E0RQU2
UniRef90_B8I7V7
UniRef90_R7H587
UniRef90_A3DBF5
UniRef90_W7SNN7
UniRef90_UPI0001C3768E
UniRef90_H2JDD9
UniRef90_UPI00046F27DE
UniRef90_W8PWF7
UniRef90_UPI0001E2D098
UniRef90_D4LFJ4
UniRef90_P26224
UniRef90_I0H6U7
UniRef90_A3DD31
UniRef90_R6ZZ89
UniRef90_S0FPY8
UniRef90_D5UFH7
UniRef90_F4A374
UniRef90_UPI0001E2D8A9
UniRef90_G8LXM2
UniRef90_UPI0001E2EBE1
UniRef90_R7MN24
UniRef90_U2KWA4
UniRef90_UPI0001E2D42D
UniRef90_W4VBC0
UniRef90_UPI0003B6E756
UniRef90_R7FAC7
UniRef90_A3DCJ2
UniRef90_R9UP20
UniRef90_B4W3C1
UniRef90_P37700
UniRef90_S0FMQ1
UniRef90_W7ULT1
UniRef90_G8LU27
UniRef90_D9SQT2
UniRef90_UPI0001E2F590
UniRef90_W4VBV2
UniRef90_A9KJ12
UniRef90_E9SF24
UniRef90_D2KFJ1
UniRef90_S0FME1
UniRef90_A3DDF1
UniRef90_G8LWC1
UniRef90_R7FDZ6
UniRef90_F1TIC5
UniRef90_K9XXF8
UniRef90_UPI0001C37683
UniRef90_W7UFQ3
UniRef90_UPI0004640CAC
UniRef90_C7NMC6
UniRef90_F4A381
UniRef90_UPI000465AD4F
UniRef90_H2JGV8
UniRef90_S0FPC4
UniRef90_D9SRK9
UniRef90_I0YU16
UniRef90_UPI00046358AA
UniRef90_D4L9U6
UniRef90_U2LXH1
UniRef90_F7ZP04
UniRef90_A0LTI3
UniRef90_UPI0001C372C5
UniRef90_W7V029
UniRef90_R5V1U0
UniRef90_A0A059LEH1


1 10 20 30 40
UniRef90_B8I7V6 Y Y D G T S G T Q F S L S V E N R S A W P A R S S N
UniRef90_C5BTU4 N I Q M I N E S N F P P K I A D
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 9 8 0 5 8 8 8 8 6 1 4 7 7 7 7 7 7 5 1 6 8 8 8 8 8 9 8 5 3 6 7 7 7 7 7 7 7 4
sol25 B B B B B B B B B B B B B B B B
sol5 B B B B B B B B
sol0 B B B B
jhmm
jpssm


50
60
70
80
UniRef90_B8I7V6 L K I R Y F F T L D A K D I S D I S I K K V T G P T A W D K
UniRef90_C5BTU4 V S F R Y F L D L S D E I I A G Y D P A N L V L S A Y Y D S S N K N Q I A I N K
lupas_21
lupas_14
lupas_28
jnet
conf 4 8 8 8 8 8 5 3 6 7 8 8 7 7 4 1 8 8 8 8 9 9 7 1 0 8 8 6 4 2 8 9 8 7 1 3 6 7 7 7
sol25 B B B B B B B B B B B B B B B B B B B B B B B B B B
sol5 B B B B B B B B B B B B B B
sol0 B B
jhmm
jpssm


90
100
110
120
UniRef90_B8I7V6 E K K V Y Y Y T L D L S G K N I Y P G G T G G P E L D F T I S S A S N W D A
UniRef90_C5BTU4 W G T P G I Y A I E G T S G T I S P V G D T Q K S A V M E I Y V G D Y G G W D F
lupas_21
lupas_14
lupas_28
jnet
conf 7 7 7 4 4 8 9 9 9 6 0 6 8 6 2 2 8 1 2 7 8 8 5 5 8 8 9 8 8 8 5 3 6 7 7 7 7 6 6 7
sol25 B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
sol5 B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
sol0 B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B
jhmm
jpssm


130
140
150
UniRef90_B8I7V6 T N D W S Y E N W D A T Y V N A P N I P M Y E G D K K L A G N E P
UniRef90_C5BTU4 S N D P S F A G L N S T F E L A Y N V A L Y D S G E L V W G Q E P
lupas_21
lupas_14
lupas_28
jnet
conf 7 7 7 7 7 7 7 7 7 7 6 6 7 7 7 7 7 4 1 7 8 8 5 4 6 2 7 9 8 6 5 9 9
sol25 B B B B B B B B B B B B
sol5 B B B B B
sol0 B
jhmm
jpssm