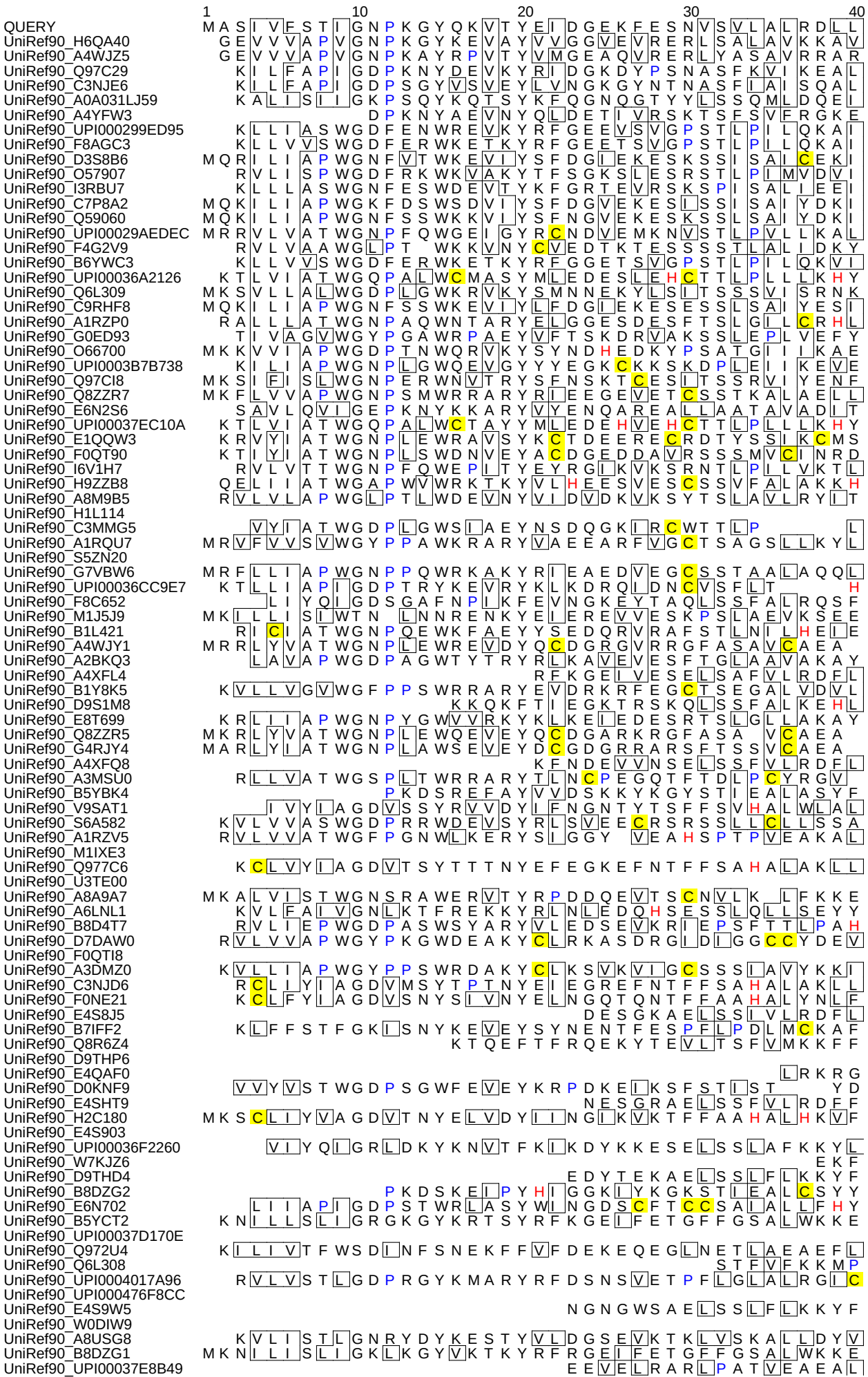
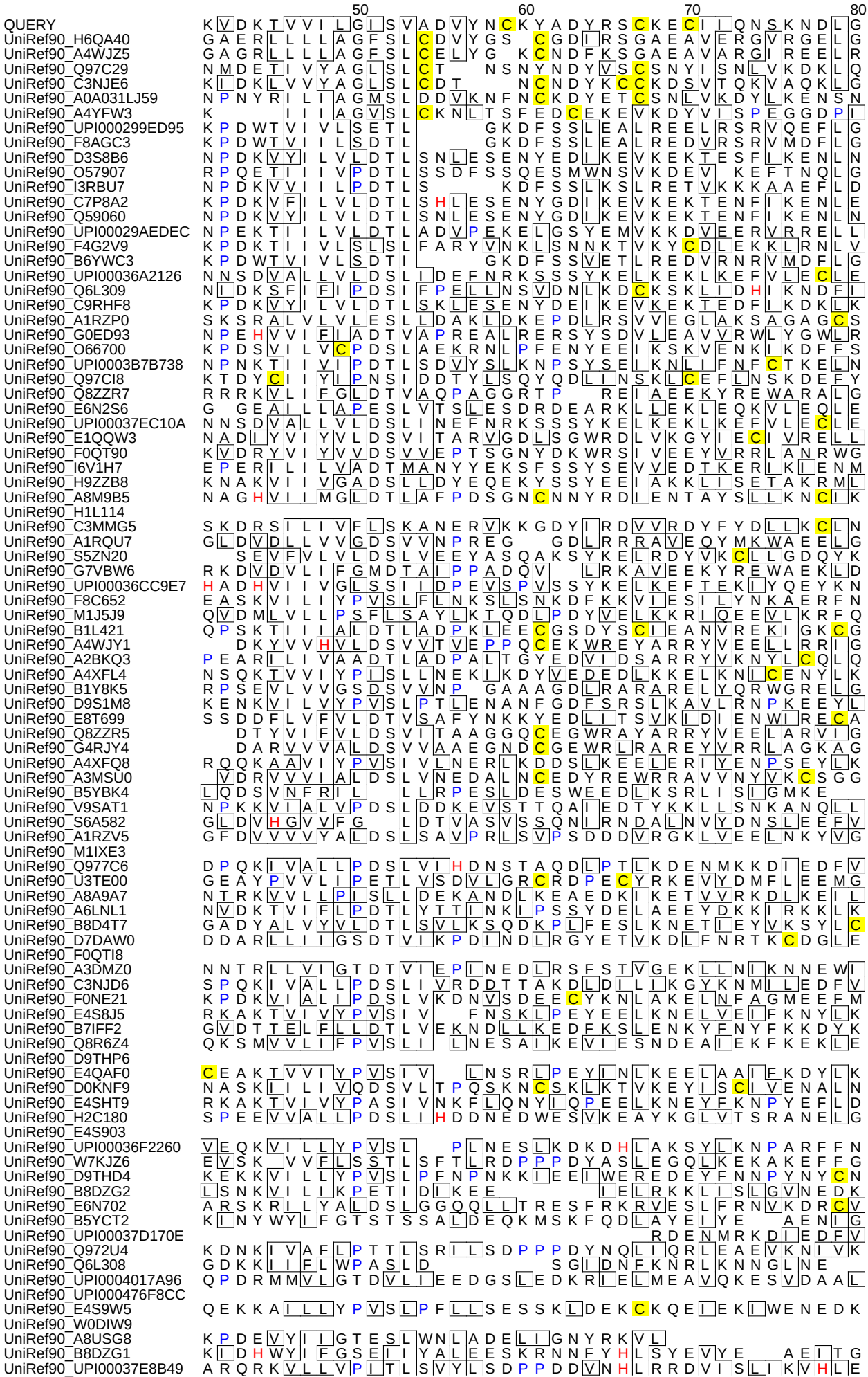
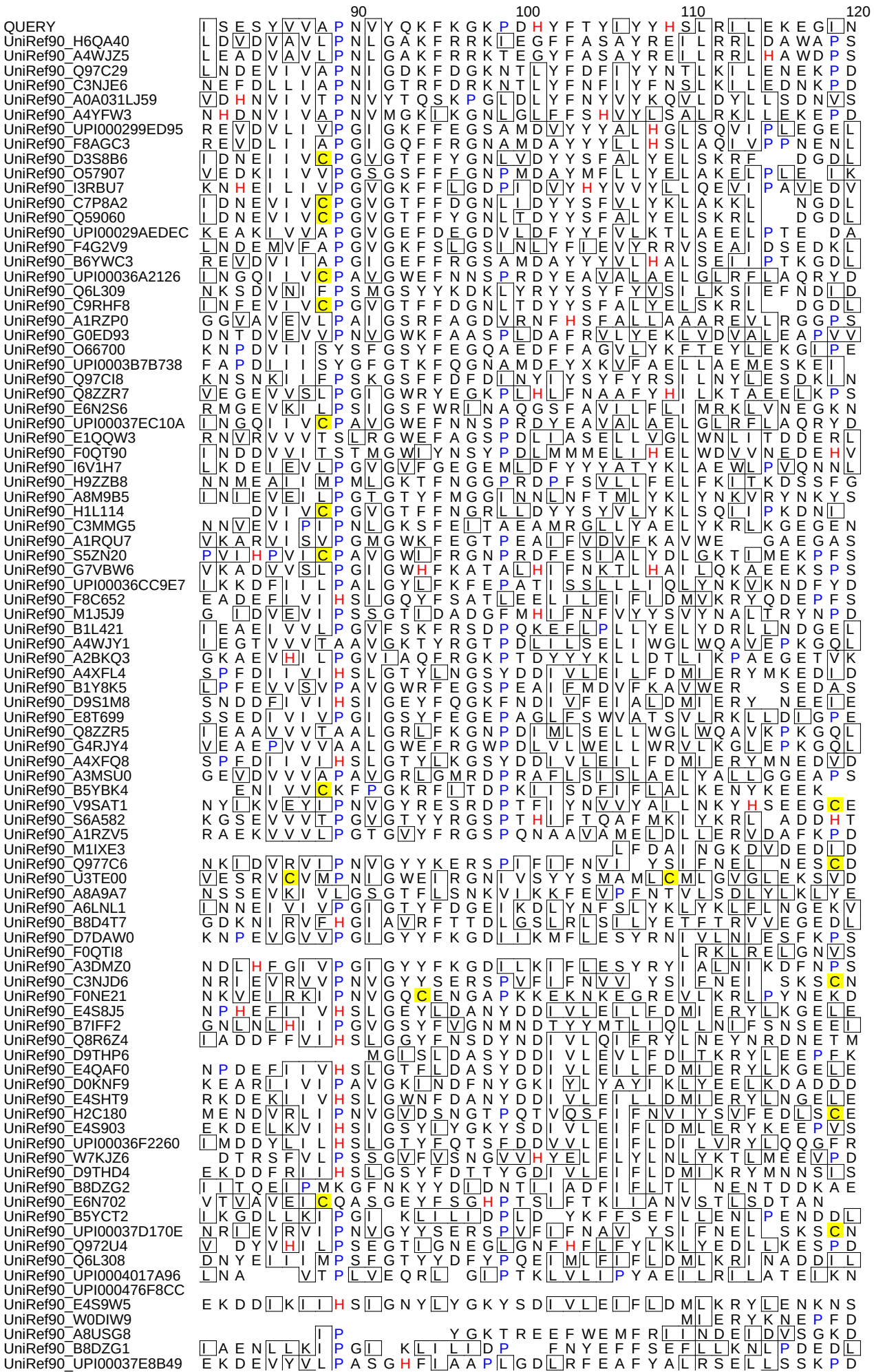
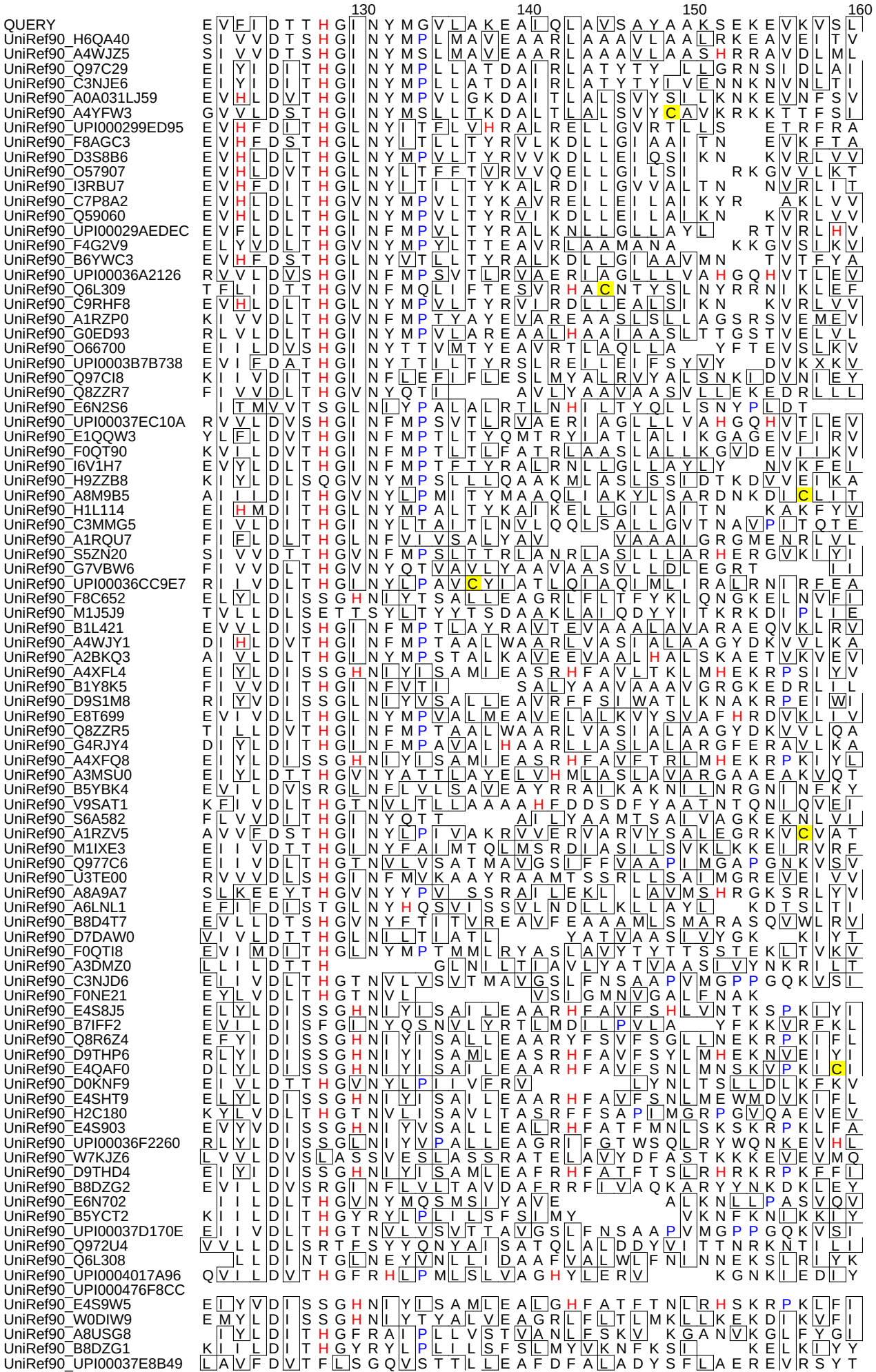
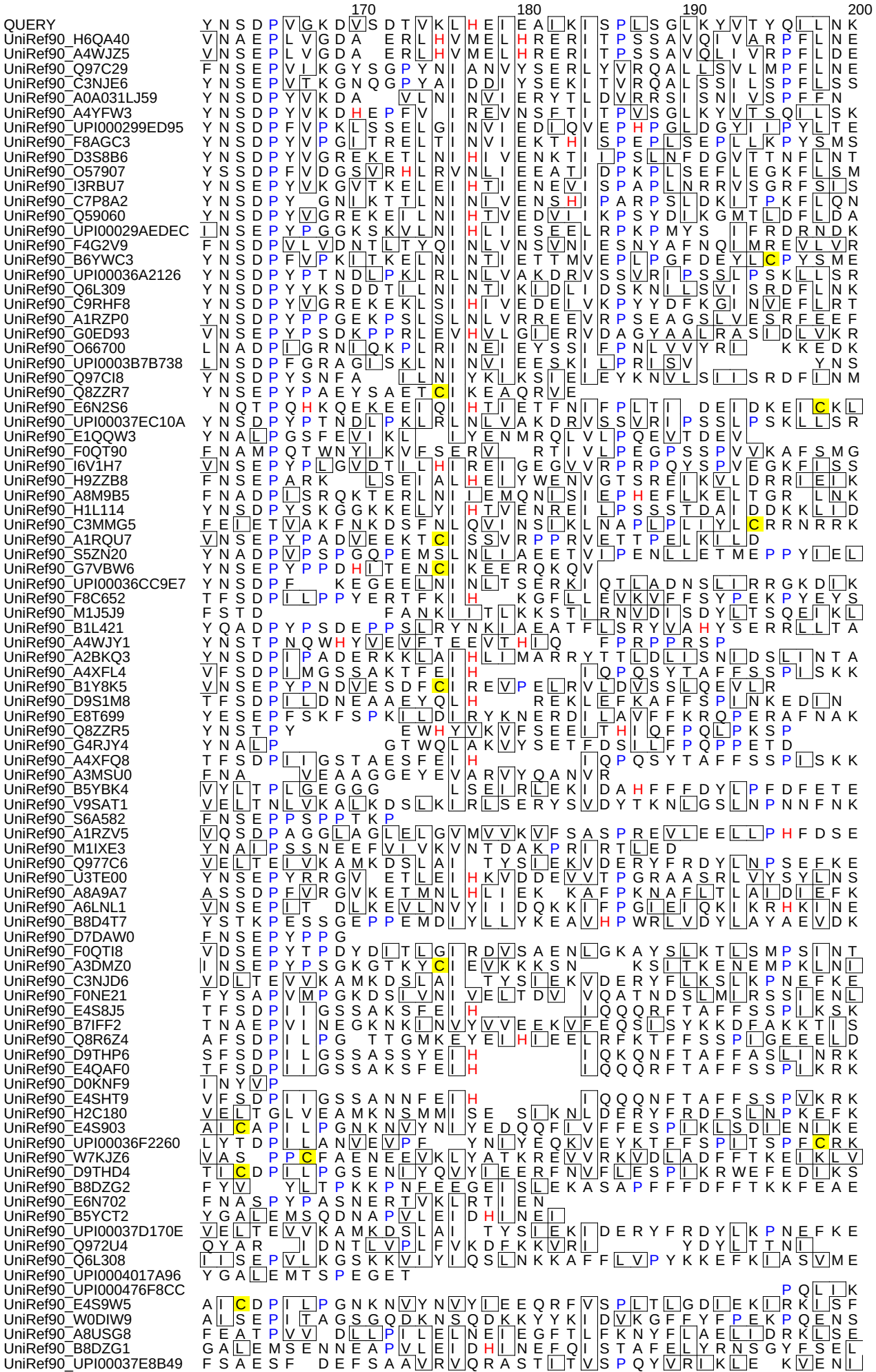

1
10
20
30
40
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

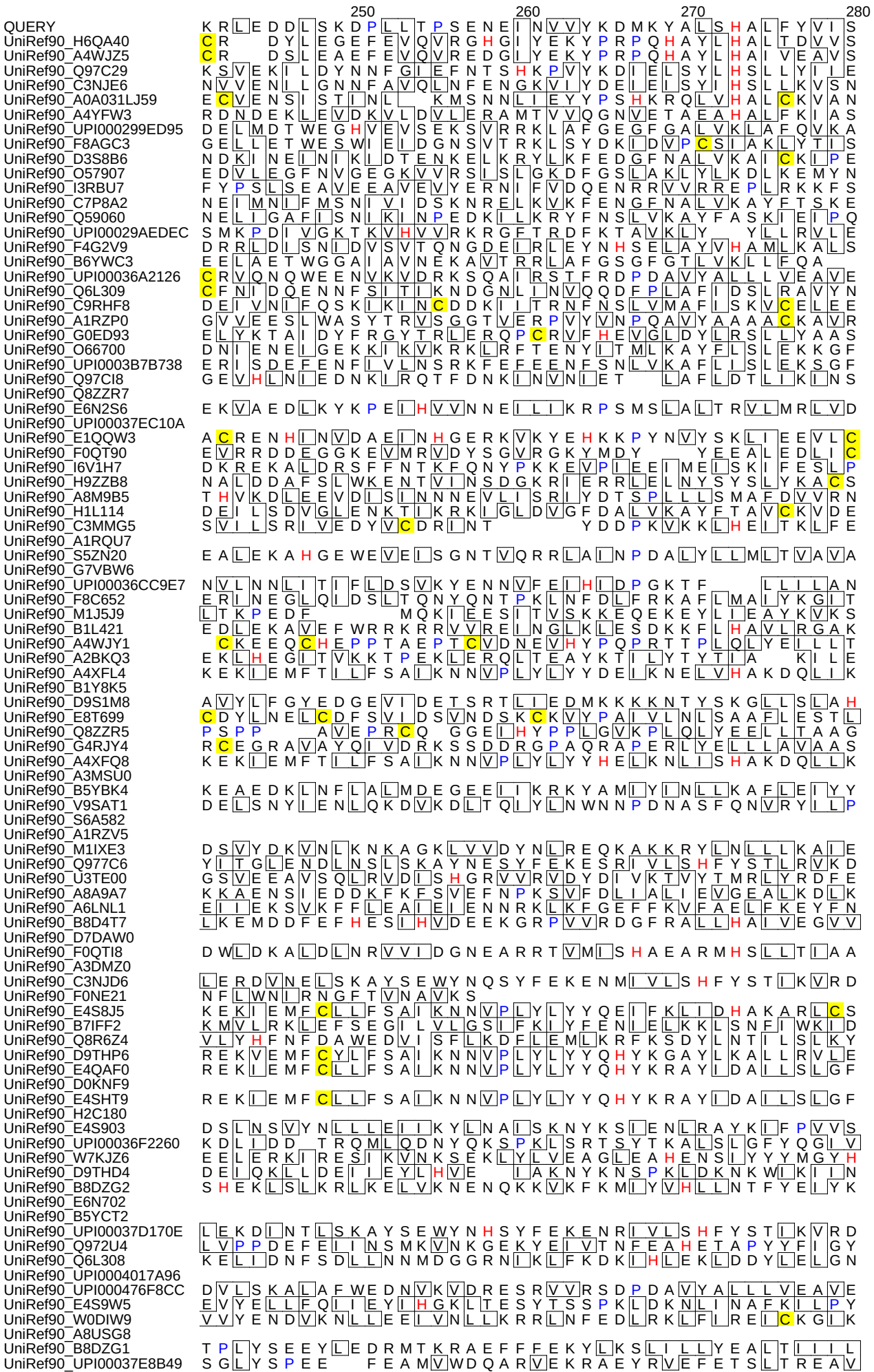

50
60
70
80
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

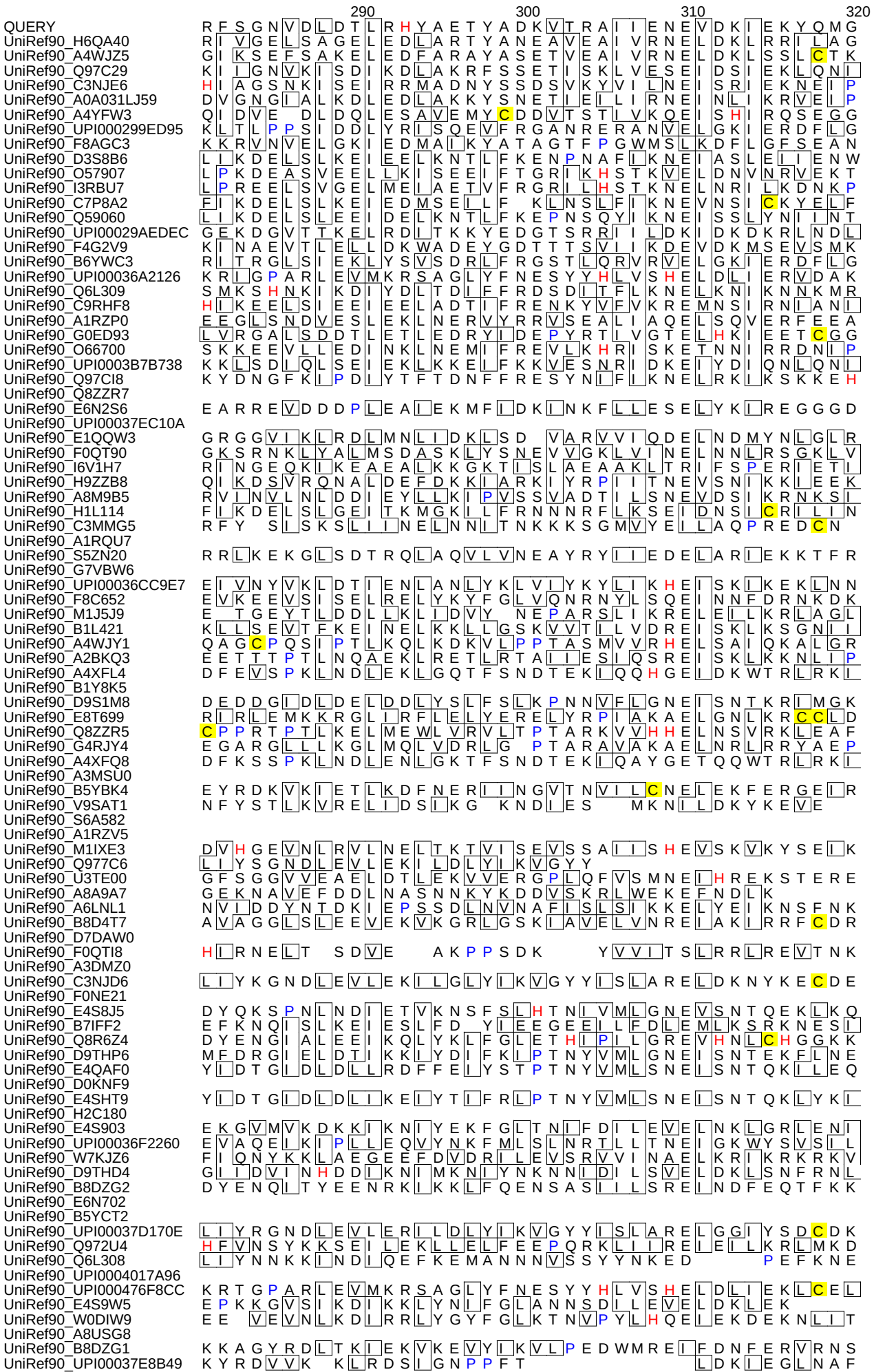

90
100
110
120
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

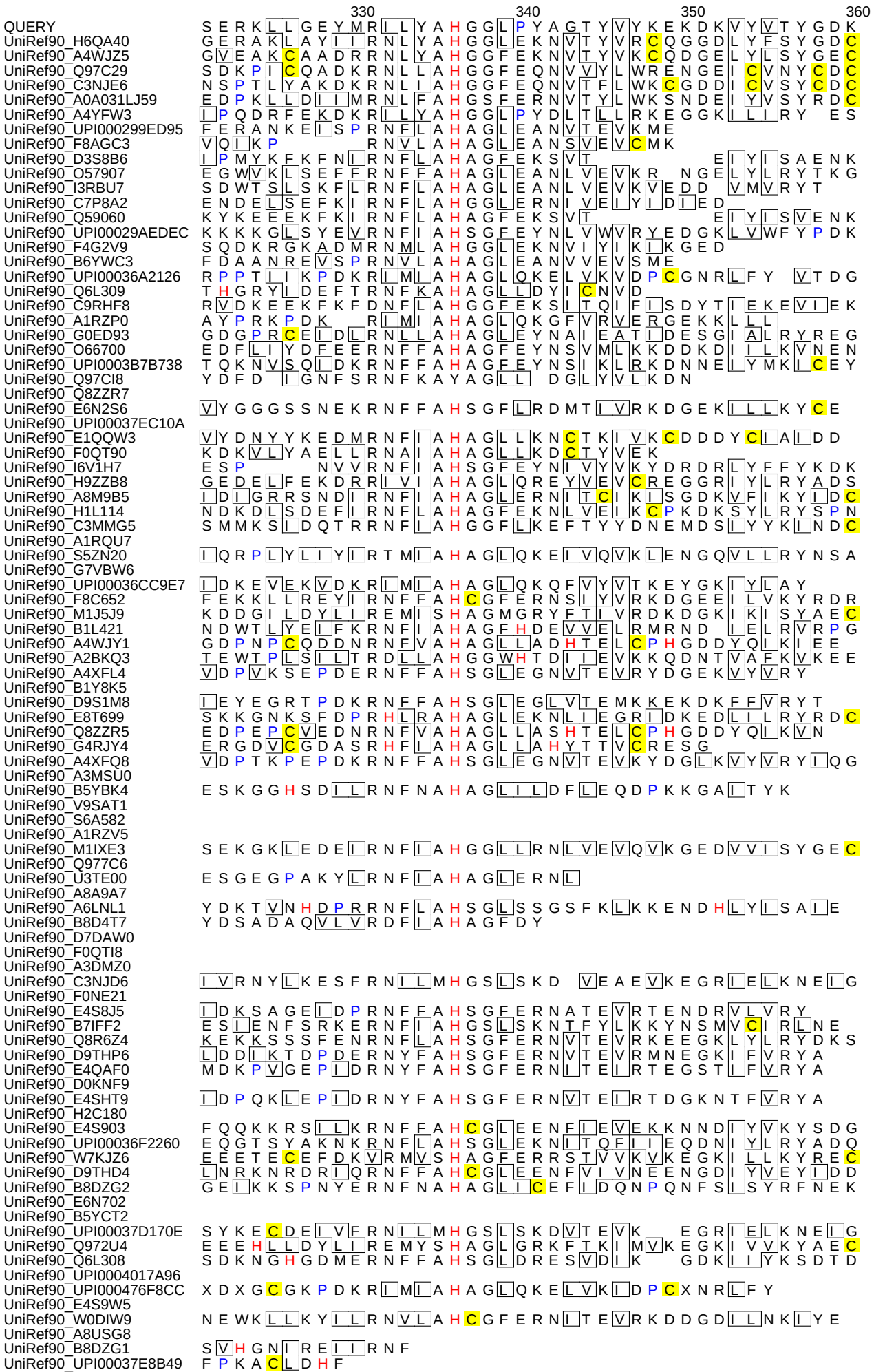

130
140
150
160
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

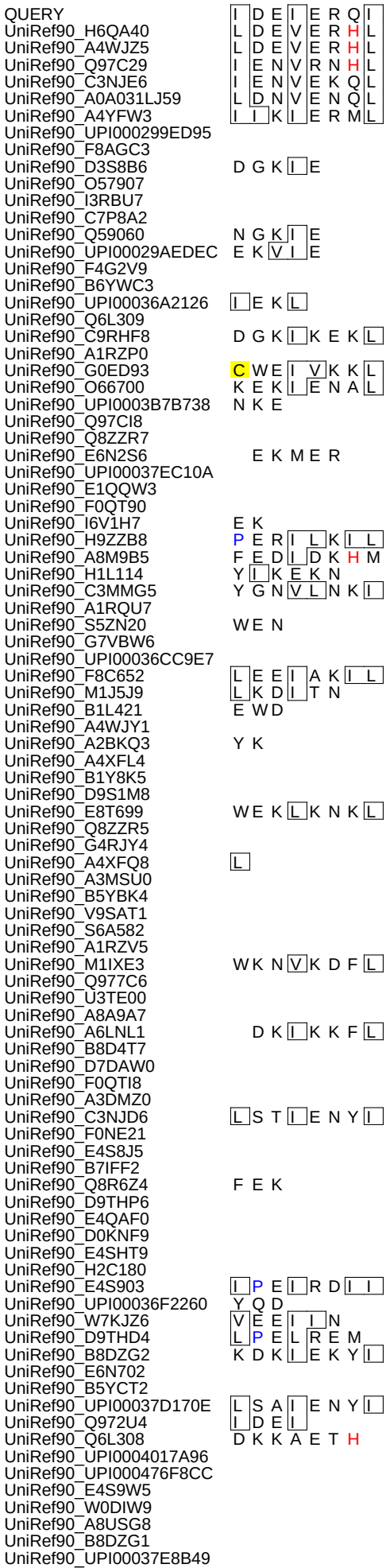

170
180
190
200
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

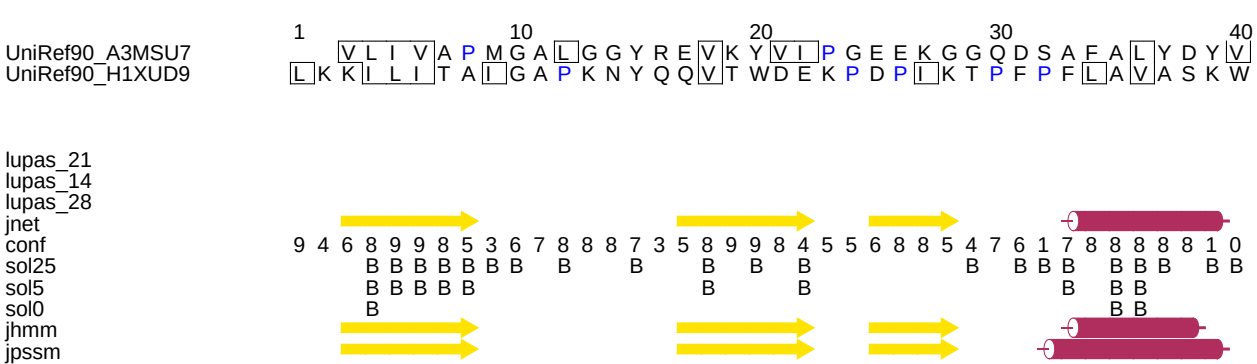
210
220
230
240
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

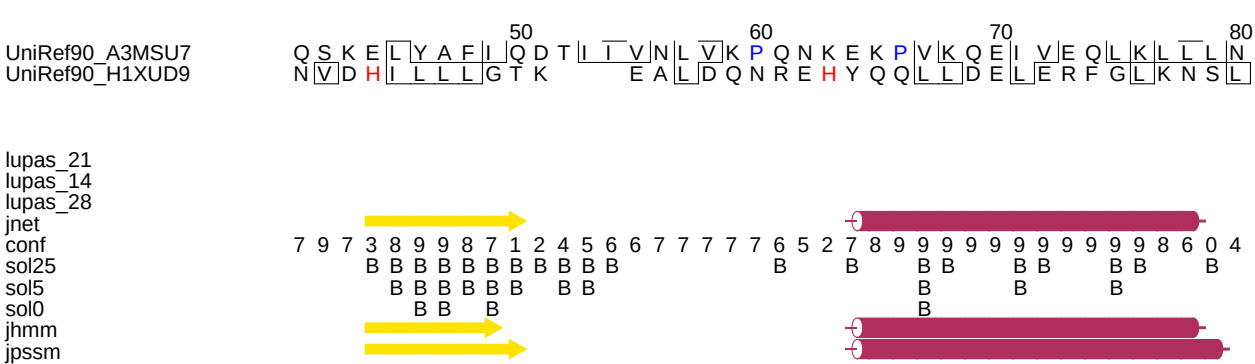

250
260
270
280
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

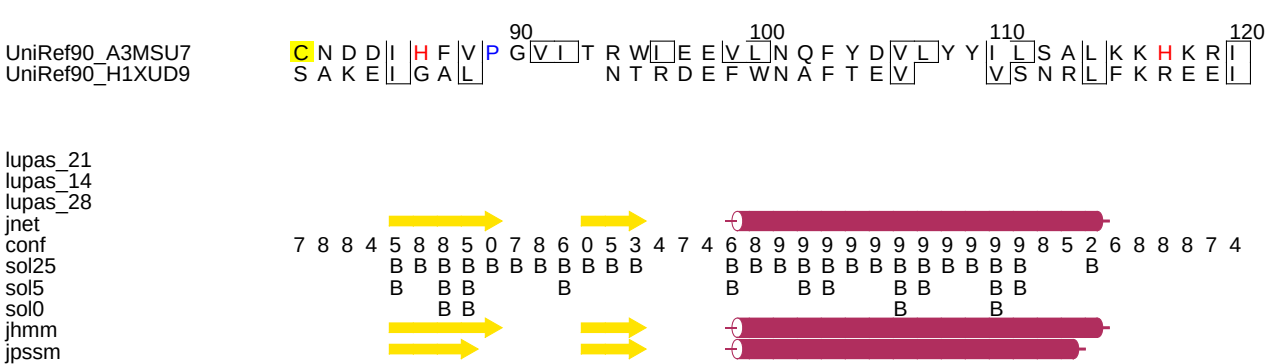

290
300
310
320
QUERY
UniRef90_H6QA40
UniRef90_A4WJZ5
UniRef90_Q97C29
UniRef90_C3NJE6
UniRef90_A0A031LJ59
UniRef90_A4YFW3
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060
UniRef90_UPI00029AEDEC
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126
UniRef90_Q6L309
UniRef90_C9RHF8
UniRef90_A1RZP0
UniRef90_G0ED93
UniRef90_O66700
UniRef90_UPI0003B7B738
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7
UniRef90_H9ZZB8
UniRef90_A8M9B5
UniRef90_H1L114
UniRef90_C3MMG5
UniRef90_A1RQU7
UniRef90_S5ZN20
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652
UniRef90_M1J5J9
UniRef90_B1L421
UniRef90_A4WJY1
UniRef90_A2BKQ3
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903
UniRef90_UPI00036F2260
UniRef90_W7KJZ6
UniRef90_D9THD4
UniRef90_B8DZG2
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E
UniRef90_Q972U4
UniRef90_Q6L308
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

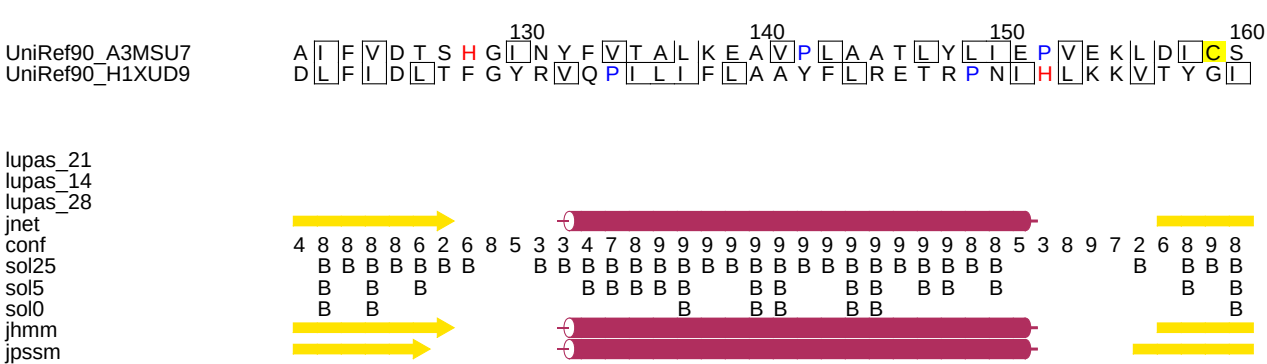

330
340
350
360
QUERY S E R K L L G E Y M R I L Y A H G G L P Y A G T Y V Y K E K D K V Y V T Y G D K
UniRef90_H6QA40 G E R A K L A Y I I R N L Y A H G G L E K N V T Y V R C Q G G D L Y F S Y G D C
UniRef90_A4WJZ5 G V E A K C A A D R R N L Y A H G G F E K N V T Y V K C Q D G E L Y L S Y G E C
UniRef90_Q97C29 S D K P I C Q A D K R N L L A H G G F E Q N V V Y L W R E N G E I C V N Y C D C
UniRef90_C3NJE6 N S P T L Y A K D K R N L I A H G G F E Q N V T F L W K C G D D I C V S Y C D C
UniRef90_A0A031LJ59 E D P K L L D I I M R N L F A H G S F E R N V T Y L W K S N D E I Y V S Y R D C
UniRef90_A4YFW3 I P Q D R F E K D K R I L Y A H G G L P Y D L T L L R K E G G K I L I R Y E S
UniRef90_UPI000299ED95 F E R A N K E I S P R N F L A H A G L E A N V T E V K M E
UniRef90_F8AGC3 V Q I K P R N V L A H A G L E A N S V E V C M K
UniRef90_D3S8B6 I P M Y K F K F N I R N F L A H A G F E K S V T E I Y I S A E N K
UniRef90_O57907 E G W V K L S E F F R N F F A H A G L E A N L V E V K R N G E L Y L R Y T K G
UniRef90_I3RBU7 S D W T S L S K F L R N F L A H A G L E A N L V E V K V E D D V M V R Y T
UniRef90_C7P8A2 E N D E L S E F K I R N F L A H G G L E R N I V E I Y I D I E D
UniRef90_Q59060 K Y K E E E K F K I R N F L A H A G F E K S V T E I Y I S V E N K
UniRef90_UPI00029AEDEC K K K K G L S Y E V R N F I A H S G F E Y N L V W V R Y E D G K L V W F Y P D K
UniRef90_F4G2V9 S Q D K R G K A D M R N M L A H G G L E K N V I Y I K I K G E D
UniRef90_B6YWC3 F D A A N R E V S P R N V L A H A G L E A N V V E V S M E
UniRef90_UPI00036A2126 R P P T I I K P D K R I M I A H A G L Q K E L V K V D P C G N R L F Y V T D G
UniRef90_Q6L309 T H G R Y I D E F T R N F K A H A G L L D Y I C N V D
UniRef90_C9RHF8 R V D K E E K F K F D N F L A H G G F E K S I T Q I F I S D Y T I E K E V I E K
UniRef90_A1RZP0 A Y P R K P D K R I M I A H A G L Q K G F V R V E R G E K K L L L
UniRef90_G0ED93 G D G P R C E I D L R N L L A H A G L E Y N A I E A T I D E S G I A L R Y R E G
UniRef90_O66700 E D F L I Y D F E E R N F F A H A G F E Y N S V M L K K D D K D I I L K V N E N
UniRef90_UPI0003B7B738 T Q K N V S Q I D K R N F F A H A G F E Y N S I K L R K D N N E I Y M K I C E Y
UniRef90_Q97CI8 Y D F D I G N F S R N F K A Y A G L L D G L Y V L K D N
UniRef90_Q8ZZR7
UniRef90_E6N2S6 V Y G G G S S N E K R N F F A H S G F L R D M T I V R K D G E K I L L K Y C E
UniRef90_UPI00037EC10A
UniRef90_E1QQW3 V Y D N Y Y K E D M R N F I A H A G L L K N C T K I V K C D D D Y C I A I D D
UniRef90_F0QT90 K D K V L Y A E L L R N A I A H A G L L K D C T Y V E K
UniRef90_I6V1H7 E S P N V V R N F I A H S G F E Y N I V Y V K Y D R D R L Y F F Y K D K
UniRef90_H9ZZB8 G E D E L F E K D R R I V I A H A G L Q R E Y V E V C R E G G R I Y L R Y A D S
UniRef90_A8M9B5 I D I G R R S N D I R N F I A H A G L E R N I T C I K I S G D K V F I K Y I D C
UniRef90_H1L114 N D K D L S D E F I R N F L A H A G F E K N L V E I K C P K D K S Y L R Y S P N
UniRef90_C3MMG5 S M M K S I D Q T R R N F I A H G G F L K E F T Y Y D N E M D S I Y Y K I N D C
UniRef90_A1RQU7
UniRef90_S5ZN20 I Q R P L Y L I Y I R T M I A H A G L Q K E I V Q V K L E N G Q V L L R Y N S A
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7 I D K E V E K V D K R I M I A H A G L Q K Q F V Y V T K E Y G K I Y L A Y
UniRef90_F8C652 F E K K L L R E Y I R N F F A H C G F E R N S I Y V R K D G E E I L V K Y R D R
UniRef90_M1J5J9 K D D G I L D Y L I R E M I S H A G M G R Y F T I V R D K D G K I K I S Y A E C
UniRef90_B1L421 N D W T L Y E I F K R N F I A H A G F H D E V V E L R M R N D I E L R V R P G
UniRef90_A4WJY1 G D P N P C Q D D N R N F V A H A G L L A D H T E L C P H G D D Y Q I K I E E
UniRef90_A2BKQ3 T E W T P L S I L T R D L L A H G G W H T D I I E V K K Q D N T V A F K V K E E
UniRef90_A4XFL4 V D P V K S E P D E R N F F A H S G L E G N V T E V R Y D G E K V Y V R Y
UniRef90_B1Y8K5
UniRef90_D9S1M8 I E Y E G R T P D K R N F F A H S G L E G L V T E M K K E K D K F F V R Y T
UniRef90_E8T699 S K K G N K S F D P R H L R A H A G L E K N L I E G R I D K E D L I L R Y R D C
UniRef90_Q8ZZR5 E D P E P C V E D N R N F V A H A G L L A S H T E L C P H G D D Y Q I K V N
UniRef90_G4RJY4 E R G D V C G D A S R H F I A H A G L L A H Y T T V C R E S G
UniRef90_A4XFQ8 V D P T K P E P D K R N F F A H S G L E G N V T E V K Y D G L K V Y V R Y I Q G
UniRef90_A3MSU0
UniRef90_B5YBK4 E S K G G H S D I L R N F N A H A G L I L D F L E Q D P K K G A I T Y K
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3 S E K G K L E D E I R N F I A H G G L L R N L V E V Q V K G E D V V I S Y G E C
UniRef90_Q977C6
UniRef90_U3TE00 E S G E G P A K Y L R N F I A H A G L E R N L
UniRef90_A8A9A7
UniRef90_A6LNL1 Y D K T V N H D P R R N F L A H S G L S S G S F K L K K E N D H L Y I S A I E
UniRef90_B8D4T7 Y D S A D A Q V L V R D F I A H A G F D Y
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6 I V R N Y L K E S F R N I L M H G S L S K D V E A E V K E G R I E L K N E I G
UniRef90_F0NE21
UniRef90_E4S8J5 I D K S A G E I D P R N F F A H S G F E R N A T E V R T E N D R V L V R Y
UniRef90_B7IFF2 E S I E N F S R K E R N F I A H G S L S K N T F Y L K K Y N S M V C I R L N E
UniRef90_Q8R6Z4 K E K K S S S F E N R N F L A H S G F E R N V T E V R K E E G K L Y L R Y D K S
UniRef90_D9THP6 L D D I K T D P D E R N Y F A H S G F E R N V T E V R M N E G K I F V R Y A
UniRef90_E4QAF0 M D K P V G E P I D R N Y F A H S G F E R N I T E I R T E G S T I F V R Y A
UniRef90_D0KNF9
UniRef90_E4SHT9 I D P Q K L E P I D R N Y F A H S G F E R N V T E I R T D G K N T F V R Y A
UniRef90_H2C180
UniRef90_E4S903 F Q Q K K R S I L K R N F F A H C G L E E N F I E V E K K N N D I Y V K Y S D G
UniRef90_UPI00036F2260 E Q G T S Y A K N K R N F L A H S G L E K N I T Q F I I E Q D N I Y L R Y A D Q
UniRef90_W7KJZ6 E E E T E C E F D K V R M V S H A G F E R R S T V V K V K E G K I L L K Y R E C
UniRef90_D9THD4 L N R K N R D R I Q R N F F A H C G L E E N F V I V N E E N G D I Y V E Y I D D
UniRef90_B8DZG2 G E I K K S P N Y E R N F N A H A G L I C E F I D Q N P Q N F S I S Y R F N E K
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E S Y K E C D E I V F R N I L M H G S L S K D V T E V K E G R I E L K N E I G
UniRef90_Q972U4 E E E H L L D Y L I R E M Y S H A G L G R K F T K I M V K E G K I V V K Y A E C
UniRef90_Q6L308 S D K N G H G D M E R N F F A H S G L D R E S V D I K G D K I I Y K S D T D
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC X D X G C G K P D K R I M I A H A G L Q K E L V K I D P C X N R L F Y
UniRef90_E4S9W5
UniRef90_W0DIW9 N E W K L L K Y I L R N V L A H C G F E R N I T E V R K D D G D I L N K I Y E
UniRef90_A8USG8
UniRef90_B8DZG1 S V H G N I R E I I R N F
UniRef90_UPI00037E8B49 F P K A C L D H F

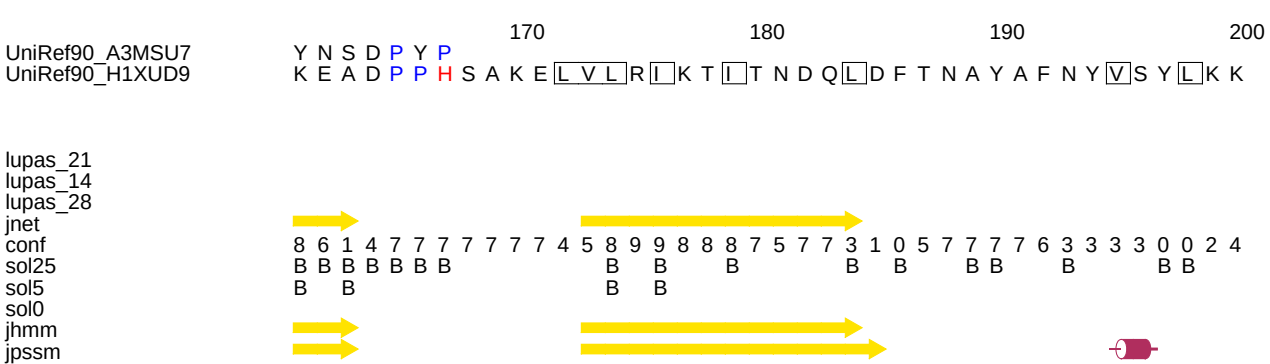

QUERY I D E I E R Q I
UniRef90_H6QA40 L D E V E R H L
UniRef90_A4WJZ5 L D E V E R H L
UniRef90_Q97C29 I E N V R N H L
UniRef90_C3NJE6 I E N V E K Q L
UniRef90_A0A031LJ59 L D N V E N Q L
UniRef90_A4YFW3 I I K I E R M L
UniRef90_UPI000299ED95
UniRef90_F8AGC3
UniRef90_D3S8B6 D G K I E
UniRef90_O57907
UniRef90_I3RBU7
UniRef90_C7P8A2
UniRef90_Q59060 N G K I E
UniRef90_UPI00029AEDEC E K V I E
UniRef90_F4G2V9
UniRef90_B6YWC3
UniRef90_UPI00036A2126 I E K L
UniRef90_Q6L309
UniRef90_C9RHF8 D G K I K E K L
UniRef90_A1RZP0
UniRef90_G0ED93 C W E I V K K L
UniRef90_O66700 K E K I E N A L
UniRef90_UPI0003B7B738 N K E
UniRef90_Q97CI8
UniRef90_Q8ZZR7
UniRef90_E6N2S6 E K M E R
UniRef90_UPI00037EC10A
UniRef90_E1QQW3
UniRef90_F0QT90
UniRef90_I6V1H7 E K
UniRef90_H9ZZB8 P E R I L K I L
UniRef90_A8M9B5 F E D I D K H M
UniRef90_H1L114 Y I K E K N
UniRef90_C3MMG5 Y G N V L N K I
UniRef90_A1RQU7
UniRef90_S5ZN20 W E N
UniRef90_G7VBW6
UniRef90_UPI00036CC9E7
UniRef90_F8C652 L E E I A K I L
UniRef90_M1J5J9 L K D I T N
UniRef90_B1L421 E W D
UniRef90_A4WJY1
UniRef90_A2BKQ3 Y K
UniRef90_A4XFL4
UniRef90_B1Y8K5
UniRef90_D9S1M8
UniRef90_E8T699 W E K L K N K L
UniRef90_Q8ZZR5
UniRef90_G4RJY4
UniRef90_A4XFQ8 L
UniRef90_A3MSU0
UniRef90_B5YBK4
UniRef90_V9SAT1
UniRef90_S6A582
UniRef90_A1RZV5
UniRef90_M1IXE3 W K N V K D F L
UniRef90_Q977C6
UniRef90_U3TE00
UniRef90_A8A9A7
UniRef90_A6LNL1 D K I K K F L
UniRef90_B8D4T7
UniRef90_D7DAW0
UniRef90_F0QTI8
UniRef90_A3DMZ0
UniRef90_C3NJD6 L S T I E N Y I
UniRef90_F0NE21
UniRef90_E4S8J5
UniRef90_B7IFF2
UniRef90_Q8R6Z4 F E K
UniRef90_D9THP6
UniRef90_E4QAF0
UniRef90_D0KNF9
UniRef90_E4SHT9
UniRef90_H2C180
UniRef90_E4S903 I P E I R D I I
UniRef90_UPI00036F2260 Y Q D
UniRef90_W7KJZ6 V E E I I N
UniRef90_D9THD4 L P E L R E M
UniRef90_B8DZG2 K D K I E K Y I
UniRef90_E6N702
UniRef90_B5YCT2
UniRef90_UPI00037D170E L S A I E N Y I
UniRef90_Q972U4 I D E I
UniRef90_Q6L308 D K K A E T H
UniRef90_UPI0004017A96
UniRef90_UPI000476F8CC
UniRef90_E4S9W5
UniRef90_W0DIW9
UniRef90_A8USG8
UniRef90_B8DZG1
UniRef90_UPI00037E8B49

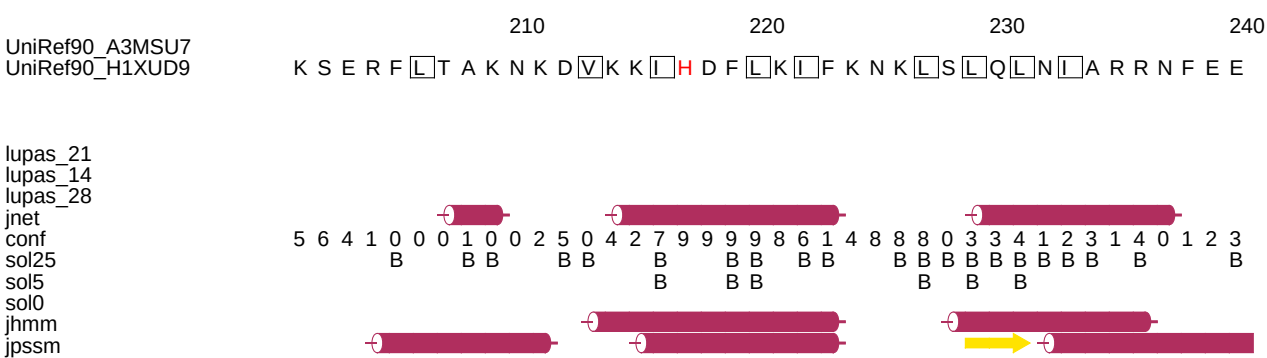

1 10 20 30 40
UniRef90_A3MSU7 V L I V A P M G A L G G Y R E V K Y V I P G E E K G G Q D S A F A L Y D Y V
UniRef90_H1XUD9 L K K I L I T A I G A P K N Y Q Q V T W D E K P D P I K T P F P F L A V A S K W
lupas_21
lupas_14
lupas_28
jnet
conf 9 4 6 8 9 9 8 5 3 6 7 8 8 8 7 3 5 8 9 9 8 4 5 5 6 8 8 5 4 7 6 1 7 8 8 8 8 8 1 0
sol25 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
sol0 B B B
jhmm
jpssm

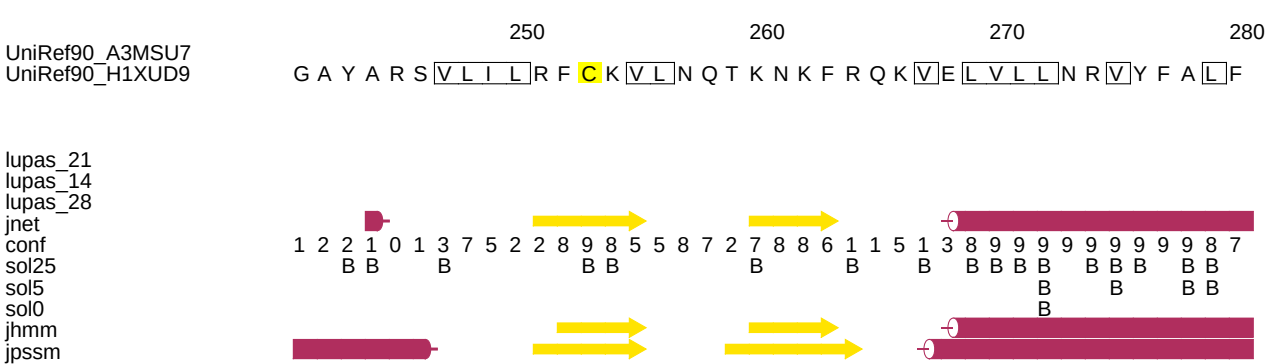

50 60 70 80
UniRef90_A3MSU7 Q S K E L Y A F I Q D T I I V N L V K P Q N K E K P V K Q E I V E Q L K L L L N
UniRef90_H1XUD9 N V D H I L L L G T K E A L D Q N R E H Y Q Q L L D E L E R F G L K N S L
lupas_21
lupas_14
lupas_28
jnet
conf 7 9 7 3 8 9 9 8 7 1 2 4 5 6 6 7 7 7 7 7 6 5 2 7 8 9 9 9 9 9 9 9 9 9 9 9 8 6 0 4
sol25 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
sol0 B B B B
jhmm
jpssm

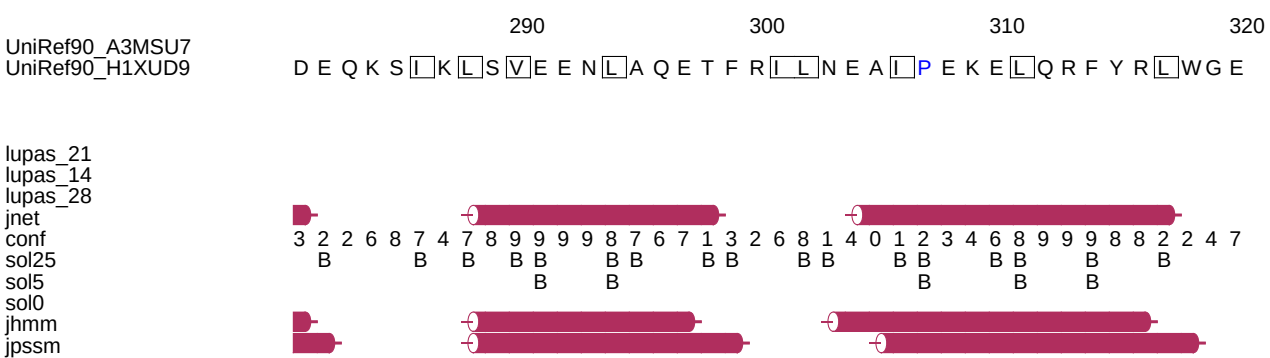

90
100
110
120
UniRef90_A3MSU7
UniRef90_H1XUD9
C N D D I H F V P G V I T R W I E E V L N Q F Y D V L Y Y I L S A L K K H K R I
S A K E I G A L N T R D E F W N A F T E V V S N R L F K R E E I
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm
7 8 8 4 5 8 8 5 0 7 8 6 0 5 3 4 7 4 6 8 9 9 9 9 9 9 9 9 8 5 2 6 8 8 8 7 4
B B B

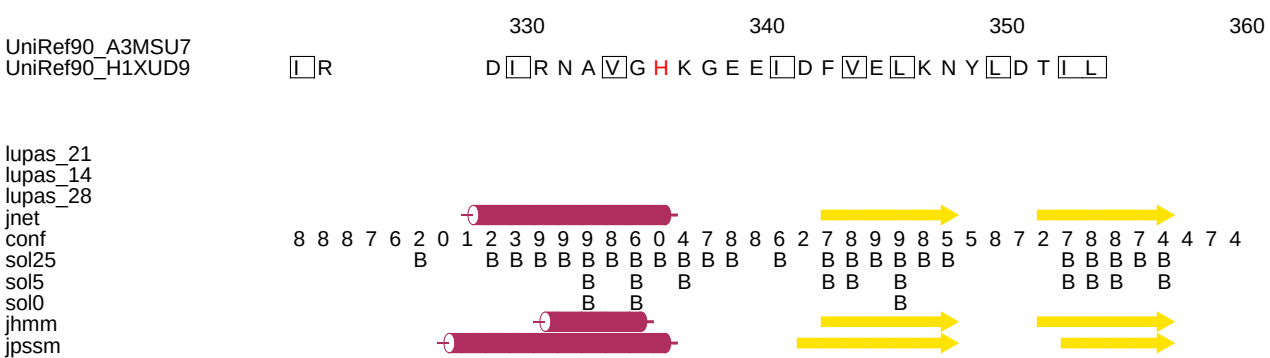

130
140
150
160
UniRef90_A3MSU7 A I F V D T S H G I N Y F V T A L K E A V P L A A T L Y L I E P V E K L D I C S
UniRef90_H1XUD9 D L F I D L T F G Y R V Q P I L I F L A A Y F L R E T R P N I H L K K V T Y G I
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

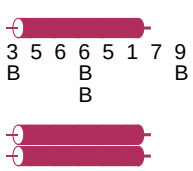

170
180
190
200
UniRef90_A3MSU7 Y N S D P Y P
UniRef90_H1XUD9 K E A D P P H S A K E L V L R I K T I T N D Q L D F T N A Y A F N Y V S Y L K K
lupas_21
lupas_14
lupas_28
jnet
conf 8 6 1 4 7 7 7 7 7 7 7 4 5 8 9 9 8 8 8 7 5 7 7 3 1 0 5 7 7 7 7 6 3 3 3 3 0 0 2 4
sol25 B B B B B B B B B B B B B B B B B B
sol5 B B B B
sol0
jhmm
jpssm


210
220
230
240
UniRef90_A3MSU7
UniRef90_H1XUD9
K S E R F L T A K N K D V K K I H D F L K I F K N K L S L Q L N I A R R N F E E
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


250
260
270
280
UniRef90_A3MSU7
UniRef90_H1XUD9
G A Y A R S V L I L R F C K V L N Q T K N K F R Q K V E L V L L N R V Y F A L F
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


290
300
310
320
UniRef90_A3MSU7
UniRef90_H1XUD9
D E Q K S I K L S V E E N L A Q E T F R I L N E A I P E K E L Q R F Y R L W G E
lupas_21
lupas_14
lupas_28
jnet
conf
3 2 2 6 8 7 4 7 8 9 9 9 9 8 7 6 7 1 3 2 6 8 1 4 0 1 2 3 4 6 8 9 9 9 8 8 2 2 4 7
sol25
sol5
sol0
jhmm
jpssm


330
340
350
360
UniRef90_A3MSU7
UniRef90_H1XUD9
I R
D I R N A V G H K G E E I D F V E L K N Y L D T I L
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

UniRef90_A3MSU7
UniRef90_H1XUD9

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm