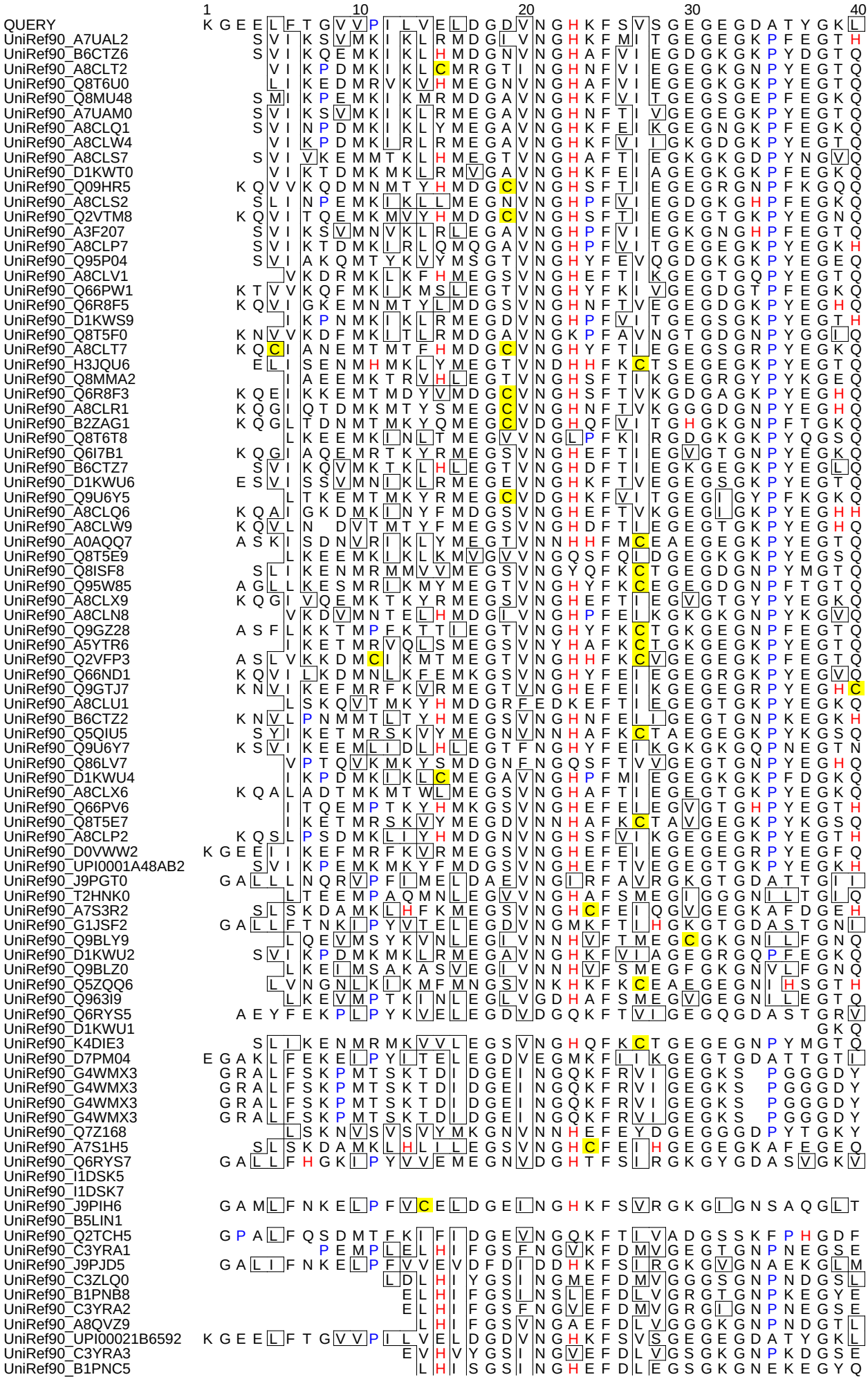
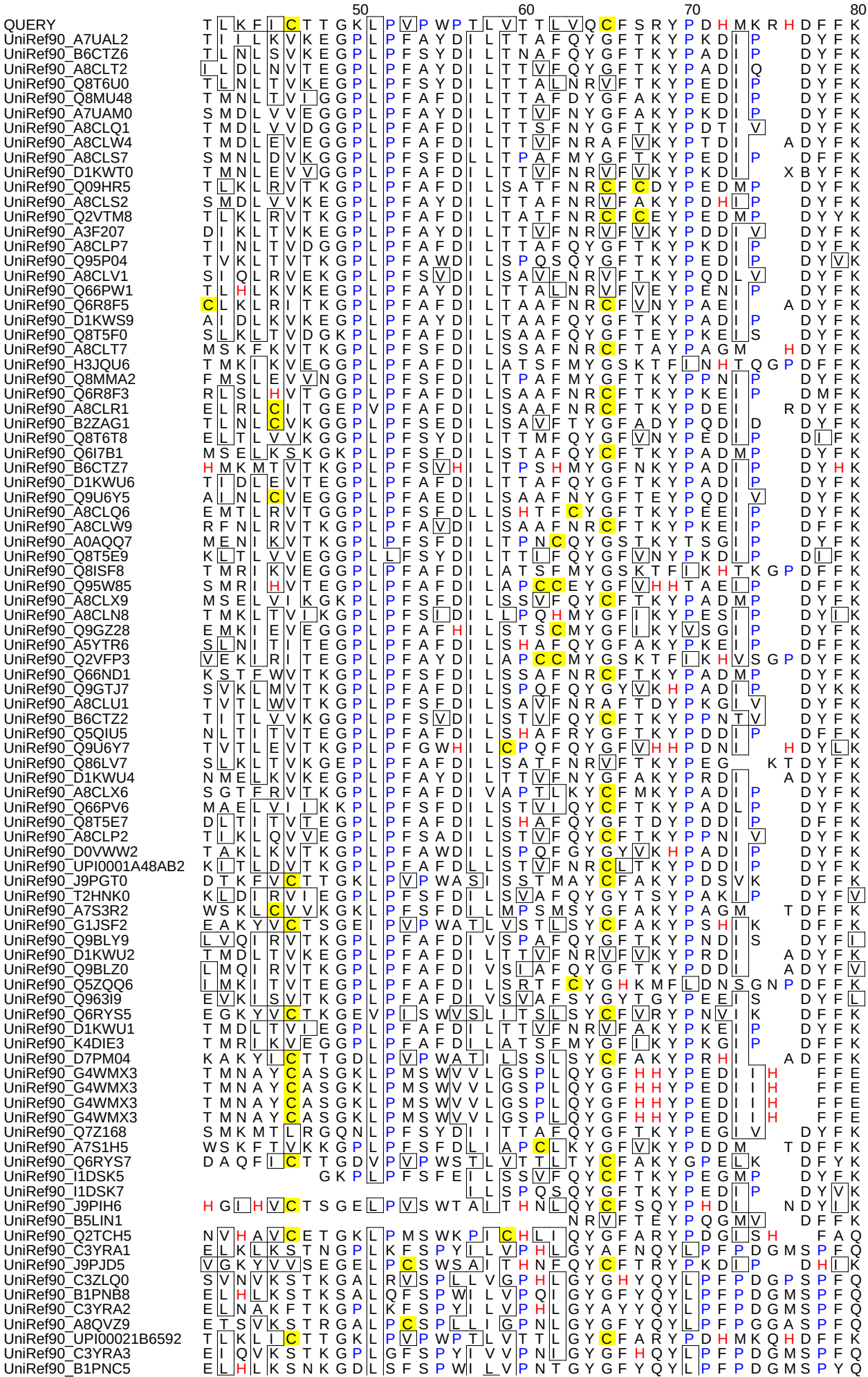
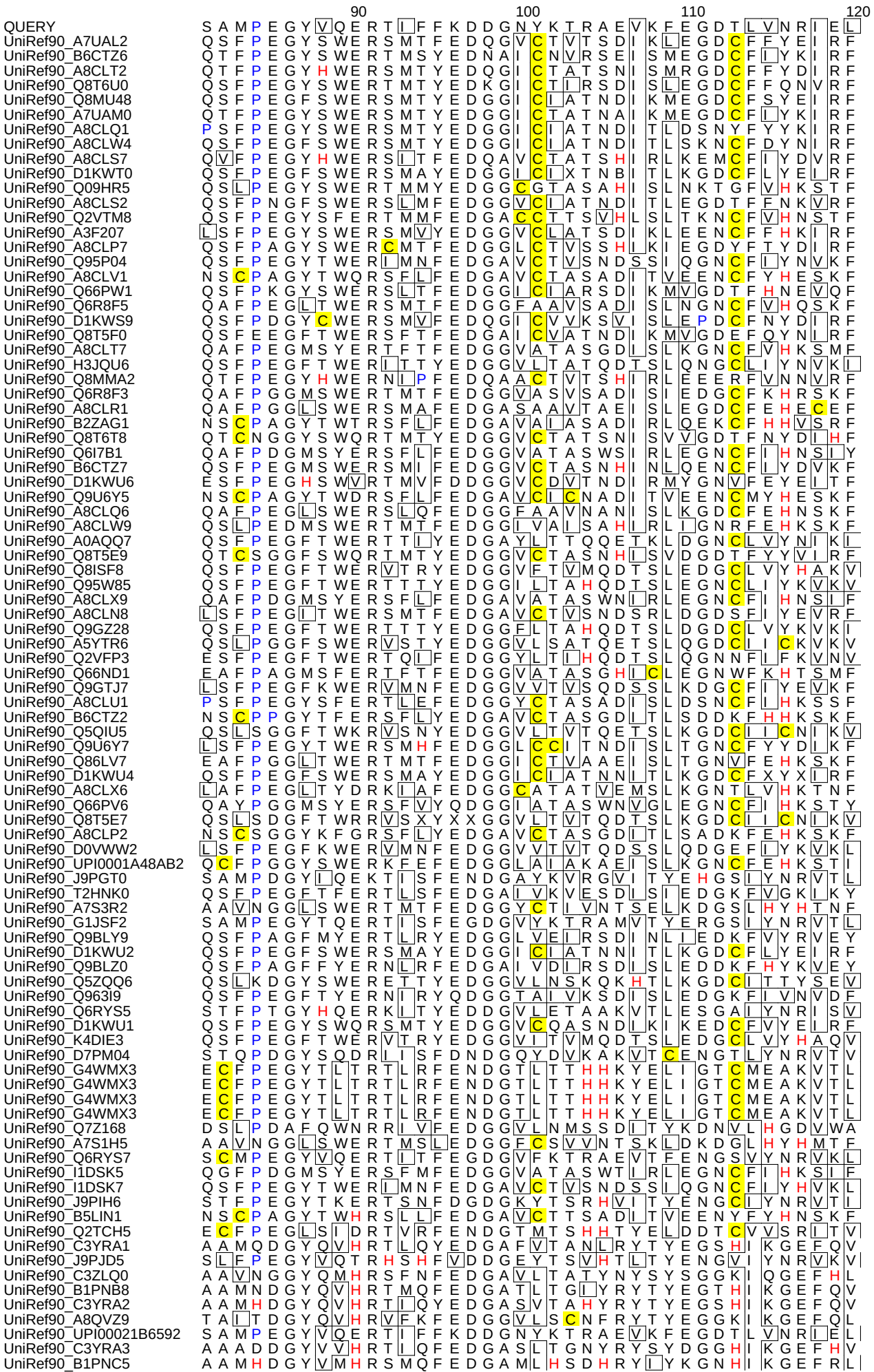
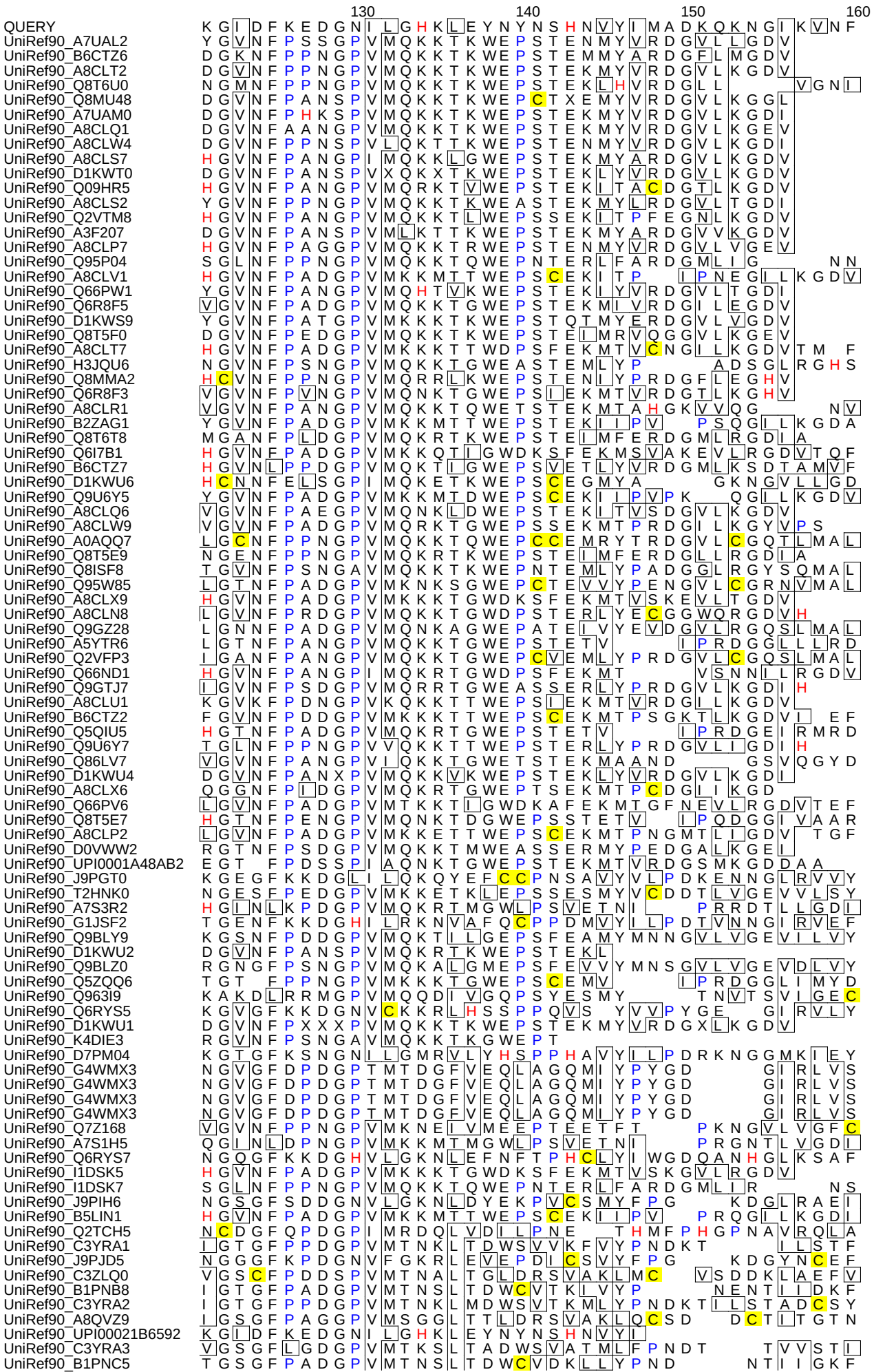
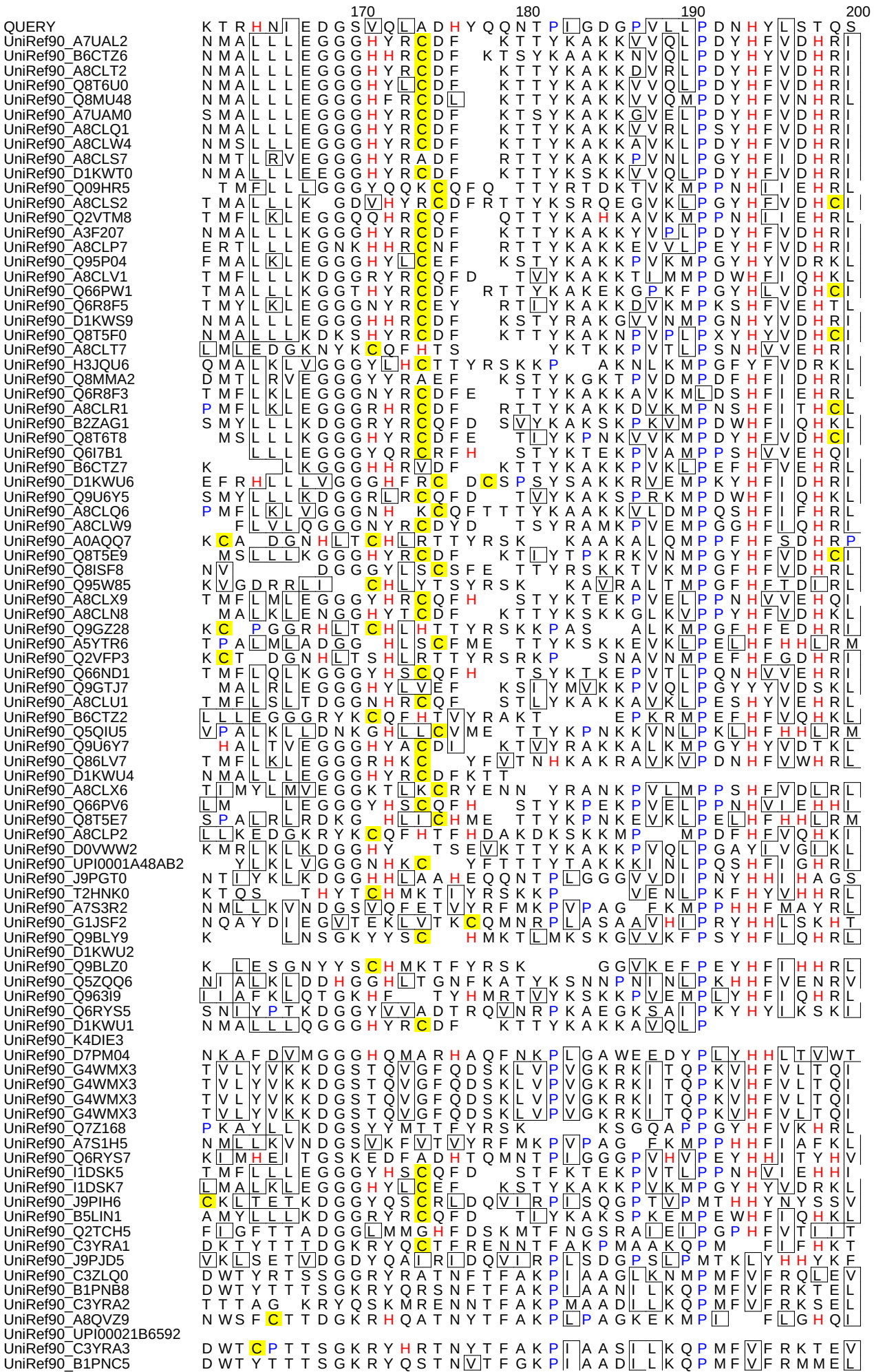
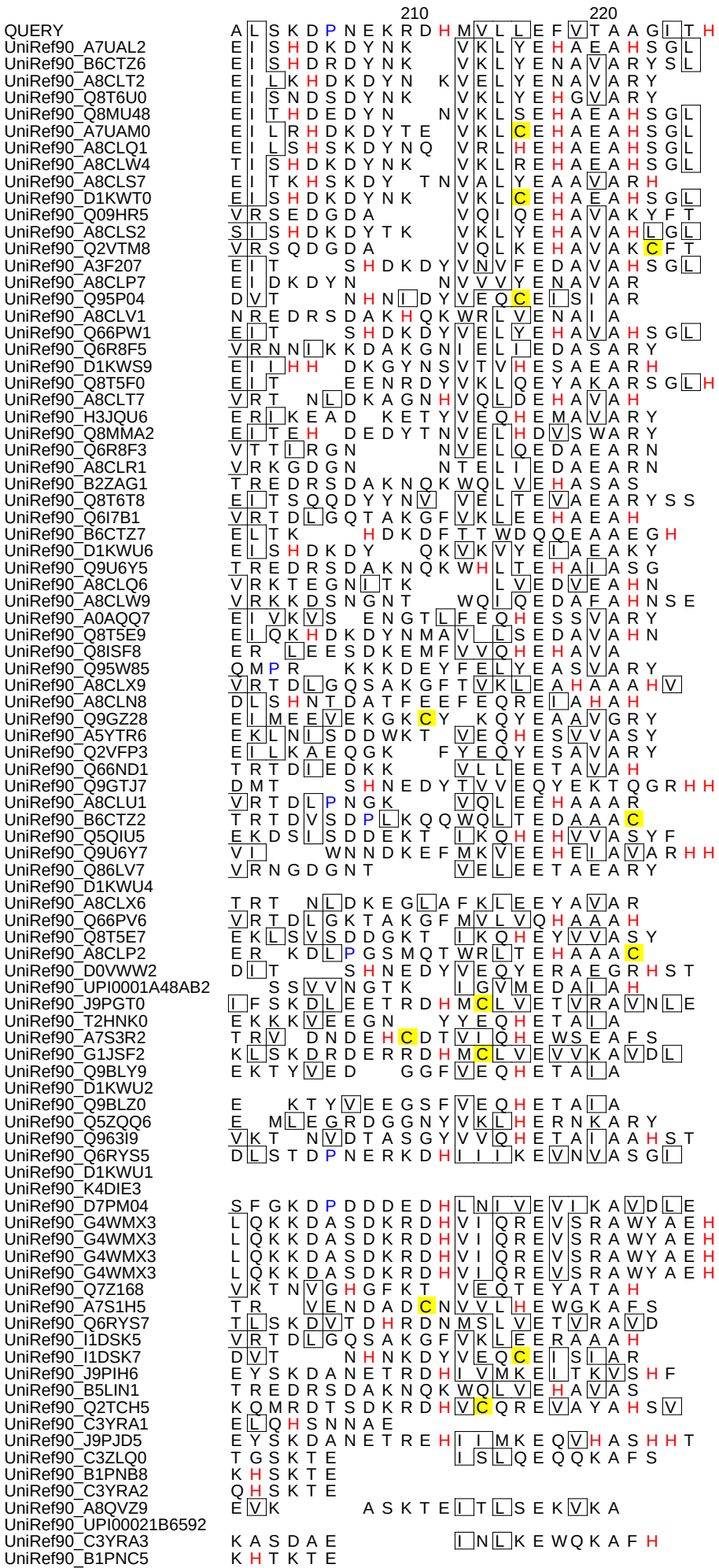

1
10
20
30
40
QUERY
UniRef90_A7UAL2
UniRef90_B6CTZ6
UniRef90_A8CLT2
UniRef90_Q8T6U0
UniRef90_Q8MU48
UniRef90_A7UAM0
UniRef90_A8CLQ1
UniRef90_A8CLW4
UniRef90_A8CLS7
UniRef90_D1KWT0
UniRef90_Q09HR5
UniRef90_A8CLS2
UniRef90_Q2VTM8
UniRef90_A3F207
UniRef90_A8CLP7
UniRef90_Q95P04
UniRef90_A8CLV1
UniRef90_Q66PW1
UniRef90_Q6R8F5
UniRef90_D1KWS9
UniRef90_Q8T5F0
UniRef90_A8CLT7
UniRef90_H3JQU6
UniRef90_Q8MMA2
UniRef90_Q6R8F3
UniRef90_A8CLR1
UniRef90_B2ZAG1
UniRef90_Q8T6T8
UniRef90_Q6I7B1
UniRef90_B6CTZ7
UniRef90_D1KWU6
UniRef90_Q9U6Y5
UniRef90_A8CLQ6
UniRef90_A8CLW9
UniRef90_A0AQQ7
UniRef90_Q8T5E9
UniRef90_Q8ISF8
UniRef90_Q95W85
UniRef90_A8CLX9
UniRef90_A8CLN8
UniRef90_Q9GZ28
UniRef90_A5YTR6
UniRef90_Q2VFP3
UniRef90_Q66ND1
UniRef90_Q9GTJ7
UniRef90_A8CLU1
UniRef90_B6CTZ2
UniRef90_Q5QIU5
UniRef90_Q9U6Y7
UniRef90_Q86LV7
UniRef90_D1KWU4
UniRef90_A8CLX6
UniRef90_Q66PV6
UniRef90_Q8T5E7
UniRef90_A8CLP2
UniRef90_D0VWW2
UniRef90_UPI0001A48AB2
UniRef90_J9PGT0
UniRef90_T2HNK0
UniRef90_A7S3R2
UniRef90_G1JSF2
UniRef90_Q9BLY9
UniRef90_D1KWU2
UniRef90_Q9BLZ0
UniRef90_Q5ZQQ6
UniRef90_Q963I9
UniRef90_Q6RYS5
UniRef90_D1KWU1
UniRef90_K4DIE3
UniRef90_D7PM04
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_Q7Z168
UniRef90_A7S1H5
UniRef90_Q6RYS7
UniRef90_I1DSK5
UniRef90_I1DSK7
UniRef90_J9PIH6
UniRef90_B5LIN1
UniRef90_Q2TCH5
UniRef90_C3YRA1
UniRef90_J9PJD5
UniRef90_C3ZLQ0
UniRef90_B1PNB8
UniRef90_C3YRA2
UniRef90_A8QVZ9
UniRef90_UPI00021B6592
UniRef90_C3YRA3
UniRef90_B1PNC5

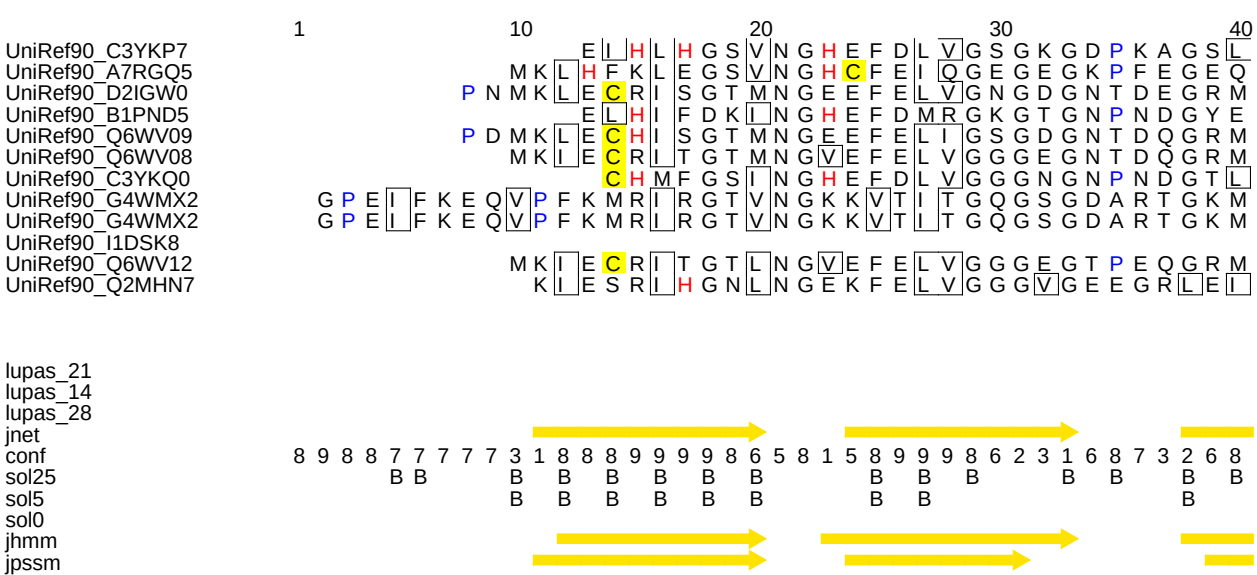

50
60
70
80
QUERY
UniRef90_A7UAL2
UniRef90_B6CTZ6
UniRef90_A8CLT2
UniRef90_Q8T6U0
UniRef90_Q8MU48
UniRef90_A7UAM0
UniRef90_A8CLQ1
UniRef90_A8CLW4
UniRef90_A8CLS7
UniRef90_D1KWT0
UniRef90_Q09HR5
UniRef90_A8CLS2
UniRef90_Q2VTM8
UniRef90_A3F207
UniRef90_A8CLP7
UniRef90_Q95P04
UniRef90_A8CLV1
UniRef90_Q66PW1
UniRef90_Q6R8F5
UniRef90_D1KWS9
UniRef90_Q8T5F0
UniRef90_A8CLT7
UniRef90_H3JQU6
UniRef90_Q8MMA2
UniRef90_Q6R8F3
UniRef90_A8CLR1
UniRef90_B2ZAG1
UniRef90_Q8T6T8
UniRef90_Q6I7B1
UniRef90_B6CTZ7
UniRef90_D1KWU6
UniRef90_Q9U6Y5
UniRef90_A8CLQ6
UniRef90_A8CLW9
UniRef90_A0AQQ7
UniRef90_Q8T5E9
UniRef90_Q8ISF8
UniRef90_Q95W85
UniRef90_A8CLX9
UniRef90_A8CLN8
UniRef90_Q9GZ28
UniRef90_A5YTR6
UniRef90_Q2VFP3
UniRef90_Q66ND1
UniRef90_Q9GTJ7
UniRef90_A8CLU1
UniRef90_B6CTZ2
UniRef90_Q5QIU5
UniRef90_Q9U6Y7
UniRef90_Q86LV7
UniRef90_D1KWU4
UniRef90_A8CLX6
UniRef90_Q66PV6
UniRef90_Q8T5E7
UniRef90_A8CLP2
UniRef90_D0VWW2
UniRef90_UPI0001A48AB2
UniRef90_J9PGT0
UniRef90_T2HNK0
UniRef90_A7S3R2
UniRef90_G1JSF2
UniRef90_Q9BLY9
UniRef90_D1KWU2
UniRef90_Q9BLZ0
UniRef90_Q5ZQQ6
UniRef90_Q963I9
UniRef90_Q6RYS5
UniRef90_D1KWU1
UniRef90_K4DIE3
UniRef90_D7PM04
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_Q7Z168
UniRef90_A7S1H5
UniRef90_Q6RYS7
UniRef90_I1DSK5
UniRef90_I1DSK7
UniRef90_J9PIH6
UniRef90_B5LIN1
UniRef90_Q2TCH5
UniRef90_C3YRA1
UniRef90_J9PJD5
UniRef90_C3ZLQ0
UniRef90_B1PNB8
UniRef90_C3YRA2
UniRef90_A8QVZ9
UniRef90_UPI00021B6592
UniRef90_C3YRA3
UniRef90_B1PNC5

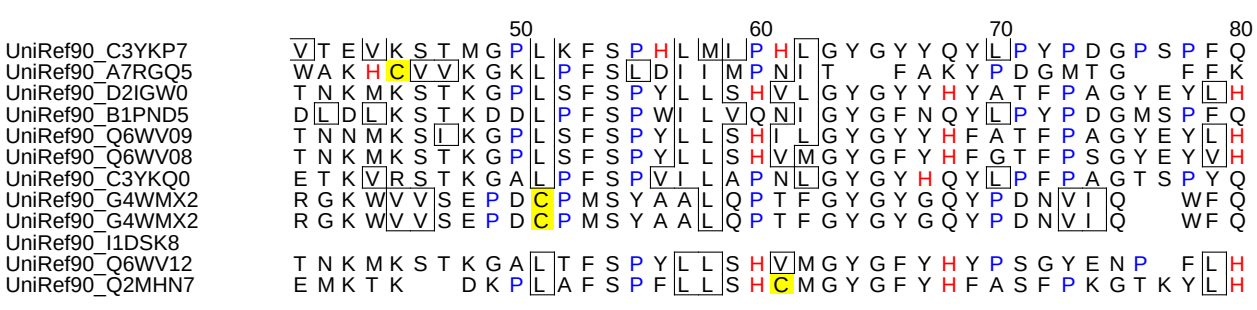

90
100
110
120
QUERY
UniRef90_A7UAL2
UniRef90_B6CTZ6
UniRef90_A8CLT2
UniRef90_Q8T6U0
UniRef90_Q8MU48
UniRef90_A7UAM0
UniRef90_A8CLQ1
UniRef90_A8CLW4
UniRef90_A8CLS7
UniRef90_D1KWT0
UniRef90_Q09HR5
UniRef90_A8CLS2
UniRef90_Q2VTM8
UniRef90_A3F207
UniRef90_A8CLP7
UniRef90_Q95P04
UniRef90_A8CLV1
UniRef90_Q66PW1
UniRef90_Q6R8F5
UniRef90_D1KWS9
UniRef90_Q8T5F0
UniRef90_A8CLT7
UniRef90_H3JQU6
UniRef90_Q8MMA2
UniRef90_Q6R8F3
UniRef90_A8CLR1
UniRef90_B2ZAG1
UniRef90_Q8T6T8
UniRef90_Q6I7B1
UniRef90_B6CTZ7
UniRef90_D1KWU6
UniRef90_Q9U6Y5
UniRef90_A8CLQ6
UniRef90_A8CLW9
UniRef90_A0AQQ7
UniRef90_Q8T5E9
UniRef90_Q8ISF8
UniRef90_Q95W85
UniRef90_A8CLX9
UniRef90_A8CLN8
UniRef90_Q9GZ28
UniRef90_A5YTR6
UniRef90_Q2VFP3
UniRef90_Q66ND1
UniRef90_Q9GTJ7
UniRef90_A8CLU1
UniRef90_B6CTZ2
UniRef90_Q5QIU5
UniRef90_Q9U6Y7
UniRef90_Q86LV7
UniRef90_D1KWU4
UniRef90_A8CLX6
UniRef90_Q66PV6
UniRef90_Q8T5E7
UniRef90_A8CLP2
UniRef90_D0VWW2
UniRef90_UPI0001A48AB2
UniRef90_J9PGT0
UniRef90_T2HNK0
UniRef90_A7S3R2
UniRef90_G1JSF2
UniRef90_Q9BLY9
UniRef90_D1KWU2
UniRef90_Q9BLZ0
UniRef90_Q5ZQQ6
UniRef90_Q963I9
UniRef90_Q6RYS5
UniRef90_D1KWU1
UniRef90_K4DIE3
UniRef90_D7PM04
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_Q7Z168
UniRef90_A7S1H5
UniRef90_Q6RYS7
UniRef90_I1DSK5
UniRef90_I1DSK7
UniRef90_J9PIH6
UniRef90_B5LIN1
UniRef90_Q2TCH5
UniRef90_C3YRA1
UniRef90_J9PJD5
UniRef90_C3ZLQ0
UniRef90_B1PNB8
UniRef90_C3YRA2
UniRef90_A8QVZ9
UniRef90_UPI00021B6592
UniRef90_C3YRA3
UniRef90_B1PNC5

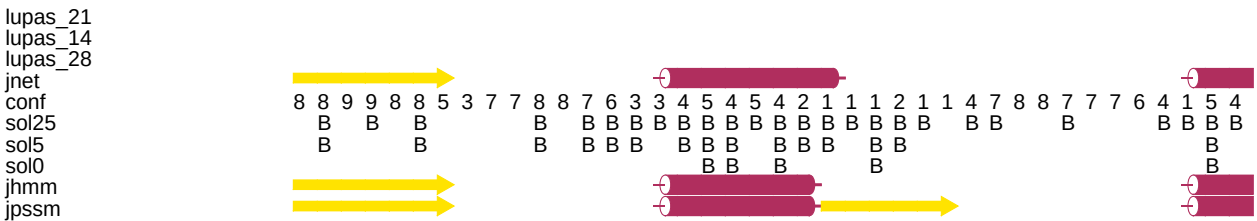

130
140
150
160
QUERY K G I D F K E D G N I L G H K L E Y N Y N S H N V Y I M A D K Q K N G I K V N F
UniRef90_A7UAL2 Y G V N F P S S G P V M Q K K T K W E P S T E N M Y V R D G V L L G D V
UniRef90_B6CTZ6 D G K N F P P N G P V M Q K K T K W E P S T E M M Y A R D G F L M G D V
UniRef90_A8CLT2 D G V N F P P N G P V M Q K K T K W E P S T E K M Y V R D G V L K G D V
UniRef90_Q8T6U0 N G M N F P P N G P V M Q K K T K W E P S T E K L H V R D G L L V G N I
UniRef90_Q8MU48 D G V N F P A N S P V M Q K K T K W E P C T X E M Y V R D G V L K G G L
UniRef90_A7UAM0 D G V N F P H K S P V M Q K K T K W E P S T E K M Y V R D G V L K G D I
UniRef90_A8CLQ1 D G V N F A A N G P V M Q K K T K W E P S T E K M Y V R D G V L K G E V
UniRef90_A8CLW4 D G V N F P P N S P V L Q K T T K W E P S T E N M Y V R D G V L K G D I
UniRef90_A8CLS7 H G V N F P A N G P I M Q K K L G W E P S T E K M Y A R D G V L K G D V
UniRef90_D1KWT0 D G V N F P A N S P V X Q K X T K W E P S T E K L Y V R D G V L K G D V
UniRef90_Q09HR5 H G V N F P A N G P V M Q R K T V W E P S T E K I T A C D G T L K G D V
UniRef90_A8CLS2 Y G V N F P P N G P V M Q K K T K W E A S T E K M Y L R D G V L T G D I
UniRef90_Q2VTM8 H G V N F P A N G P V M Q K K T L W E P S S E K I T P F E G N L K G D V
UniRef90_A3F207 D G V N F P A N S P V M L K T T K W E P S T E K M Y A R D G V V K G D V
UniRef90_A8CLP7 H G V N F P A G G P V M Q K K T R W E P S T E N M Y V R D G V L V G E V
UniRef90_Q95P04 S G L N F P P N G P V M Q K K T Q W E P N T E R L F A R D G M L I G N N
UniRef90_A8CLV1 H G V N F P A D G P V M K K M T T W E P S C E K I T P I P N E G I L K G D V
UniRef90_Q66PW1 Y G V N F P A N G P V M Q H T V K W E P S T E K I Y V R D G V L T G D I
UniRef90_Q6R8F5 V G V N F P A D G P V M Q K K T G W E P S T E K M I V R D G I L E G D V
UniRef90_D1KWS9 Y G V N F P A T G P V M K K K T K W E P S T Q T M Y E R D G V L V G D V
UniRef90_Q8T5F0 D G V N F P E D G P V M Q K K T K W E P S T E I M R V Q G G V L K G E V
UniRef90_A8CLT7 H G V N F P A D G P V M K K K T T W D P S F E K M T V C N G I L K G D V T M F
UniRef90_H3JQU6 N G V N F P S N G P V M Q K K T G W E A S T E M L Y P A D S G L R G H S
UniRef90_Q8MMA2 H C V N F P P N G P V M Q R R L K W E P S T E N I Y P R D G F L E G H V
UniRef90_Q6R8F3 V G V N F P V N G P V M Q N K T G W E P S I E K M T V R D G T L K G H V
UniRef90_A8CLR1 V G V N F P A N G P V M Q K K T Q W E T S T E K M T A H G K V V Q G N V
UniRef90_B2ZAG1 Y G V N F P A D G P V M K K M T T W E P S T E K I I P V P S Q G I L K G D A
UniRef90_Q8T6T8 M G A N F P L D G P V M Q K R T K W E P S T E I M F E R D G M L R G D I A
UniRef90_Q6I7B1 H G V N F P A D G P V M K K Q T I G W D K S F E K M S V A K E V L R G D V T Q F
UniRef90_B6CTZ7 H G V N L P P D G P V M Q K T I G W E P S V E T L Y V R D G M L K S D T A M V F
UniRef90_D1KWU6 H C N N F E L S G P I M Q K E T K W E P S C E G M Y A G K N G V L L G D
UniRef90_Q9U6Y5 Y G V N F P A D G P V M K K M T D W E P S C E K I I P V P K Q G I L K G D V
UniRef90_A8CLQ6 V G V N F P A E G P V M Q N K L D W E P S T E K I T V S D G V L K G D V
UniRef90_A8CLW9 V G V N F P A D G P V M Q R K T G W E P S S E K M T P R D G I L K G Y V P S
UniRef90_A0AQQ7 L G C N F P P N G P V M Q K K T Q W E P C C E M R Y T R D G V L C G Q T L M A L
UniRef90_Q8T5E9 N G E N F P P N G P V M Q K R T K W E P S T E I M F E R D G L L R G D I A
UniRef90_Q8ISF8 T G V N F P S N G A V M Q K K T K W E P N T E M L Y P A D G G L R G Y S Q M A L
UniRef90_Q95W85 L G T N F P A D G P V M K N K S G W E P C T E V V Y P E N G V L C G R N V M A L
UniRef90_A8CLX9 H G V N F P A D G P V M K K K T G W D K S F E K M T V S K E V L T G D V
UniRef90_A8CLN8 L G V N F P R D G P V M Q K K T G W D P S T E R L Y E C G G W Q R G D V H
UniRef90_Q9GZ28 L G N N F P A D G P V M Q N K A G W E P A T E I V Y E V D G V L R G Q S L M A L
UniRef90_A5YTR6 L G T N F P A N G P V M Q K K T G W E P S T E T V I P R D G G L L L R D
UniRef90_Q2VFP3 I G A N F P A N G P V M Q K K T G W E P C V E M L Y P R D G V L C G Q S L M A L
UniRef90_Q66ND1 H G V N F P A N G P I M Q K R T G W D P S F E K M T V S N N I L R G D V
UniRef90_Q9GTJ7 I G V N F P S D G P V M Q R R T G W E A S S E R L Y P R D G V L K G D I H
UniRef90_A8CLU1 K G V K F P D N G P V K Q K K T T W E P S I E K M T V R D G I L K G D V
UniRef90_B6CTZ2 F G V N F P D D G P V M K K K T T W E P S C E K M T P S G K T L K G D V I E F
UniRef90_Q5QIU5 H G T N F P A D G P V M Q K R T G W E P S T E T V I P R D G E I R M R D
UniRef90_Q9U6Y7 T G L N F P P N G P V V Q K K T T W E P S T E R L Y P R D G V L I G D I H
UniRef90_Q86LV7 V G V N F P A N G P V I Q K K T G W E T S T E K M A A N D G S V Q G Y D
UniRef90_D1KWU4 D G V N F P A N X P V M Q K K V K W E P S T E K L Y V R D G V L K G D I
UniRef90_A8CLX6 Q G G N F P I D G P V M Q K R T G W E P T S E K M T P C D G I I K G D
UniRef90_Q66PV6 L G V N F P A D G P V M T K K T I G W D K A F E K M T G F N E V L R G D V T E F
UniRef90_Q8T5E7 H G T N F P E N G P V M Q N K T D G W E P S S T E T V I P Q D G G I V A A R
UniRef90_A8CLP2 L G V N F P A D G P V M K K E T T W E P S C E K M T P N G M T L I G D V T G F
UniRef90_D0VWW2 R G T N F P S D G P V M Q K K T M W E A S S E R M Y P E D G A L K G E I
UniRef90_UPI0001A48AB2 E G T F P D S S P I A Q N K T G W E P S T E K M T V R D G S M K G D D A A
UniRef90_J9PGT0 K G E G F K K D G L I L Q K Q Y E F C C P N S A V Y V L P D K E N N G L R V V Y
UniRef90_T2HNK0 N G E S F P E D G P V M K K E T K L E P S S E S M Y V C D D T L V G E V V L S Y
UniRef90_A7S3R2 H G I N L K P D G P V M Q K R T M G W L P S V E T N I P R R D T L L G D I
UniRef90_G1JSF2 T G E N F K K D G H I L R K N V A F Q C P P D M V Y I L P D T V N N G I R V E F
UniRef90_Q9BLY9 K G S N F P D D G P V M Q K T I L G E P S F E A M Y M N N G V L V G E V I L V Y
UniRef90_D1KWU2 D G V N F P A N S P V M Q K R T K W E P S T E K L
UniRef90_Q9BLZ0 R G N G F P S N G P V M Q K A L G M E P S F E V V Y M N S G V L V G E V D L V Y
UniRef90_Q5ZQQ6 T G T F P P N G P V M K K K T G W E P S C E M V I P R D G G L I M Y D
UniRef90_Q963I9 K A K D L R R M G P V M Q Q D I V G Q P S Y E S M Y T N V T S V I G E C
UniRef90_Q6RYS5 K G V G F K K D G N V C K K R L H S S P P Q V S Y V V P Y G E G I R V L Y
UniRef90_D1KWU1 D G V N F P X X X P V M Q K K T K W E P S T E K M Y V R D G X L K G D V
UniRef90_K4DIE3 R G V N F P S N G A V M Q K K T K G W E P T
UniRef90_D7PM04 K G T G F K S N G N I L G M R V L Y H S P P H A V Y I L P D R K N G G M K I E Y
UniRef90_G4WMX3 N G V G F D P D G P T M T D G F V E Q L A G Q M I Y P Y G D G I R L V S
UniRef90_G4WMX3 N G V G F D P D G P T M T D G F V E Q L A G Q M I Y P Y G D G I R L V S
UniRef90_G4WMX3 N G V G F D P D G P T M T D G F V E Q L A G Q M I Y P Y G D G I R L V S
UniRef90_Q7Z168 V G V N F P P N G P V M K N E I V M E E P T E E T F T P K N G V L V G F C
UniRef90_A7S1H5 Q G I N L D P N G P V M K K M T M G W L P S V E T N I P R G N T L V G D I
UniRef90_Q6RYS7 N G Q G F K K D G H V L G K N L E F N F T P H C L Y I W G D Q A N H G L K S A F
UniRef90_I1DSK5 H G V N F P A D G P V M K K K T G W D K S F E K M T V S K G V L R G D V
UniRef90_I1DSK7 S G L N F P P N G P V M Q K K T Q W E P N T E R L F A R D G M L I R N S
UniRef90_J9PIH6 N G S G F S D D G N V L G K N L D Y E K P V C S M Y F P G K D G L R A E I
UniRef90_B5LIN1 H G V N F P A D G P V M K K M T T W E P S C E K I I P V P R Q G I L K G D I
UniRef90_Q2TCH5 N C D G F Q P D G P I M R D Q L V D I L P N E T H M F P H G P N A V R Q L A
UniRef90_C3YRA1 I G T G F P P D G P V M T N K L T D W S V V K F V Y P N D K T I L S T F
UniRef90_J9PJD5 N G G G F K P D G N V F G K R L E V E P D I C S V Y F P G K D G Y N C E F
UniRef90_C3ZLQ0 V G S C F P D D S P V M T N A L T G L D R S V A K L M C V S D D K L A E F V
UniRef90_B1PNB8 I G T G F P A D G P V M T N S L T D W C V T K I V Y P N E N T I I D K F
UniRef90_C3YRA2 I G T G F P P D G P V M T N K L M D W S V T K M L Y P N D K T I L S T A D C S Y
UniRef90_A8QVZ9 I G S G F P A G G P V M S G G L T T L D R S V A K L Q C S D D C T I T G T N
UniRef90_UPI00021B6592 K G I D F K E D G N I L G H K L E Y N Y N S H N V Y I
UniRef90_C3YRA3 V G S G F L G D G P V M T K S L T A D W S V A T M L F P N D T T V V S T I
UniRef90_B1PNC5 T G S G F P A D G P V M T N S L T D W C V D K L L Y P N D N T I I G K F

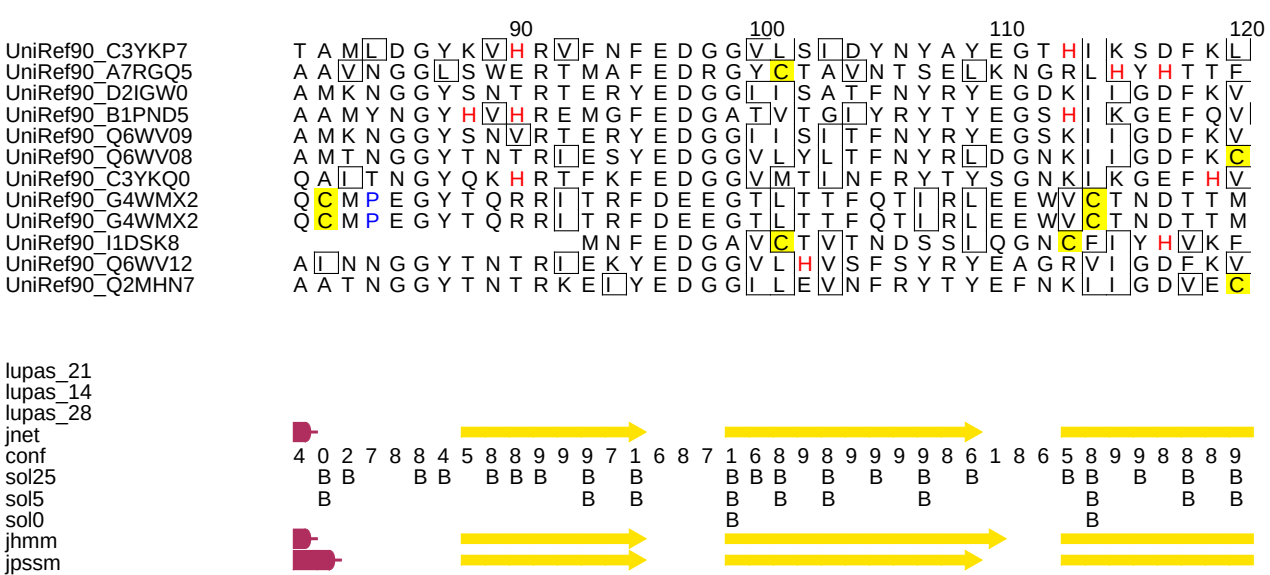

170
180
190
200
QUERY
UniRef90_A7UAL2
UniRef90_B6CTZ6
UniRef90_A8CLT2
UniRef90_Q8T6U0
UniRef90_Q8MU48
UniRef90_A7UAM0
UniRef90_A8CLQ1
UniRef90_A8CLW4
UniRef90_A8CLS7
UniRef90_D1KWT0
UniRef90_Q09HR5
UniRef90_A8CLS2
UniRef90_Q2VTM8
UniRef90_A3F207
UniRef90_A8CLP7
UniRef90_Q95P04
UniRef90_A8CLV1
UniRef90_Q66PW1
UniRef90_Q6R8F5
UniRef90_D1KWS9
UniRef90_Q8T5F0
UniRef90_A8CLT7
UniRef90_H3JQU6
UniRef90_Q8MMA2
UniRef90_Q6R8F3
UniRef90_A8CLR1
UniRef90_B2ZAG1
UniRef90_Q8T6T8
UniRef90_Q6I7B1
UniRef90_B6CTZ7
UniRef90_D1KWU6
UniRef90_Q9U6Y5
UniRef90_A8CLQ6
UniRef90_A8CLW9
UniRef90_A0AQQ7
UniRef90_Q8T5E9
UniRef90_Q8ISF8
UniRef90_Q95W85
UniRef90_A8CLX9
UniRef90_A8CLN8
UniRef90_Q9GZ28
UniRef90_A5YTR6
UniRef90_Q2VFP3
UniRef90_Q66ND1
UniRef90_Q9GTJ7
UniRef90_A8CLU1
UniRef90_B6CTZ2
UniRef90_Q5QIU5
UniRef90_Q9U6Y7
UniRef90_Q86LV7
UniRef90_D1KWU4
UniRef90_A8CLX6
UniRef90_Q66PV6
UniRef90_Q8T5E7
UniRef90_A8CLP2
UniRef90_D0VWW2
UniRef90_UPI0001A48AB2
UniRef90_J9PGT0
UniRef90_T2HNK0
UniRef90_A7S3R2
UniRef90_G1JSF2
UniRef90_Q9BLY9
UniRef90_D1KWU2
UniRef90_Q9BLZ0
UniRef90_Q5ZQQ6
UniRef90_Q963I9
UniRef90_Q6RYS5
UniRef90_D1KWU1
UniRef90_K4DIE3
UniRef90_D7PM04
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_G4WMX3
UniRef90_Q7Z168
UniRef90_A7S1H5
UniRef90_Q6RYS7
UniRef90_I1DSK5
UniRef90_I1DSK7
UniRef90_J9PIH6
UniRef90_B5LIN1
UniRef90_Q2TCH5
UniRef90_C3YRA1
UniRef90_J9PJD5
UniRef90_C3ZLQ0
UniRef90_B1PNB8
UniRef90_C3YRA2
UniRef90_A8QVZ9
UniRef90_UPI00021B6592
UniRef90_C3YRA3
UniRef90_B1PNC5

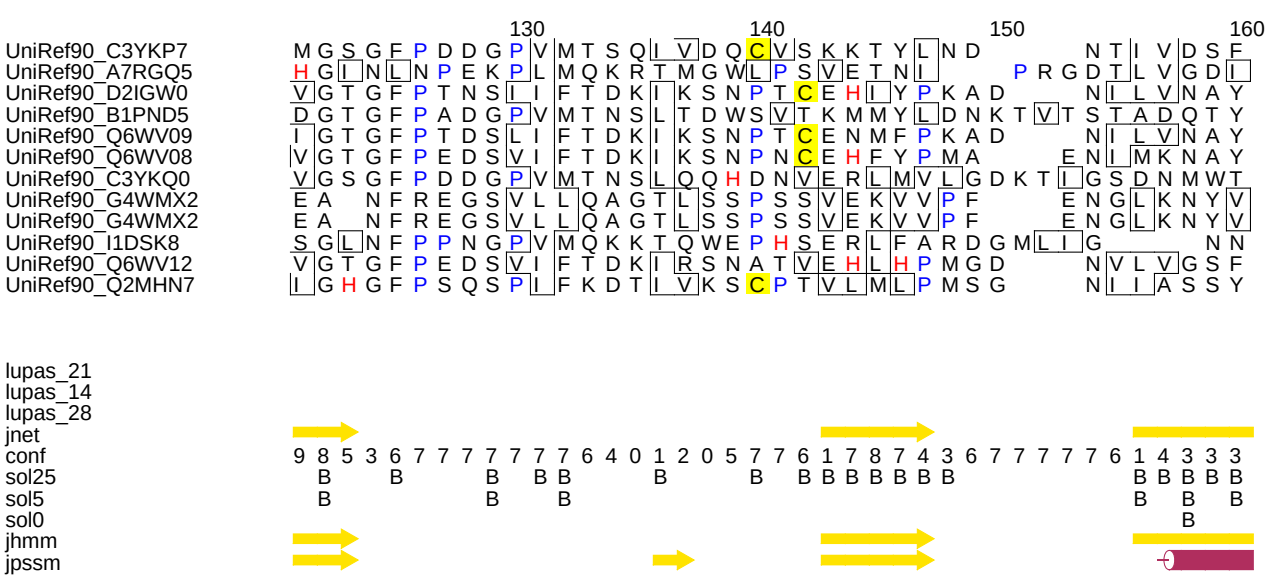

210
220
QUERY A L S K D P N E K R D H M V L L E F V T A A G I T H
UniRef90_A7UAL2 E I S H D K D Y N K V K L Y E H A E A H S G L
UniRef90_B6CTZ6 E I S H D R D Y N K V K L Y E N A V A R Y S L
UniRef90_A8CLT2 E I L K H D K D Y N K V E L Y E N A V A R Y
UniRef90_Q8T6U0 E I S N D S D Y N K V K L Y E H G V A R Y
UniRef90_Q8MU48 E I T H D E D Y N N V K L S E H A E A H S G L
UniRef90_A7UAM0 E I L R H D K D Y T E V K L C E H A E A H S G L
UniRef90_A8CLQ1 E I L S H S K D Y N Q V R L H E H A E A H S G L
UniRef90_A8CLW4 T I S H D K D Y N K V K L R E H A E A H S G L
UniRef90_A8CLS7 E I T K H S K D Y T N V A L Y E A A V A R H
UniRef90_D1KWT0 E I S H D K D Y N K V K L C E H A E A H S G L
UniRef90_Q09HR5 V R S E D G D A V Q I Q E H A V A K Y F T
UniRef90_A8CLS2 S I S H D K D Y T K V K L Y E H A V A H L G L
UniRef90_Q2VTM8 V R S Q D G D A V Q L K E H A V A K C F T
UniRef90_A3F207 E I T S H D K D Y V N V F E D A V A H S G L
UniRef90_A8CLP7 E I D K D Y N N V V V Y E N A V A R
UniRef90_Q95P04 D V T N H N I D Y V E Q C E I S I A R
UniRef90_A8CLV1 N R E D R S D A K H Q K W R L V E N A I A
UniRef90_Q66PW1 E I T S H D K D Y V E L Y E H A V A H S G L
UniRef90_Q6R8F5 V R N N I K K D A K G N I E L I E D A S A R Y
UniRef90_D1KWS9 E I I H H D K G Y N S V T V H E S A E A R H
UniRef90_Q8T5F0 E I T E E N R D Y V K L Q E Y A K A R S G L H
UniRef90_A8CLT7 V R T N L D K A G N H V Q L D E H A V A H
UniRef90_H3JQU6 E R I K E A D K E T Y V E Q H E M A V A R Y
UniRef90_Q8MMA2 E I T E H D E D Y T N V E L H D V S W A R Y
UniRef90_Q6R8F3 V T T I R G N N V E L Q E D A E A R N
UniRef90_A8CLR1 V R K G D G N N T E L I E D A E A R N
UniRef90_B2ZAG1 T R E D R S D A K N Q K W Q L V E H A S A S
UniRef90_Q8T6T8 E I T S Q Q D Y Y N V V E L T E V A E A R Y S S
UniRef90_Q6I7B1 V R T D L G Q T A K G F V K L E E H A E A H
UniRef90_B6CTZ7 E L T K H D K D F T T W D Q Q E A A E G H
UniRef90_D1KWU6 E I S H D K D Y Q K V K V Y E I A E A K Y
UniRef90_Q9U6Y5 T R E D R S D A K N Q K W H L T E H A I A S G
UniRef90_A8CLQ6 V R K T E G N I T K L V E D V E A H N
UniRef90_A8CLW9 V R K K D S N G N T W Q I Q E D A F A H N S E
UniRef90_A0AQQ7 E I V K V S E N G T L F E Q H E S S V A R Y
UniRef90_Q8T5E9 E I Q K H D K D Y N M A V L S E D A V A H N
UniRef90_Q8ISF8 E R L E E S D K E M F V V Q H E H A V A
UniRef90_Q95W85 Q M P R K K K D E Y F E L Y E A S V A R Y
UniRef90_A8CLX9 V R T D L G Q S A K G F T V K L E A H A A A H V
UniRef90_A8CLN8 D L S H N T D A T F E E F E Q R E I A H A H
UniRef90_Q9GZ28 E I M E E V E K G K C Y K Q Y E A A V G R Y
UniRef90_A5YTR6 E K L N I S D D W K T V E Q H E S V V A S Y
UniRef90_Q2VFP3 E I L K A E Q G K F Y E Q Y E S A V A R Y
UniRef90_Q66ND1 T R T D I E D K K V L L E E T A V A H
UniRef90_Q9GTJ7 D M T S H N E D Y T V V E Q Y E K T Q G R H H
UniRef90_A8CLU1 V R T D L P N G K V Q L E E H A A A R
UniRef90_B6CTZ2 T R T D V S D P L K Q Q W Q L T E D A A A C
UniRef90_Q5QIU5 E K D S I S D D E K T I K Q H E H V V A S Y F
UniRef90_Q9U6Y7 V I W N N D K E F M K V E E H E I A V A R H H
UniRef90_Q86LV7 V R N G D G N T V E L E E T A E A R Y
UniRef90_D1KWU4
UniRef90_A8CLX6 T R T N L D K E G L A F K L E E Y A V A R
UniRef90_Q66PV6 V R T D L G K T A K G F M V L V Q H A A A H
UniRef90_Q8T5E7 E K L S V S D D G K T I K Q H E Y V V A S Y
UniRef90_A8CLP2 E R K D L P G S M Q T W R L T E H A A A C
UniRef90_D0VWW2 D I T S H N E D Y V E Q Y E R A E G R H S T
UniRef90_UPI0001A48AB2 S S V V N G T K I G V M E D A I A H
UniRef90_J9PGT0 I F S K D L E E T R D H M C L V E T V R A V N L E
UniRef90_T2HNK0 E K K K V E E G N Y Y E Q H E T A I A
UniRef90_A7S3R2 T R V D N D E H C D T V I Q H E W S E A F S
UniRef90_G1JSF2 K L S K D R D E R R D H M C L V E V V K A V D L
UniRef90_Q9BLY9 E K T Y V E D G G F V E Q H E T A I A
UniRef90_D1KWU2
UniRef90_Q9BLZ0 E K T Y V E E G S F V E Q H E T A I A
UniRef90_Q5ZQQ6 E M L E G R D G G N Y V K L H E R N K A R Y
UniRef90_Q963I9 V K T N V D T A S G Y V V Q H E T A I A A H S T
UniRef90_Q6RYS5 D L S T D P N E R K D H I I I K E V N V A S G I
UniRef90_D1KWU1
UniRef90_K4DIE3
UniRef90_D7PM04 S F G K D P D D D E D H L N I V E V I K A V D L E
UniRef90_G4WMX3 L Q K K D A S D K R D H V I Q R E V S R A W Y A E H
UniRef90_G4WMX3 L Q K K D A S D K R D H V I Q R E V S R A W Y A E H
UniRef90_G4WMX3 L Q K K D A S D K R D H V I Q R E V S R A W Y A E H
UniRef90_G4WMX3 L Q K K D A S D K R D H V I Q R E V S R A W Y A E H
UniRef90_Q7Z168 V K T N V G H G F K T V E Q T E Y A T A H
UniRef90_A7S1H5 T R V E N D A D C N V V L H E W G K A F S
UniRef90_Q6RYS7 T L S K D V T D H R D N M S L V E T V R A V D
UniRef90_I1DSK5 V R T D L G Q S A K G F V K L E E R A A A H
UniRef90_I1DSK7 D V T N H N K D Y V E Q C E I S I A R
UniRef90_J9PIH6 E Y S K D A N E T R D H I V M K E I T K V S H F
UniRef90_B5LIN1 T R E D R S D A K N Q K W Q L V E H A V A S
UniRef90_Q2TCH5 K Q M R D T S D K R D H V C Q R E V A Y A H S V
UniRef90_C3YRA1 E L Q H S N N A E
UniRef90_J9PJD5 E Y S K D A N E T R E H I I M K E Q V H A S H H T
UniRef90_C3ZLQ0 T G S K T E I S L Q E Q Q K A F S
UniRef90_B1PNB8 K H S K T E
UniRef90_C3YRA2 Q H S K T E
UniRef90_A8QVZ9 E V K A S K T E I T L S E K V K A
UniRef90_UPI00021B6592
UniRef90_C3YRA3 K A S D A E I N L K E W Q K A F H
UniRef90_B1PNC5 K H T K T E

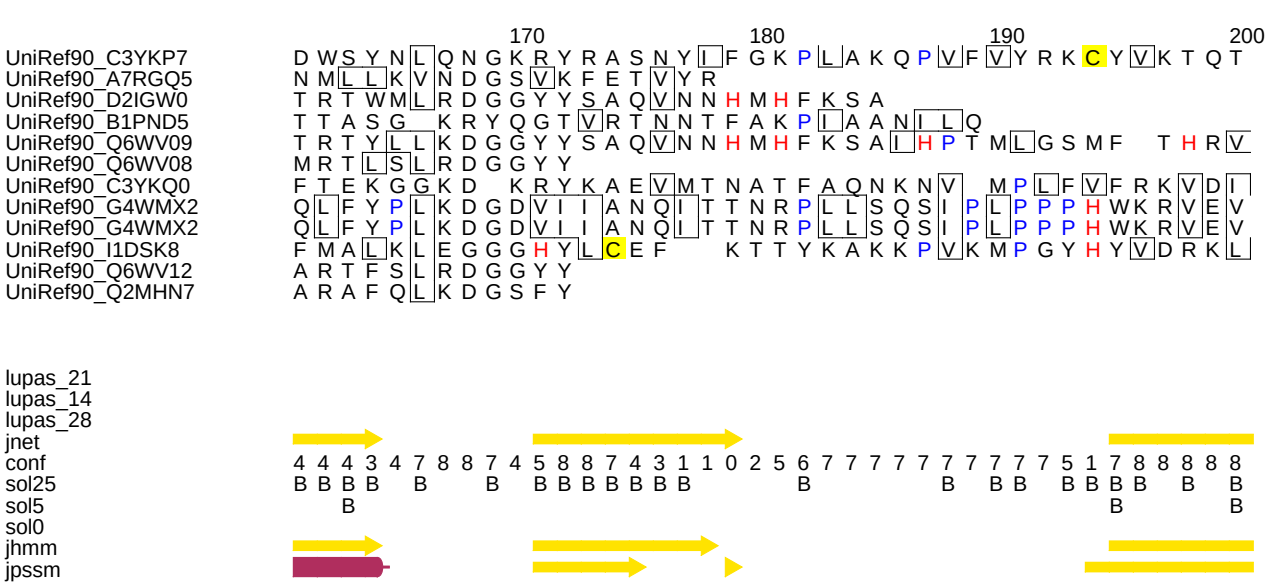

1 10 20 30 40
UniRef90_C3YKP7
UniRef90_A7RGQ5
UniRef90_D2IGW0
UniRef90_B1PND5
UniRef90_Q6WV09
UniRef90_Q6WV08
UniRef90_C3YKQ0
UniRef90_G4WMX2
UniRef90_G4WMX2
UniRef90_I1DSK8
UniRef90_Q6WV12
UniRef90_Q2MHN7
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

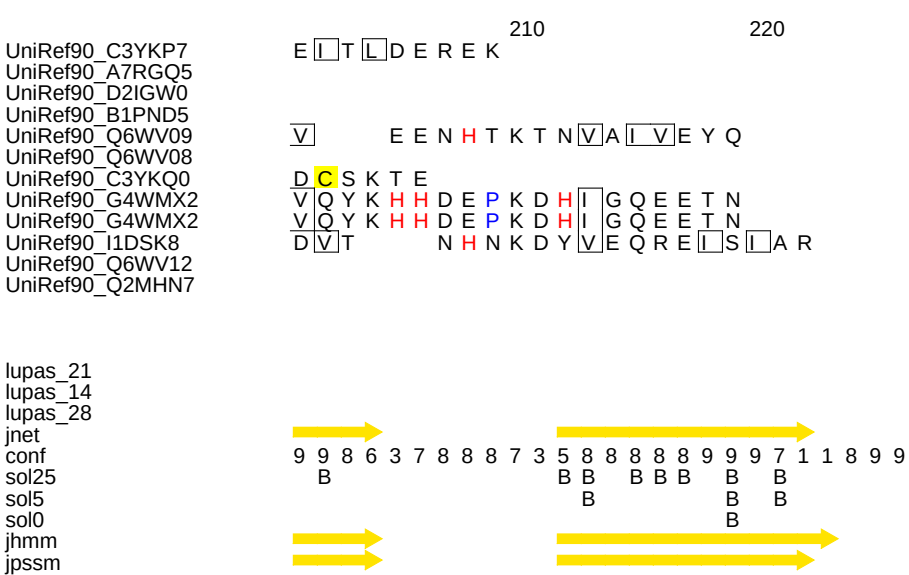

50
60
70
80
UniRef90_C3YKP7
UniRef90_A7RGQ5
UniRef90_D2IGW0
UniRef90_B1PND5
UniRef90_Q6WV09
UniRef90_Q6WV08
UniRef90_C3YKQ0
UniRef90_G4WMX2
UniRef90_G4WMX2
UniRef90_I1DSK8
UniRef90_Q6WV12
UniRef90_Q2MHN7


lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


90
100
110
120
UniRef90_C3YKP7 T A M L D G Y K V H R V F N F E D G G V L S I D Y N Y A Y E G T H I K S D F K L
UniRef90_A7RGQ5 A A V N G G L S W E R T M A F E D R G Y C T A V N T S E L K N G R L H Y H T T F
UniRef90_D2IGW0 A M K N G G Y S N T R T E R Y E D G G I I S A T F N Y R Y E G D K I I G D F K V
UniRef90_B1PND5 A A M Y N G Y H V H R E M G F E D G A T V T G I Y R Y T Y E G S H I K G E F Q V
UniRef90_Q6WV09 A M K N G G Y S N V R T E R Y E D G G I I S I T F N Y R Y E G S K I I G D F K V
UniRef90_Q6WV08 A M T N G G Y T N T R I E S Y E D G G V L Y L T F N Y R L D G N K I I G D F K C
UniRef90_C3YKQ0 Q A I T N G Y Q K H R T F K F E D G G V M T I N F R Y T Y S G N K I K G E F H V
UniRef90_G4WMX2 Q C M P E G Y T Q R R I T R F D E E G T L T T F Q T I R L E E W V C T N D T T M
UniRef90_G4WMX2 Q C M P E G Y T Q R R I T R F D E E G T L T T F Q T I R L E E W V C T N D T T M
UniRef90_I1DSK8 M N F E D G A V C T V T N D S S I Q G N C F I Y H V K F
UniRef90_Q6WV12 A I N N G G Y T N T R I E K Y E D G G V L H V S F S Y R Y E A G R V I G D F K V
UniRef90_Q2MHN7 A A T N G G Y T N T R K E I Y E D G G I L E V N F R Y T Y E F N K I I G D V E C
lupas_21
lupas_14
lupas_28
jnet
conf 4 0 2 7 8 8 4 5 8 8 9 9 7 1 6 8 7 1 6 8 9 8 9 9 9 8 6 1 8 6 5 8 9 9 8 8 8 9
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
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
sol0 B B B B
jhmm
jpssm


130
140
150
160
UniRef90_C3YKP7
UniRef90_A7RGQ5
UniRef90_D2IGW0
UniRef90_B1PND5
UniRef90_Q6WV09
UniRef90_Q6WV08
UniRef90_C3YKQ0
UniRef90_G4WMX2
UniRef90_G4WMX2
UniRef90_I1DSK8
UniRef90_Q6WV12
UniRef90_Q2MHN7
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


170
180
190
200
UniRef90_C3YKP7 D W S Y N L Q N G K R Y R A S N Y I F G K P L A K Q P V F V Y R K C Y V K T Q T
UniRef90_A7RGQ5 N M L L K V N D G S V K F E T V Y R
UniRef90_D2IGW0 T R T W M L R D G G Y Y S A Q V N N H M H F K S A
UniRef90_B1PND5 T T A S G K R Y Q G T V R T N N T F A K P I A A N I L Q
UniRef90_Q6WV09 T R T Y L L K D G G Y Y S A Q V N N H M H F K S A I H P T M L G S M F T H R V
UniRef90_Q6WV08 M R T L S L R D G G Y Y
UniRef90_C3YKQ0 F T E K G G K D K R Y K A E V M T N A T F A Q N K N V M P L F V F R K V D I
UniRef90_G4WMX2 Q L F Y P L K D G D V I I A N Q I T T N R P L L S Q S I P L P P P H W K R V E V
UniRef90_G4WMX2 Q L F Y P L K D G D V I I A N Q I T T N R P L L S Q S I P L P P P H W K R V E V
UniRef90_I1DSK8 F M A L K L E G G G H Y L C E F K T T Y K A K K P V K M P G Y H Y V D R K L
UniRef90_Q6WV12 A R T F S L R D G G Y Y
UniRef90_Q2MHN7 A R A F Q L K D G S F Y
lupas_21
lupas_14
lupas_28
jnet
conf 4 4 4 3 4 7 8 8 7 4 5 8 8 7 4 3 1 1 0 2 5 6 7 7 7 7 7 7 7 7 5 1 7 8 8 8 8 8
sol25 B B B B B B B B B B B B B B B B B B B
sol5 B B B B
sol0
jhmm
jpssm


210
220
UniRef90_C3YKP7 E I T L D E R E K
UniRef90_A7RGQ5
UniRef90_D2IGW0
UniRef90_B1PND5
UniRef90_Q6WV09 V E E N H T K T N V A I V E Y Q
UniRef90_Q6WV08
UniRef90_C3YKQ0 D C S K T E
UniRef90_G4WMX2 V Q Y K H H D E P K D H I G Q E E T N
UniRef90_G4WMX2 V Q Y K H H D E P K D H I G Q E E T N
UniRef90_I1DSK8 D V T N H N K D Y V E Q R E I S I A R
UniRef90_Q6WV12
UniRef90_Q2MHN7
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 8 6 3 7 8 8 8 7 3 5 8 8 8 8 8 9 9 9 7 1 1 8 9 9
sol25 B B B B B B B B
sol5 B B B
sol0 B
jhmm
jpssm