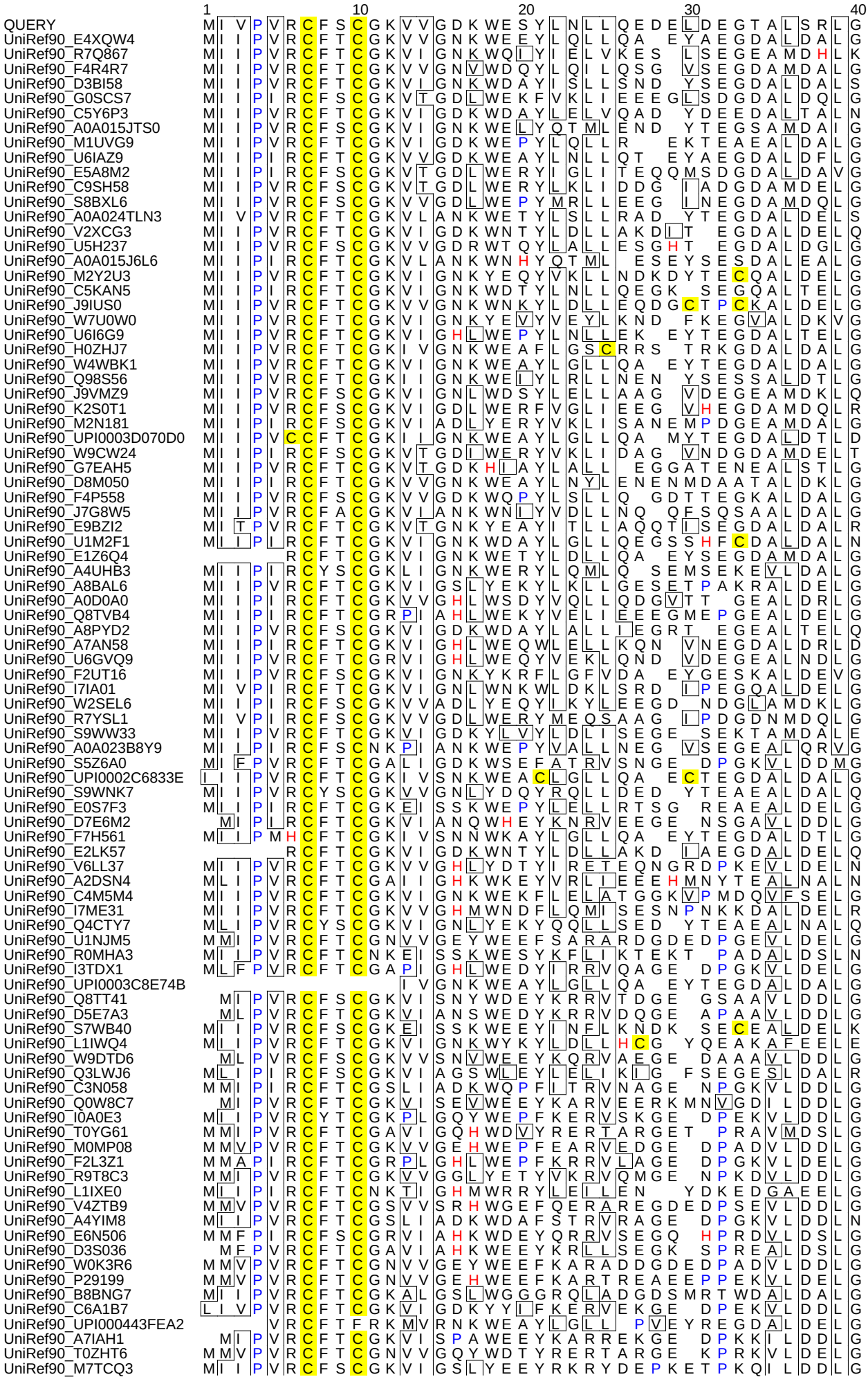
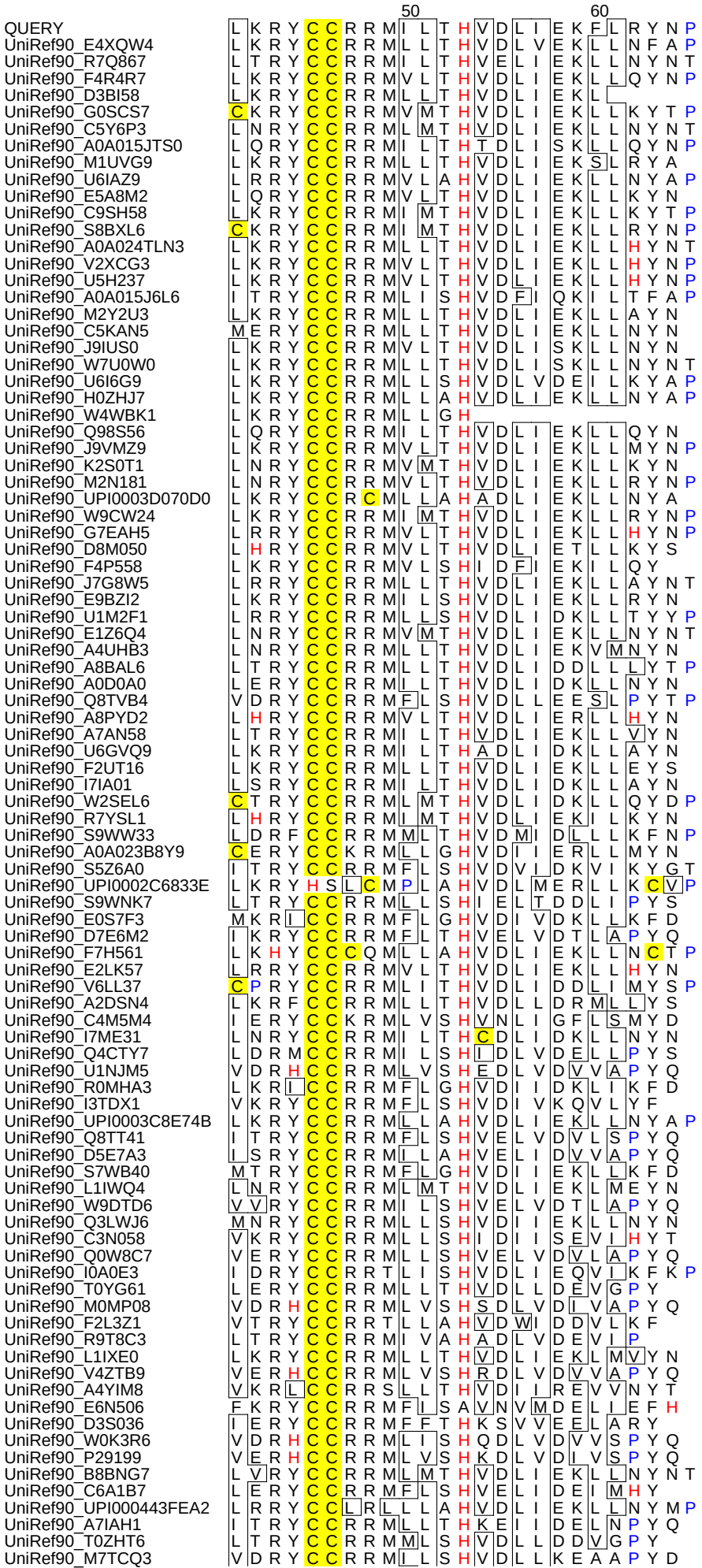
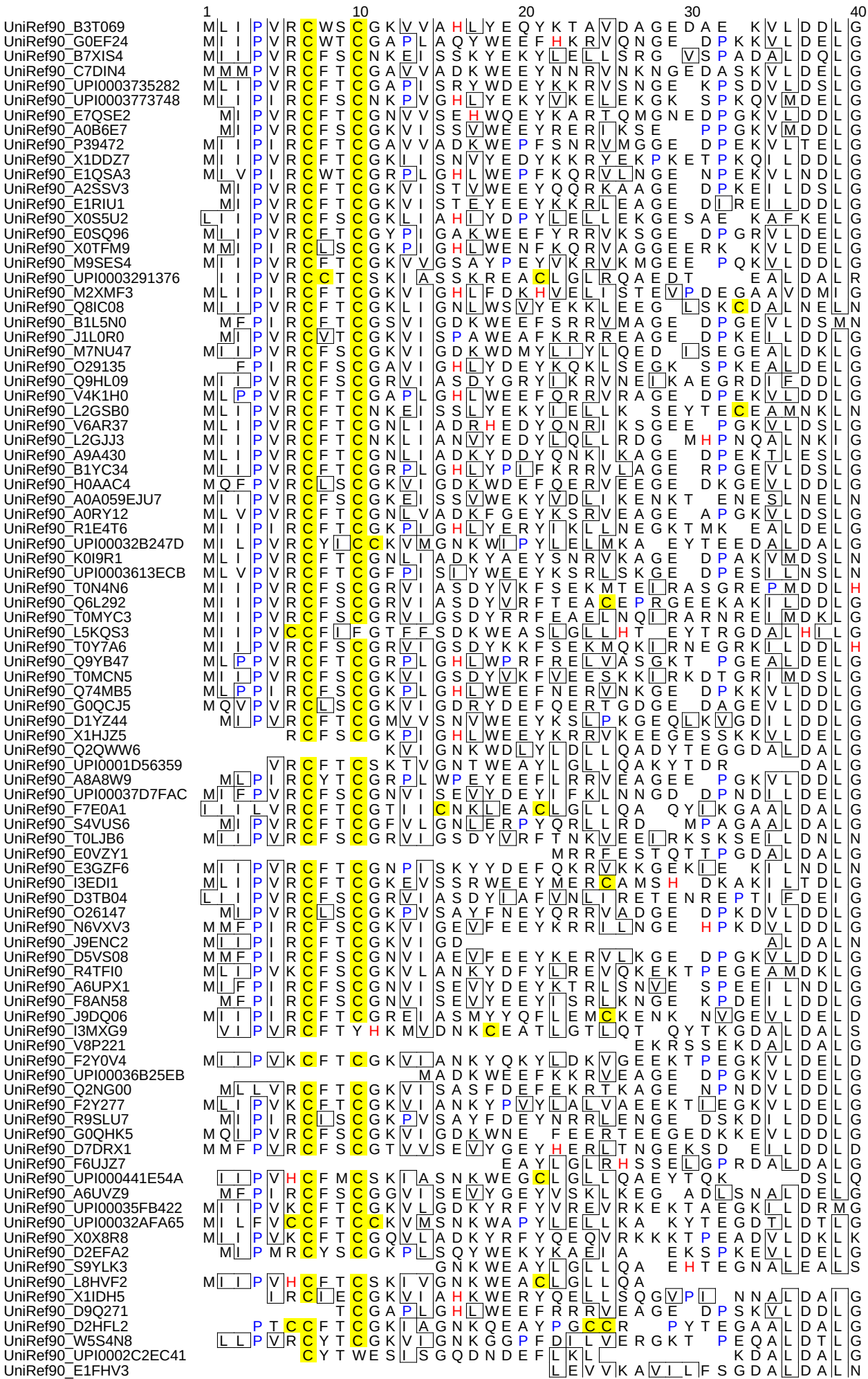
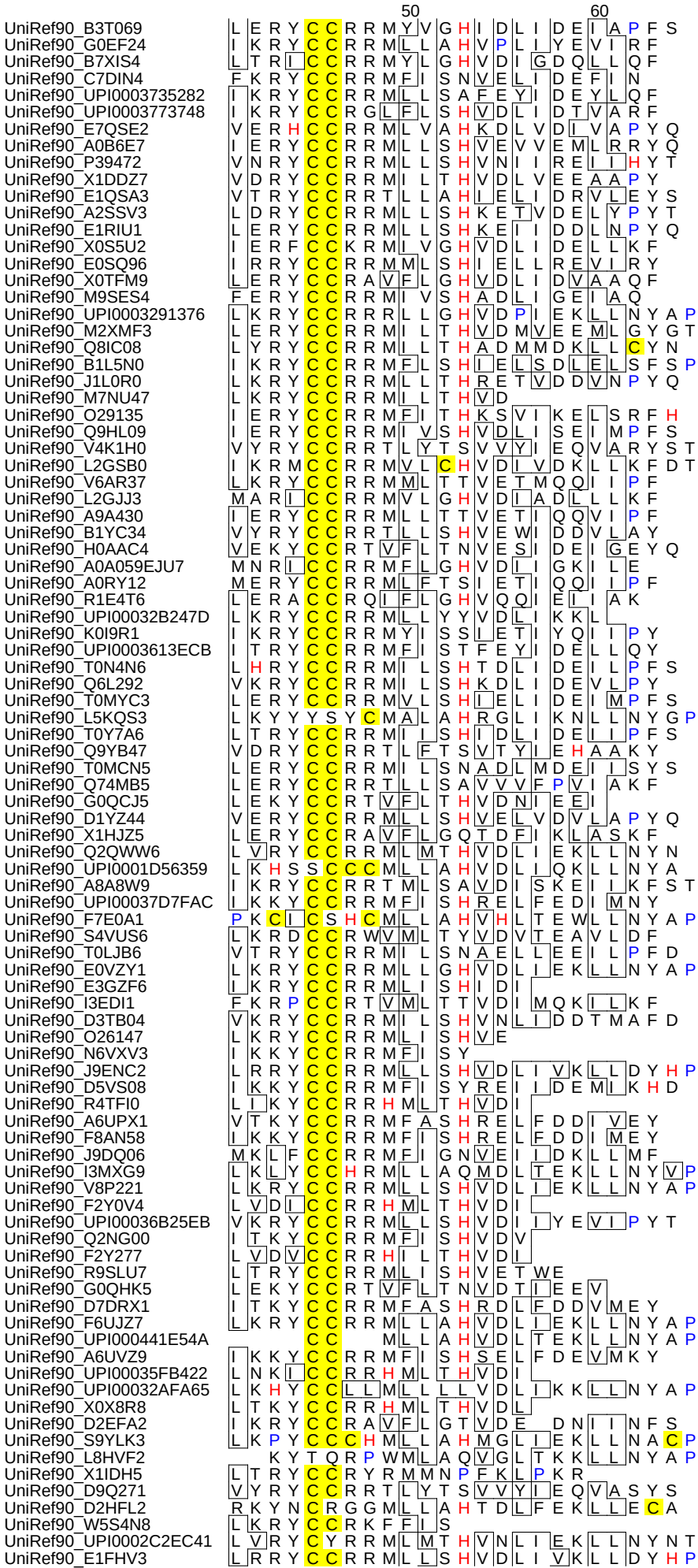
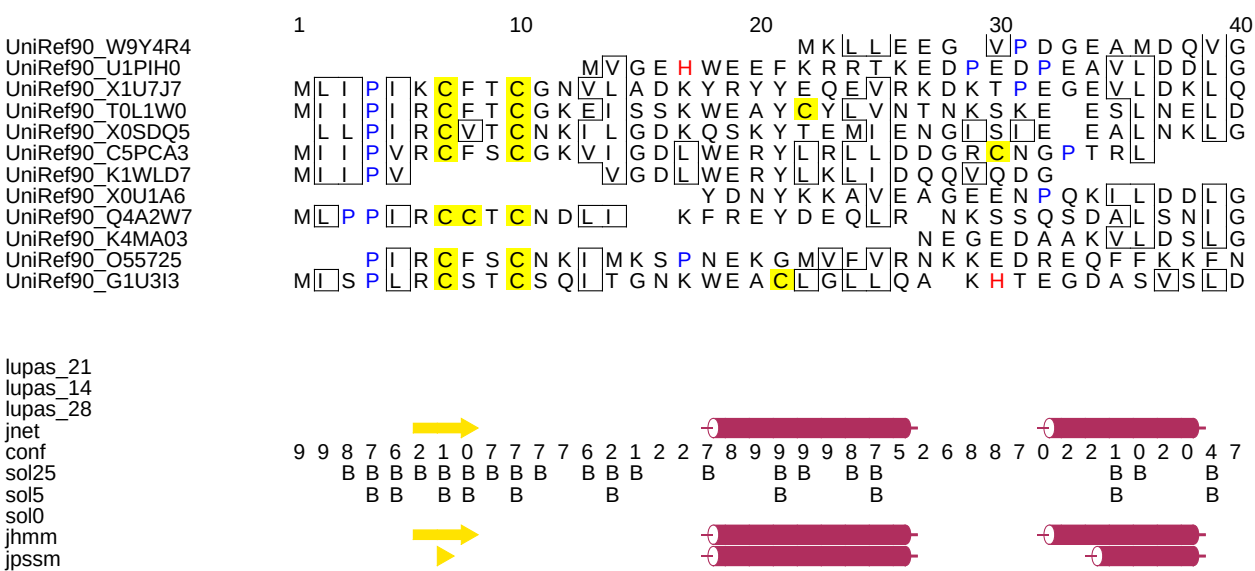
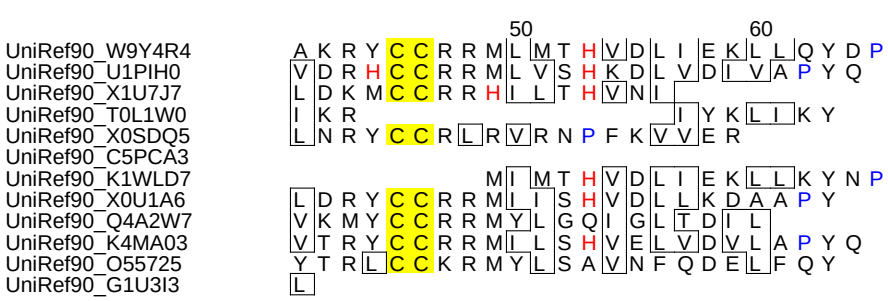

1
10
20
30
40
QUERY
UniRef90_E4XQW4
UniRef90_R7Q867
UniRef90_F4R4R7
UniRef90_D3BI58
UniRef90_G0SCS7
UniRef90_C5Y6P3
UniRef90_A0A015JTS0
UniRef90_M1UVG9
UniRef90_U6IAZ9
UniRef90_E5A8M2
UniRef90_C9SH58
UniRef90_S8BXL6
UniRef90_A0A024TLN3
UniRef90_V2XCG3
UniRef90_U5H237
UniRef90_A0A015J6L6
UniRef90_M2Y2U3
UniRef90_C5KAN5
UniRef90_J9IUS0
UniRef90_W7U0W0
UniRef90_U6I6G9
UniRef90_H0ZHJ7
UniRef90_W4WBK1
UniRef90_Q98S56
UniRef90_J9VMZ9
UniRef90_K2S0T1
UniRef90_M2N181
UniRef90_UPI0003D070D0
UniRef90_W9CW24
UniRef90_G7EAH5
UniRef90_D8M050
UniRef90_F4P558
UniRef90_J7G8W5
UniRef90_E9BZI2
UniRef90_U1M2F1
UniRef90_E1Z6Q4
UniRef90_A4UHB3
UniRef90_A8BAL6
UniRef90_A0D0A0
UniRef90_Q8TVB4
UniRef90_A8PYD2
UniRef90_A7AN58
UniRef90_U6GVQ9
UniRef90_F2UT16
UniRef90_I7IA01
UniRef90_W2SEL6
UniRef90_R7YSL1
UniRef90_S9WW33
UniRef90_A0A023B8Y9
UniRef90_S5Z6A0
UniRef90_UPI0002C6833E
UniRef90_S9WNK7
UniRef90_E0S7F3
UniRef90_D7E6M2
UniRef90_F7H561
UniRef90_E2LK57
UniRef90_V6LL37
UniRef90_A2DSN4
UniRef90_C4M5M4
UniRef90_I7ME31
UniRef90_Q4CTY7
UniRef90_U1NJM5
UniRef90_R0MHA3
UniRef90_I3TDX1
UniRef90_UPI0003C8E74B
UniRef90_Q8TT41
UniRef90_D5E7A3
UniRef90_S7WB40
UniRef90_L1IWQ4
UniRef90_W9DTD6
UniRef90_Q3LWJ6
UniRef90_C3N058
UniRef90_Q0W8C7
UniRef90_I0A0E3
UniRef90_T0YG61
UniRef90_M0MP08
UniRef90_F2L3Z1
UniRef90_R9T8C3
UniRef90_L1IXE0
UniRef90_V4ZTB9
UniRef90_A4YIM8
UniRef90_E6N506
UniRef90_D3S036
UniRef90_W0K3R6
UniRef90_P29199
UniRef90_B8BNG7
UniRef90_C6A1B7
UniRef90_UPI000443FEA2
UniRef90_A7IAH1
UniRef90_T0ZHT6
UniRef90_M7TCQ3

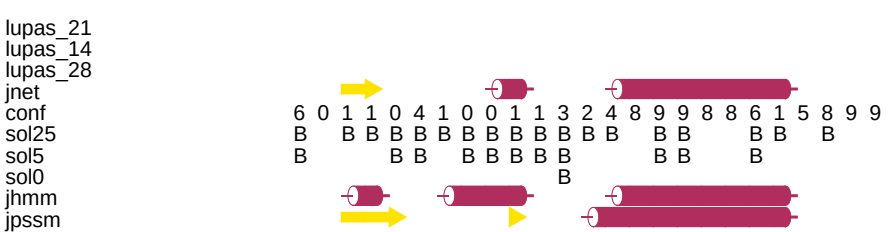

50
60
QUERY L K R Y C C R R M I L T H V D L I E K F L R Y N P
UniRef90_E4XQW4 L K R Y C C R R M L L T H V D L V E K L L N F A P
UniRef90_R7Q867 L T R Y C C R R M I L T H V E L I E K L L N Y N T
UniRef90_F4R4R7 L K R Y C C R R M V L T H V D L I E K L L Q Y N P
UniRef90_D3BI58 L K R Y C C R R M L L T H V D L I E K L
UniRef90_G0SCS7 C K R Y C C R R M V M T H V D L I E K L L K Y T P
UniRef90_C5Y6P3 L N R Y C C R R M L M T H V D L I E K L L N Y N T
UniRef90_A0A015JTS0 L Q R Y C C R R M I L T H T D L I S K L L Q Y N P
UniRef90_M1UVG9 L K R Y C C R R M L L T H V D L I E K S L R Y A
UniRef90_U6IAZ9 L R R Y C C R R M V L A H V D L I E K L L N Y A P
UniRef90_E5A8M2 L Q R Y C C R R M V L T H V D L I E K L L K Y N
UniRef90_C9SH58 L K R Y C C R R M I M T H V D L I E K L L K Y T P
UniRef90_S8BXL6 C K R Y C C R R M I M T H V D L I E K L L R Y N P
UniRef90_A0A024TLN3 L K R Y C C R R M L L T H V D L I E K L L H Y N T
UniRef90_V2XCG3 L K R Y C C R R M V L T H V D L I E K L L H Y N P
UniRef90_U5H237 L K R Y C C R R M V L T H V D L I E K L L H Y N P
UniRef90_A0A015J6L6 I T R Y C C R R M L I S H V D F I Q K I L T F A P
UniRef90_M2Y2U3 L K R Y C C R R M L L T H V D L I E K L L A Y N
UniRef90_C5KAN5 M E R Y C C R R M L L T H V D L I E K L L N Y N
UniRef90_J9IUS0 L K R Y C C R R M V L T H V D L I S K L L N Y N
UniRef90_W7U0W0 L K R Y C C R R M L L T H V D L I S K L L N Y N T
UniRef90_U6I6G9 L K R Y C C R R M L L S H V D L V D E I L K Y A P
UniRef90_H0ZHJ7 L K R Y C C R R M L L A H V D L I E K L L N Y A P
UniRef90_W4WBK1 L K R Y C C R R M L L G H
UniRef90_Q98S56 L Q R Y C C R R M I L T H V D L I E K L L Q Y N
UniRef90_J9VMZ9 L K R Y C C R R M V L T H V D L I E K L L M Y N P
UniRef90_K2S0T1 L N R Y C C R R M V M T H V D L I E K L L K Y N
UniRef90_M2N181 L N R Y C C R R M V L T H V D L I E K L L R Y N P
UniRef90_UPI0003D070D0 L K R Y C C R C M L L A H A D L I E K L L N Y A
UniRef90_W9CW24 L K R Y C C R R M I M T H V D L I E K L L R Y N P
UniRef90_G7EAH5 L R R Y C C R R M V L T H V D L I E K L L H Y N P
UniRef90_D8M050 L H R Y C C R R M V L T H V D L I E T L L K Y S
UniRef90_F4P558 L K R Y C C R R M V L S H I D F I E K I L Q Y
UniRef90_J7G8W5 L R R Y C C R R M L L T H V D L I E K L L A Y N T
UniRef90_E9BZI2 L K R Y C C R R M I L S H V D L I E K L L R Y N
UniRef90_U1M2F1 L R R Y C C R R M L L S H V D L I D K L L T Y Y P
UniRef90_E1Z6Q4 L N R Y C C R R M V M T H V D L I E K L L N Y N T
UniRef90_A4UHB3 L N R Y C C R R M L L T H V D L I E K V M N Y N
UniRef90_A8BAL6 L T R Y C C R R M L L T H V D L I D D L L L Y T P
UniRef90_A0D0A0 L E R Y C C R R M I L T H V D L I D K L L N Y N
UniRef90_Q8TVB4 V D R Y C C R R M F L S H V D L L E E S L P Y T P
UniRef90_A8PYD2 L H R Y C C R R M V L T H V D L I E R L L H Y N
UniRef90_A7AN58 L T R Y C C R R M I L T H V D L I E K L L V Y N
UniRef90_U6GVQ9 L K R Y C C R R M I L T H A D L I D K L L A Y N
UniRef90_F2UT16 L K R Y C C R R M L L T H V D L I E K L L E Y S
UniRef90_I7IA01 L S R Y C C R R M I L T H V D L I D K L L A Y N
UniRef90_W2SEL6 C T R Y C C R R M L M T H V D L I D K L L Q Y D P
UniRef90_R7YSL1 L H R Y C C R R M I M T H V D L I E K I L K Y N
UniRef90_S9WW33 L D R F C C R R M M L T H V D M I D L L L K F N P
UniRef90_A0A023B8Y9 C E R Y C C K R M L L G H V D I I E R L L M Y N
UniRef90_S5Z6A0 I T R Y C C R R M F L S H V D V I D K V I K Y G T
UniRef90_UPI0002C6833E L K R Y H S L C M P L A H V D L M E R L L K C V P
UniRef90_S9WNK7 L T R Y C C R R M L L S H I E L T D D L I P Y S
UniRef90_E0S7F3 M K R I C C R R M F L G H V D I V D K L L K F D
UniRef90_D7E6M2 I K R Y C C R R M F L T H V E L V D T L A P Y Q
UniRef90_F7H561 L K H Y C C C Q M L L A H V D L I E K L L N C T P
UniRef90_E2LK57 L R R Y C C R R M V L T H V D L I E K L L H Y N
UniRef90_V6LL37 C P R Y C C R R M L I T H V D L I D D L I M Y S P
UniRef90_A2DSN4 L K R F C C R R M L L T H V D L L D R M L L Y S
UniRef90_C4M5M4 I E R Y C C K R M L V S H V N L I G F L S M Y D
UniRef90_I7ME31 L N R Y C C R R M I L T H C D L I D K L L N Y N
UniRef90_Q4CTY7 L D R M C C R R M I L S H I D L V D E L L P Y S
UniRef90_U1NJM5 V D R H C C R R M L V S H E D L V D V V A P Y Q
UniRef90_R0MHA3 L K R I C C R R M F L G H V D I I D K L I K F D
UniRef90_I3TDX1 V K R Y C C R R M F L S H V D I V K Q V L Y F
UniRef90_UPI0003C8E74B L K R Y C C R R M L L A H V D L I E K L L N Y A P
UniRef90_Q8TT41 I T R Y C C R R M F L S H V E L V D V L S P Y Q
UniRef90_D5E7A3 I S R Y C C R R M I L A H V E L I D V V A P Y Q
UniRef90_S7WB40 M T R Y C C R R M F L G H V D I I E K L L K F D
UniRef90_L1IWQ4 L N R Y C C R R M L M T H V D L I E K L M E Y N
UniRef90_W9DTD6 V V R Y C C R R M I L S H V E L V D T L A P Y Q
UniRef90_Q3LWJ6 M N R Y C C R R M L L S H V D I I E K L L N Y N
UniRef90_C3N058 V K R Y C C R R M L L S H I D I I S E V I H Y T
UniRef90_Q0W8C7 V E R Y C C R R M L L S H V E L V D V L A P Y Q
UniRef90_I0A0E3 I D R Y C C R R T L I S H V D L I E Q V I K F K P
UniRef90_T0YG61 L E R Y C C R R M L L T H V D L L D E V G P Y
UniRef90_M0MP08 V D R H C C R R M L V S H S D L V D I V A P Y Q
UniRef90_F2L3Z1 V T R Y C C R R T L L A H V D W I D D V L K F
UniRef90_R9T8C3 L T R Y C C R R M I V A H A D L V D E V I P
UniRef90_L1IXE0 L K R Y C C R R M L L T H V D L I E K L M V Y N
UniRef90_V4ZTB9 V E R H C C R R M L V S H R D L V D V V A P Y Q
UniRef90_A4YIM8 V K R L C C R R S L L T H V D I I R E V V N Y T
UniRef90_E6N506 F K R Y C C R R M F I S A V N V M D E L I E F H
UniRef90_D3S036 I E R Y C C R R M F F T H K S V V E E L A R Y
UniRef90_W0K3R6 V D R H C C R R M L I S H Q D L V D V V S P Y Q
UniRef90_P29199 V E R H C C R R M L V S H K D L V D I V S P Y Q
UniRef90_B8BNG7 L V R Y C C R R M L M T H V D L I E K L L N Y N T
UniRef90_C6A1B7 L E R Y C C R R M F L S H V E L I D E I M H Y
UniRef90_UPI000443FEA2 L R R Y C C L R L L L A H V D L I E K L L N Y M P
UniRef90_A7IAH1 I T R Y C C R R M L L T H K E I I D E L N P Y Q
UniRef90_T0ZHT6 L T R Y C C R R M M L S H V D L L D D V G P Y
UniRef90_M7TCQ3 V D R Y C C R R M I L S H V D L L K E A A P Y D


1
10
20
30
40
UniRef90_B3T069
UniRef90_G0EF24
UniRef90_B7XIS4
UniRef90_C7DIN4
UniRef90_UPI0003735282
UniRef90_UPI0003773748
UniRef90_E7QSE2
UniRef90_A0B6E7
UniRef90_P39472
UniRef90_X1DDZ7
UniRef90_E1QSA3
UniRef90_A2SSV3
UniRef90_E1RIU1
UniRef90_X0S5U2
UniRef90_E0SQ96
UniRef90_X0TFM9
UniRef90_M9SES4
UniRef90_UPI0003291376
UniRef90_M2XMF3
UniRef90_Q8IC08
UniRef90_B1L5N0
UniRef90_J1L0R0
UniRef90_M7NU47
UniRef90_O29135
UniRef90_Q9HL09
UniRef90_V4K1H0
UniRef90_L2GSB0
UniRef90_V6AR37
UniRef90_L2GJJ3
UniRef90_A9A430
UniRef90_B1YC34
UniRef90_H0AAC4
UniRef90_A0A059EJU7
UniRef90_A0RY12
UniRef90_R1E4T6
UniRef90_UPI00032B247D
UniRef90_K0I9R1
UniRef90_UPI0003613ECB
UniRef90_T0N4N6
UniRef90_Q6L292
UniRef90_T0MYC3
UniRef90_L5KQS3
UniRef90_T0Y7A6
UniRef90_Q9YB47
UniRef90_T0MCN5
UniRef90_Q74MB5
UniRef90_G0QCJ5
UniRef90_D1YZ44
UniRef90_X1HJZ5
UniRef90_Q2QWW6
UniRef90_UPI0001D56359
UniRef90_A8A8W9
UniRef90_UPI00037D7FAC
UniRef90_F7E0A1
UniRef90_S4VUS6
UniRef90_T0LJB6
UniRef90_E0VZY1
UniRef90_E3GZF6
UniRef90_I3EDI1
UniRef90_D3TB04
UniRef90_O26147
UniRef90_N6VXV3
UniRef90_J9ENC2
UniRef90_D5VS08
UniRef90_R4TFI0
UniRef90_A6UPX1
UniRef90_F8AN58
UniRef90_J9DQ06
UniRef90_I3MXG9
UniRef90_V8P221
UniRef90_F2Y0V4
UniRef90_UPI00036B25EB
UniRef90_Q2NG00
UniRef90_F2Y277
UniRef90_R9SLU7
UniRef90_G0QHK5
UniRef90_D7DRX1
UniRef90_F6UJZ7
UniRef90_UPI000441E54A
UniRef90_A6UVZ9
UniRef90_UPI00035FB422
UniRef90_UPI00032AFA65
UniRef90_X0X8R8
UniRef90_D2EFA2
UniRef90_S9YLK3
UniRef90_L8HVF2
UniRef90_X1IDH5
UniRef90_D9Q271
UniRef90_D2HFL2
UniRef90_W5S4N8
UniRef90_UPI0002C2EC41
UniRef90_E1FHV3


50
60
UniRef90_B3T069
UniRef90_G0EF24
UniRef90_B7XIS4
UniRef90_C7DIN4
UniRef90_UPI0003735282
UniRef90_UPI0003773748
UniRef90_E7QSE2
UniRef90_A0B6E7
UniRef90_P39472
UniRef90_X1DDZ7
UniRef90_E1QSA3
UniRef90_A2SSV3
UniRef90_E1RIU1
UniRef90_X0S5U2
UniRef90_E0SQ96
UniRef90_X0TFM9
UniRef90_M9SES4
UniRef90_UPI0003291376
UniRef90_M2XMF3
UniRef90_Q8IC08
UniRef90_B1L5N0
UniRef90_J1L0R0
UniRef90_M7NU47
UniRef90_O29135
UniRef90_Q9HL09
UniRef90_V4K1H0
UniRef90_L2GSB0
UniRef90_V6AR37
UniRef90_L2GJJ3
UniRef90_A9A430
UniRef90_B1YC34
UniRef90_H0AAC4
UniRef90_A0A059EJU7
UniRef90_A0RY12
UniRef90_R1E4T6
UniRef90_UPI00032B247D
UniRef90_K0I9R1
UniRef90_UPI0003613ECB
UniRef90_T0N4N6
UniRef90_Q6L292
UniRef90_T0MYC3
UniRef90_L5KQS3
UniRef90_T0Y7A6
UniRef90_Q9YB47
UniRef90_T0MCN5
UniRef90_Q74MB5
UniRef90_G0QCJ5
UniRef90_D1YZ44
UniRef90_X1HJZ5
UniRef90_Q2QWW6
UniRef90_UPI0001D56359
UniRef90_A8A8W9
UniRef90_UPI00037D7FAC
UniRef90_F7E0A1
UniRef90_S4VUS6
UniRef90_T0LJB6
UniRef90_E0VZY1
UniRef90_E3GZF6
UniRef90_I3EDI1
UniRef90_D3TB04
UniRef90_O26147
UniRef90_N6VXV3
UniRef90_J9ENC2
UniRef90_D5VS08
UniRef90_R4TFI0
UniRef90_A6UPX1
UniRef90_F8AN58
UniRef90_J9DQ06
UniRef90_I3MXG9
UniRef90_V8P221
UniRef90_F2Y0V4
UniRef90_UPI00036B25EB
UniRef90_Q2NG00
UniRef90_F2Y277
UniRef90_R9SLU7
UniRef90_G0QHK5
UniRef90_D7DRX1
UniRef90_F6UJZ7
UniRef90_UPI000441E54A
UniRef90_A6UVZ9
UniRef90_UPI00035FB422
UniRef90_UPI00032AFA65
UniRef90_X0X8R8
UniRef90_D2EFA2
UniRef90_S9YLK3
UniRef90_L8HVF2
UniRef90_X1IDH5
UniRef90_D9Q271
UniRef90_D2HFL2
UniRef90_W5S4N8
UniRef90_UPI0002C2EC41
UniRef90_E1FHV3


1
10
20
30
40
UniRef90_W9Y4R4
UniRef90_U1PIH0
UniRef90_X1U7J7
UniRef90_T0L1W0
UniRef90_X0SDQ5
UniRef90_C5PCA3
UniRef90_K1WLD7
UniRef90_X0U1A6
UniRef90_Q4A2W7
UniRef90_K4MA03
UniRef90_O55725
UniRef90_G1U3I3
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


50
60
UniRef90_W9Y4R4 A K R Y C C R R M L M T H V D L I E K L L Q Y D P
UniRef90_U1PIH0 V D R H C C R R M L V S H K D L V D I V A P Y Q
UniRef90_X1U7J7 L D K M C C R R H I L T H V N I
UniRef90_T0L1W0 I K R I Y K L I K Y
UniRef90_X0SDQ5 L N R Y C C R L R V R N P F K V V E R
UniRef90_C5PCA3
UniRef90_K1WLD7 M I M T H V D L I E K L L K Y N P
UniRef90_X0U1A6 L D R Y C C R R M I I S H V D L L K D A A P Y
UniRef90_Q4A2W7 V K M Y C C R R M Y L G Q I G L T D I L
UniRef90_K4MA03 V T R Y C C R R M I L S H V E L V D V L A P Y Q
UniRef90_O55725 Y T R L C C K R M Y L S A V N F Q D E L F Q Y
UniRef90_G1U3I3 L


lupas_21
lupas_14
lupas_28
jnet
conf 6 0 1 1 0 4 1 0 0 1 1 3 2 4 8 9 9 8 8 6 1 5 8 9 9
sol25 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
sol0
jhmm
jpssm