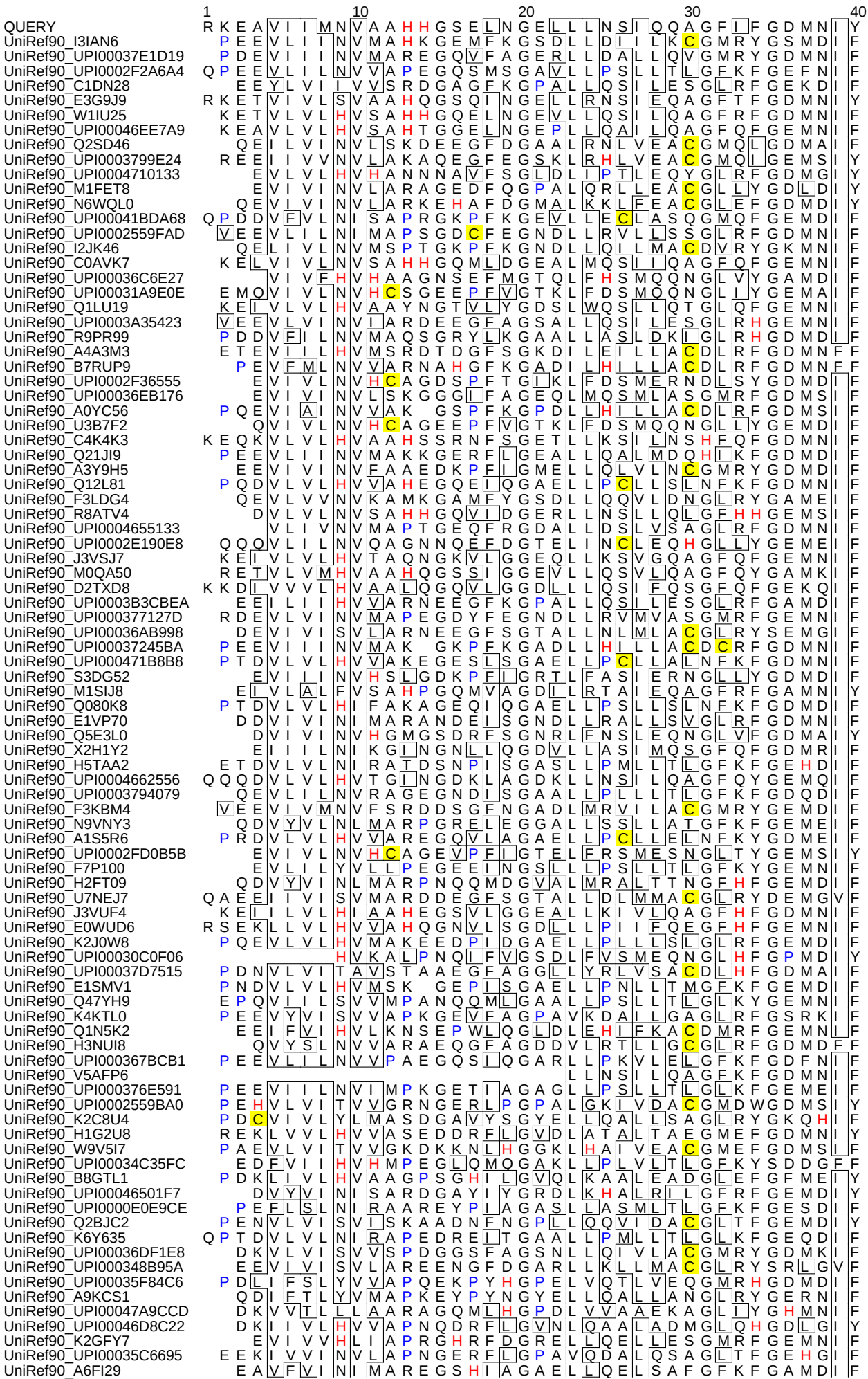
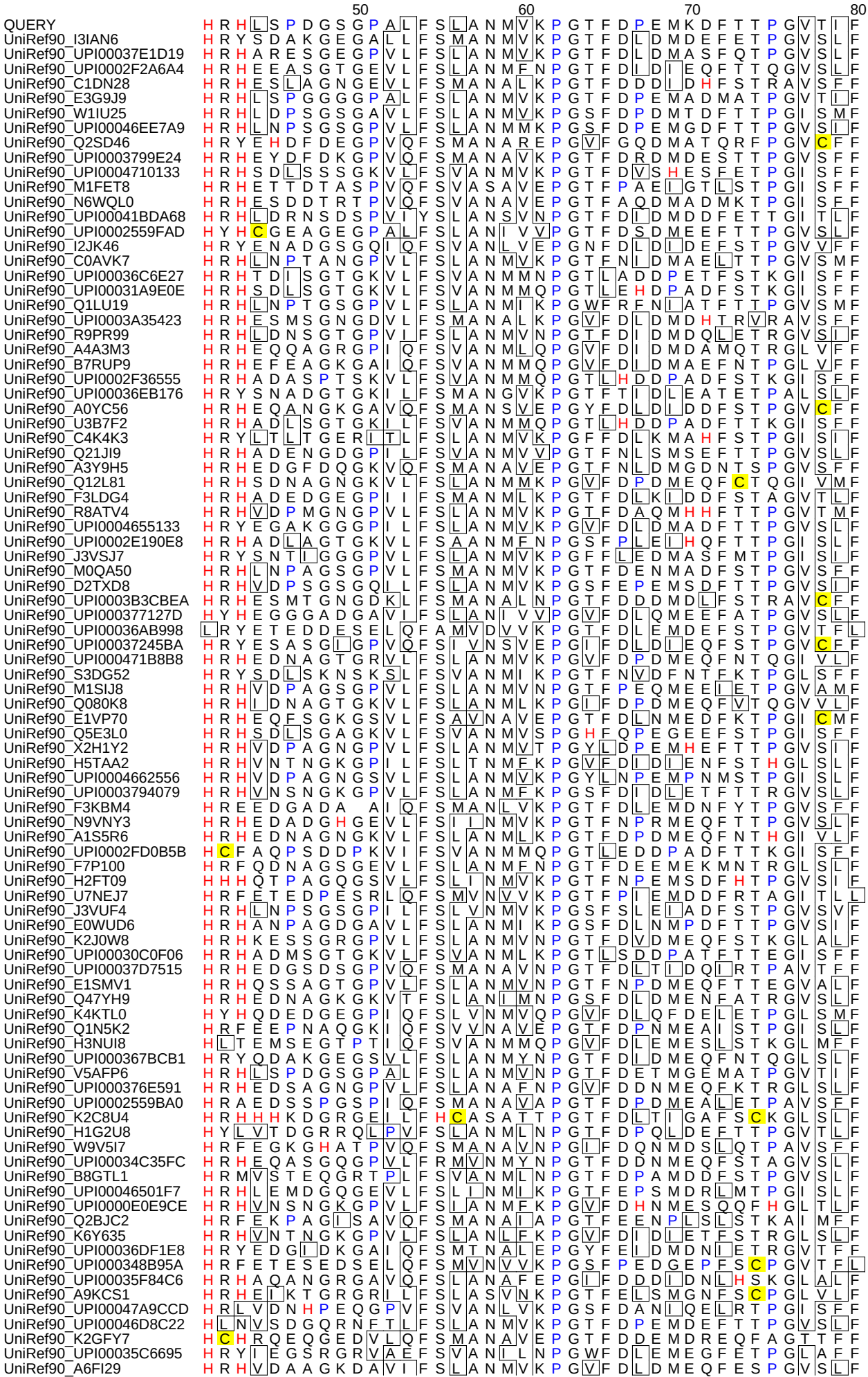
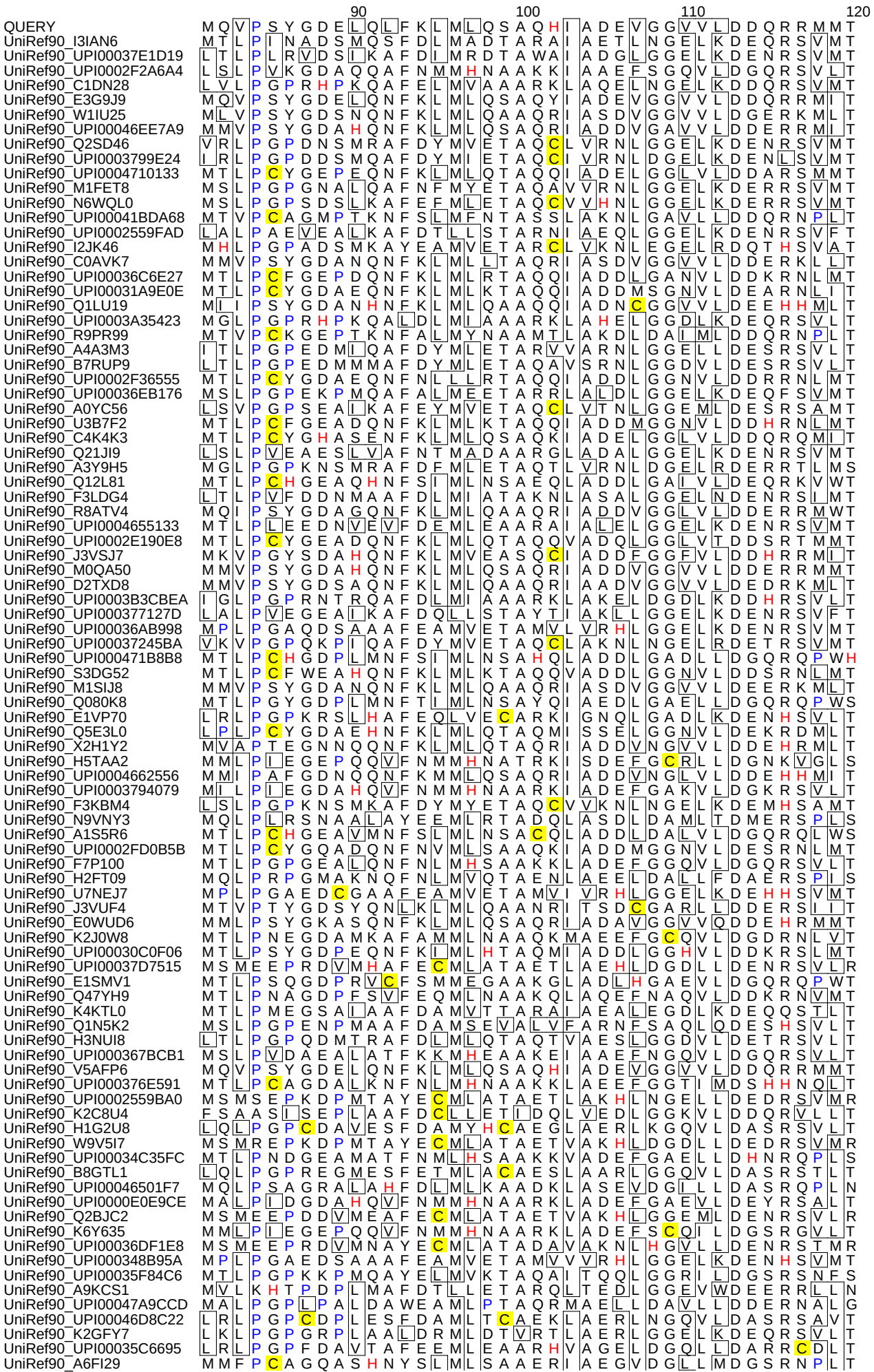
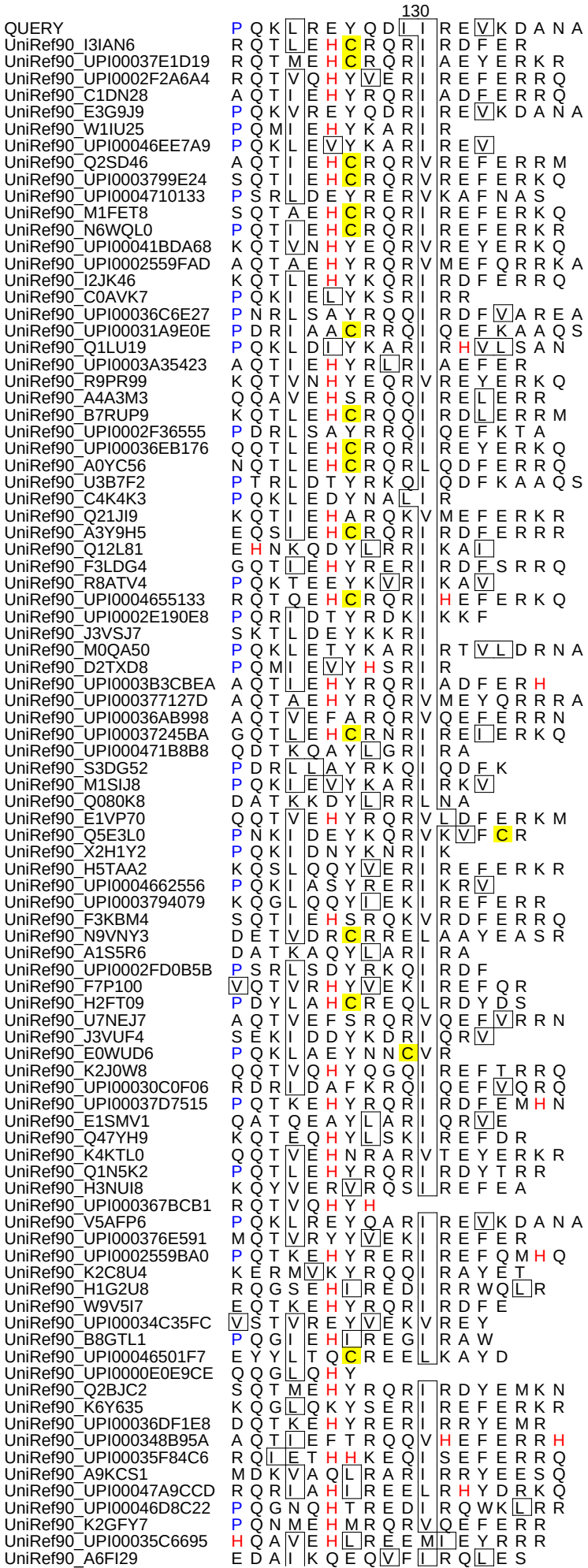
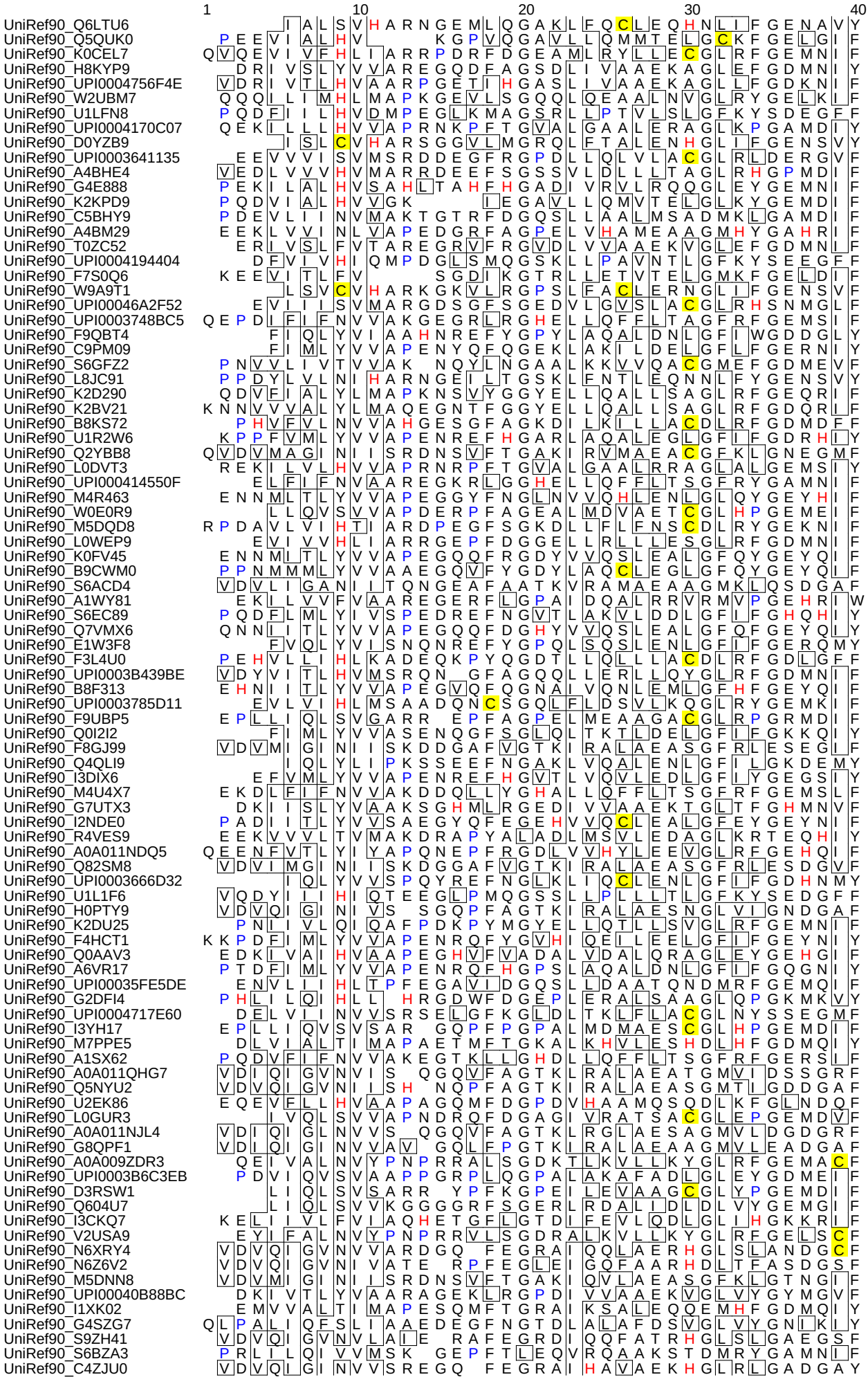
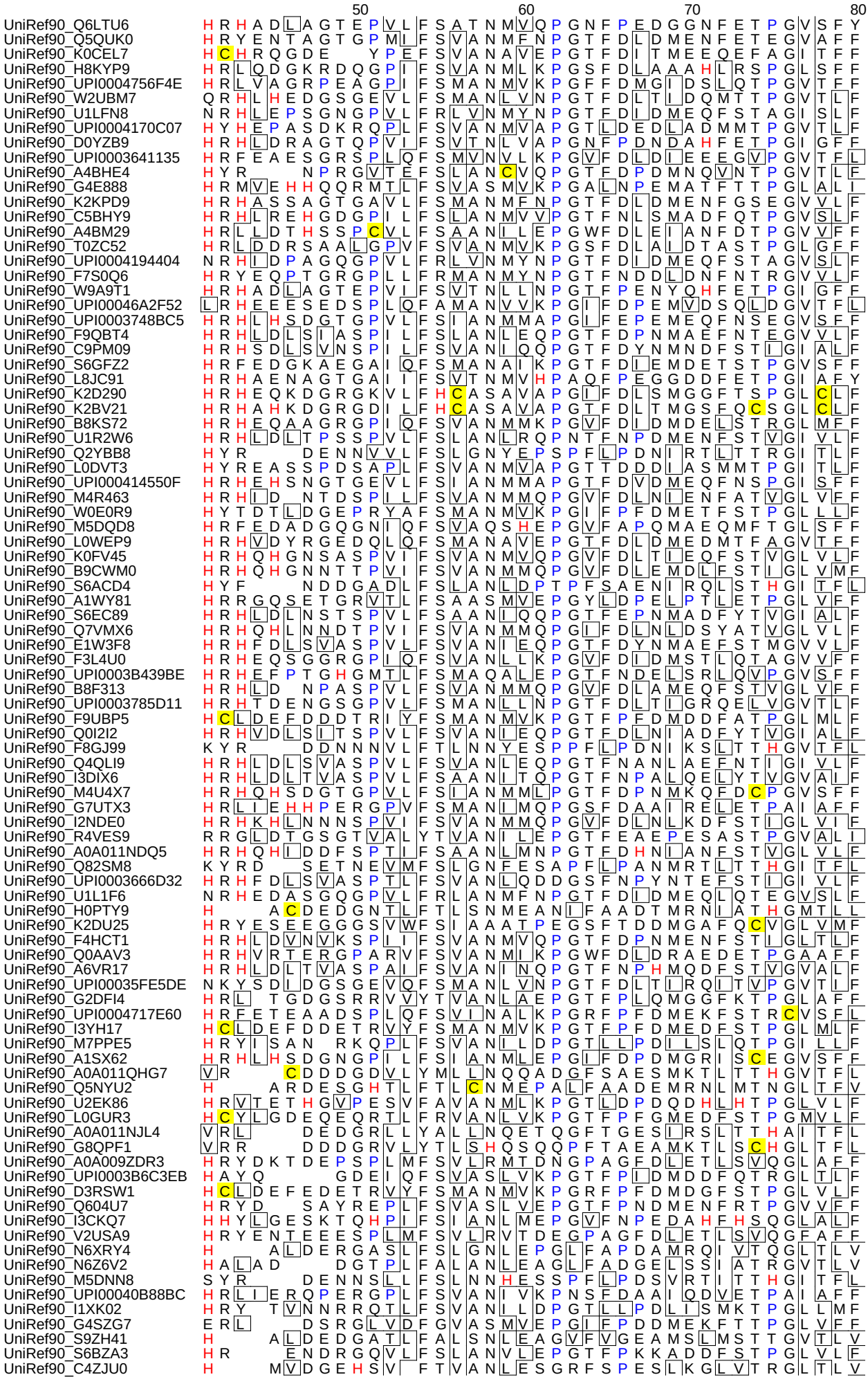

1
10
20
30
40
QUERY R K E A V I I M N V A A H H G S E L N G E L L L N S I Q Q A G F I F G D M N I Y
UniRef90_I3IAN6 P E E V L I I N V M A H K G E M F K G S D L L D I I L K C G M R Y G S M D I F
UniRef90_UPI00037E1D19 P D E V I I I N V M A R E G Q V F A G E R L L D A L L Q V G M R Y G D M N I F
UniRef90_UPI0002F2A6A4 Q P E E V L I L N V V A P E G Q S M S G A V L L P S L L T L G F K F G E F N I F
UniRef90_C1DN28 E E Y L V I I V V S R D G A G F K G P A L L Q S I L E S G L R F G E K D I F
UniRef90_E3G9J9 R K E T V I V L S V A A H Q G S Q I N G E L L R N S I E Q A G F T F G D M N I Y
UniRef90_W1IU25 K E T V L V L H V S A H H G Q E L N G E V L L Q S I L Q A G F R F G D M N I F
UniRef90_UPI00046EE7A9 K E A V L V L H V S A H T G G E L N G E P L L Q A I L Q A G F Q F G E M N I F
UniRef90_Q2SD46 Q E I L V I N V L S K D E E G F D G A A L R N L V E A C G M Q L G D M A I F
UniRef90_UPI0003799E24 R E E I I V V N V L A K A Q E G F E G S K L R H L V E A C G M Q I G E M S I Y
UniRef90_UPI0004710133 E V L V L H V H A N N N A V F S G L D L I P T L E Q Y G L R F G D M G I Y
UniRef90_M1FET8 E V I V I N V L A R A G E D F Q G P A L Q R L L E A C G L L Y G D L D I Y
UniRef90_N6WQL0 Q E V I V I N V L A R K E H A F D G M A L K K L F E A C G L E F G D M D I Y
UniRef90_UPI00041BDA68 Q P D D V F V L N I S A P R G K P F K G E V L L E C L A S Q G M Q F G E M D I F
UniRef90_UPI0002559FAD V E E V L I L N I M A P S G D C F E G N D L L R V L L S S G L R F G D M N I F
UniRef90_I2JK46 Q E L I V L N V M S P T G K P F K G N D L L Q I L M A C D V R Y G K M N I F
UniRef90_C0AVK7 K E L V I V L N V S A H H G Q M L D G E A L M Q S I I Q A G F Q F G E M N I F
UniRef90_UPI00036C6E27 V I V F H V H A G N S E F M G T Q L F H S M Q Q N G L V Y G A M D I F
UniRef90_UPI00031A9E0E E M Q V I V L N V H C S G E E P F V G T K L F D S M Q Q N G L I Y G E M A I F
UniRef90_Q1LU19 K E I V L V L H V A A Y N G T V L Y G D S L W Q S L L Q T G L Q F G E M N I F
UniRef90_UPI0003A35423 V E E V L V I N V I A R D E E G F A G S A L L Q S I L E S G L R H G E M N I F
UniRef90_R9PR99 P D D V F I L N V M A Q S G R Y L K G A A L L A S L D K I G L R H G D M D I F
UniRef90_A4A3M3 E T E V I I L H V M S R D T D G F S G K D I L E I L L A C D L R F G D M N F F
UniRef90_B7RUP9 P E V F M L N V V A R N A H G F K G A D I L H I L L A C D L R F G D M N F F
UniRef90_UPI0002F36555 E V I V L N V H C A G D S P F T G I K L F D S M E R N D L S Y G D M D I F
UniRef90_UPI00036EB176 E V I V I N V L S K G G G I F A G E Q L M Q S M L A S G M R F G D M S I F
UniRef90_A0YC56 P Q E V I A I N V V A K G S P F K G P D L L H I L L A C D L R F G D M S I F
UniRef90_U3B7F2 Q V I V L N V H C A G E E P F V G T K L F D S M Q Q N G L L Y G E M D I F
UniRef90_C4K4K3 K E Q K V L V L H V A A H S S R N F S G E T L L K S I L N S H F Q F G D M N I F
UniRef90_Q21JI9 P E E V L I I N V M A K K G E R F L G E A L L Q A L M D Q H I K F G D M D I F
UniRef90_A3Y9H5 E E V I V I N V F A A E D K P F I G M E L L Q L V L N C G M R Y G D M D I F
UniRef90_Q12L81 P Q D V L V L H V V A H E G Q E I Q G A E L L P C L L S L N F K F G D M N I F
UniRef90_F3LDG4 Q E V L V V N V K A M K G A M F Y G S D L L Q Q V L D N G L R Y G A M E I F
UniRef90_R8ATV4 D V L V L N V S A H H G Q V I D G E R L L N S L L Q L G F H H G E M S I F
UniRef90_UPI0004655133 V L I V N V M A P T G E Q F R G D A L L D S L V S A G L R F G D M N I F
UniRef90_UPI0002E190E8 Q Q Q V L I L N V Q A G N N Q E F D G T E L I N C L E Q H G L L Y G E M E I F
UniRef90_J3VSJ7 K E I V L V L H V T A Q N G K V L G G E Q L L K S V G Q A G F Q F G E M N I F
UniRef90_M0QA50 R E T V L V M H V A A H Q G S S I G G E V L L Q S V L Q A G F Q Y G A M K I F
UniRef90_D2TXD8 K K D I V V V L H V A A L Q G Q V L G G D L L L Q S I F Q S G F Q F G E K Q I F
UniRef90_UPI0003B3CBEA E E I L I I H V V A R N E E G F K G P A L L Q S I L E S G L R F G A M D I F
UniRef90_UPI000377127D R D E V L V I N V M A P E G D Y F E G N D L L R V M V A S G M R F G E M N I F
UniRef90_UPI00036AB998 D E V I V I S V L A R N E E G F S G T A L L N L M L A C G L R Y S E M G I F
UniRef90_UPI00037245BA P E E V I I I N V M A K G K P F K G A D L L H I L L A C D C R F G D M N I F
UniRef90_UPI000471B8B8 P T D V L V L H V V A K E G E S L S G A E L L P C L L A L N F K F G D M N I F
UniRef90_S3DG52 E V I I I N V H S L G D K P F I G R T L F A S I E R N G L L Y G D M D I F
UniRef90_M1SIJ8 E I V L A L F V S A H P G Q M V A G D I L R T A I E Q A G F R F G A M N I Y
UniRef90_Q080K8 P T D V L V L H I F A K A G E Q I Q G A E L L P S L L S L N F K F G D M D I F
UniRef90_E1VP70 D D V I V I N I M A R A N D E I S G N D L L R A L L S V G L R F G D M N I F
UniRef90_Q5E3L0 D V I V I N V H G M G S D R F S G N R L F N S L E Q N G L V F G D M A I Y
UniRef90_X2H1Y2 E I I I L N I K G I N G N L L Q G D V L L A S I M Q S G F Q F G D M R I F
UniRef90_H5TAA2 E T D V L V L N I R A T D S N P I S G A S L L P M L L T L G F K F G E H D I F
UniRef90_UPI0004662556 Q Q Q D V L V L H V T G I N G D K L A G D K L L N S I L Q A G F Q Y G E M Q I F
UniRef90_UPI0003794079 Q E V L I L N V R A G E G N D I S G A A L L P L L L T L G F K F G D Q D I F
UniRef90_F3KBM4 V E E V I V M N V F S R D D S G F N G A D L M R V I L A C G M R Y G E M D I F
UniRef90_N9VNY3 Q D V Y V L N L M A R P G R E L E G G A L L S S L L A T G F K F G E M E I F
UniRef90_A1S5R6 P R D V L V L H V V A R E G Q V L A G A E L L P C L L E L N F K Y G D M E I F
UniRef90_UPI0002FD0B5B E V I V L N V H C A G E V P F I G T E L F R S M E S N G L T Y G E M S I Y
UniRef90_F7P100 E V L I L Y V L L P E G E E I N G S L L L P S L L T L G F K Y G E M N I F
UniRef90_H2FT09 Q D V Y V I N L M A R P N Q Q M D G V A L M R A L T T N G F H F G E M D I F
UniRef90_U7NEJ7 Q A E E I I V I S V M A R D D E G F S G T A L L D L M M A C G L R Y D E M G V F
UniRef90_J3VUF4 K E I I L V L H I A A H E G S V L G G E A L L K I V L Q A G F H F G D M N I F
UniRef90_E0WUD6 R S E K L L V L H V V A H Q G N V L S G D L L L P I I F Q E G F H F G E M N I F
UniRef90_K2J0W8 P Q E V L V L H V M A K E E D P I D G A E L L P L L L S L G L R F G E M D I F
UniRef90_UPI00030C0F06 H V K A L P N Q I F V G S D L F V S M E Q N G L H F G P M D I Y
UniRef90_UPI00037D7515 P D N V L V I T A V S T A A E G F A G G L L Y R L V S A C D L H F G D M A I F
UniRef90_E1SMV1 P N D V L V L H V M S K G E P I S G A E L L P N L L T M G F K F G E M D I F
UniRef90_Q47YH9 E P Q V I I L S V V M P A N Q Q M L G A A L L P S L L T L G L K Y G E M N I F
UniRef90_K4KTL0 P E E V Y V I S V V A P K G E V F A G P A V K D A I L G A G L R F G S R K I F
UniRef90_Q1N5K2 E E I F V I H V L K N S E P W L Q G L D L E H I F K A C D M R F G E M N L F
UniRef90_H3NUI8 Q V Y S L N V V A R A E Q G F A G D D V L R T L L G C G L R F G D M D F F
UniRef90_UPI000367BCB1 P E E V L I L N V V P A E G Q S I Q G A R L L P K V L E L G F K F G D F N I F
UniRef90_V5AFP6 L L N S I L Q A G F K F G D M N I F
UniRef90_UPI000376E591 P E E V I I L N V I M P K G E T I A G A G L L P S L L T L G L K F G E M E I F
UniRef90_UPI0002559BA0 P E H V L V I T V V G R N G E R L P G P A L G K I V D A C G M D W G D M S I Y
UniRef90_K2C8U4 P D C V I V L Y L M A S D G A V Y S G Y E L L Q A L L S A G L R Y G K Q H I F
UniRef90_H1G2U8 R E K L V V L H V V A S E D D R F L G V D L A T A L T A E G M E F G D M N I Y
UniRef90_W9V5I7 P A E V L V I T V V G K D K K N L H G G K L H A I V E A C G M E F G D M S I F
UniRef90_UPI00034C35FC E D F V I I H V H M P E G L Q M Q G A K L L P L V L T L G F K Y S D D G F F
UniRef90_B8GTL1 P D K L I V L H V A A G P S G H I L G V Q L K A A L E A D G L E F G F M E I Y
UniRef90_UPI00046501F7 D V Y V I N I S A R D G A Y I Y G R D L K H A L R I L G F R F G E M D I Y
UniRef90_UPI0000E0E9CE P E F L S L N I R A A R E Y P I A G A S L L A S M L T L G F K F G E S D I F
UniRef90_Q2BJC2 P E N V L V I S V I S K A A D N F N G P L L Q Q V I D A C G L T F G E M D I Y
UniRef90_K6Y635 Q P T D V L V L N I R A P E D R E I T G A A L L P M L L T L G L K F G E Q D I F
UniRef90_UPI00036DF1E8 D K V L V I S V V S P D G G S F A G S N L L Q I V L A C G M R Y G D M K I F
UniRef90_UPI000348B95A E E V I V I S V L A R E E N G F D G A R L L K L L M A C G L R Y S R L G V F
UniRef90_UPI00035F84C6 P D L I F S L Y V V A P Q E K P Y H G P E L V Q T L V E Q G M R H G D M D I F
UniRef90_A9KCS1 Q D I F T L Y V M A P K E Y P Y N G Y E L L Q A L L A N G L R Y G E R N I F
UniRef90_UPI00047A9CCD D K V V T L L L A A R A G Q M L H G P D L V V A A E K A G L I Y G H M N I F
UniRef90_UPI00046D8C22 D K I I V L H V V A P N Q D R F L G V N L Q A A L A D M G L Q H G D L G I Y
UniRef90_K2GFY7 E V I V V H L I A P R G H R F D G R E L L Q E L L E S G M R F G E M N I F
UniRef90_UPI00035C6695 E E K I V V I N V L A P N G E R F L G P A V Q D A L Q S A G L T F G E H G I F
UniRef90_A6FI29 E A V F V I N I M A R E G S H I A G A E L L Q E L S A F G F K F G A M D I F

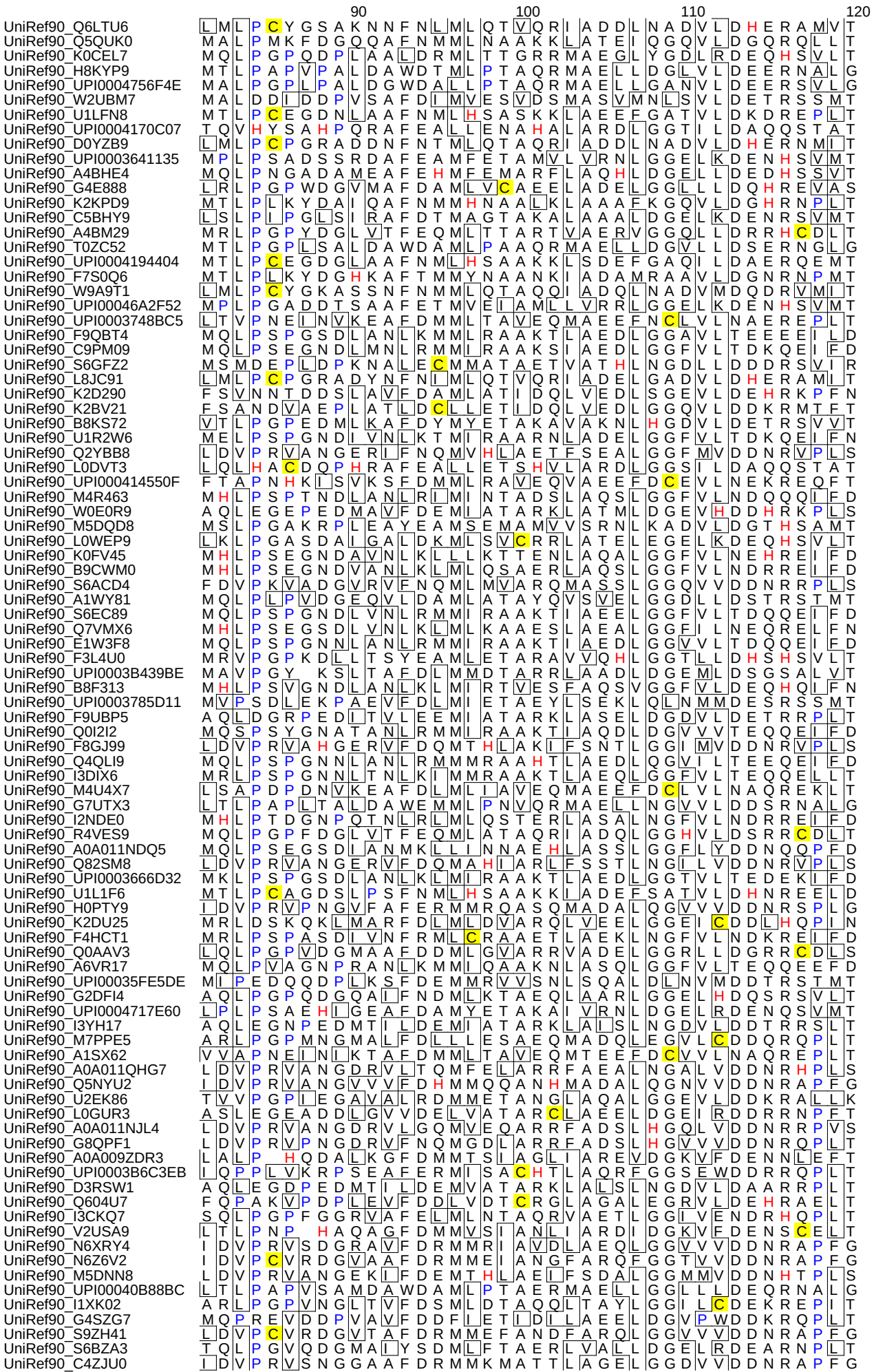

50
60
70
80
QUERY
UniRef90_I3IAN6
UniRef90_UPI00037E1D19
UniRef90_UPI0002F2A6A4
UniRef90_C1DN28
UniRef90_E3G9J9
UniRef90_W1IU25
UniRef90_UPI00046EE7A9
UniRef90_Q2SD46
UniRef90_UPI0003799E24
UniRef90_UPI0004710133
UniRef90_M1FET8
UniRef90_N6WQL0
UniRef90_UPI00041BDA68
UniRef90_UPI0002559FAD
UniRef90_I2JK46
UniRef90_C0AVK7
UniRef90_UPI00036C6E27
UniRef90_UPI00031A9E0E
UniRef90_Q1LU19
UniRef90_UPI0003A35423
UniRef90_R9PR99
UniRef90_A4A3M3
UniRef90_B7RUP9
UniRef90_UPI0002F36555
UniRef90_UPI00036EB176
UniRef90_A0YC56
UniRef90_U3B7F2
UniRef90_C4K4K3
UniRef90_Q21JI9
UniRef90_A3Y9H5
UniRef90_Q12L81
UniRef90_F3LDG4
UniRef90_R8ATV4
UniRef90_UPI0004655133
UniRef90_UPI0002E190E8
UniRef90_J3VSJ7
UniRef90_M0QA50
UniRef90_D2TXD8
UniRef90_UPI0003B3CBEA
UniRef90_UPI000377127D
UniRef90_UPI00036AB998
UniRef90_UPI00037245BA
UniRef90_UPI000471B8B8
UniRef90_S3DG52
UniRef90_M1SIJ8
UniRef90_Q080K8
UniRef90_E1VP70
UniRef90_Q5E3L0
UniRef90_X2H1Y2
UniRef90_H5TAA2
UniRef90_UPI0004662556
UniRef90_UPI0003794079
UniRef90_F3KBM4
UniRef90_N9VNY3
UniRef90_A1S5R6
UniRef90_UPI0002FD0B5B
UniRef90_F7P100
UniRef90_H2FT09
UniRef90_U7NEJ7
UniRef90_J3VUF4
UniRef90_E0WUD6
UniRef90_K2J0W8
UniRef90_UPI00030C0F06
UniRef90_UPI00037D7515
UniRef90_E1SMV1
UniRef90_Q47YH9
UniRef90_K4KTL0
UniRef90_Q1N5K2
UniRef90_H3NUI8
UniRef90_UPI000367BCB1
UniRef90_V5AFP6
UniRef90_UPI000376E591
UniRef90_UPI0002559BA0
UniRef90_K2C8U4
UniRef90_H1G2U8
UniRef90_W9V5I7
UniRef90_UPI00034C35FC
UniRef90_B8GTL1
UniRef90_UPI00046501F7
UniRef90_UPI0000E0E9CE
UniRef90_Q2BJC2
UniRef90_K6Y635
UniRef90_UPI00036DF1E8
UniRef90_UPI000348B95A
UniRef90_UPI00035F84C6
UniRef90_A9KCS1
UniRef90_UPI00047A9CCD
UniRef90_UPI00046D8C22
UniRef90_K2GFY7
UniRef90_UPI00035C6695
UniRef90_A6FI29

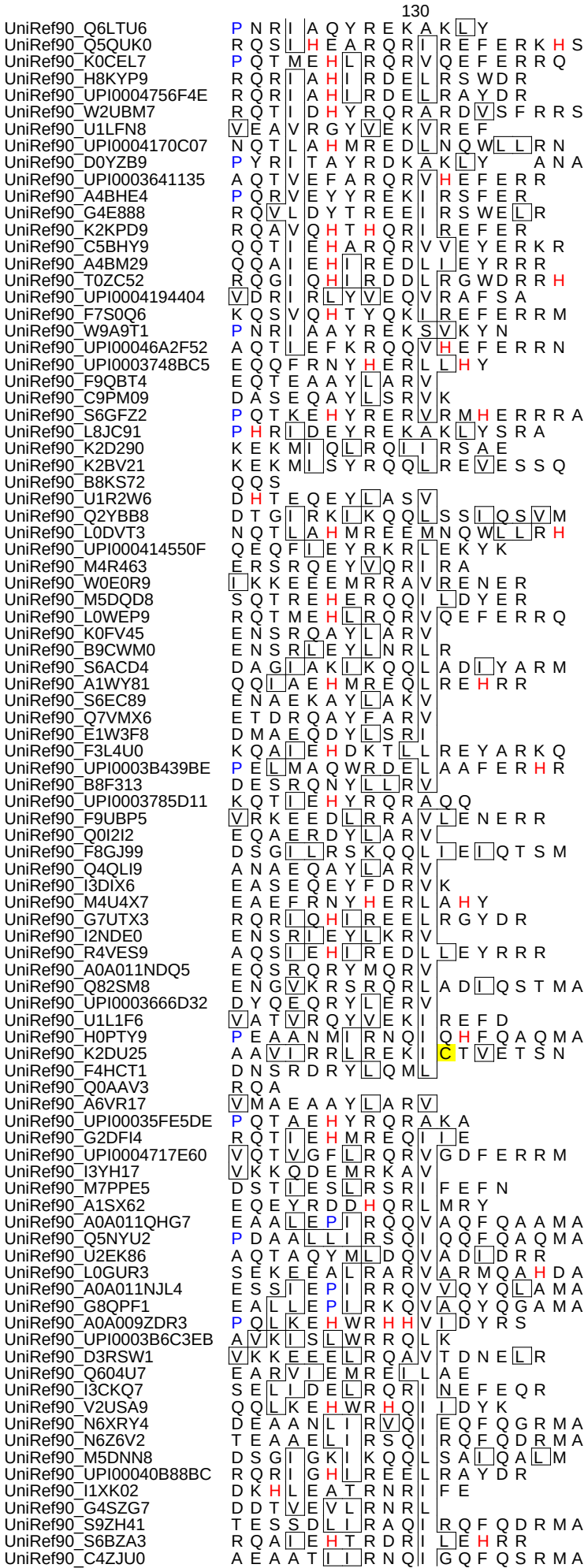

90
100
110
120
QUERY
UniRef90_I3IAN6
UniRef90_UPI00037E1D19
UniRef90_UPI0002F2A6A4
UniRef90_C1DN28
UniRef90_E3G9J9
UniRef90_W1IU25
UniRef90_UPI00046EE7A9
UniRef90_Q2SD46
UniRef90_UPI0003799E24
UniRef90_UPI0004710133
UniRef90_M1FET8
UniRef90_N6WQL0
UniRef90_UPI00041BDA68
UniRef90_UPI0002559FAD
UniRef90_I2JK46
UniRef90_C0AVK7
UniRef90_UPI00036C6E27
UniRef90_UPI00031A9E0E
UniRef90_Q1LU19
UniRef90_UPI0003A35423
UniRef90_R9PR99
UniRef90_A4A3M3
UniRef90_B7RUP9
UniRef90_UPI0002F36555
UniRef90_UPI00036EB176
UniRef90_A0YC56
UniRef90_U3B7F2
UniRef90_C4K4K3
UniRef90_Q21JI9
UniRef90_A3Y9H5
UniRef90_Q12L81
UniRef90_F3LDG4
UniRef90_R8ATV4
UniRef90_UPI0004655133
UniRef90_UPI0002E190E8
UniRef90_J3VSJ7
UniRef90_M0QA50
UniRef90_D2TXD8
UniRef90_UPI0003B3CBEA
UniRef90_UPI000377127D
UniRef90_UPI00036AB998
UniRef90_UPI00037245BA
UniRef90_UPI000471B8B8
UniRef90_S3DG52
UniRef90_M1SIJ8
UniRef90_Q080K8
UniRef90_E1VP70
UniRef90_Q5E3L0
UniRef90_X2H1Y2
UniRef90_H5TAA2
UniRef90_UPI0004662556
UniRef90_UPI0003794079
UniRef90_F3KBM4
UniRef90_N9VNY3
UniRef90_A1S5R6
UniRef90_UPI0002FD0B5B
UniRef90_F7P100
UniRef90_H2FT09
UniRef90_U7NEJ7
UniRef90_J3VUF4
UniRef90_E0WUD6
UniRef90_K2J0W8
UniRef90_UPI00030C0F06
UniRef90_UPI00037D7515
UniRef90_E1SMV1
UniRef90_Q47YH9
UniRef90_K4KTL0
UniRef90_Q1N5K2
UniRef90_H3NUI8
UniRef90_UPI000367BCB1
UniRef90_V5AFP6
UniRef90_UPI000376E591
UniRef90_UPI0002559BA0
UniRef90_K2C8U4
UniRef90_H1G2U8
UniRef90_W9V5I7
UniRef90_UPI00034C35FC
UniRef90_B8GTL1
UniRef90_UPI00046501F7
UniRef90_UPI0000E0E9CE
UniRef90_Q2BJC2
UniRef90_K6Y635
UniRef90_UPI00036DF1E8
UniRef90_UPI000348B95A
UniRef90_UPI00035F84C6
UniRef90_A9KCS1
UniRef90_UPI00047A9CCD
UniRef90_UPI00046D8C22
UniRef90_K2GFY7
UniRef90_UPI00035C6695
UniRef90_A6FI29

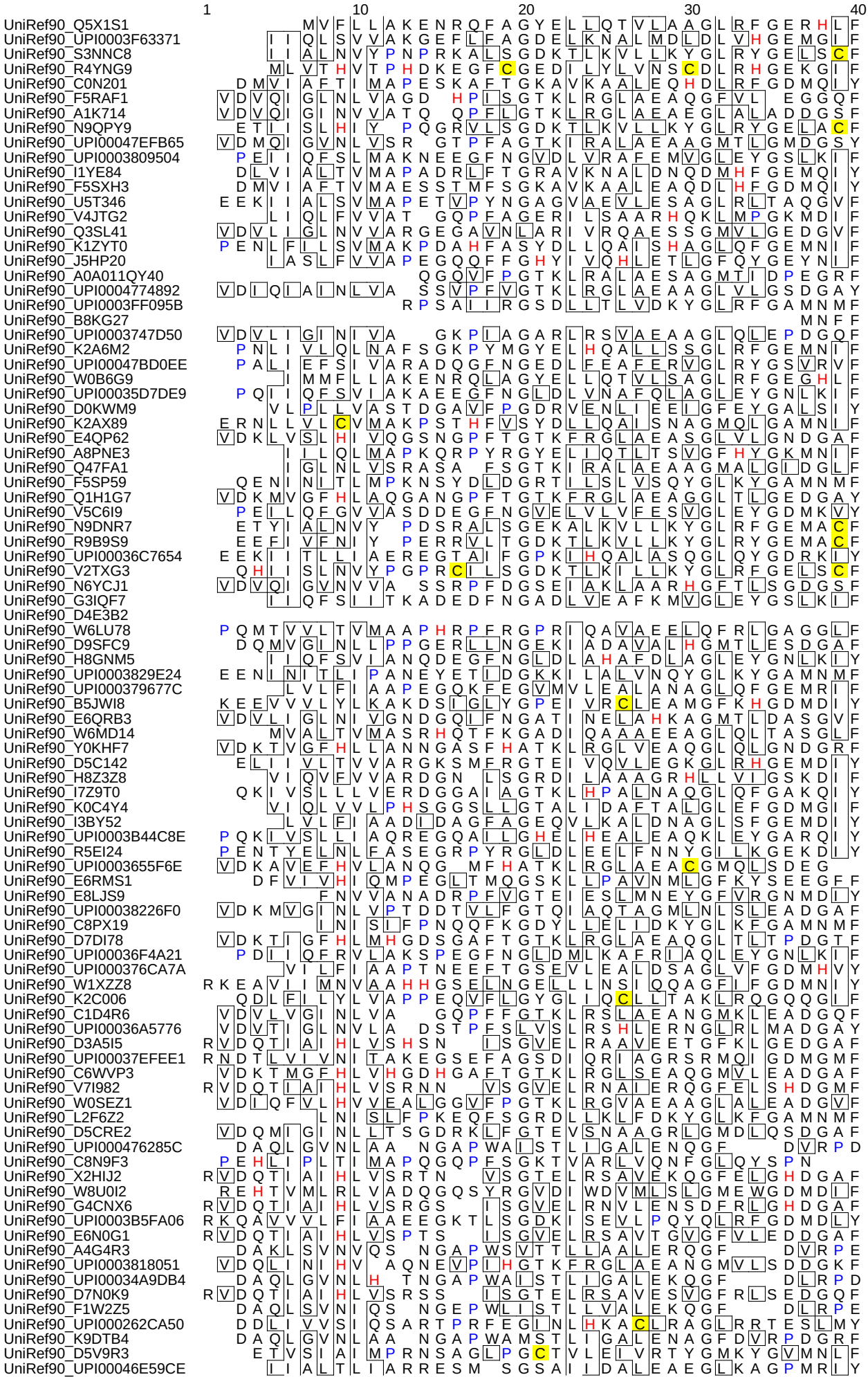

130
QUERY P Q K L R E Y Q D I I R E V K D A N A
UniRef90_I3IAN6 R Q T L E H C R Q R I R D F E R
UniRef90_UPI00037E1D19 R Q T M E H C R Q R I A E Y E R K R
UniRef90_UPI0002F2A6A4 R Q T V Q H Y V E R I R E F E R R Q
UniRef90_C1DN28 A Q T I E H Y R Q R I A D F E R R Q
UniRef90_E3G9J9 P Q K V R E Y Q D R I R E V K D A N A
UniRef90_W1IU25 P Q M I E H Y K A R I R
UniRef90_UPI00046EE7A9 P Q K L E V Y K A R I R E V
UniRef90_Q2SD46 A Q T I E H C R Q R V R E F E R R M
UniRef90_UPI0003799E24 S Q T I E H C R Q R V R E F E R K Q
UniRef90_UPI0004710133 P S R L D E Y R E R V K A F N A S
UniRef90_M1FET8 S Q T A E H C R Q R I R E F E R K Q
UniRef90_N6WQL0 P Q T I E H C R Q R I R E F E R K R
UniRef90_UPI00041BDA68 K Q T V N H Y E Q R V R E Y E R K Q
UniRef90_UPI0002559FAD A Q T A E H Y R Q R V M E F Q R R K A
UniRef90_I2JK46 K Q T L E H Y K Q R I R D F E R R Q
UniRef90_C0AVK7 P Q K I E L Y K S R I R R
UniRef90_UPI00036C6E27 P N R L S A Y R Q Q I R D F V A R E A
UniRef90_UPI00031A9E0E P D R I A A C R R Q I Q E F K A A Q S
UniRef90_Q1LU19 P Q K L D I Y K A R I R H V L S A N
UniRef90_UPI0003A35423 A Q T I E H Y R L R I A E F E R
UniRef90_R9PR99 K Q T V N H Y E Q R V R E Y E R K Q
UniRef90_A4A3M3 Q Q A V E H S R Q Q I R E L E R R
UniRef90_B7RUP9 K Q T L E H C R Q Q I R D L E R R M
UniRef90_UPI0002F36555 P D R L S A Y R R Q I Q E F K T A
UniRef90_UPI00036EB176 Q Q T L E H C R Q R I R E Y E R K Q
UniRef90_A0YC56 N Q T L E H C R Q R L Q D F E R R Q
UniRef90_U3B7F2 P T R L D T Y R K Q I Q D F K A A Q S
UniRef90_C4K4K3 P Q K L E D Y N A L I R
UniRef90_Q21JI9 K Q T I E H A R Q K V M E F E R K R
UniRef90_A3Y9H5 E Q S I E H C R Q R I R D F E R R R
UniRef90_Q12L81 E H N K Q D Y L R R I K A I
UniRef90_F3LDG4 G Q T I E H Y R E R I R D F S R R Q
UniRef90_R8ATV4 P Q K T E E Y K V R I K A V
UniRef90_UPI0004655133 R Q T Q E H C R Q R I H E F E R K Q
UniRef90_UPI0002E190E8 P Q R I D T Y R D K I K K F
UniRef90_J3VSJ7 S K T L D E Y K K R I
UniRef90_M0QA50 P Q K L E T Y K A R I R T V L D R N A
UniRef90_D2TXD8 P Q M I E V Y H S R I R
UniRef90_UPI0003B3CBEA A Q T I E H Y R Q R I A D F E R H
UniRef90_UPI000377127D A Q T A E H Y R Q R V M E Y Q R R R A
UniRef90_UPI00036AB998 A Q T V E F A R Q R V Q E F E R R N
UniRef90_UPI00037245BA G Q T L E H C R N R I R E I E R K Q
UniRef90_UPI000471B8B8 Q D T K Q A Y L G R I R A
UniRef90_S3DG52 P D R L L A Y R K Q I Q D F K
UniRef90_M1SIJ8 P Q K I E V Y K A R I R K V
UniRef90_Q080K8 D A T K K D Y L R R L N A
UniRef90_E1VP70 Q Q T V E H Y R Q R V L D F E R K M
UniRef90_Q5E3L0 P N K I D E Y K Q R V K V F C R
UniRef90_X2H1Y2 P Q K I D N Y K N R I K
UniRef90_H5TAA2 K Q S L Q Q Y V E R I R E F E R K R
UniRef90_UPI0004662556 P Q K I A S Y R E R I K R V
UniRef90_UPI0003794079 K Q G L Q Q Y I E K I R E F E R R
UniRef90_F3KBM4 S Q T I E H S R Q K V R D F E R R Q
UniRef90_N9VNY3 D E T V D R C R R E L A A Y E A S R
UniRef90_A1S5R6 D A T K A Q Y L A R I R A
UniRef90_UPI0002FD0B5B P S R L S D Y R K Q I R D F
UniRef90_F7P100 V Q T V R H Y V E K I R E F Q R
UniRef90_H2FT09 P D Y L A H C R E Q L R D Y D S
UniRef90_U7NEJ7 A Q T V E F S R Q R V Q E F V R R N
UniRef90_J3VUF4 S E K I D D Y K D R I Q R V
UniRef90_E0WUD6 P Q K L A E Y N N C V R
UniRef90_K2J0W8 Q Q T V Q H Y Q G Q I R E F T R R Q
UniRef90_UPI00030C0F06 R D R I D A F K R Q I Q E F V Q R Q
UniRef90_UPI00037D7515 P Q T K E H Y R Q R I R D F E M H N
UniRef90_E1SMV1 Q A T Q E A Y L A R I Q R V E
UniRef90_Q47YH9 K Q T E Q H Y L S K I R E F D R
UniRef90_K4KTL0 Q Q T V E H N R A R V T E Y E R K R
UniRef90_Q1N5K2 P Q T L E H Y R Q R I R D Y T R R
UniRef90_H3NUI8 K Q Y V E R V R Q S I R E F E A
UniRef90_UPI000367BCB1 R Q T V Q H Y H
UniRef90_V5AFP6 P Q K L R E Y Q A R I R E V K D A N A
UniRef90_UPI000376E591 M Q T V R Y Y V E K I R E F E R
UniRef90_UPI0002559BA0 P Q T K E H Y R E R I R E F Q M H Q
UniRef90_K2C8U4 K E R M V K Y R Q Q I R A Y E T
UniRef90_H1G2U8 R Q G S E H I R E D I R R W Q L R
UniRef90_W9V5I7 E Q T K E H Y R Q R I R D F E
UniRef90_UPI00034C35FC V S T V R E Y V E K V R E Y
UniRef90_B8GTL1 P Q G I E H I R E G I R A W
UniRef90_UPI00046501F7 E Y Y L T Q C R E E L K A Y D
UniRef90_UPI0000E0E9CE Q Q G L Q H Y
UniRef90_Q2BJC2 S Q T M E H Y R Q R I R D Y E M K N
UniRef90_K6Y635 K Q G L Q K Y S E R I R E F E R K R
UniRef90_UPI00036DF1E8 D Q T K E H Y R E R I R R Y E M R
UniRef90_UPI000348B95A A Q T I E F T R Q Q V H E F E R R H
UniRef90_UPI00035F84C6 R Q I E T H H K E Q I S E F E R R Q
UniRef90_A9KCS1 M D K V A Q L R A R I R R Y E E S Q
UniRef90_UPI00047A9CCD R Q R I A H I R E E L R H Y D R K Q
UniRef90_UPI00046D8C22 P Q G N Q H T R E D I R Q W K L R R
UniRef90_K2GFY7 P Q N M E H M R Q R V Q E F E R R
UniRef90_UPI00035C6695 H Q A V E H L R E E M I E Y R R R
UniRef90_A6FI29 E D A I K Q E Q V F I R Q L E S

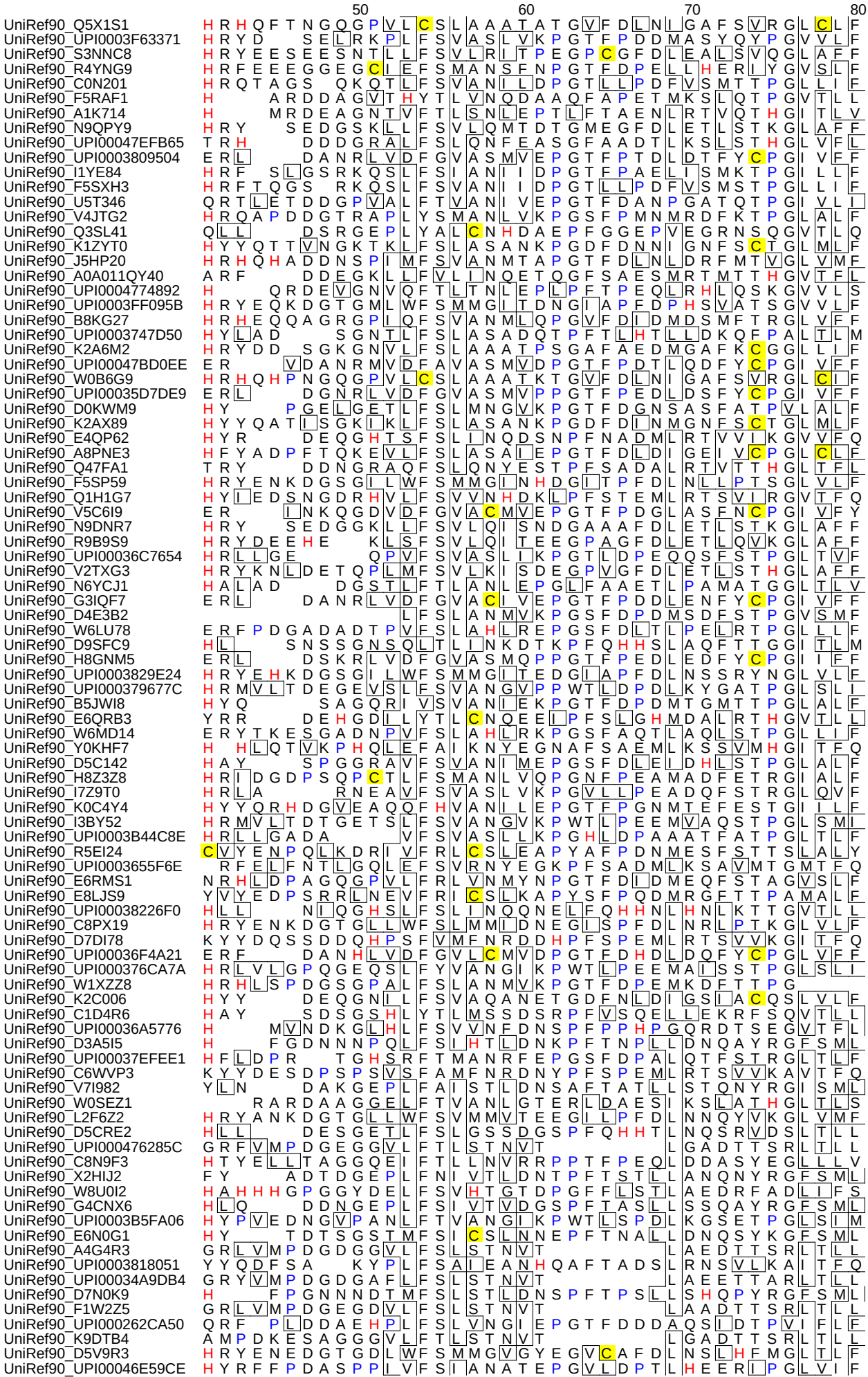

1
10
20
30
40
UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

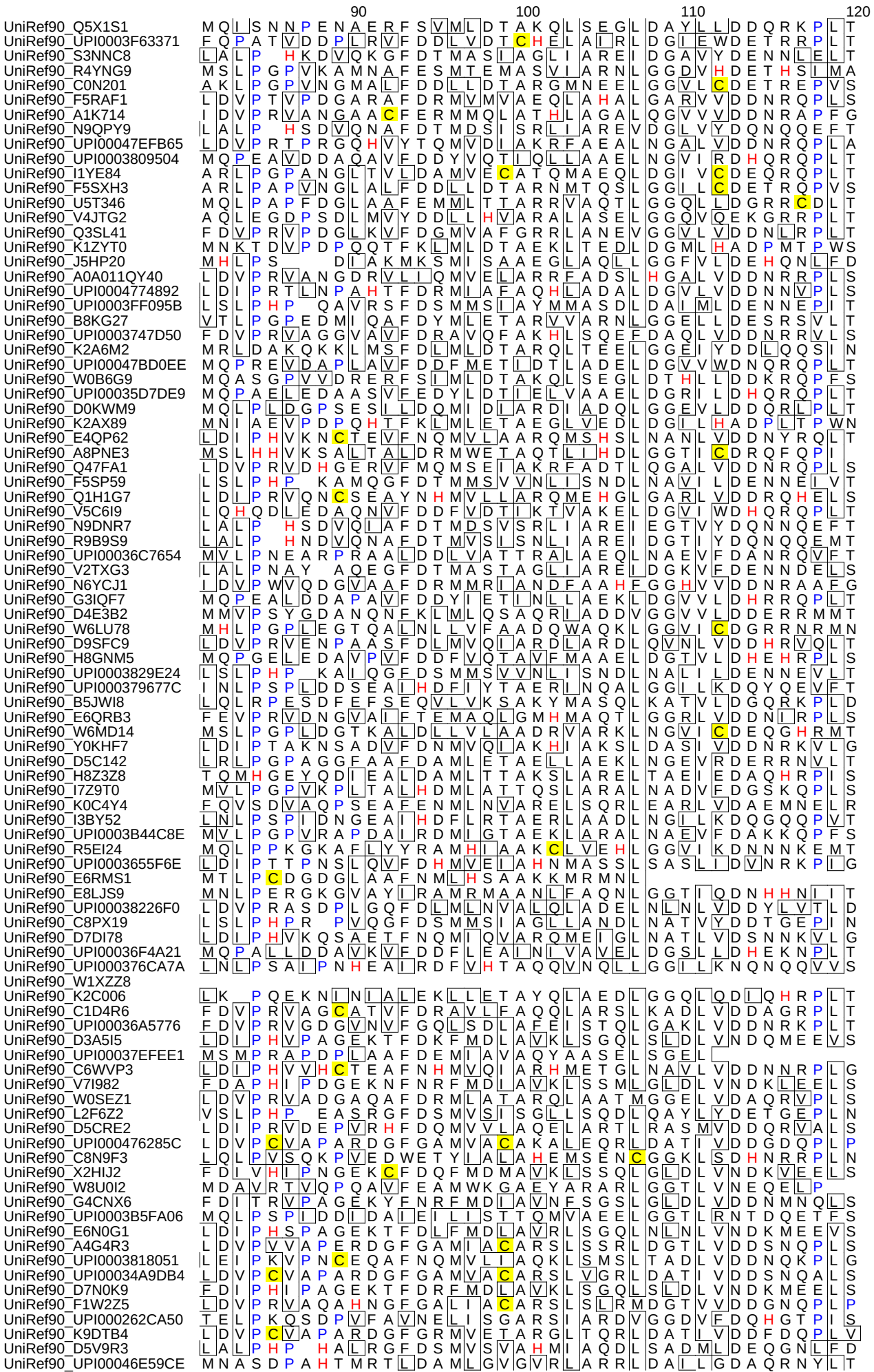

50
60
70
80
UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

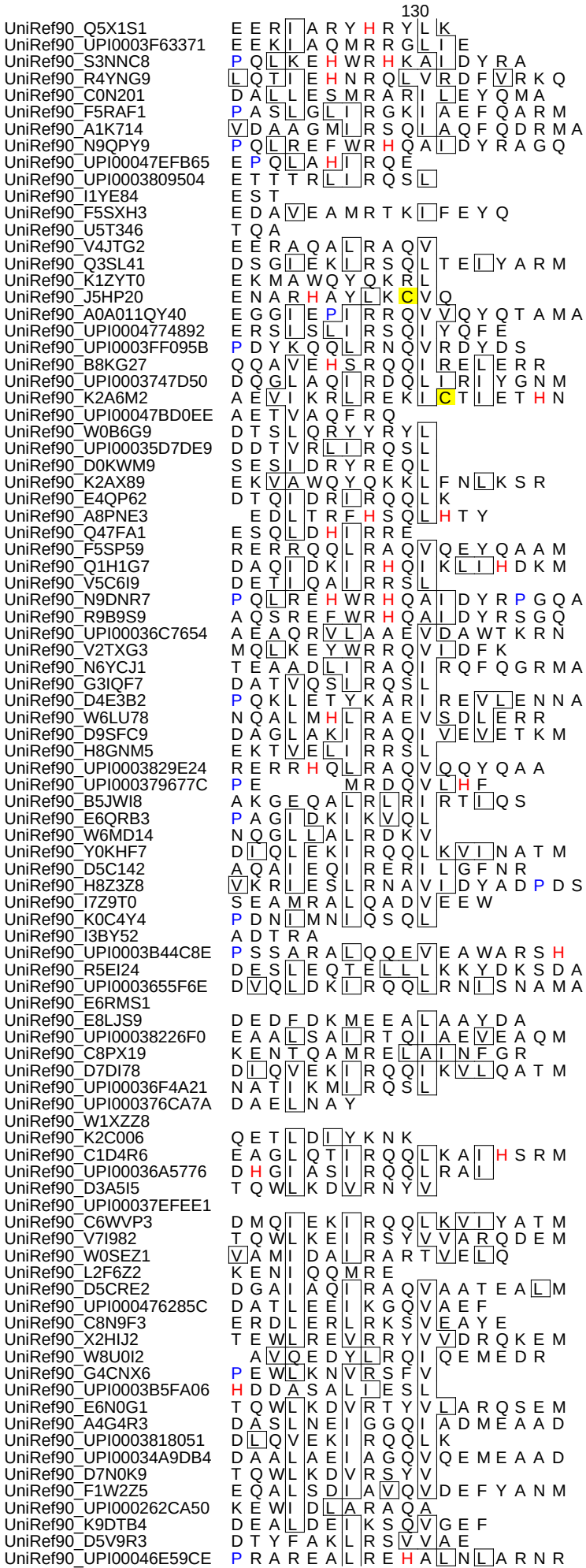

90
100
110
120
UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

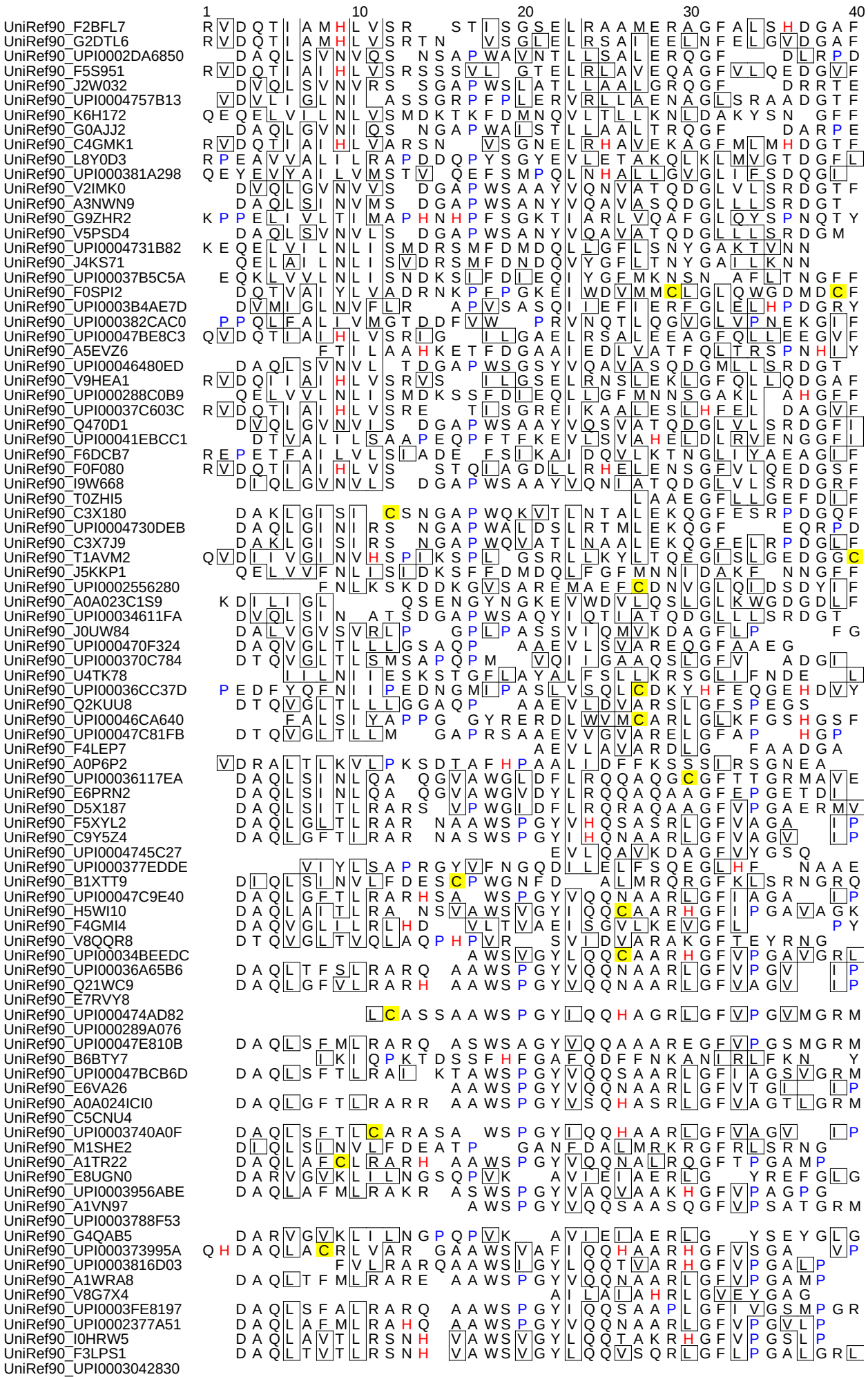

130
UniRef90_Q6LTU6
UniRef90_Q5QUK0
UniRef90_K0CEL7
UniRef90_H8KYP9
UniRef90_UPI0004756F4E
UniRef90_W2UBM7
UniRef90_U1LFN8
UniRef90_UPI0004170C07
UniRef90_D0YZB9
UniRef90_UPI0003641135
UniRef90_A4BHE4
UniRef90_G4E888
UniRef90_K2KPD9
UniRef90_C5BHY9
UniRef90_A4BM29
UniRef90_T0ZC52
UniRef90_UPI0004194404
UniRef90_F7S0Q6
UniRef90_W9A9T1
UniRef90_UPI00046A2F52
UniRef90_UPI0003748BC5
UniRef90_F9QBT4
UniRef90_C9PM09
UniRef90_S6GFZ2
UniRef90_L8JC91
UniRef90_K2D290
UniRef90_K2BV21
UniRef90_B8KS72
UniRef90_U1R2W6
UniRef90_Q2YBB8
UniRef90_L0DVT3
UniRef90_UPI000414550F
UniRef90_M4R463
UniRef90_W0E0R9
UniRef90_M5DQD8
UniRef90_L0WEP9
UniRef90_K0FV45
UniRef90_B9CWM0
UniRef90_S6ACD4
UniRef90_A1WY81
UniRef90_S6EC89
UniRef90_Q7VMX6
UniRef90_E1W3F8
UniRef90_F3L4U0
UniRef90_UPI0003B439BE
UniRef90_B8F313
UniRef90_UPI0003785D11
UniRef90_F9UBP5
UniRef90_Q0I2I2
UniRef90_F8GJ99
UniRef90_Q4QLI9
UniRef90_I3DIX6
UniRef90_M4U4X7
UniRef90_G7UTX3
UniRef90_I2NDE0
UniRef90_R4VES9
UniRef90_A0A011NDQ5
UniRef90_Q82SM8
UniRef90_UPI0003666D32
UniRef90_U1L1F6
UniRef90_H0PTY9
UniRef90_K2DU25
UniRef90_F4HCT1
UniRef90_Q0AAV3
UniRef90_A6VR17
UniRef90_UPI00035FE5DE
UniRef90_G2DFI4
UniRef90_UPI0004717E60
UniRef90_I3YH17
UniRef90_M7PPE5
UniRef90_A1SX62
UniRef90_A0A011QHG7
UniRef90_Q5NYU2
UniRef90_U2EK86
UniRef90_L0GUR3
UniRef90_A0A011NJL4
UniRef90_G8QPF1
UniRef90_A0A009ZDR3
UniRef90_UPI0003B6C3EB
UniRef90_D3RSW1
UniRef90_Q604U7
UniRef90_I3CKQ7
UniRef90_V2USA9
UniRef90_N6XRY4
UniRef90_N6Z6V2
UniRef90_M5DNN8
UniRef90_UPI00040B88BC
UniRef90_I1XK02
UniRef90_G4SZG7
UniRef90_S9ZH41
UniRef90_S6BZA3
UniRef90_C4ZJU0

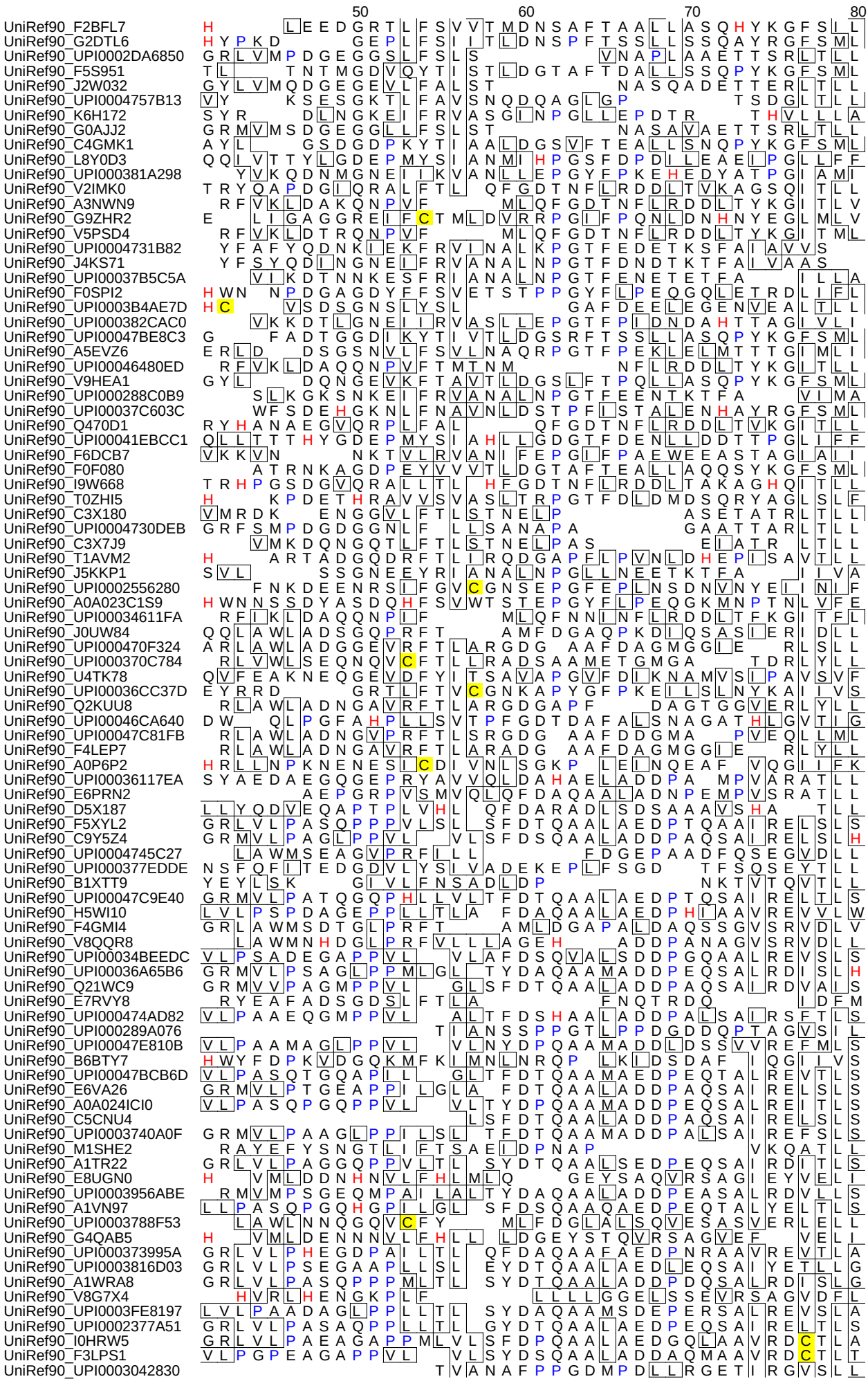

1
10
20
30
40
UniRef90_Q5X1S1
UniRef90_UPI0003F63371
UniRef90_S3NNC8
UniRef90_R4YNG9
UniRef90_C0N201
UniRef90_F5RAF1
UniRef90_A1K714
UniRef90_N9QPY9
UniRef90_UPI00047EFB65
UniRef90_UPI0003809504
UniRef90_I1YE84
UniRef90_F5SXH3
UniRef90_U5T346
UniRef90_V4JTG2
UniRef90_Q3SL41
UniRef90_K1ZYT0
UniRef90_J5HP20
UniRef90_A0A011QY40
UniRef90_UPI0004774892
UniRef90_UPI0003FF095B
UniRef90_B8KG27
UniRef90_UPI0003747D50
UniRef90_K2A6M2
UniRef90_UPI00047BD0EE
UniRef90_W0B6G9
UniRef90_UPI00035D7DE9
UniRef90_D0KWM9
UniRef90_K2AX89
UniRef90_E4QP62
UniRef90_A8PNE3
UniRef90_Q47FA1
UniRef90_F5SP59
UniRef90_Q1H1G7
UniRef90_V5C6I9
UniRef90_N9DNR7
UniRef90_R9B9S9
UniRef90_UPI00036C7654
UniRef90_V2TXG3
UniRef90_N6YCJ1
UniRef90_G3IQF7
UniRef90_D4E3B2
UniRef90_W6LU78
UniRef90_D9SFC9
UniRef90_H8GNM5
UniRef90_UPI0003829E24
UniRef90_UPI000379677C
UniRef90_B5JWI8
UniRef90_E6QRB3
UniRef90_W6MD14
UniRef90_Y0KHF7
UniRef90_D5C142
UniRef90_H8Z3Z8
UniRef90_I7Z9T0
UniRef90_K0C4Y4
UniRef90_I3BY52
UniRef90_UPI0003B44C8E
UniRef90_R5EI24
UniRef90_UPI0003655F6E
UniRef90_E6RMS1
UniRef90_E8LJS9
UniRef90_UPI00038226F0
UniRef90_C8PX19
UniRef90_D7DI78
UniRef90_UPI00036F4A21
UniRef90_UPI000376CA7A
UniRef90_W1XZZ8
UniRef90_K2C006
UniRef90_C1D4R6
UniRef90_UPI00036A5776
UniRef90_D3A5I5
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3
UniRef90_V7I982
UniRef90_W0SEZ1
UniRef90_L2F6Z2
UniRef90_D5CRE2
UniRef90_UPI000476285C
UniRef90_C8N9F3
UniRef90_X2HIJ2
UniRef90_W8U0I2
UniRef90_G4CNX6
UniRef90_UPI0003B5FA06
UniRef90_E6N0G1
UniRef90_A4G4R3
UniRef90_UPI0003818051
UniRef90_UPI00034A9DB4
UniRef90_D7N0K9
UniRef90_F1W2Z5
UniRef90_UPI000262CA50
UniRef90_K9DTB4
UniRef90_D5V9R3
UniRef90_UPI00046E59CE

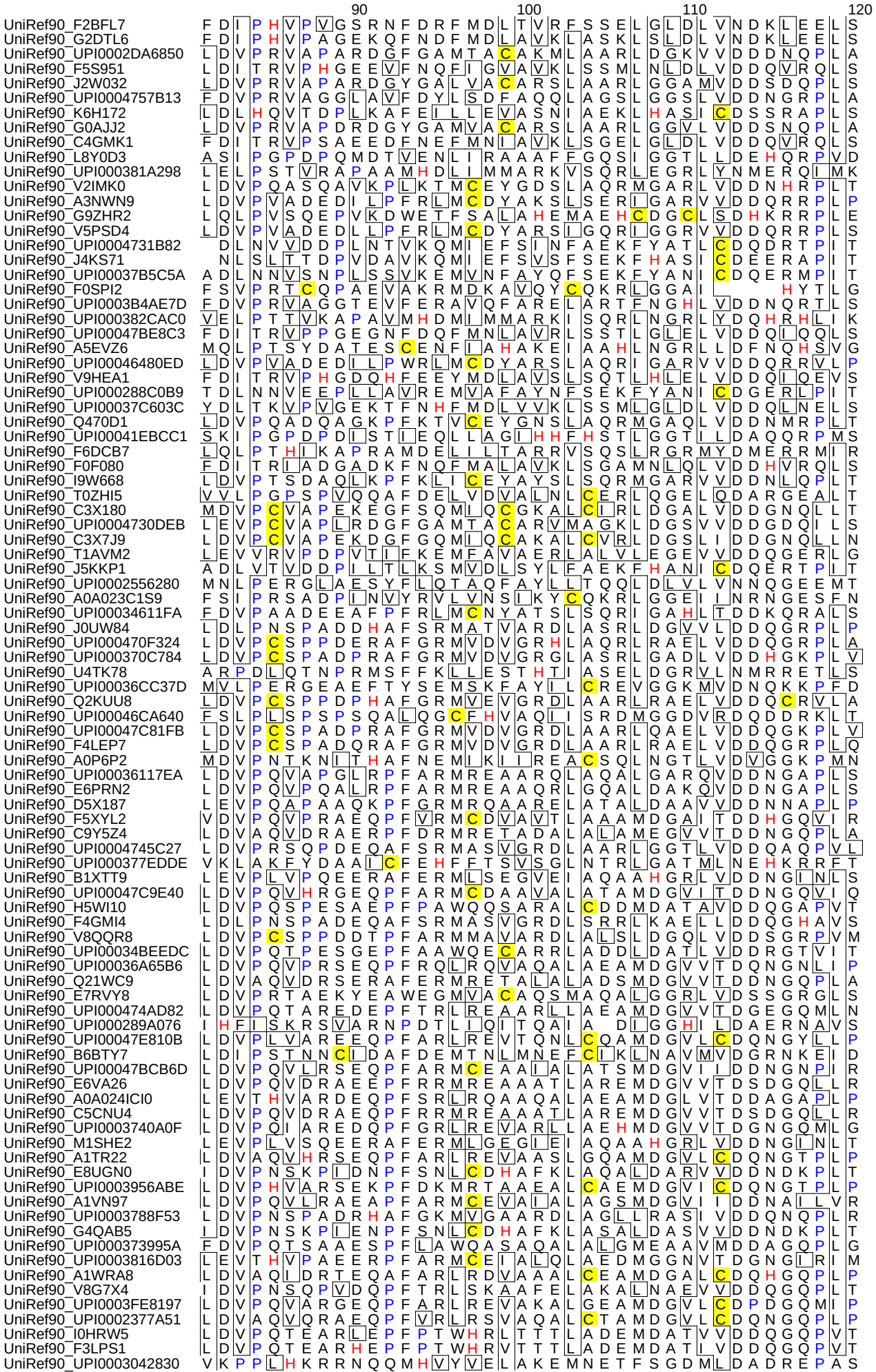

50
60
70
80
UniRef90_Q5X1S1
UniRef90_UPI0003F63371
UniRef90_S3NNC8
UniRef90_R4YNG9
UniRef90_C0N201
UniRef90_F5RAF1
UniRef90_A1K714
UniRef90_N9QPY9
UniRef90_UPI00047EFB65
UniRef90_UPI0003809504
UniRef90_I1YE84
UniRef90_F5SXH3
UniRef90_U5T346
UniRef90_V4JTG2
UniRef90_Q3SL41
UniRef90_K1ZYT0
UniRef90_J5HP20
UniRef90_A0A011QY40
UniRef90_UPI0004774892
UniRef90_UPI0003FF095B
UniRef90_B8KG27
UniRef90_UPI0003747D50
UniRef90_K2A6M2
UniRef90_UPI00047BD0EE
UniRef90_W0B6G9
UniRef90_UPI00035D7DE9
UniRef90_D0KWM9
UniRef90_K2AX89
UniRef90_E4QP62
UniRef90_A8PNE3
UniRef90_Q47FA1
UniRef90_F5SP59
UniRef90_Q1H1G7
UniRef90_V5C6I9
UniRef90_N9DNR7
UniRef90_R9B9S9
UniRef90_UPI00036C7654
UniRef90_V2TXG3
UniRef90_N6YCJ1
UniRef90_G3IQF7
UniRef90_D4E3B2
UniRef90_W6LU78
UniRef90_D9SFC9
UniRef90_H8GNM5
UniRef90_UPI0003829E24
UniRef90_UPI000379677C
UniRef90_B5JWI8
UniRef90_E6QRB3
UniRef90_W6MD14
UniRef90_Y0KHF7
UniRef90_D5C142
UniRef90_H8Z3Z8
UniRef90_I7Z9T0
UniRef90_K0C4Y4
UniRef90_I3BY52
UniRef90_UPI0003B44C8E
UniRef90_R5EI24
UniRef90_UPI0003655F6E
UniRef90_E6RMS1
UniRef90_E8LJS9
UniRef90_UPI00038226F0
UniRef90_C8PX19
UniRef90_D7DI78
UniRef90_UPI00036F4A21
UniRef90_UPI000376CA7A
UniRef90_W1XZZ8
UniRef90_K2C006
UniRef90_C1D4R6
UniRef90_UPI00036A5776
UniRef90_D3A5I5
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3
UniRef90_V7I982
UniRef90_W0SEZ1
UniRef90_L2F6Z2
UniRef90_D5CRE2
UniRef90_UPI000476285C
UniRef90_C8N9F3
UniRef90_X2HIJ2
UniRef90_W8U0I2
UniRef90_G4CNX6
UniRef90_UPI0003B5FA06
UniRef90_E6N0G1
UniRef90_A4G4R3
UniRef90_UPI0003818051
UniRef90_UPI00034A9DB4
UniRef90_D7N0K9
UniRef90_F1W2Z5
UniRef90_UPI000262CA50
UniRef90_K9DTB4
UniRef90_D5V9R3
UniRef90_UPI00046E59CE

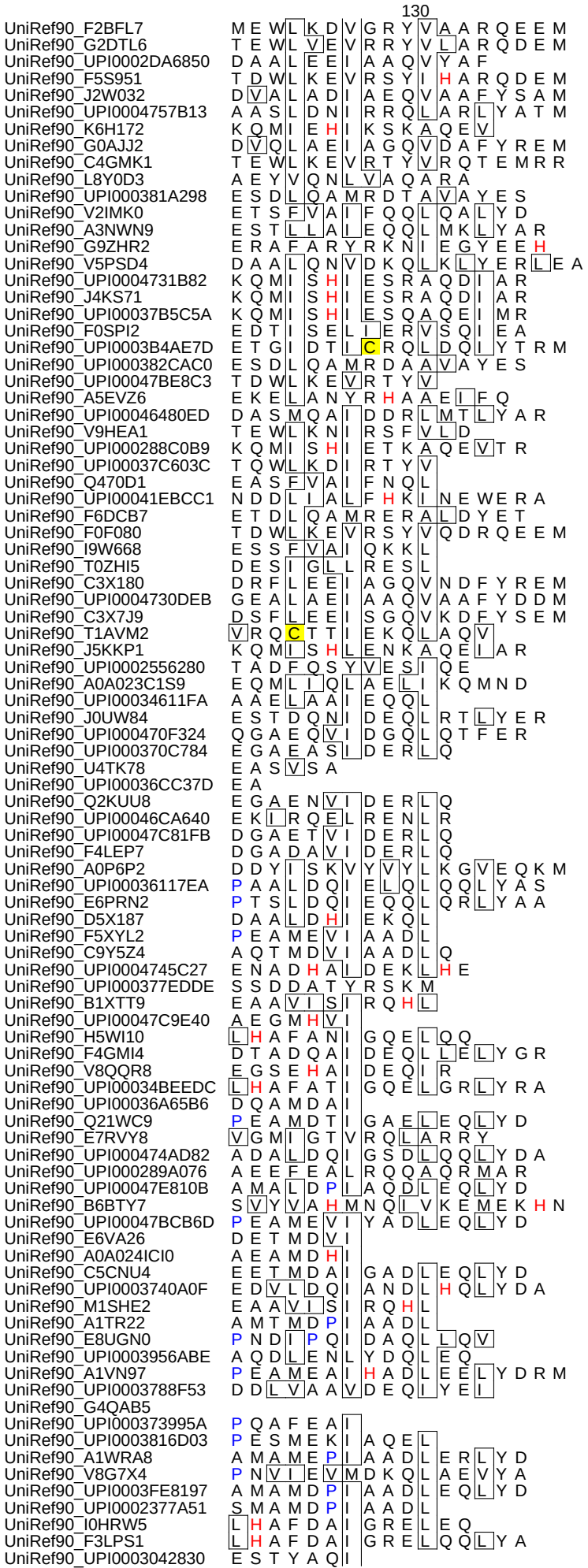

90
100
110
120
UniRef90_Q5X1S1
UniRef90_UPI0003F63371
UniRef90_S3NNC8
UniRef90_R4YNG9
UniRef90_C0N201
UniRef90_F5RAF1
UniRef90_A1K714
UniRef90_N9QPY9
UniRef90_UPI00047EFB65
UniRef90_UPI0003809504
UniRef90_I1YE84
UniRef90_F5SXH3
UniRef90_U5T346
UniRef90_V4JTG2
UniRef90_Q3SL41
UniRef90_K1ZYT0
UniRef90_J5HP20
UniRef90_A0A011QY40
UniRef90_UPI0004774892
UniRef90_UPI0003FF095B
UniRef90_B8KG27
UniRef90_UPI0003747D50
UniRef90_K2A6M2
UniRef90_UPI00047BD0EE
UniRef90_W0B6G9
UniRef90_UPI00035D7DE9
UniRef90_D0KWM9
UniRef90_K2AX89
UniRef90_E4QP62
UniRef90_A8PNE3
UniRef90_Q47FA1
UniRef90_F5SP59
UniRef90_Q1H1G7
UniRef90_V5C6I9
UniRef90_N9DNR7
UniRef90_R9B9S9
UniRef90_UPI00036C7654
UniRef90_V2TXG3
UniRef90_N6YCJ1
UniRef90_G3IQF7
UniRef90_D4E3B2
UniRef90_W6LU78
UniRef90_D9SFC9
UniRef90_H8GNM5
UniRef90_UPI0003829E24
UniRef90_UPI000379677C
UniRef90_B5JWI8
UniRef90_E6QRB3
UniRef90_W6MD14
UniRef90_Y0KHF7
UniRef90_D5C142
UniRef90_H8Z3Z8
UniRef90_I7Z9T0
UniRef90_K0C4Y4
UniRef90_I3BY52
UniRef90_UPI0003B44C8E
UniRef90_R5EI24
UniRef90_UPI0003655F6E
UniRef90_E6RMS1
UniRef90_E8LJS9
UniRef90_UPI00038226F0
UniRef90_C8PX19
UniRef90_D7DI78
UniRef90_UPI00036F4A21
UniRef90_UPI000376CA7A
UniRef90_W1XZZ8
UniRef90_K2C006
UniRef90_C1D4R6
UniRef90_UPI00036A5776
UniRef90_D3A5I5
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3
UniRef90_V7I982
UniRef90_W0SEZ1
UniRef90_L2F6Z2
UniRef90_D5CRE2
UniRef90_UPI000476285C
UniRef90_C8N9F3
UniRef90_X2HIJ2
UniRef90_W8U0I2
UniRef90_G4CNX6
UniRef90_UPI0003B5FA06
UniRef90_E6N0G1
UniRef90_A4G4R3
UniRef90_UPI0003818051
UniRef90_UPI00034A9DB4
UniRef90_D7N0K9
UniRef90_F1W2Z5
UniRef90_UPI000262CA50
UniRef90_K9DTB4
UniRef90_D5V9R3
UniRef90_UPI00046E59CE

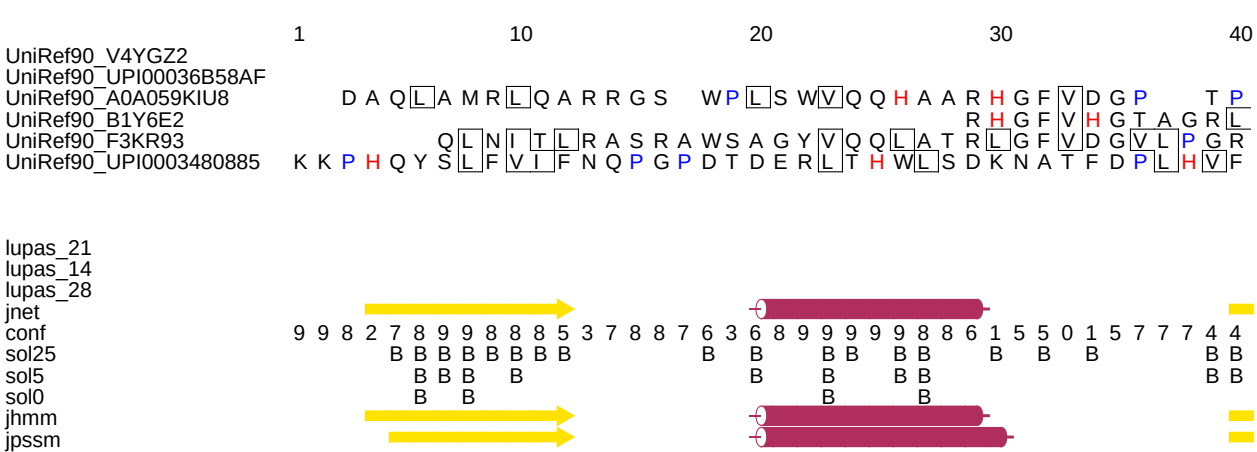

130
UniRef90_Q5X1S1 E E R I A R Y H R Y L K
UniRef90_UPI0003F63371 E E K I A Q M R R G L I E
UniRef90_S3NNC8 P Q L K E H W R H K A I D Y R A
UniRef90_R4YNG9 L Q T I E H N R Q L V R D F V R K Q
UniRef90_C0N201 D A L L E S M R A R I L E Y Q M A
UniRef90_F5RAF1 P A S L G L I R G K I A E F Q A R M
UniRef90_A1K714 V D A A G M I R S Q I A Q F Q D R M A
UniRef90_N9QPY9 P Q L R E F W R H Q A I D Y R A G Q
UniRef90_UPI00047EFB65 E P Q L A H I R Q E
UniRef90_UPI0003809504 E T T T R L I R Q S L
UniRef90_I1YE84 E S T
UniRef90_F5SXH3 E D A V E A M R T K I F E Y Q
UniRef90_U5T346 T Q A
UniRef90_V4JTG2 E E R A Q A L R A Q V
UniRef90_Q3SL41 D S G I E K I R S Q L T E I Y A R M
UniRef90_K1ZYT0 E K M A W Q Y Q K R L
UniRef90_J5HP20 E N A R H A Y L K C V Q
UniRef90_A0A011QY40 E G G I E P I R R Q V V Q Y Q T A M A
UniRef90_UPI0004774892 E R S I S L I R S Q I Y Q F E
UniRef90_UPI0003FF095B P D Y K Q Q L R N Q V R D Y D S
UniRef90_B8KG27 Q Q A V E H S R Q Q I R E L E R R
UniRef90_UPI0003747D50 D Q G L A Q I R D Q L I R I Y G N M
UniRef90_K2A6M2 A E V I K R L R E K I C T I E T H N
UniRef90_UPI00047BD0EE A E T V A Q F R Q
UniRef90_W0B6G9 D T S L Q R Y Y R Y L
UniRef90_UPI00035D7DE9 D D T V R L I R Q S L
UniRef90_D0KWM9 S E S I D R Y R E Q L
UniRef90_K2AX89 E K V A W Q Y Q K K L F N L K S R
UniRef90_E4QP62 D T Q I D R I R Q Q L K
UniRef90_A8PNE3 E D L T R F H S Q L H T Y
UniRef90_Q47FA1 E S Q L D H I R R E
UniRef90_F5SP59 R E R R Q Q L R A Q V Q E Y Q A A M
UniRef90_Q1H1G7 D A Q I D K I R H Q I K L I H D K M
UniRef90_V5C6I9 D E T I Q A I R R S L
UniRef90_N9DNR7 P Q L R E H W R H Q A I D Y R P G Q A
UniRef90_R9B9S9 A Q S R E F W R H Q A I D Y R S G Q
UniRef90_UPI00036C7654 A E A Q R V L A A E V D A W T K R N
UniRef90_V2TXG3 M Q L K E Y W R R Q V I D F K
UniRef90_N6YCJ1 T E A A D L I R A Q I R Q F Q G R M A
UniRef90_G3IQF7 D A T V Q S I R Q S L
UniRef90_D4E3B2 P Q K L E T Y K A R I R E V L E N N A
UniRef90_W6LU78 N Q A L M H L R A E V S D L E R R
UniRef90_D9SFC9 D A G L A K I R A Q I V E V E T K M
UniRef90_H8GNM5 E K T V E L I R R S L
UniRef90_UPI0003829E24 R E R R H Q L R A Q V Q Q Y Q A A
UniRef90_UPI000379677C P E M R D Q V L H F
UniRef90_B5JWI8 A K G E Q A L R L R I R T I Q S
UniRef90_E6QRB3 P A G I D K I K V Q L
UniRef90_W6MD14 N Q G L L A L R D K V
UniRef90_Y0KHF7 D I Q L E K I R Q Q L K V I N A T M
UniRef90_D5C142 A Q A I E Q I R E R I L G F N R
UniRef90_H8Z3Z8 V K R I E S L R N A V I D Y A D P D S
UniRef90_I7Z9T0 S E A M R A L Q A D V E E W
UniRef90_K0C4Y4 P D N I M N I Q S Q L
UniRef90_I3BY52 A D T R A
UniRef90_UPI0003B44C8E P S S A R A L Q Q E V E A W A R S H
UniRef90_R5EI24 D E S L E Q T E L L L K K Y D K S D A
UniRef90_UPI0003655F6E D V Q L D K I R Q Q L R N I S N A M A
UniRef90_E6RMS1
UniRef90_E8LJS9 D E D F D K M E E A L A A Y D A
UniRef90_UPI00038226F0 E A A L S A I R T Q I A E V E A Q M
UniRef90_C8PX19 K E N T Q A M R E L A I N F G R
UniRef90_D7DI78 D I Q V E K I R Q Q I K V L Q A T M
UniRef90_UPI00036F4A21 N A T I K M I R Q S L
UniRef90_UPI000376CA7A D A E L N A Y
UniRef90_W1XZZ8
UniRef90_K2C006 Q E T L D I Y K N K
UniRef90_C1D4R6 E A G L Q T I R Q Q L K A I H S R M
UniRef90_UPI00036A5776 D H G I A S I R Q Q L R A I
UniRef90_D3A5I5 T Q W L K D V R N Y V
UniRef90_UPI00037EFEE1
UniRef90_C6WVP3 D M Q I E K I R Q Q L K V I Y A T M
UniRef90_V7I982 T Q W L K E I R S Y V V A R Q D E M
UniRef90_W0SEZ1 V A M I D A I R A R T V E L Q
UniRef90_L2F6Z2 K E N I Q Q M R E
UniRef90_D5CRE2 D G A I A Q I R A Q V A A T E A L M
UniRef90_UPI000476285C D A T L E E I K G Q V A E F
UniRef90_C8N9F3 E R D L E R L R K S V E A Y E
UniRef90_X2HIJ2 T E W L R E V R R Y V V D R Q K E M
UniRef90_W8U0I2 A V Q E D Y L R Q I Q E M E D R
UniRef90_G4CNX6 P E W L K N V R S F V
UniRef90_UPI0003B5FA06 H D D A S A L I E S L
UniRef90_E6N0G1 T Q W L K D V R T Y V L A R Q S E M
UniRef90_A4G4R3 D A S L N E I G G Q I A D M E A A D
UniRef90_UPI0003818051 D L Q V E K I R Q Q L K
UniRef90_UPI00034A9DB4 D A A L A E I A G Q V Q E M E A A D
UniRef90_D7N0K9 T Q W L K D V R S Y V
UniRef90_F1W2Z5 E Q A L S D I A V Q V D E F Y A N M
UniRef90_UPI000262CA50 K E W I D L A R A Q A
UniRef90_K9DTB4 D E A L D E I K S Q V G E F
UniRef90_D5V9R3 D T Y F A K L R S V V A E
UniRef90_UPI00046E59CE P R A R E A L R E H A L N L A R N R

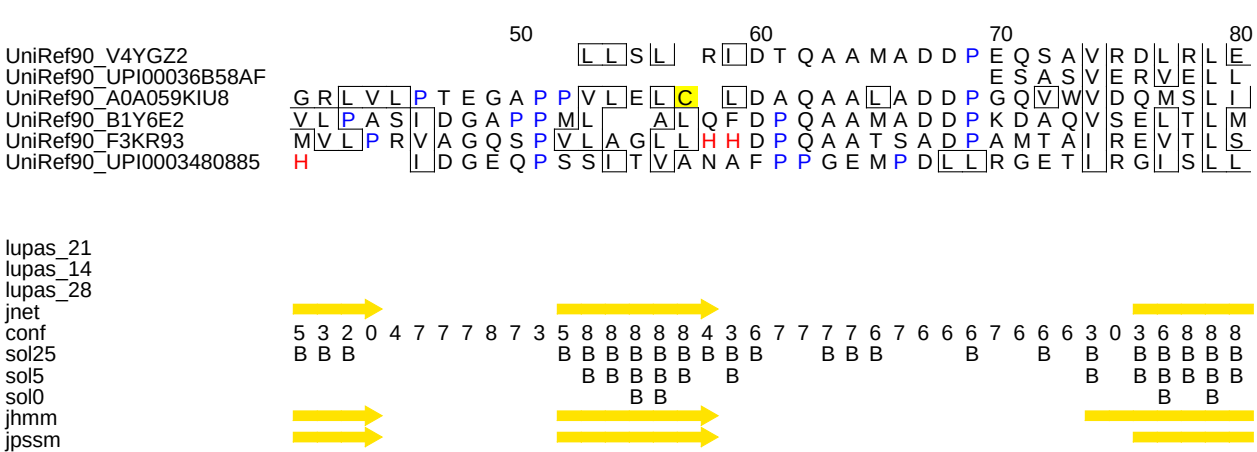

1
10
20
30
40
UniRef90_F2BFL7
UniRef90_G2DTL6
UniRef90_UPI0002DA6850
UniRef90_F5S951
UniRef90_J2W032
UniRef90_UPI0004757B13
UniRef90_K6H172
UniRef90_G0AJJ2
UniRef90_C4GMK1
UniRef90_L8Y0D3
UniRef90_UPI000381A298
UniRef90_V2IMK0
UniRef90_A3NWN9
UniRef90_G9ZHR2
UniRef90_V5PSD4
UniRef90_UPI0004731B82
UniRef90_J4KS71
UniRef90_UPI00037B5C5A
UniRef90_F0SPI2
UniRef90_UPI0003B4AE7D
UniRef90_UPI000382CAC0
UniRef90_UPI00047BE8C3
UniRef90_A5EVZ6
UniRef90_UPI00046480ED
UniRef90_V9HEA1
UniRef90_UPI000288C0B9
UniRef90_UPI00037C603C
UniRef90_Q470D1
UniRef90_UPI00041EBCC1
UniRef90_F6DCB7
UniRef90_F0F080
UniRef90_I9W668
UniRef90_T0ZHI5
UniRef90_C3X180
UniRef90_UPI0004730DEB
UniRef90_C3X7J9
UniRef90_T1AVM2
UniRef90_J5KKP1
UniRef90_UPI0002556280
UniRef90_A0A023C1S9
UniRef90_UPI00034611FA
UniRef90_J0UW84
UniRef90_UPI000470F324
UniRef90_UPI000370C784
UniRef90_U4TK78
UniRef90_UPI00036CC37D
UniRef90_Q2KUU8
UniRef90_UPI00046CA640
UniRef90_UPI00047C81FB
UniRef90_F4LEP7
UniRef90_A0P6P2
UniRef90_UPI00036117EA
UniRef90_E6PRN2
UniRef90_D5X187
UniRef90_F5XYL2
UniRef90_C9Y5Z4
UniRef90_UPI0004745C27
UniRef90_UPI000377EDDE
UniRef90_B1XTT9
UniRef90_UPI00047C9E40
UniRef90_H5WI10
UniRef90_F4GMI4
UniRef90_V8QQR8
UniRef90_UPI00034BEEDC
UniRef90_UPI00036A65B6
UniRef90_Q21WC9
UniRef90_E7RVY8
UniRef90_UPI000474AD82
UniRef90_UPI000289A076
UniRef90_UPI00047E810B
UniRef90_B6BTY7
UniRef90_UPI00047BCB6D
UniRef90_E6VA26
UniRef90_A0A024ICI0
UniRef90_C5CNU4
UniRef90_UPI0003740A0F
UniRef90_M1SHE2
UniRef90_A1TR22
UniRef90_E8UGN0
UniRef90_UPI0003956ABE
UniRef90_A1VN97
UniRef90_UPI0003788F53
UniRef90_G4QAB5
UniRef90_UPI000373995A
UniRef90_UPI0003816D03
UniRef90_A1WRA8
UniRef90_V8G7X4
UniRef90_UPI0003FE8197
UniRef90_UPI0002377A51
UniRef90_I0HRW5
UniRef90_F3LPS1
UniRef90_UPI0003042830

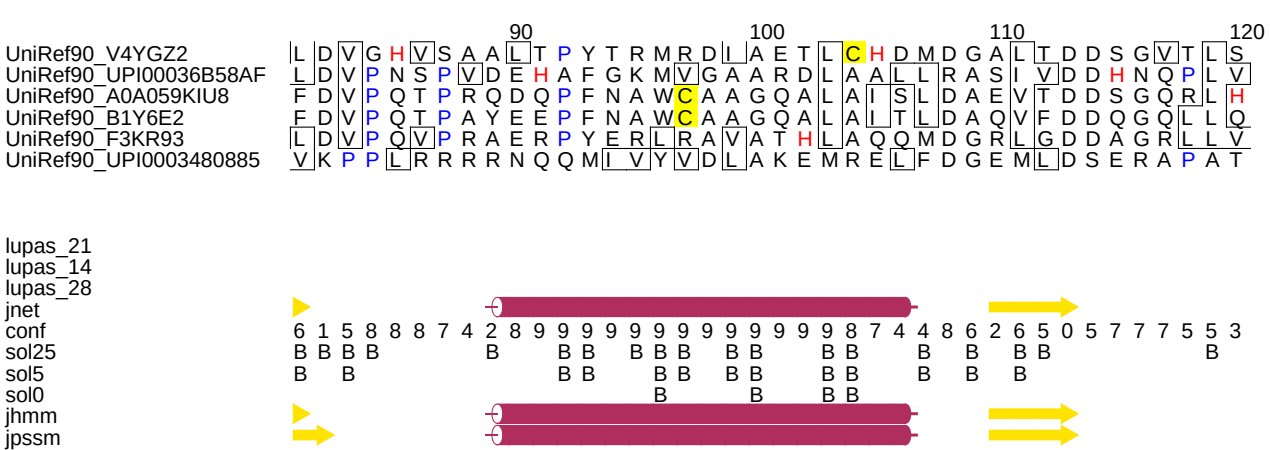

50
60
70
80
UniRef90_F2BFL7
UniRef90_G2DTL6
UniRef90_UPI0002DA6850
UniRef90_F5S951
UniRef90_J2W032
UniRef90_UPI0004757B13
UniRef90_K6H172
UniRef90_G0AJJ2
UniRef90_C4GMK1
UniRef90_L8Y0D3
UniRef90_UPI000381A298
UniRef90_V2IMK0
UniRef90_A3NWN9
UniRef90_G9ZHR2
UniRef90_V5PSD4
UniRef90_UPI0004731B82
UniRef90_J4KS71
UniRef90_UPI00037B5C5A
UniRef90_F0SPI2
UniRef90_UPI0003B4AE7D
UniRef90_UPI000382CAC0
UniRef90_UPI00047BE8C3
UniRef90_A5EVZ6
UniRef90_UPI00046480ED
UniRef90_V9HEA1
UniRef90_UPI000288C0B9
UniRef90_UPI00037C603C
UniRef90_Q470D1
UniRef90_UPI00041EBCC1
UniRef90_F6DCB7
UniRef90_F0F080
UniRef90_I9W668
UniRef90_T0ZHI5
UniRef90_C3X180
UniRef90_UPI0004730DEB
UniRef90_C3X7J9
UniRef90_T1AVM2
UniRef90_J5KKP1
UniRef90_UPI0002556280
UniRef90_A0A023C1S9
UniRef90_UPI00034611FA
UniRef90_J0UW84
UniRef90_UPI000470F324
UniRef90_UPI000370C784
UniRef90_U4TK78
UniRef90_UPI00036CC37D
UniRef90_Q2KUU8
UniRef90_UPI00046CA640
UniRef90_UPI00047C81FB
UniRef90_F4LEP7
UniRef90_A0P6P2
UniRef90_UPI00036117EA
UniRef90_E6PRN2
UniRef90_D5X187
UniRef90_F5XYL2
UniRef90_C9Y5Z4
UniRef90_UPI0004745C27
UniRef90_UPI000377EDDE
UniRef90_B1XTT9
UniRef90_UPI00047C9E40
UniRef90_H5WI10
UniRef90_F4GMI4
UniRef90_V8QQR8
UniRef90_UPI00034BEEDC
UniRef90_UPI00036A65B6
UniRef90_Q21WC9
UniRef90_E7RVY8
UniRef90_UPI000474AD82
UniRef90_UPI000289A076
UniRef90_UPI00047E810B
UniRef90_B6BTY7
UniRef90_UPI00047BCB6D
UniRef90_E6VA26
UniRef90_A0A024ICI0
UniRef90_C5CNU4
UniRef90_UPI0003740A0F
UniRef90_M1SHE2
UniRef90_A1TR22
UniRef90_E8UGN0
UniRef90_UPI0003956ABE
UniRef90_A1VN97
UniRef90_UPI0003788F53
UniRef90_G4QAB5
UniRef90_UPI000373995A
UniRef90_UPI0003816D03
UniRef90_A1WRA8
UniRef90_V8G7X4
UniRef90_UPI0003FE8197
UniRef90_UPI0002377A51
UniRef90_I0HRW5
UniRef90_F3LPS1
UniRef90_UPI0003042830

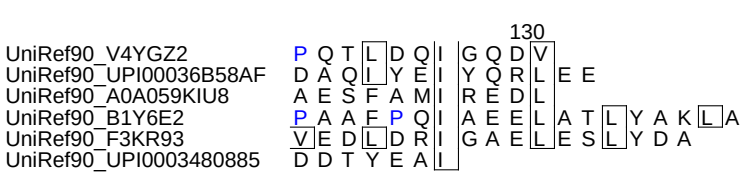

90
100
110
120
UniRef90_F2BFL7
UniRef90_G2DTL6
UniRef90_UPI0002DA6850
UniRef90_F5S951
UniRef90_J2W032
UniRef90_UPI0004757B13
UniRef90_K6H172
UniRef90_G0AJJ2
UniRef90_C4GMK1
UniRef90_L8Y0D3
UniRef90_UPI000381A298
UniRef90_V2IMK0
UniRef90_A3NWN9
UniRef90_G9ZHR2
UniRef90_V5PSD4
UniRef90_UPI0004731B82
UniRef90_J4KS71
UniRef90_UPI00037B5C5A
UniRef90_F0SPI2
UniRef90_UPI0003B4AE7D
UniRef90_UPI000382CAC0
UniRef90_UPI00047BE8C3
UniRef90_A5EVZ6
UniRef90_UPI00046480ED
UniRef90_V9HEA1
UniRef90_UPI000288C0B9
UniRef90_UPI00037C603C
UniRef90_Q470D1
UniRef90_UPI00041EBCC1
UniRef90_F6DCB7
UniRef90_F0F080
UniRef90_I9W668
UniRef90_T0ZHI5
UniRef90_C3X180
UniRef90_UPI0004730DEB
UniRef90_C3X7J9
UniRef90_T1AVM2
UniRef90_J5KKP1
UniRef90_UPI0002556280
UniRef90_A0A023C1S9
UniRef90_UPI00034611FA
UniRef90_J0UW84
UniRef90_UPI000470F324
UniRef90_UPI000370C784
UniRef90_U4TK78
UniRef90_UPI00036CC37D
UniRef90_Q2KUU8
UniRef90_UPI00046CA640
UniRef90_UPI00047C81FB
UniRef90_F4LEP7
UniRef90_A0P6P2
UniRef90_UPI00036117EA
UniRef90_E6PRN2
UniRef90_D5X187
UniRef90_F5XYL2
UniRef90_C9Y5Z4
UniRef90_UPI0004745C27
UniRef90_UPI000377EDDE
UniRef90_B1XTT9
UniRef90_UPI00047C9E40
UniRef90_H5WI10
UniRef90_F4GMI4
UniRef90_V8QQR8
UniRef90_UPI00034BEEDC
UniRef90_UPI00036A65B6
UniRef90_Q21WC9
UniRef90_E7RVY8
UniRef90_UPI000474AD82
UniRef90_UPI000289A076
UniRef90_UPI00047E810B
UniRef90_B6BTY7
UniRef90_UPI00047BCB6D
UniRef90_E6VA26
UniRef90_A0A024ICI0
UniRef90_C5CNU4
UniRef90_UPI0003740A0F
UniRef90_M1SHE2
UniRef90_A1TR22
UniRef90_E8UGN0
UniRef90_UPI0003956ABE
UniRef90_A1VN97
UniRef90_UPI0003788F53
UniRef90_G4QAB5
UniRef90_UPI000373995A
UniRef90_UPI0003816D03
UniRef90_A1WRA8
UniRef90_V8G7X4
UniRef90_UPI0003FE8197
UniRef90_UPI0002377A51
UniRef90_I0HRW5
UniRef90_F3LPS1
UniRef90_UPI0003042830

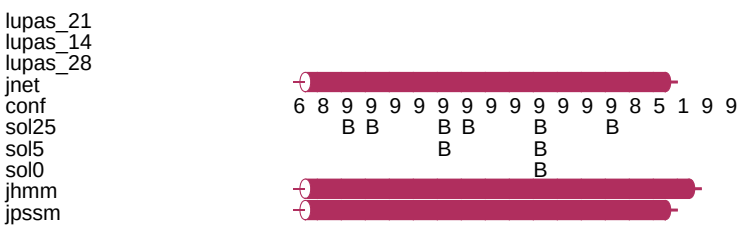

130
UniRef90_F2BFL7 M E W L K D V G R Y V A A R Q E E M
UniRef90_G2DTL6 T E W L V E V R R Y V L A R Q D E M
UniRef90_UPI0002DA6850 D A A L E E I A A Q V Y A F
UniRef90_F5S951 T D W L K E V R S Y I H A R Q D E M
UniRef90_J2W032 D V A L A D I A E Q V A A F Y S A M
UniRef90_UPI0004757B13 A A S L D N I R R Q L A R L Y A T M
UniRef90_K6H172 K Q M I E H I K S K A Q E V
UniRef90_G0AJJ2 D V Q L A E I A G Q V D A F Y R E M
UniRef90_C4GMK1 T E W L K E V R T Y V R Q T E M R R
UniRef90_L8Y0D3 A E Y V Q N L V A Q A R A
UniRef90_UPI000381A298 E S D L Q A M R D T A V A Y E S
UniRef90_V2IMK0 E T S F V A I F Q Q L Q A L Y D
UniRef90_A3NWN9 E S T L L A I E Q Q L M K L Y A R
UniRef90_G9ZHR2 E R A F A R Y R K N I E G Y E E H
UniRef90_V5PSD4 D A A L Q N V D K Q L K L Y E R L E A
UniRef90_UPI0004731B82 K Q M I S H I E S R A Q D I A R
UniRef90_J4KS71 K Q M I S H I E S R A Q D I A R
UniRef90_UPI00037B5C5A K Q M I S H I E S Q A Q E I M R
UniRef90_F0SPI2 E D T I S E L I E R V S Q I E A
UniRef90_UPI0003B4AE7D E T G I D T I C R Q L D Q I Y T R M
UniRef90_UPI000382CAC0 E S D L Q A M R D A A V A Y E S
UniRef90_UPI00047BE8C3 T D W L K E V R T Y V
UniRef90_A5EVZ6 E K E L A N Y R H A A E I F Q
UniRef90_UPI00046480ED D A S M Q A I D D R L M T L Y A R
UniRef90_V9HEA1 T E W L K N I R S F V L D
UniRef90_UPI000288C0B9 K Q M I S H I E T K A Q E V T R
UniRef90_UPI00037C603C T Q W L K D I R T Y V
UniRef90_Q470D1 E A S F V A I F N Q L
UniRef90_UPI00041EBCC1 N D D L I A L F H K I N E W E R A
UniRef90_F6DCB7 E T D L Q A M R E R A L D Y E T
UniRef90_F0F080 T D W L K E V R S Y V Q D R Q E E M
UniRef90_I9W668 E S S F V A I Q K K L
UniRef90_T0ZHI5 D E S I G L L R E S L
UniRef90_C3X180 D R F L E E I A G Q V N D F Y R E M
UniRef90_UPI0004730DEB G E A L A E I A A Q V A A F Y D D M
UniRef90_C3X7J9 D S F L E E I S G Q V K D F Y S E M
UniRef90_T1AVM2 V R Q C T T I E K Q L A Q V
UniRef90_J5KKP1 K Q M I S H L E N K A Q E I A R
UniRef90_UPI0002556280 T A D F Q S Y V E S I Q E
UniRef90_A0A023C1S9 E Q M L I Q L A E L I K Q M N D
UniRef90_UPI00034611FA A A E L A A I E Q Q L
UniRef90_J0UW84 E S T D Q N I D E Q L R T L Y E R
UniRef90_UPI000470F324 Q G A E Q V I D G Q L Q T F E R
UniRef90_UPI000370C784 E G A E A S I D E R L Q
UniRef90_U4TK78 E A S V S A
UniRef90_UPI00036CC37D E A
UniRef90_Q2KUU8 E G A E N V I D E R L Q
UniRef90_UPI00046CA640 E K I R Q E L R E N L R
UniRef90_UPI00047C81FB D G A E T V I D E R L Q
UniRef90_F4LEP7 D G A D A V I D E R L Q
UniRef90_A0P6P2 D D Y I S K V Y V Y L K G V E Q K M
UniRef90_UPI00036117EA P A A L D Q I E L Q L Q Q L Y A S
UniRef90_E6PRN2 P T S L D Q I E Q Q L Q R L Y A A
UniRef90_D5X187 D A A L D H I E K Q L
UniRef90_F5XYL2 P E A M E V I A A D L
UniRef90_C9Y5Z4 A Q T M D V I A A D L Q
UniRef90_UPI0004745C27 E N A D H A I D E K L H E
UniRef90_UPI000377EDDE S S D D A T Y R S K M
UniRef90_B1XTT9 E A A V I S I R Q H L
UniRef90_UPI00047C9E40 A E G M H V I
UniRef90_H5WI10 L H A F A N I G Q E L Q Q
UniRef90_F4GMI4 D T A D Q A I D E Q L L E L Y G R
UniRef90_V8QQR8 E G S E H A I D E Q I R
UniRef90_UPI00034BEEDC L H A F A T I G Q E L G R L Y R A
UniRef90_UPI00036A65B6 D Q A M D A I
UniRef90_Q21WC9 P E A M D T I G A E L E Q L Y D
UniRef90_E7RVY8 V G M I G T V R Q L A R R Y
UniRef90_UPI000474AD82 A D A L D Q I G S D L Q Q L Y D A
UniRef90_UPI000289A076 A E E F E A L R Q Q A Q R M A R
UniRef90_UPI00047E810B A M A L D P I A Q D L E Q L Y D
UniRef90_B6BTY7 S V Y V A H M N Q I V K E M E K H N
UniRef90_UPI00047BCB6D P E A M E V I Y A D L E Q L Y D
UniRef90_E6VA26 D E T M D V I
UniRef90_A0A024ICI0 A E A M D H I
UniRef90_C5CNU4 E E T M D A I G A D L E Q L Y D
UniRef90_UPI0003740A0F E D V L D Q I A N D L H Q L Y D A
UniRef90_M1SHE2 E A A V I S I R Q H L
UniRef90_A1TR22 A M T M D P I A A D L
UniRef90_E8UGN0 P N D I P Q I D A Q L L Q V
UniRef90_UPI0003956ABE A Q D L E N L Y D Q L E Q
UniRef90_A1VN97 P E A M E A I H A D L E E L Y D R M
UniRef90_UPI0003788F53 D D L V A A V D E Q I Y E I
UniRef90_G4QAB5
UniRef90_UPI000373995A P Q A F E A I
UniRef90_UPI0003816D03 P E S M E K I A Q E L
UniRef90_A1WRA8 A M A M E P I A A D L E R L Y D
UniRef90_V8G7X4 P N V I E V M D K Q L A E V Y A
UniRef90_UPI0003FE8197 A M A M D P I A A D L E Q L Y D
UniRef90_UPI0002377A51 S M A M D P I A A D L
UniRef90_I0HRW5 L H A F D A I G R E L E Q
UniRef90_F3LPS1 L H A F D A I G R E L Q Q L Y A
UniRef90_UPI0003042830 E S T Y A Q I


1
10
20
30
40
UniRef90_V4YGZ2
UniRef90_UPI00036B58AF
UniRef90_A0A059KIU8 D A Q L A M R L Q A R R G S W P L S W V Q Q H A A R H G F V D G P T P
UniRef90_B1Y6E2 R H G F V H G T A G R L
UniRef90_F3KR93 Q L N I T L R A S R A W S A G Y V Q Q L A T R L G F V D G V L P G R
UniRef90_UPI0003480885 K K P H Q Y S L F V I F N Q P G P D T D E R L T H W L S D K N A T F D P L H V F
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 8 2 7 8 9 9 8 8 8 5 3 7 8 8 7 6 3 6 8 9 9 9 9 8 8 6 1 5 5 0 1 5 7 7 7 4 4
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
sol5 B B B B B B B B B B B B
sol0 B B B B B B
jhmm
jpssm


50
60
70
80
UniRef90_V4YGZ2
UniRef90_UPI00036B58AF
UniRef90_A0A059KIU8
UniRef90_B1Y6E2
UniRef90_F3KR93
UniRef90_UPI0003480885
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


90
100
110
120
UniRef90_V4YGZ2 L D V G H V S A A L T P Y T R M R D I A E T L C H D M D G A L T D D S G V T L S
UniRef90_UPI00036B58AF L D V P N S P V D E H A F G K M V G A A R D L A A L L R A S I V D D H N Q P L V
UniRef90_A0A059KIU8 F D V P Q T P R Q D Q P F N A W C A A G Q A L A I S L D A E V T D D S G Q R L H
UniRef90_B1Y6E2 F D V P Q T P A Y E E P F N A W C A A G Q A L A I T L D A Q V F D D Q G Q L L Q
UniRef90_F3KR93 L D V P Q V P R A E R P Y E R L R A V A T H L A Q Q M D G R L G D D A G R L L V
UniRef90_UPI0003480885 V K P P L R R R R N Q Q M I V Y V D L A K E M R E L F D G E M L D S E R A P A T
lupas_21
lupas_14
lupas_28
jnet
conf 6 1 5 8 8 8 7 4 2 8 9 9 9 9 9 9 9 9 9 9 8 7 4 4 8 6 2 6 5 0 5 7 7 7 5 5 3
sol25 B B B


130
UniRef90_V4YGZ2 P Q T L D Q I G Q D V
UniRef90_UPI00036B58AF D A Q I Y E I Y Q R L E E
UniRef90_A0A059KIU8 A E S F A M I R E D L
UniRef90_B1Y6E2 P A A F P Q I A E E L A T L Y A K L A
UniRef90_F3KR93 V E D L D R I G A E L E S L Y D A
UniRef90_UPI0003480885 D D T Y E A I


lupas_21
lupas_14
lupas_28
jnet
conf 6 8 9 9 9 9 9 9 9 9 9 9 9 8 5 1 9 9
sol25 B B B B B
sol5 B B
sol0 B
jhmm
jpssm