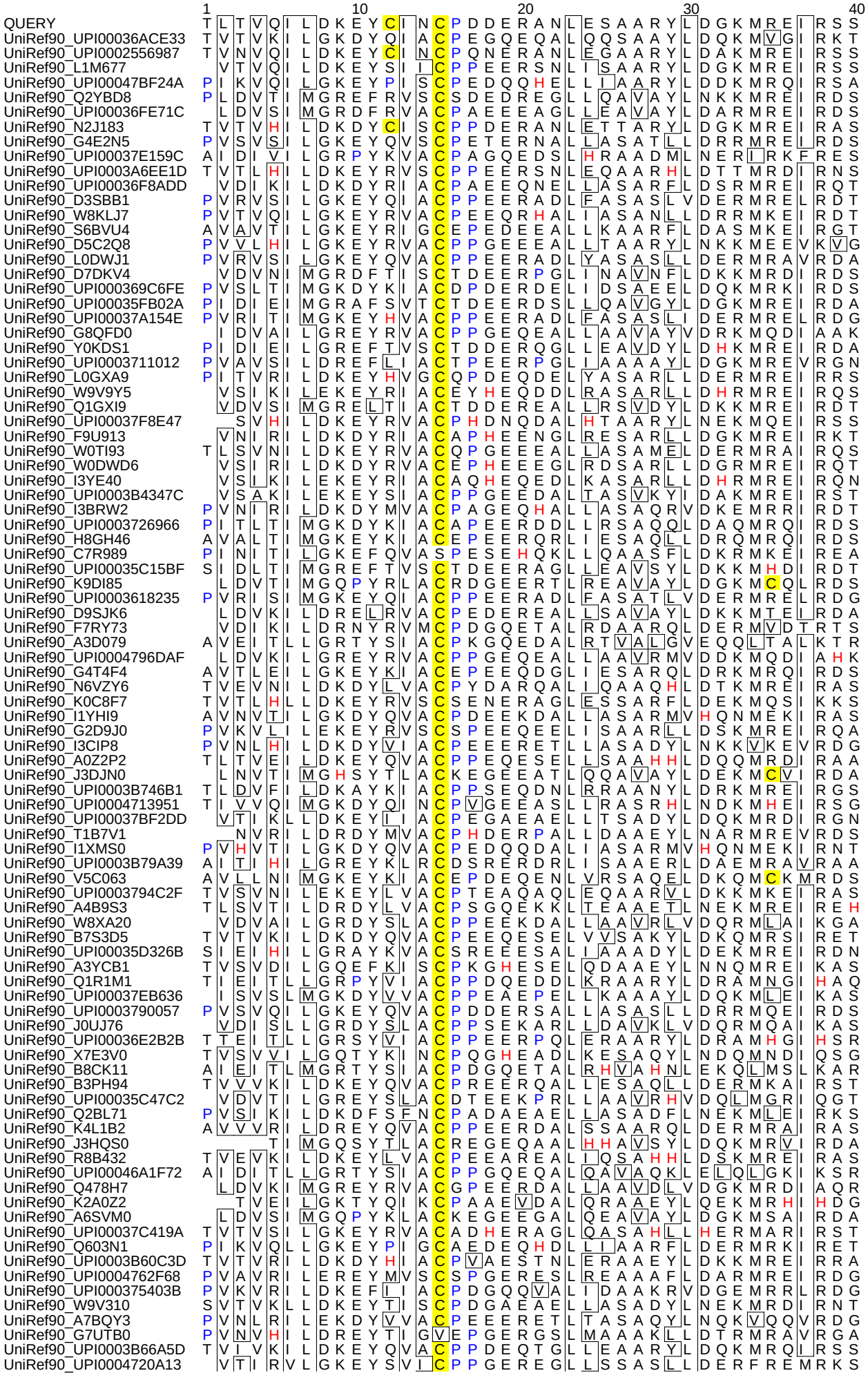
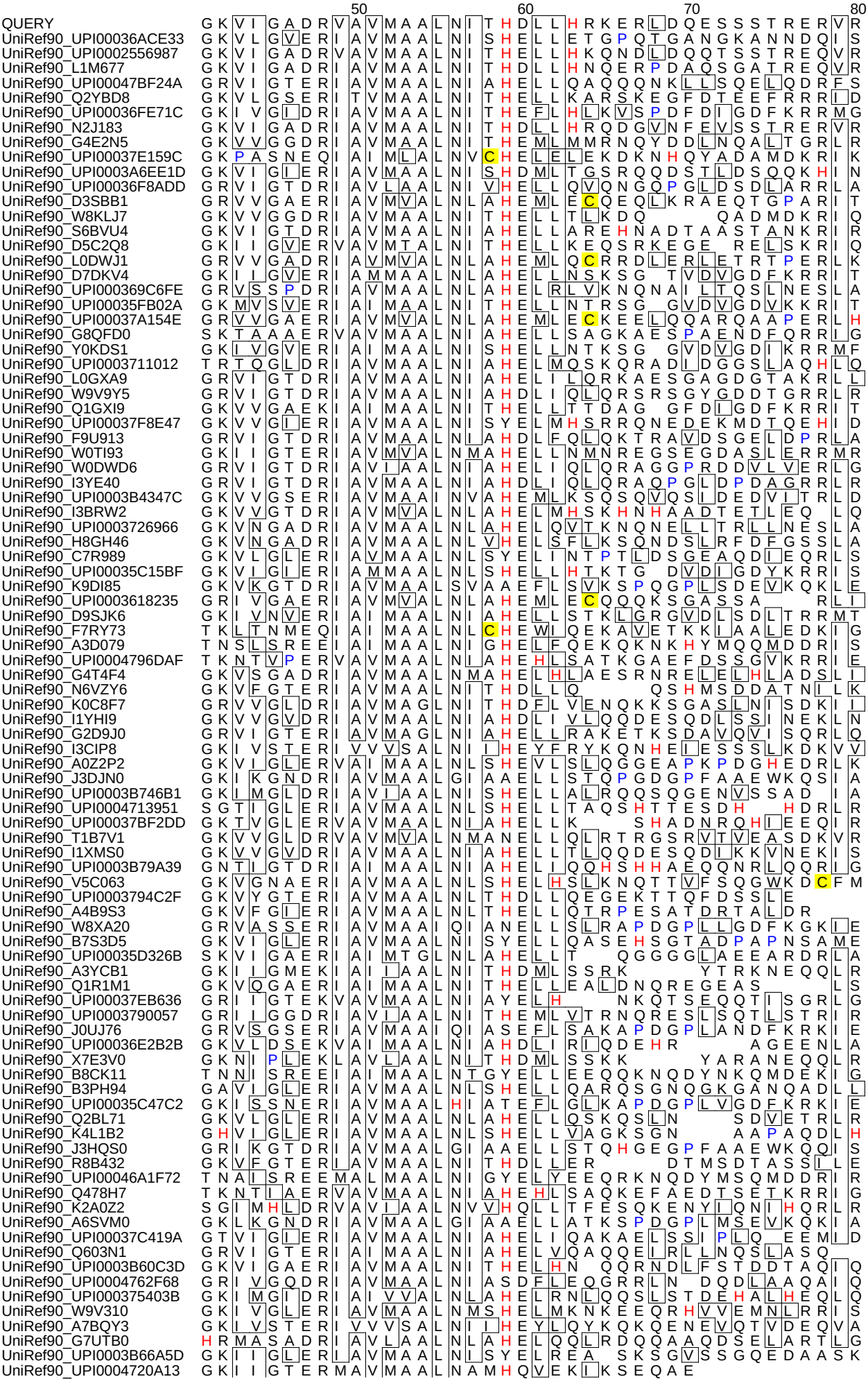
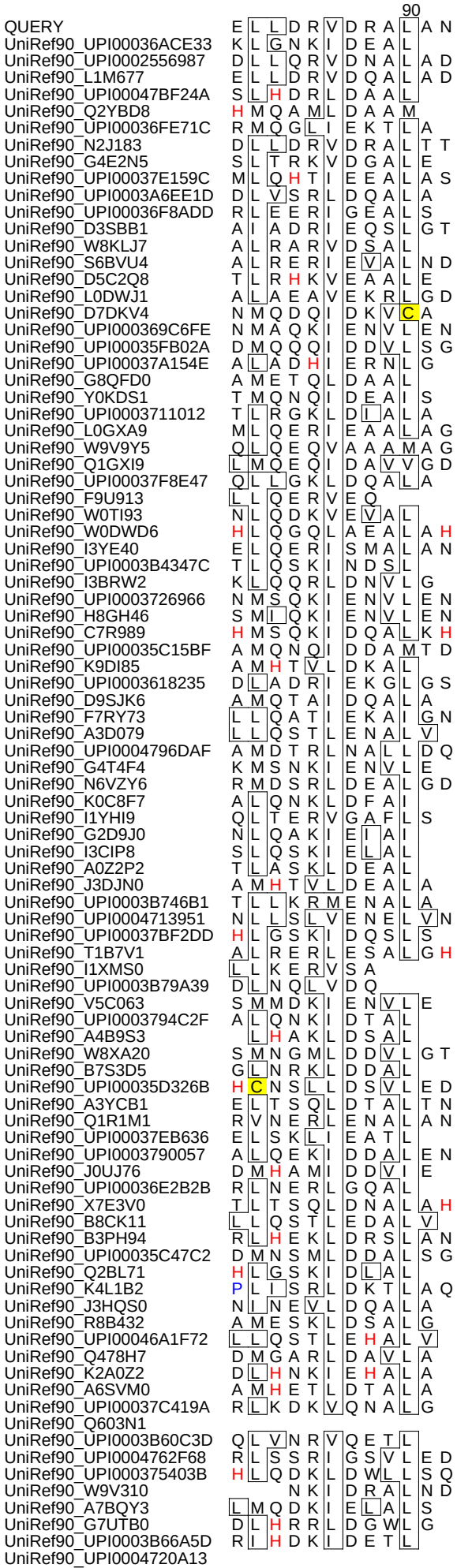
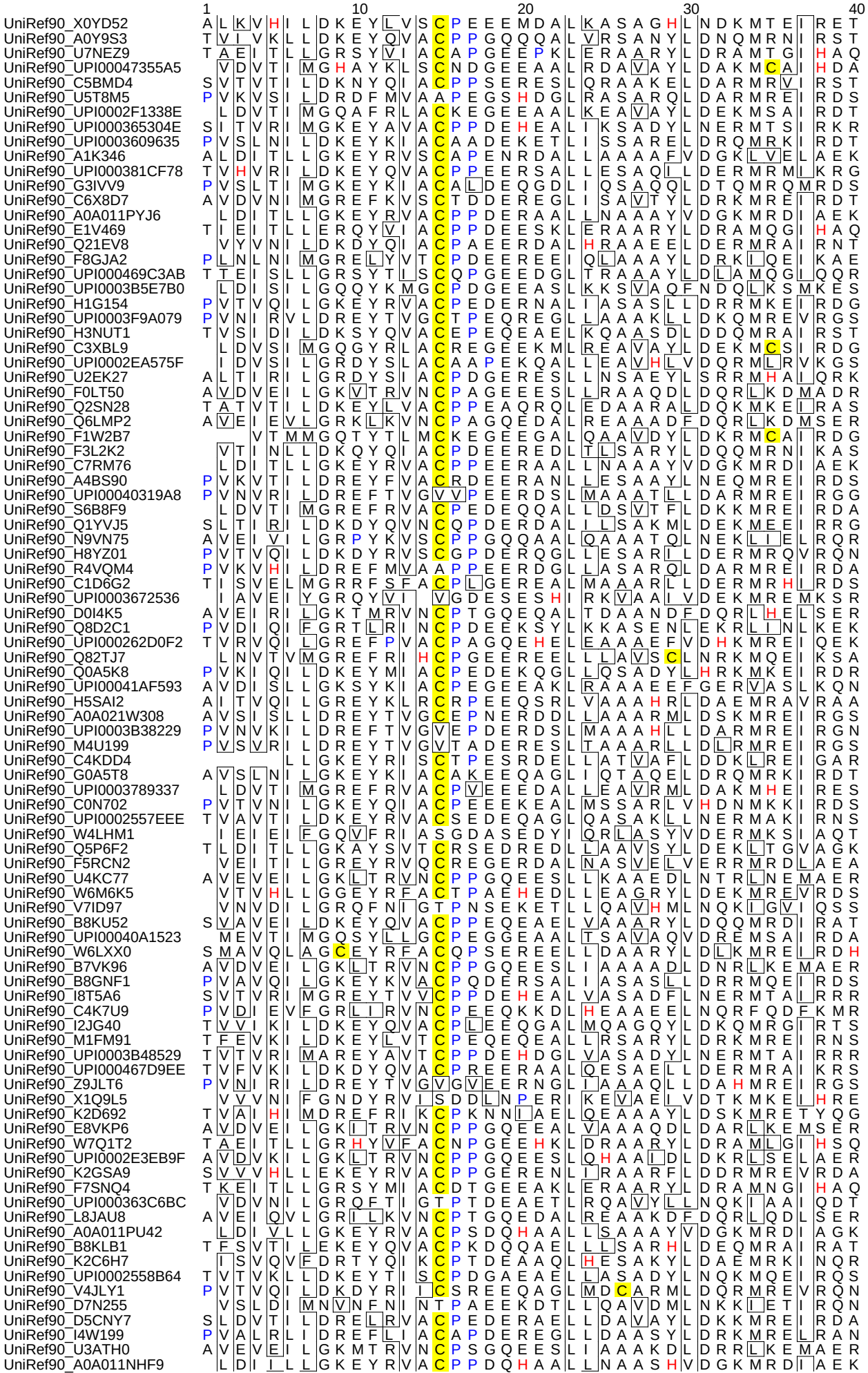
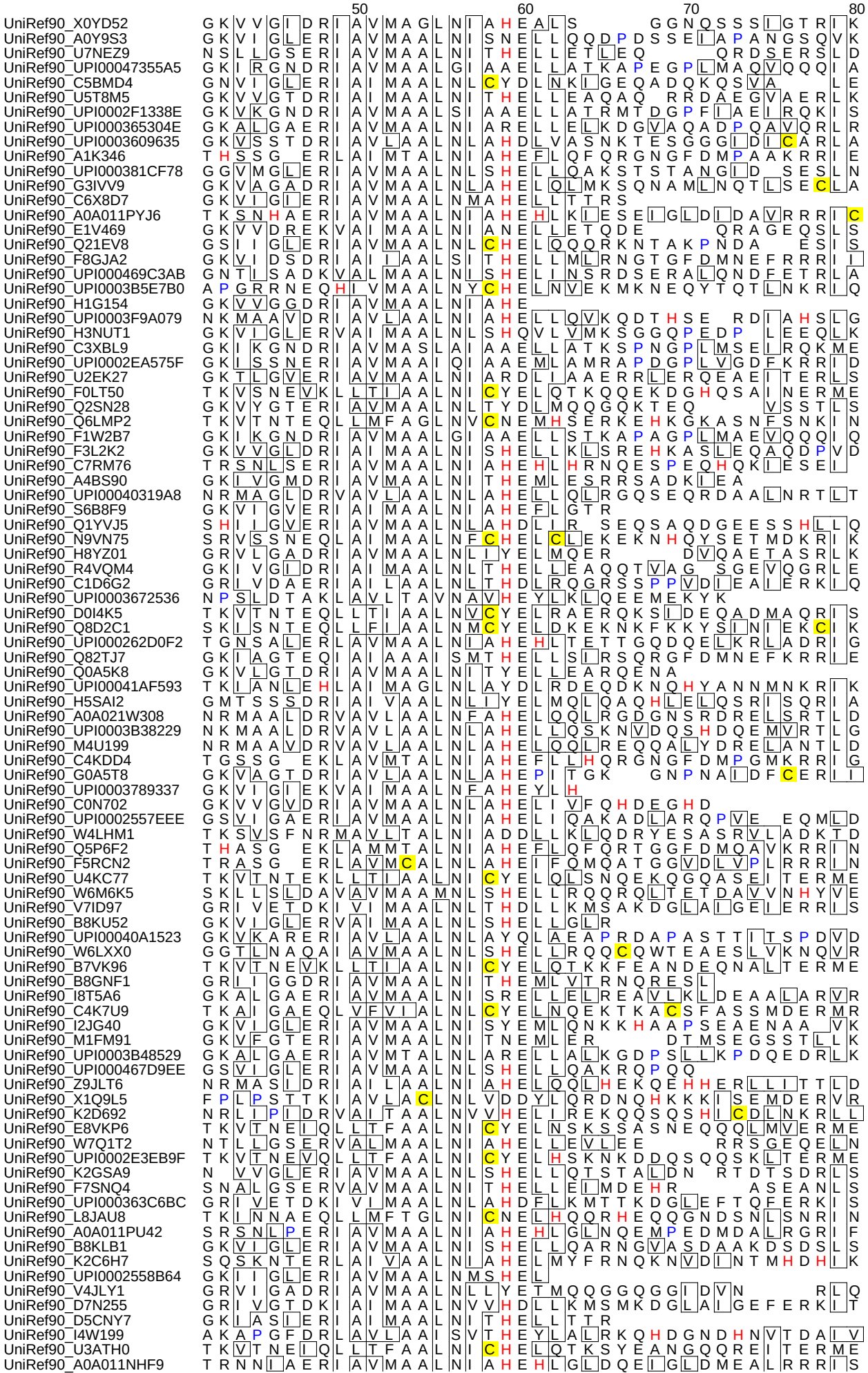
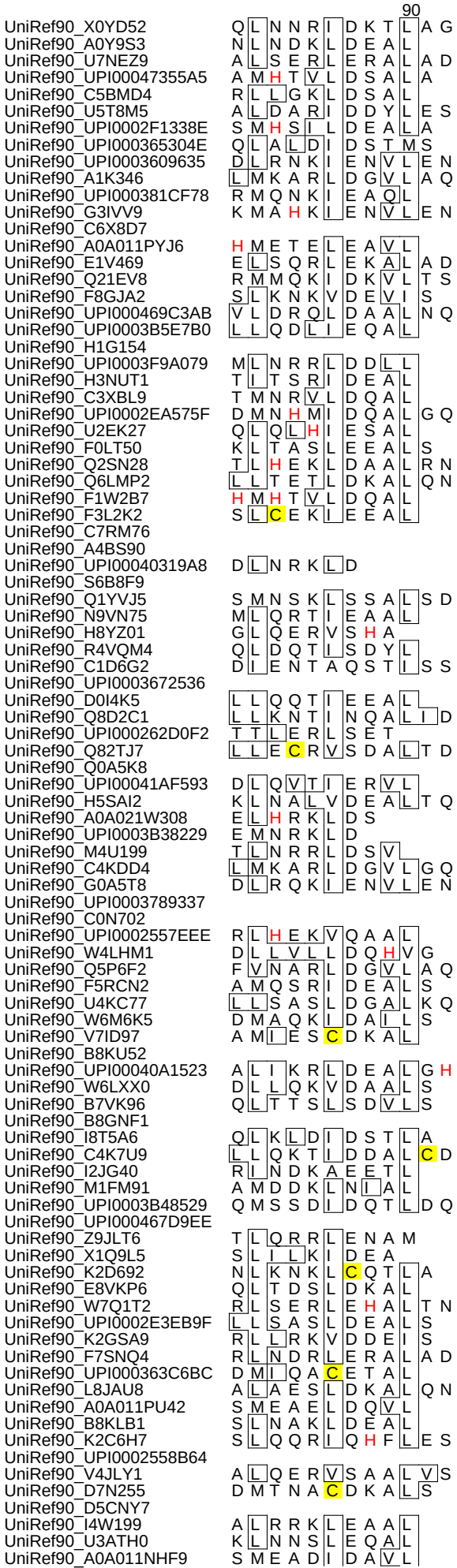

1
10
20
30
40
QUERY
UniRef90_UPI00036ACE33
UniRef90_UPI0002556987
UniRef90_L1M677
UniRef90_UPI00047BF24A
UniRef90_Q2YBD8
UniRef90_UPI00036FE71C
UniRef90_N2J183
UniRef90_G4E2N5
UniRef90_UPI00037E159C
UniRef90_UPI0003A6EE1D
UniRef90_UPI00036F8ADD
UniRef90_D3SBB1
UniRef90_W8KLJ7
UniRef90_S6BVU4
UniRef90_D5C2Q8
UniRef90_L0DWJ1
UniRef90_D7DKV4
UniRef90_UPI000369C6FE
UniRef90_UPI00035FB02A
UniRef90_UPI00037A154E
UniRef90_G8QFD0
UniRef90_Y0KDS1
UniRef90_UPI0003711012
UniRef90_L0GXA9
UniRef90_W9V9Y5
UniRef90_Q1GXI9
UniRef90_UPI00037F8E47
UniRef90_F9U913
UniRef90_W0TI93
UniRef90_W0DWD6
UniRef90_I3YE40
UniRef90_UPI0003B4347C
UniRef90_I3BRW2
UniRef90_UPI0003726966
UniRef90_H8GH46
UniRef90_C7R989
UniRef90_UPI00035C15BF
UniRef90_K9DI85
UniRef90_UPI0003618235
UniRef90_D9SJK6
UniRef90_F7RY73
UniRef90_A3D079
UniRef90_UPI0004796DAF
UniRef90_G4T4F4
UniRef90_N6VZY6
UniRef90_K0C8F7
UniRef90_I1YHI9
UniRef90_G2D9J0
UniRef90_I3CIP8
UniRef90_A0Z2P2
UniRef90_J3DJN0
UniRef90_UPI0003B746B1
UniRef90_UPI0004713951
UniRef90_UPI00037BF2DD
UniRef90_T1B7V1
UniRef90_I1XMS0
UniRef90_UPI0003B79A39
UniRef90_V5C063
UniRef90_UPI0003794C2F
UniRef90_A4B9S3
UniRef90_W8XA20
UniRef90_B7S3D5
UniRef90_UPI00035D326B
UniRef90_A3YCB1
UniRef90_Q1R1M1
UniRef90_UPI00037EB636
UniRef90_UPI0003790057
UniRef90_J0UJ76
UniRef90_UPI00036E2B2B
UniRef90_X7E3V0
UniRef90_B8CK11
UniRef90_B3PH94
UniRef90_UPI00035C47C2
UniRef90_Q2BL71
UniRef90_K4L1B2
UniRef90_J3HQS0
UniRef90_R8B432
UniRef90_UPI00046A1F72
UniRef90_Q478H7
UniRef90_K2A0Z2
UniRef90_A6SVM0
UniRef90_UPI00037C419A
UniRef90_Q603N1
UniRef90_UPI0003B60C3D
UniRef90_UPI0004762F68
UniRef90_UPI000375403B
UniRef90_W9V310
UniRef90_A7BQY3
UniRef90_G7UTB0
UniRef90_UPI0003B66A5D
UniRef90_UPI0004720A13

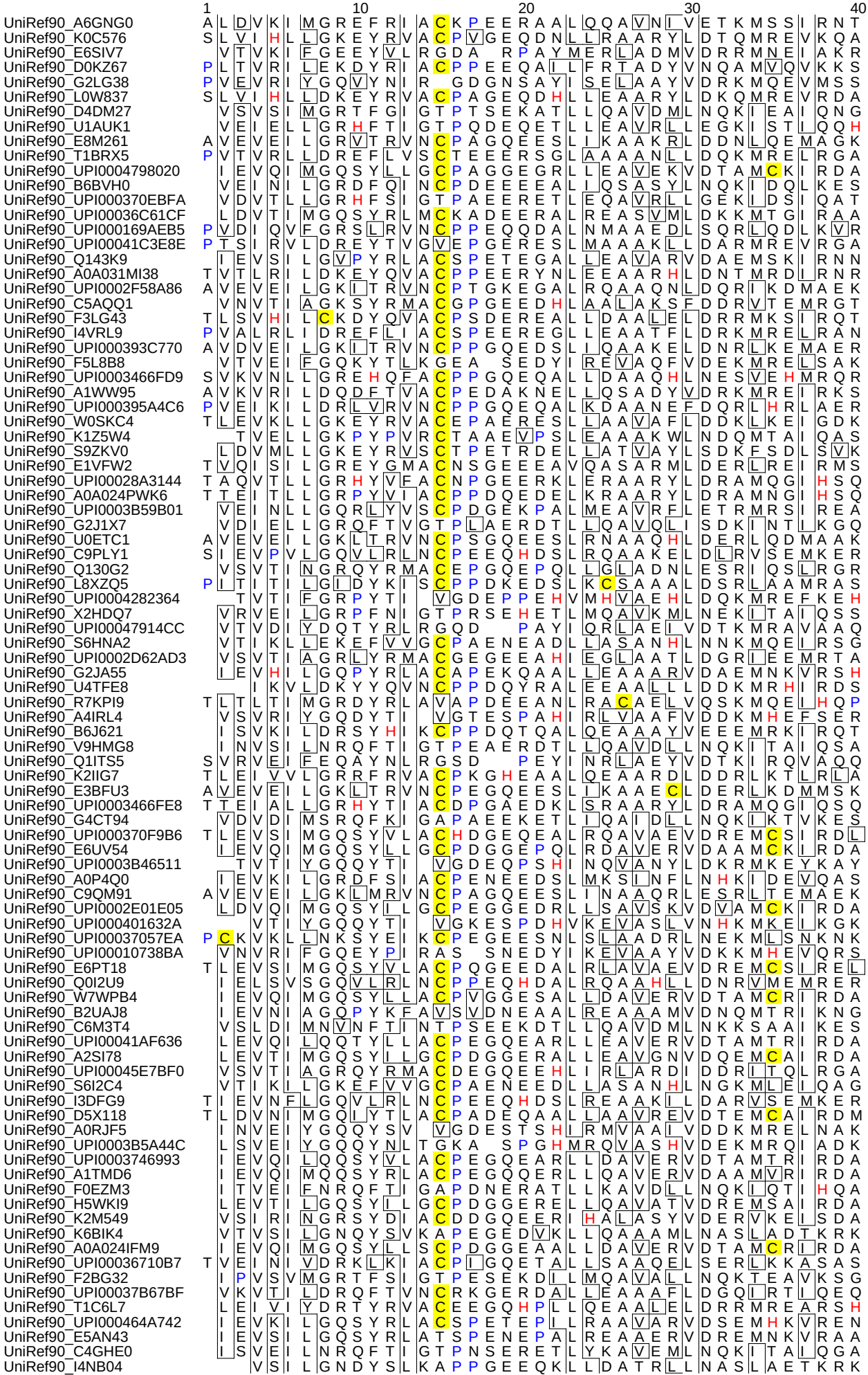

50
60
70
80
QUERY
UniRef90_UPI00036ACE33
UniRef90_UPI0002556987
UniRef90_L1M677
UniRef90_UPI00047BF24A
UniRef90_Q2YBD8
UniRef90_UPI00036FE71C
UniRef90_N2J183
UniRef90_G4E2N5
UniRef90_UPI00037E159C
UniRef90_UPI0003A6EE1D
UniRef90_UPI00036F8ADD
UniRef90_D3SBB1
UniRef90_W8KLJ7
UniRef90_S6BVU4
UniRef90_D5C2Q8
UniRef90_L0DWJ1
UniRef90_D7DKV4
UniRef90_UPI000369C6FE
UniRef90_UPI00035FB02A
UniRef90_UPI00037A154E
UniRef90_G8QFD0
UniRef90_Y0KDS1
UniRef90_UPI0003711012
UniRef90_L0GXA9
UniRef90_W9V9Y5
UniRef90_Q1GXI9
UniRef90_UPI00037F8E47
UniRef90_F9U913
UniRef90_W0TI93
UniRef90_W0DWD6
UniRef90_I3YE40
UniRef90_UPI0003B4347C
UniRef90_I3BRW2
UniRef90_UPI0003726966
UniRef90_H8GH46
UniRef90_C7R989
UniRef90_UPI00035C15BF
UniRef90_K9DI85
UniRef90_UPI0003618235
UniRef90_D9SJK6
UniRef90_F7RY73
UniRef90_A3D079
UniRef90_UPI0004796DAF
UniRef90_G4T4F4
UniRef90_N6VZY6
UniRef90_K0C8F7
UniRef90_I1YHI9
UniRef90_G2D9J0
UniRef90_I3CIP8
UniRef90_A0Z2P2
UniRef90_J3DJN0
UniRef90_UPI0003B746B1
UniRef90_UPI0004713951
UniRef90_UPI00037BF2DD
UniRef90_T1B7V1
UniRef90_I1XMS0
UniRef90_UPI0003B79A39
UniRef90_V5C063
UniRef90_UPI0003794C2F
UniRef90_A4B9S3
UniRef90_W8XA20
UniRef90_B7S3D5
UniRef90_UPI00035D326B
UniRef90_A3YCB1
UniRef90_Q1R1M1
UniRef90_UPI00037EB636
UniRef90_UPI0003790057
UniRef90_J0UJ76
UniRef90_UPI00036E2B2B
UniRef90_X7E3V0
UniRef90_B8CK11
UniRef90_B3PH94
UniRef90_UPI00035C47C2
UniRef90_Q2BL71
UniRef90_K4L1B2
UniRef90_J3HQS0
UniRef90_R8B432
UniRef90_UPI00046A1F72
UniRef90_Q478H7
UniRef90_K2A0Z2
UniRef90_A6SVM0
UniRef90_UPI00037C419A
UniRef90_Q603N1
UniRef90_UPI0003B60C3D
UniRef90_UPI0004762F68
UniRef90_UPI0003754036
UniRef90_W9V310
UniRef90_A7BQY3
UniRef90_G7UTB0
UniRef90_UPI0003B66A5D
UniRef90_UPI0004720A13

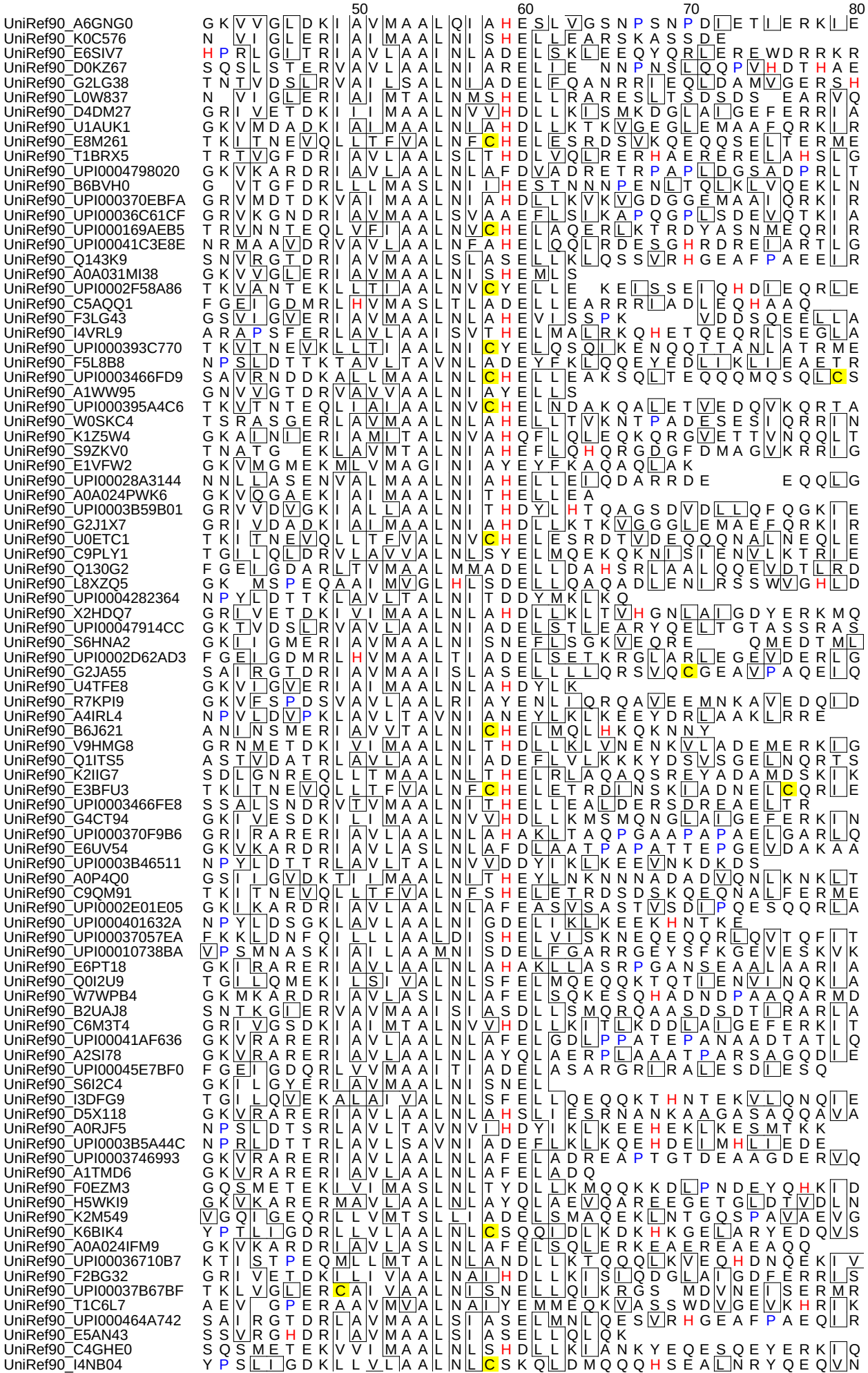

90
QUERY E L L D R V D R A L A N
UniRef90_UPI00036ACE33 K L G N K I D E A L
UniRef90_UPI0002556987 D L L Q R V D N A L A D
UniRef90_L1M677 E L L D R V D Q A L A D
UniRef90_UPI00047BF24A S L H D R L D A A L
UniRef90_Q2YBD8 H M Q A M L D A A M
UniRef90_UPI00036FE71C R M Q G L I E K T L A
UniRef90_N2J183 D L L D R V D R A L T T
UniRef90_G4E2N5 S L T R K V D G A L E
UniRef90_UPI00037E159C M L Q H T I E E A L A S
UniRef90_UPI0003A6EE1D D L V S R L D Q A L A
UniRef90_UPI00036F8ADD R L E E R I G E A L S
UniRef90_D3SBB1 A I A D R I E Q S L G T
UniRef90_W8KLJ7 A L R A R V D S A L
UniRef90_S6BVU4 A L R E R I E V A L N D
UniRef90_D5C2Q8 T L R H K V E A A L E
UniRef90_L0DWJ1 A L A E A V E K R L G D
UniRef90_D7DKV4 N M Q D Q I D K V C A
UniRef90_UPI000369C6FE N M A Q K I E N V L E N
UniRef90_UPI00035FB02A D M Q Q Q I D D V L S G
UniRef90_UPI00037A154E A L A D H I E R N L G
UniRef90_G8QFD0 A M E T Q L D A A L
UniRef90_Y0KDS1 T M Q N Q I D E A I S
UniRef90_UPI0003711012 T L R G K L D I A L A
UniRef90_L0GXA9 M L Q E R I E A A L A G
UniRef90_W9V9Y5 Q L Q E Q V A A A M A G
UniRef90_Q1GXI9 L M Q E Q I D A V V G D
UniRef90_UPI00037F8E47 Q L L G K L D Q A L A
UniRef90_F9U913 L L Q E R V E Q
UniRef90_W0TI93 N L Q D K V E V A L
UniRef90_W0DWD6 H L Q G Q L A E A L A H
UniRef90_I3YE40 E L Q E R I S M A L A N
UniRef90_UPI0003B4347C T L Q S K I N D S L
UniRef90_I3BRW2 K L Q Q R L D N V L G
UniRef90_UPI0003726966 N M S Q K I E N V L E N
UniRef90_H8GH46 S M I Q K I E N V L E N
UniRef90_C7R989 H M S Q K I D Q A L K H
UniRef90_UPI00035C15BF A M Q N Q I D D A M T D
UniRef90_K9DI85 A M H T V L D K A L
UniRef90_UPI0003618235 D L A D R I E K G L G S
UniRef90_D9SJK6 A M Q T A I D Q A L A
UniRef90_F7RY73 L L Q A T I E K A I G N
UniRef90_A3D079 L L Q S T L E N A L V
UniRef90_UPI0004796DAF A M D T R L N A L L D Q
UniRef90_G4T4F4 K M S N K I E N V L E
UniRef90_N6VZY6 R M D S R L D E A L G D
UniRef90_K0C8F7 A L Q N K L D F A I
UniRef90_I1YHI9 Q L T E R V G A F L S
UniRef90_G2D9J0 N L Q A K I E I A I
UniRef90_I3CIP8 S L Q S K I E L A L
UniRef90_A0Z2P2 T L A S K L D E A L
UniRef90_J3DJN0 A M H T V L D E A L A
UniRef90_UPI0003B746B1 T L L K R M E N A L A
UniRef90_UPI0004713951 N L L S L V E N E L V N
UniRef90_UPI00037BF2DD H L G S K I D Q S L S
UniRef90_T1B7V1 A L R E R L E S A L G H
UniRef90_I1XMS0 L L K E R V S A
UniRef90_UPI0003B79A39 D L N Q L V D Q
UniRef90_V5C063 S M M D K I E N V L E
UniRef90_UPI0003794C2F A L Q N K I D T A L
UniRef90_A4B9S3 L H A K L D S A L
UniRef90_W8XA20 S M N G M L D D V L G T
UniRef90_B7S3D5 G L N R K L D D A L
UniRef90_UPI00035D326B H C N S L L D S V L E D
UniRef90_A3YCB1 E L T S Q L D T A L T N
UniRef90_Q1R1M1 R V N E R L E N A L A N
UniRef90_UPI00037EB636 E L S K L I E A T L
UniRef90_UPI0003790057 A L Q E K I D D A L E N
UniRef90_J0UJ76 D M H A M I D D V I E
UniRef90_UPI00036E2B2B R L N E R L G Q A L
UniRef90_X7E3V0 T L T S Q L D N A L A H
UniRef90_B8CK11 L L Q S T L E D A L V
UniRef90_B3PH94 R L H E K L D R S L A N
UniRef90_UPI00035C47C2 D M N S M L D D A L S G
UniRef90_Q2BL71 H L G S K I D L A L
UniRef90_K4L1B2 P L I S R L D K T L A Q
UniRef90_J3HQS0 N I N E V L D Q A L A
UniRef90_R8B432 A M E S K L D S A L G
UniRef90_UPI00046A1F72 L L Q S T L E H A L V
UniRef90_Q478H7 D M G A R L D A V L A
UniRef90_K2A0Z2 D L H N K I E H A L A
UniRef90_A6SVM0 A M H E T L D T A L A
UniRef90_UPI00037C419A R L K D K V Q N A L G
UniRef90_Q603N1
UniRef90_UPI0003B60C3D Q L V N R V Q E T L
UniRef90_UPI0004762F68 R L S S R I G S V L E D
UniRef90_UPI000375403B H L Q D K L D W L L S Q
UniRef90_W9V310 N K I D R A L N D
UniRef90_A7BQY3 L M Q D K I E L A L S
UniRef90_G7UTB0 D L H R R L D G W L G
UniRef90_UPI0003B66A5D R I H D K I D E T L
UniRef90_UPI0004720A13

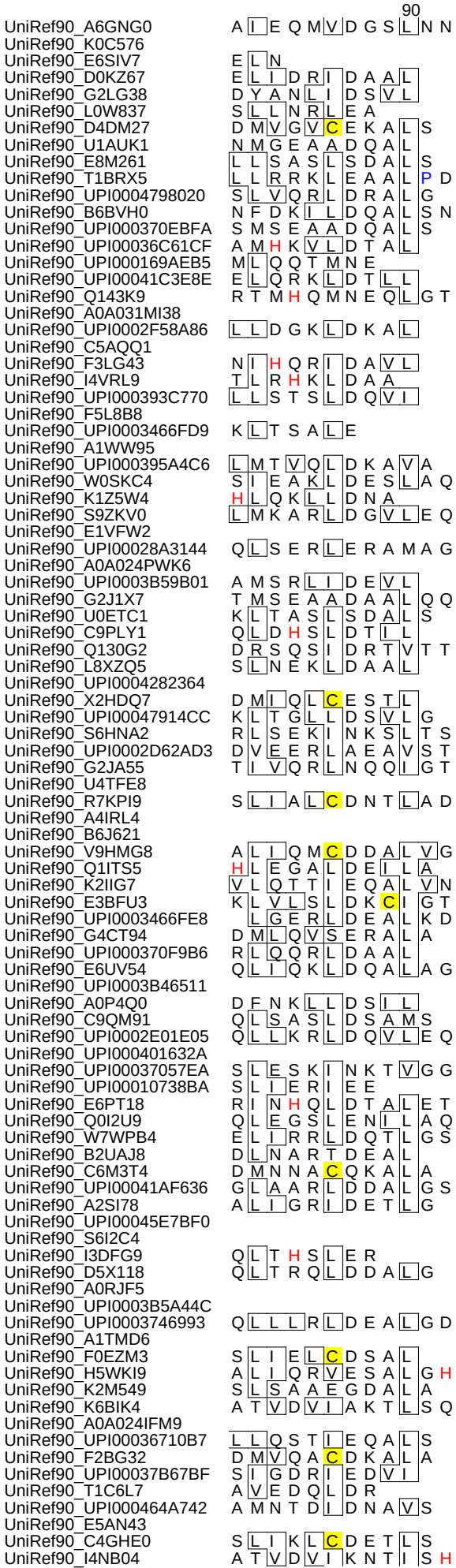

1
10
20
30
40
UniRef90_X0YD52
UniRef90_A0Y9S3
UniRef90_U7NEZ9
UniRef90_UPI00047355A5
UniRef90_C5BMD4
UniRef90_U5T8M5
UniRef90_UPI0002F1338E
UniRef90_UPI000365304E
UniRef90_UPI0003609635
UniRef90_A1K346
UniRef90_UPI000381CF78
UniRef90_G3IVV9
UniRef90_C6X8D7
UniRef90_A0A011PYJ6
UniRef90_E1V469
UniRef90_Q21EV8
UniRef90_F8GJA2
UniRef90_UPI000469C3AB
UniRef90_UPI0003B5E7B0
UniRef90_H1G154
UniRef90_UPI0003F9A079
UniRef90_H3NUT1
UniRef90_C3XBL9
UniRef90_UPI0002EA575F
UniRef90_U2EK27
UniRef90_F0LT50
UniRef90_Q2SN28
UniRef90_Q6LMP2
UniRef90_F1W2B7
UniRef90_F3L2K2
UniRef90_C7RM76
UniRef90_A4BS90
UniRef90_UPI00040319A8
UniRef90_S6B8F9
UniRef90_Q1YVJ5
UniRef90_N9VN75
UniRef90_H8YZ01
UniRef90_R4VQM4
UniRef90_C1D6G2
UniRef90_UPI0003672536
UniRef90_D0I4K5
UniRef90_Q8D2C1
UniRef90_UPI000262D0F2
UniRef90_Q82TJ7
UniRef90_Q0A5K8
UniRef90_UPI00041AF593
UniRef90_H5SAI2
UniRef90_A0A021W308
UniRef90_UPI0003B38229
UniRef90_M4U199
UniRef90_C4KDD4
UniRef90_G0A5T8
UniRef90_UPI0003789337
UniRef90_C0N702
UniRef90_UPI0002557EEE
UniRef90_W4LHM1
UniRef90_Q5P6F2
UniRef90_F5RCN2
UniRef90_U4KC77
UniRef90_W6M6K5
UniRef90_V7ID97
UniRef90_B8KU52
UniRef90_UPI00040A1523
UniRef90_W6LXX0
UniRef90_B7VK96
UniRef90_B8GNF1
UniRef90_I8T5A6
UniRef90_C4K7U9
UniRef90_I2JG40
UniRef90_M1FM91
UniRef90_UPI0003B48529
UniRef90_UPI000467D9EE
UniRef90_Z9JLT6
UniRef90_X1Q9L5
UniRef90_K2D692
UniRef90_E8VKP6
UniRef90_W7Q1T2
UniRef90_UPI0002E3EB9F
UniRef90_K2GSA9
UniRef90_F7SNQ4
UniRef90_UPI000363C6BC
UniRef90_L8JAU8
UniRef90_A0A011PU42
UniRef90_B8KLB1
UniRef90_K2C6H7
UniRef90_UPI0002558B64
UniRef90_V4JLY1
UniRef90_D7N255
UniRef90_D5CNY7
UniRef90_I4W199
UniRef90_U3ATH0
UniRef90_A0A011NHF9

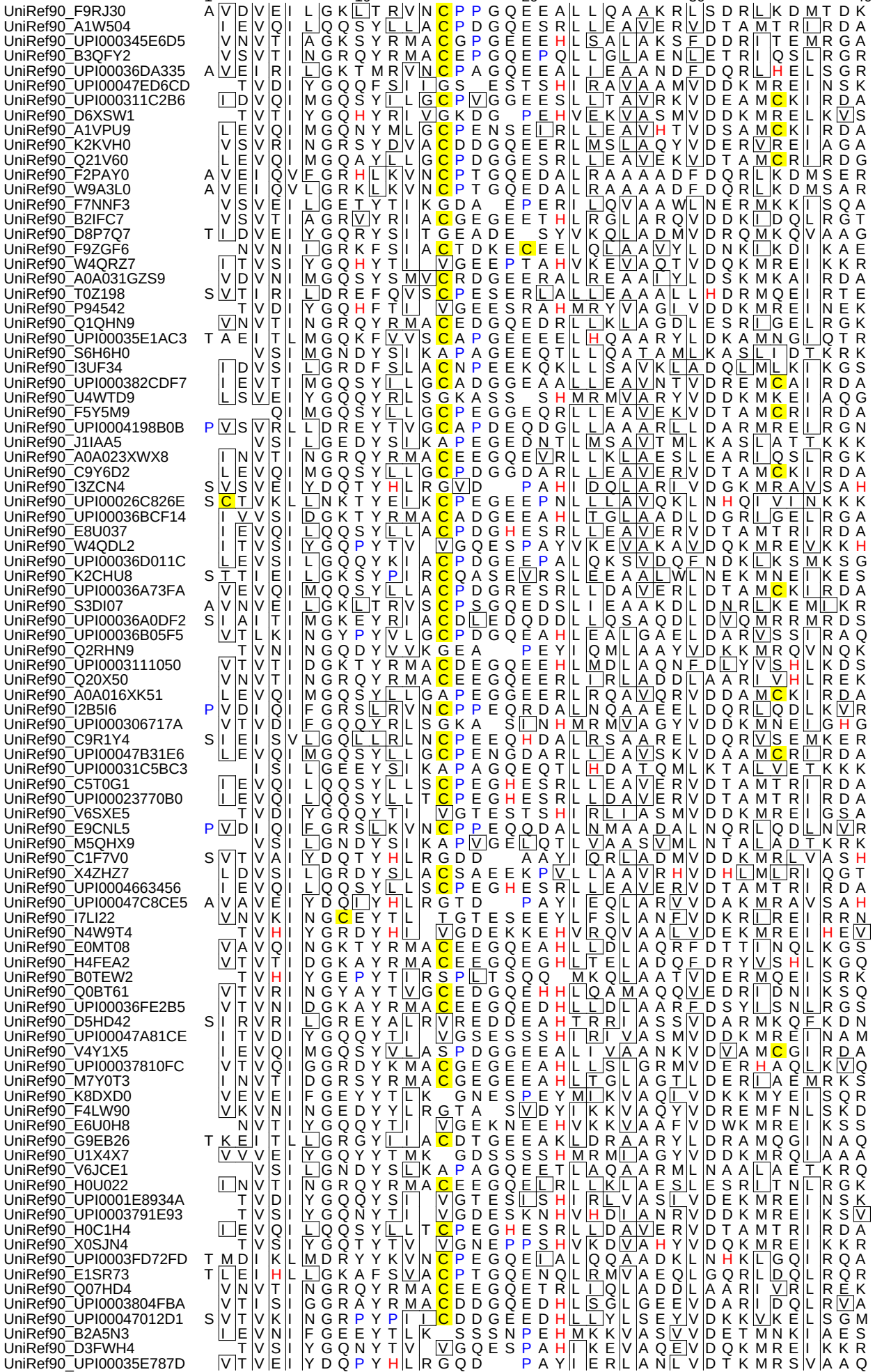

50
60
70
80
UniRef90_X0YD52
UniRef90_A0Y9S3
UniRef90_U7NEZ9
UniRef90_UPI00047355A5
UniRef90_C5BMD4
UniRef90_U5T8M5
UniRef90_UPI0002F1338E
UniRef90_UPI000365304E
UniRef90_UPI0003609635
UniRef90_A1K346
UniRef90_UPI000381CF78
UniRef90_G3IVV9
UniRef90_C6X8D7
UniRef90_A0A011PYJ6
UniRef90_E1V469
UniRef90_Q21EV8
UniRef90_F8GJA2
UniRef90_UPI000469C3AB
UniRef90_UPI0003B5E7B0
UniRef90_H1G154
UniRef90_UPI0003F9A079
UniRef90_H3NUT1
UniRef90_C3XBL9
UniRef90_UPI0002EA575F
UniRef90_U2EK27
UniRef90_F0LT50
UniRef90_Q2SN28
UniRef90_Q6LMP2
UniRef90_F1W2B7
UniRef90_F3L2K2
UniRef90_C7RM76
UniRef90_A4BS90
UniRef90_UPI00040319A8
UniRef90_S6B8F9
UniRef90_Q1YVJ5
UniRef90_N9VN75
UniRef90_H8YZ01
UniRef90_R4VQM4
UniRef90_C1D6G2
UniRef90_UPI0003672536
UniRef90_D0I4K5
UniRef90_Q8D2C1
UniRef90_UPI000262D0F2
UniRef90_Q82TJ7
UniRef90_Q0A5K8
UniRef90_UPI00041AF593
UniRef90_H5SAI2
UniRef90_A0A021W308
UniRef90_UPI0003B38229
UniRef90_M4U199
UniRef90_C4KDD4
UniRef90_G0A5T8
UniRef90_UPI0003789337
UniRef90_C0N702
UniRef90_UPI0002557EEE
UniRef90_W4LHM1
UniRef90_Q5P6F2
UniRef90_F5RCN2
UniRef90_U4KC77
UniRef90_W6M6K5
UniRef90_V7ID97
UniRef90_B8KU52
UniRef90_UPI00040A1523
UniRef90_W6LXX0
UniRef90_B7VK96
UniRef90_B8GNF1
UniRef90_I8T5A6
UniRef90_C4K7U9
UniRef90_I2JG40
UniRef90_M1FM91
UniRef90_UPI0003B48529
UniRef90_UPI000467D9EE
UniRef90_Z9JLT6
UniRef90_X1Q9L5
UniRef90_K2D692
UniRef90_E8VKP6
UniRef90_W7Q1T2
UniRef90_UPI0002E3EB9F
UniRef90_K2GSA9
UniRef90_F7SNQ4
UniRef90_UPI000363C6BC
UniRef90_L8JAU8
UniRef90_A0A011PU42
UniRef90_B8KLB1
UniRef90_K2C6H7
UniRef90_UPI0002558B64
UniRef90_V4JLY1
UniRef90_D7N255
UniRef90_D5CNY7
UniRef90_I4W199
UniRef90_U3ATH0
UniRef90_A0A011NHF9

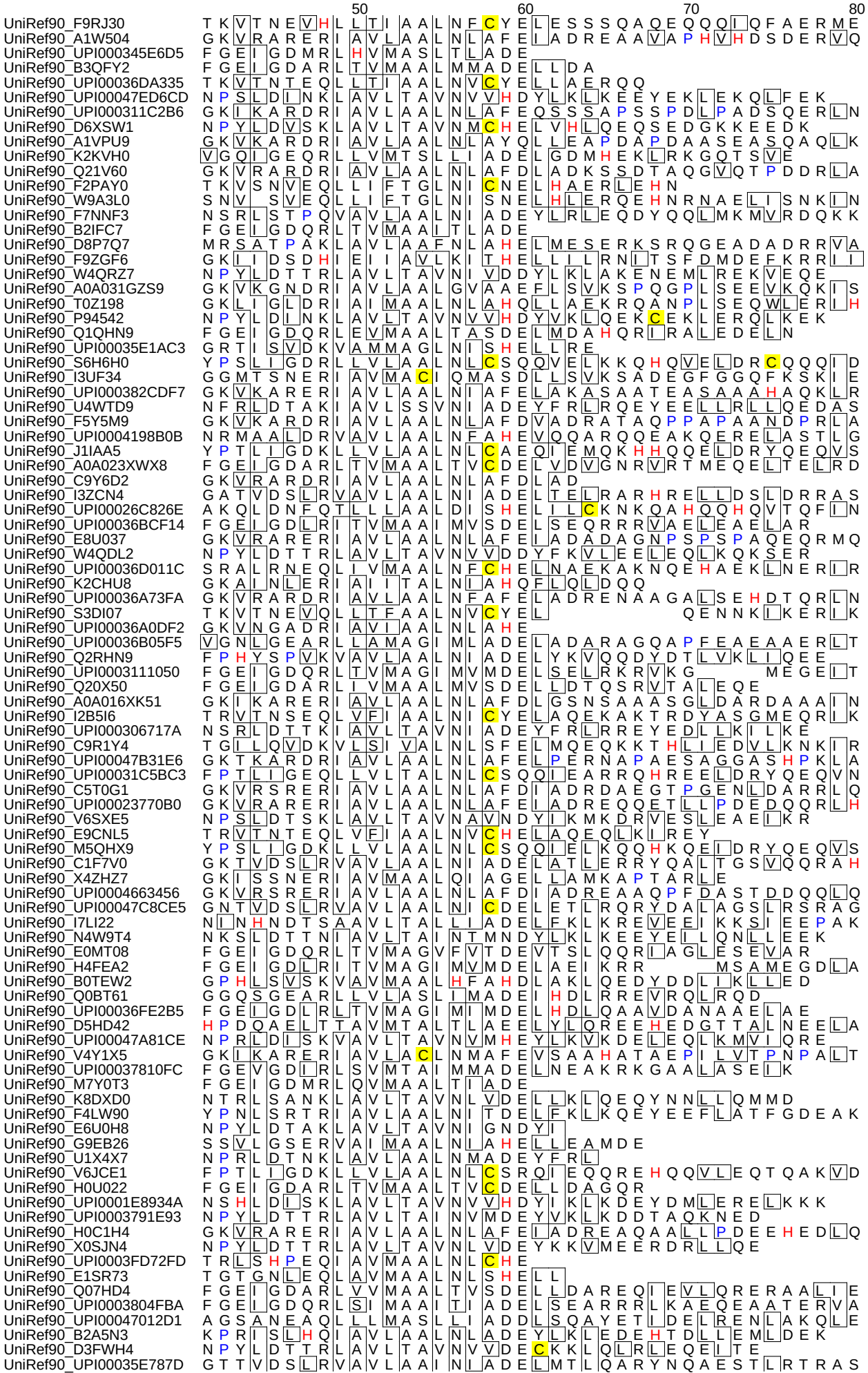

90
UniRef90_X0YD52 Q L N N R I D K T L A G
UniRef90_A0Y9S3 N L N D K L D E A L
UniRef90_U7NEZ9 A L S E R L E R A L A D
UniRef90_UPI00047355A5 A M H T V L D S A L A
UniRef90_C5BMD4 R L L G K L D S A L
UniRef90_U5T8M5 A L D A R I D D Y L E S
UniRef90_UPI0002F1338E S M H S I L D E A L A
UniRef90_UPI000365304E Q L A L D I D S T M S
UniRef90_UPI0003609635 D L R N K I E N V L E N
UniRef90_A1K346 L M K A R L D G V L A Q
UniRef90_UPI000381CF78 R M Q N K I E A Q L
UniRef90_G3IVV9 K M A H K I E N V L E N
UniRef90_C6X8D7
UniRef90_A0A011PYJ6 H M E T E L E A V L
UniRef90_E1V469 E L S Q R L E K A L A D
UniRef90_Q21EV8 R M M Q K I D K V L T S
UniRef90_F8GJA2 S L K N K V D E V I S
UniRef90_UPI000469C3AB V L D R Q L D A A L N Q
UniRef90_UPI0003B5E7B0 L L Q D L I E Q A L
UniRef90_H1G154
UniRef90_UPI0003F9A079 M L N R R L D D L L
UniRef90_H3NUT1 T I T S R I D E A L
UniRef90_C3XBL9 T M N R V L D Q A L
UniRef90_UPI0002EA575F D M N H M I D Q A L G Q
UniRef90_U2EK27 Q L Q L H I E S A L
UniRef90_F0LT50 K L T A S L E E A L S
UniRef90_Q2SN28 T L H E K L D A A L R N
UniRef90_Q6LMP2 L L T E T L D K A L Q N
UniRef90_F1W2B7 H M H T V L D Q A L
UniRef90_F3L2K2 S L C E K I E E A L
UniRef90_C7RM76
UniRef90_A4BS90
UniRef90_UPI00040319A8 D L N R K L D
UniRef90_S6B8F9
UniRef90_Q1YVJ5 S M N S K L S S A L S D
UniRef90_N9VN75 M L Q R T I E A A L
UniRef90_H8YZ01 G L Q E R V S H A
UniRef90_R4VQM4 Q L D Q T I S D Y L
UniRef90_C1D6G2 D I E N T A Q S T I S S
UniRef90_UPI0003672536
UniRef90_D0I4K5 L L Q Q T I E E A L
UniRef90_Q8D2C1 L L K N T I N Q A L I D
UniRef90_UPI000262D0F2 T T L E R L S E T
UniRef90_Q82TJ7 L L E C R V S D A L T D
UniRef90_Q0A5K8
UniRef90_UPI00041AF593 D L Q V T I E R V L
UniRef90_H5SAI2 K L N A L V D E A L T Q
UniRef90_A0A021W308 E L H R K L D S
UniRef90_UPI0003B38229 E M N R K L D
UniRef90_M4U199 T L N R R L D S V
UniRef90_C4KDD4 L M K A R L D G V L G Q
UniRef90_G0A5T8 D L R Q K I E N V L E N
UniRef90_UPI0003789337
UniRef90_C0N702
UniRef90_UPI0002557EEE R L H E K V Q A A L
UniRef90_W4LHM1 D L L V L L D Q H V G
UniRef90_Q5P6F2 F V N A R L D G V L A Q
UniRef90_F5RCN2 A M Q S R I D E A L S
UniRef90_U4KC77 L L S A S L D G A L K Q
UniRef90_W6M6K5 D M A Q K I D A I L S
UniRef90_V7ID97 A M I E S C D K A L
UniRef90_B8KU52
UniRef90_UPI00040A1523 A L I K R L D E A L G H
UniRef90_W6LXX0 D L L Q K V D A A L S
UniRef90_B7VK96 Q L T T S L S D V L S
UniRef90_B8GNF1
UniRef90_I8T5A6 Q L K L D I D S T L A
UniRef90_C4K7U9 L L Q K T I D D A L C D
UniRef90_I2JG40 R I N D K A E E T L
UniRef90_M1FM91 A M D D K L N I A L
UniRef90_UPI0003B48529 Q M S S D I D Q T L D Q
UniRef90_UPI000467D9EE
UniRef90_Z9JLT6 T L Q R R L E N A M
UniRef90_X1Q9L5 S L I L K I D E A
UniRef90_K2D692 N L K N K L C Q T L A
UniRef90_E8VKP6 Q L T D S L D K A L
UniRef90_W7Q1T2 R L S E R L E H A L T N
UniRef90_UPI0002E3EB9F L L S A S L D E A L S
UniRef90_K2GSA9 R L L R K V D D E I S
UniRef90_F7SNQ4 R L N D R L E R A L A D
UniRef90_UPI000363C6BC D M I Q A C E T A L
UniRef90_L8JAU8 A L A E S L D K A L Q N
UniRef90_A0A011PU42 S M E A E L D Q V L
UniRef90_B8KLB1 S L N A K L D E A L
UniRef90_K2C6H7 S L Q Q R I Q H F L E S
UniRef90_UPI0002558B64
UniRef90_V4JLY1 A L Q E R V S A A L V S
UniRef90_D7N255 D M T N A C D K A L S
UniRef90_D5CNY7
UniRef90_I4W199 A L R R K L E A A L
UniRef90_U3ATH0 K L N N S L E Q A L
UniRef90_A0A011NHF9 S M E A D I D A V L


1
10
20
30
40
UniRef90_A6GNG0
UniRef90_K0C576
UniRef90_E6SIV7
UniRef90_D0KZ67
UniRef90_G2LG38
UniRef90_L0W837
UniRef90_D4DM27
UniRef90_U1AUK1
UniRef90_E8M261
UniRef90_T1BRX5
UniRef90_UPI0004798020
UniRef90_B6BVH0
UniRef90_UPI000370EBFA
UniRef90_UPI00036C61CF
UniRef90_UPI000169AEB5
UniRef90_UPI00041C3E8E
UniRef90_Q143K9
UniRef90_A0A031MI38
UniRef90_UPI0002F58A86
UniRef90_C5AQQ1
UniRef90_F3LG43
UniRef90_I4VRL9
UniRef90_UPI000393C770
UniRef90_F5L8B8
UniRef90_UPI0003466FD9
UniRef90_A1WW95
UniRef90_UPI000395A4C6
UniRef90_W0SKC4
UniRef90_K1Z5W4
UniRef90_S9ZKV0
UniRef90_E1VFW2
UniRef90_UPI00028A3144
UniRef90_A0A024PWK6
UniRef90_UPI0003B59B01
UniRef90_G2J1X7
UniRef90_U0ETC1
UniRef90_C9PLY1
UniRef90_Q130G2
UniRef90_L8XZQ5
UniRef90_UPI0004282364
UniRef90_X2HDQ7
UniRef90_UPI00047914CC
UniRef90_S6HNA2
UniRef90_UPI0002D62AD3
UniRef90_G2JA55
UniRef90_U4TFE8
UniRef90_R7KPI9
UniRef90_A4IRL4
UniRef90_B6J621
UniRef90_V9HMG8
UniRef90_Q1ITS5
UniRef90_K2IIG7
UniRef90_E3BFU3
UniRef90_UPI0003466FE8
UniRef90_G4CT94
UniRef90_UPI000370F9B6
UniRef90_E6UV54
UniRef90_UPI0003B46511
UniRef90_A0P4Q0
UniRef90_C9QM91
UniRef90_UPI0002E01E05
UniRef90_UPI000401632A
UniRef90_UPI00037057EA
UniRef90_UPI00010738BA
UniRef90_E6PT18
UniRef90_Q0I2U9
UniRef90_W7WPB4
UniRef90_B2UAJ8
UniRef90_C6M3T4
UniRef90_UPI00041AF636
UniRef90_A2SI78
UniRef90_UPI00045E7BF0
UniRef90_S6I2C4
UniRef90_I3DFG9
UniRef90_D5X118
UniRef90_A0RJF5
UniRef90_UPI0003B5A44C
UniRef90_UPI0003746993
UniRef90_A1TMD6
UniRef90_F0EZM3
UniRef90_H5WKI9
UniRef90_K2M549
UniRef90_K6BIK4
UniRef90_A0A024IFM9
UniRef90_UPI00036710B7
UniRef90_F2BG32
UniRef90_UPI00037B67BF
UniRef90_T1C6L7
UniRef90_UPI000464A742
UniRef90_E5AN43
UniRef90_C4GHE0
UniRef90_I4NB04

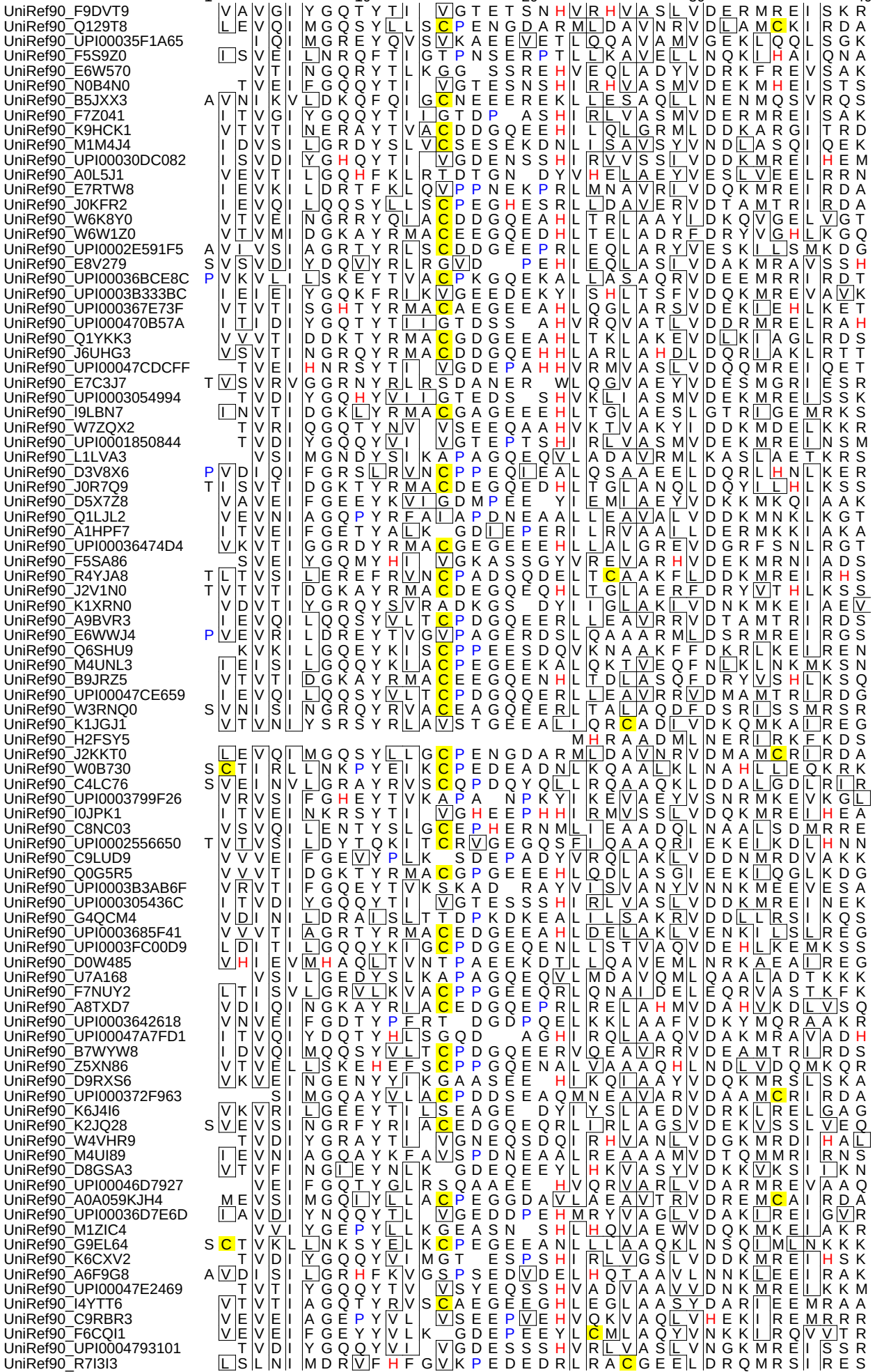

50
60
70
80
UniRef90_A6GNG0
UniRef90_K0C576
UniRef90_E6SIV7
UniRef90_D0KZ67
UniRef90_G2LG38
UniRef90_L0W837
UniRef90_D4DM27
UniRef90_U1AUK1
UniRef90_E8M261
UniRef90_T1BRX5
UniRef90_UPI0004798020
UniRef90_B6BVH0
UniRef90_UPI000370EBFA
UniRef90_UPI00036C61CF
UniRef90_UPI000169AEB5
UniRef90_UPI00041C3E8E
UniRef90_Q143K9
UniRef90_A0A031MI38
UniRef90_UPI0002F58A86
UniRef90_C5AQQ1
UniRef90_F3LG43
UniRef90_I4VRL9
UniRef90_UPI000393C770
UniRef90_F5L8B8
UniRef90_UPI0003466FD9
UniRef90_A1WW95
UniRef90_UPI000395A4C6
UniRef90_W0SKC4
UniRef90_K1Z5W4
UniRef90_S9ZKV0
UniRef90_E1VFW2
UniRef90_UPI00028A3144
UniRef90_A0A024PWK6
UniRef90_UPI0003B59B01
UniRef90_G2J1X7
UniRef90_U0ETC1
UniRef90_C9PLY1
UniRef90_Q130G2
UniRef90_L8XZQ5
UniRef90_UPI0004282364
UniRef90_X2HDQ7
UniRef90_UPI00047914CC
UniRef90_S6HNA2
UniRef90_UPI0002D62AD3
UniRef90_G2JA55
UniRef90_U4TFE8
UniRef90_R7KPI9
UniRef90_A4IRL4
UniRef90_B6J621
UniRef90_V9HMG8
UniRef90_Q1ITS5
UniRef90_K2IIG7
UniRef90_E3BFU3
UniRef90_UPI0003466FE8
UniRef90_G4CT94
UniRef90_UPI000370F9B6
UniRef90_E6UV54
UniRef90_UPI0003B46511
UniRef90_A0P4Q0
UniRef90_C9QM91
UniRef90_UPI0002E01E05
UniRef90_UPI000401632A
UniRef90_UPI00037057EA
UniRef90_UPI00010738BA
UniRef90_E6PT18
UniRef90_Q0I2U9
UniRef90_W7WPB4
UniRef90_B2UAJ8
UniRef90_C6M3T4
UniRef90_UPI00041AF636
UniRef90_A2SI78
UniRef90_UPI00045E7BF0
UniRef90_S6I2C4
UniRef90_I3DFG9
UniRef90_D5X118
UniRef90_A0RJF5
UniRef90_UPI0003B5A44C
UniRef90_UPI0003746993
UniRef90_A1TMD6
UniRef90_F0EZM3
UniRef90_H5WKI9
UniRef90_K2M549
UniRef90_K6BIK4
UniRef90_A0A024IFM9
UniRef90_UPI00036710B7
UniRef90_F2BG32
UniRef90_UPI00037B67BF
UniRef90_T1C6L7
UniRef90_UPI000464A742
UniRef90_E5AN43
UniRef90_C4GHE0
UniRef90_I4NB04

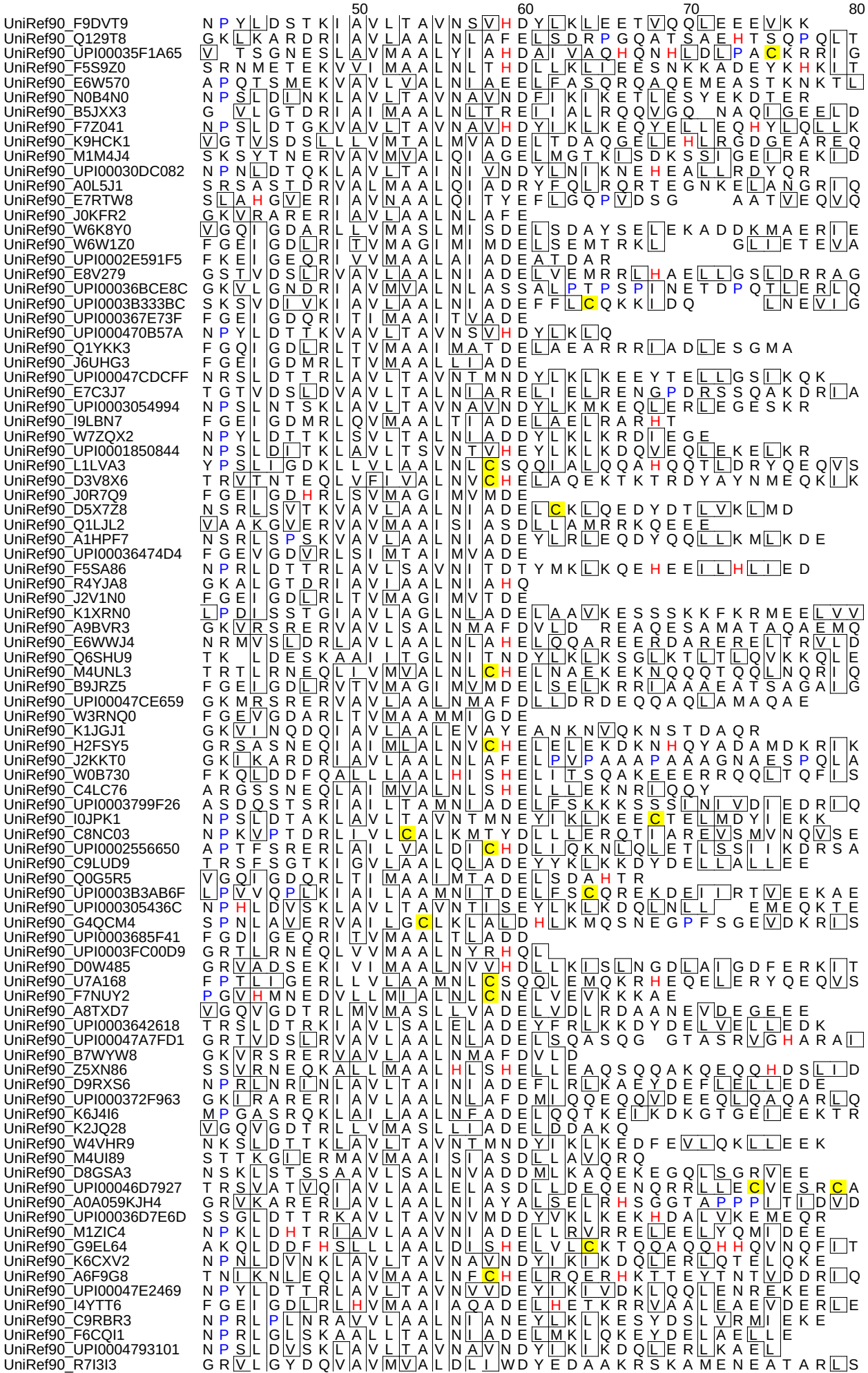

90
UniRef90_A6GNG0 A I E Q M V D G S L N N
UniRef90_K0C576
UniRef90_E6SIV7 E L N
UniRef90_D0KZ67 E L I D R I D A A L
UniRef90_G2LG38 D Y A N L I D S V L
UniRef90_L0W837 S L L N R L E A
UniRef90_D4DM27 D M V G V C E K A L S
UniRef90_U1AUK1 N M G E A A D Q A L
UniRef90_E8M261 L L S A S L S D A L S
UniRef90_T1BRX5 L L R R K L E A A L P D
UniRef90_UPI0004798020 S L V Q R L D R A L G
UniRef90_B6BVH0 N F D K I L D Q A L S N
UniRef90_UPI000370EBFA S M S E A A D Q A L S
UniRef90_UPI00036C61CF A M H K V L D T A L
UniRef90_UPI000169AEB5 M L Q Q T M N E
UniRef90_UPI00041C3E8E E L Q R K L D T L L
UniRef90_Q143K9 R T M H Q M N E Q L G T
UniRef90_A0A031MI38
UniRef90_UPI0002F58A86 L L D G K L D K A L
UniRef90_C5AQQ1
UniRef90_F3LG43 N I H Q R I D A V L
UniRef90_I4VRL9 T L R H K L D A A
UniRef90_UPI000393C770 L L S T S L D Q V I
UniRef90_F5L8B8
UniRef90_UPI0003466FD9 K L T S A L E
UniRef90_A1WW95
UniRef90_UPI000395A4C6 L M T V Q L D K A V A
UniRef90_W0SKC4 S I E A K L D E S L A Q
UniRef90_K1Z5W4 H L Q K L L D N A
UniRef90_S9ZKV0 L M K A R L D G V L E Q
UniRef90_E1VFW2
UniRef90_UPI00028A3144 Q L S E R L E R A M A G
UniRef90_A0A024PWK6
UniRef90_UPI0003B59B01 A M S R L I D E V L
UniRef90_G2J1X7 T M S E A A D A A L Q Q
UniRef90_U0ETC1 K L T A S L S D A L S
UniRef90_C9PLY1 Q L D H S L D T I L
UniRef90_Q130G2 D R S Q S I D R T V T T
UniRef90_L8XZQ5 S L N E K L D A A L
UniRef90_UPI0004282364
UniRef90_X2HDQ7 D M I Q L C E S T L
UniRef90_UPI00047914CC K L T G L L D S V L G
UniRef90_S6HNA2 R L S E K I N K S L T S
UniRef90_UPI0002D62AD3 D V E E R L A E A V S T
UniRef90_G2JA55 T I V Q R L N Q Q I G T
UniRef90_U4TFE8
UniRef90_R7KPI9 S L I A L C D N T L A D
UniRef90_A4IRL4
UniRef90_B6J621
UniRef90_V9HMG8 A L I Q M C D D A L V G
UniRef90_Q1ITS5 H L E G A L D E I L A
UniRef90_K2IIG7 V L Q T T I E Q A L V N
UniRef90_E3BFU3 K L V L S L D K C I G T
UniRef90_UPI0003466FE8 L G E R L D E A L K D
UniRef90_G4CT94 D M L Q V S E R A L A
UniRef90_UPI000370F9B6 R L Q Q R L D A A L
UniRef90_E6UV54 Q L I Q K L D Q A L A G
UniRef90_UPI0003B46511
UniRef90_A0P4Q0 D F N K L L D S I L
UniRef90_C9QM91 Q L S A S L D S A M S
UniRef90_UPI0002E01E05 Q L L K R L D Q V L E Q
UniRef90_UPI000401632A
UniRef90_UPI00037057EA S L E S K I N K T V G G
UniRef90_UPI00010738BA S L I E R I E E
UniRef90_E6PT18 R I N H Q L D T A L E T
UniRef90_Q0I2U9 Q L E G S L E N I L A Q
UniRef90_W7WPB4 E L I R R L D Q T L G S
UniRef90_B2UAJ8 D L N A R T D E A L
UniRef90_C6M3T4 D M N N A C Q K A L A
UniRef90_UPI00041AF636 G L A A R L D D A L G S
UniRef90_A2SI78 A L I G R I D E T L G
UniRef90_UPI00045E7BF0
UniRef90_S6I2C4
UniRef90_I3DFG9 Q L T H S L E R
UniRef90_D5X118 Q L T R Q L D D A L G
UniRef90_A0RJF5
UniRef90_UPI0003B5A44C
UniRef90_UPI0003746993 Q L L L R L D E A L G D
UniRef90_A1TMD6
UniRef90_F0EZM3 S L I E L C D S A L
UniRef90_H5WKI9 A L I Q R V E S A L G H
UniRef90_K2M549 S L S A A E G D A L A
UniRef90_K6BIK4 A T V D V I A K T L S Q
UniRef90_A0A024IFM9
UniRef90_UPI00036710B7 L L Q S T I E Q A L S
UniRef90_F2BG32 D M V Q A C D K A L A
UniRef90_UPI00037B67BF S I G D R I E D V I
UniRef90_T1C6L7 A V E D Q L D R
UniRef90_UPI000464A742 A M N T D I D N A V S
UniRef90_E5AN43
UniRef90_C4GHE0 S L I K L C D E T L S
UniRef90_I4NB04 A T V D V I K N T I S H


1
10
20
30
40
UniRef90_F9RJ30
UniRef90_A1W504
UniRef90_UPI000345E6D5
UniRef90_B3QFY2
UniRef90_UPI00036DA335
UniRef90_UPI00047ED6CD
UniRef90_UPI000311C2B6
UniRef90_D6XSW1
UniRef90_A1VPU9
UniRef90_K2KVH0
UniRef90_Q21V60
UniRef90_F2PAY0
UniRef90_W9A3L0
UniRef90_F7NNF3
UniRef90_B2IFC7
UniRef90_D8P7Q7
UniRef90_F9ZGF6
UniRef90_W4QRZ7
UniRef90_A0A031GZS9
UniRef90_T0Z198
UniRef90_P94542
UniRef90_Q1QHN9
UniRef90_UPI00035E1AC3
UniRef90_S6H6H0
UniRef90_I3UF34
UniRef90_UPI000382CDF7
UniRef90_U4WTD9
UniRef90_F5Y5M9
UniRef90_UPI0004198B0B
UniRef90_J1IAA5
UniRef90_A0A023XWX8
UniRef90_C9Y6D2
UniRef90_I3ZCN4
UniRef90_UPI00026C826E
UniRef90_UPI00036BCF14
UniRef90_E8U037
UniRef90_W4QDL2
UniRef90_UPI00036D011C
UniRef90_K2CHU8
UniRef90_UPI00036A73FA
UniRef90_S3DI07
UniRef90_UPI00036A0DF2
UniRef90_UPI00036B05F5
UniRef90_Q2RHN9
UniRef90_UPI0003111050
UniRef90_Q20X50
UniRef90_A0A016XK51
UniRef90_I2B5I6
UniRef90_UPI000306717A
UniRef90_C9R1Y4
UniRef90_UPI00047B31E6
UniRef90_UPI00031C5BC3
UniRef90_C5T0G1
UniRef90_UPI00023770B0
UniRef90_V6SXE5
UniRef90_E9CNL5
UniRef90_M5QHX9
UniRef90_C1F7V0
UniRef90_X4ZHZ7
UniRef90_UPI0004663456
UniRef90_UPI00047C8CE5
UniRef90_I7LI22
UniRef90_N4W9T4
UniRef90_E0MT08
UniRef90_H4FEA2
UniRef90_B0TEW2
UniRef90_Q0BT61
UniRef90_UPI00036FE2B5
UniRef90_D5HD42
UniRef90_UPI00047A81CE
UniRef90_V4Y1X5
UniRef90_UPI00037810FC
UniRef90_M7Y0T3
UniRef90_K8DXD0
UniRef90_F4LW90
UniRef90_E6U0H8
UniRef90_G9EB26
UniRef90_U1X4X7
UniRef90_V6JCE1
UniRef90_H0U022
UniRef90_UPI0001E8934A
UniRef90_UPI0003791E93
UniRef90_H0C1H4
UniRef90_X0SJN4
UniRef90_UPI0003FD72FD
UniRef90_E1SR73
UniRef90_Q07HD4
UniRef90_UPI0003804FBA
UniRef90_UPI00047012D1
UniRef90_B2A5N3
UniRef90_D3FWH4
UniRef90_UPI00035E787D

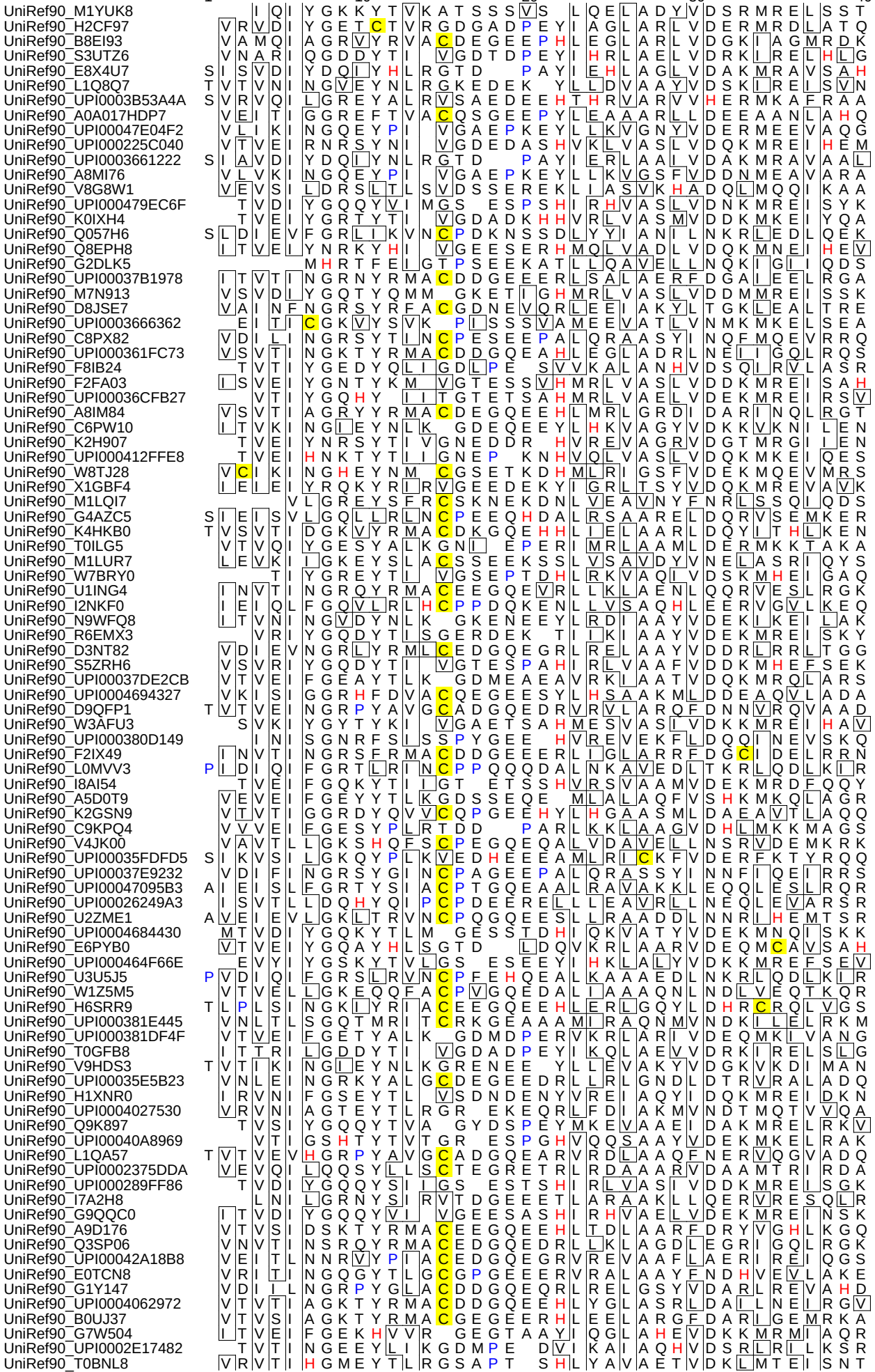

50
60
70
80
UniRef90_F9RJ30
UniRef90_A1W504
UniRef90_UPI000345E6D5
UniRef90_B3QFY2
UniRef90_UPI00036DA335
UniRef90_UPI00047ED6CD
UniRef90_UPI000311C2B6
UniRef90_D6XSW1
UniRef90_A1VPU9
UniRef90_K2KVH0
UniRef90_Q21V60
UniRef90_F2PAY0
UniRef90_W9A3L0
UniRef90_F7NNF3
UniRef90_B2IFC7
UniRef90_D8P7Q7
UniRef90_F9ZGF6
UniRef90_W4QRZ7
UniRef90_A0A031GZS9
UniRef90_T0Z198
UniRef90_P94542
UniRef90_Q1QHN9
UniRef90_UPI00035E1AC3
UniRef90_S6H6H0
UniRef90_I3UF34
UniRef90_UPI000382CDF7
UniRef90_U4WTD9
UniRef90_F5Y5M9
UniRef90_UPI0004198B0B
UniRef90_J1IAA5
UniRef90_A0A023XWX8
UniRef90_C9Y6D2
UniRef90_I3ZCN4
UniRef90_UPI00026C826E
UniRef90_UPI00036BCF14
UniRef90_E8U037
UniRef90_W4QDL2
UniRef90_UPI00036D011C
UniRef90_K2CHU8
UniRef90_UPI00036A73FA
UniRef90_S3DI07
UniRef90_UPI00036A0DF2
UniRef90_UPI00036B05F5
UniRef90_Q2RHN9
UniRef90_UPI0003111050
UniRef90_Q20X50
UniRef90_A0A016XK51
UniRef90_I2B5I6
UniRef90_UPI000306717A
UniRef90_C9R1Y4
UniRef90_UPI00047B31E6
UniRef90_UPI00031C5BC3
UniRef90_C5T0G1
UniRef90_UPI00023770B0
UniRef90_V6SXE5
UniRef90_E9CNL5
UniRef90_M5QHX9
UniRef90_C1F7V0
UniRef90_X4ZHZ7
UniRef90_UPI0004663456
UniRef90_UPI00047C8CE5
UniRef90_I7LI22
UniRef90_N4W9T4
UniRef90_E0MT08
UniRef90_H4FEA2
UniRef90_B0TEW2
UniRef90_Q0BT61
UniRef90_UPI00036FE2B5
UniRef90_D5HD42
UniRef90_UPI00047A81CE
UniRef90_V4Y1X5
UniRef90_UPI00037810FC
UniRef90_M7Y0T3
UniRef90_K8DXD0
UniRef90_F4LW90
UniRef90_E6U0H8
UniRef90_G9EB26
UniRef90_U1X4X7
UniRef90_V6JCE1
UniRef90_H0U022
UniRef90_UPI0001E8934A
UniRef90_UPI0003791E93
UniRef90_H0C1H4
UniRef90_X0SJN4
UniRef90_UPI0003FD72FD
UniRef90_E1SR73
UniRef90_Q07HD4
UniRef90_UPI0003804FBA
UniRef90_UPI00047012D1
UniRef90_B2A5N3
UniRef90_D3FWH4
UniRef90_UPI00035E787D

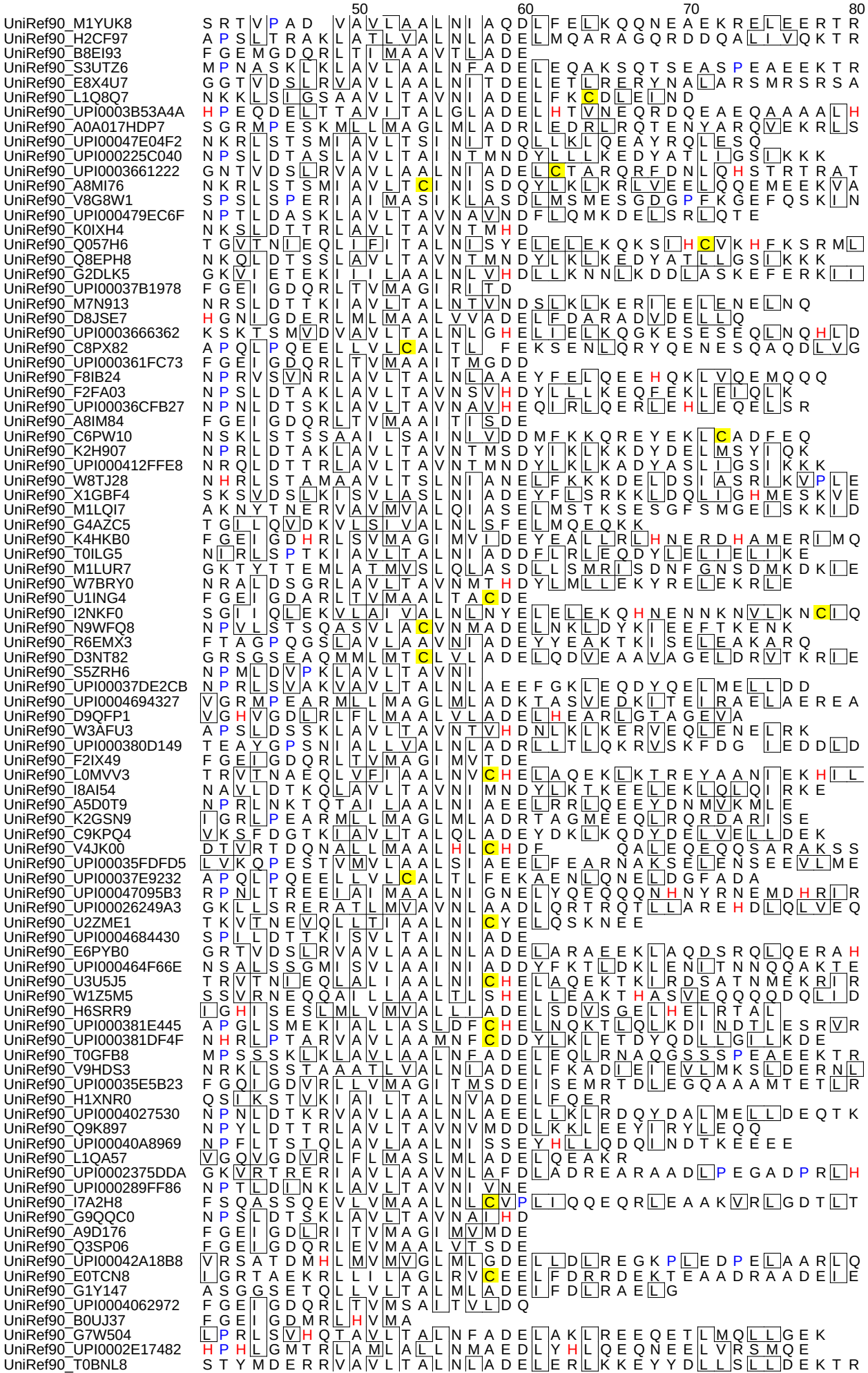
	90
UniRef90_F9RJ30	K L T A S L D D A L S
UniRef90_A1W504	Q L L L R L D E A L G
UniRef90_UPI000345E6D5	
UniRef90_B3QFY2	
UniRef90_UPI00036DA335	
UniRef90_UPI00047ED6CD	
UniRef90_UPI000311C2B6	Q L L K R L D Q V I E
UniRef90_D6XSW1	
UniRef90_A1VPU9	A L L E R L D T A L A S
UniRef90_K2KVH0	
UniRef90_Q21V60	S L L E R L D V A L G T
UniRef90_F2PAY0	
UniRef90_W9A3L0	S I E E N L D K V L
UniRef90_F7NNF3	N L
UniRef90_B2IFC7	
UniRef90_D8P7Q7	S L M E S I D Q
UniRef90_F9ZGF6	T L E K K V D E A I A
UniRef90_W4QRZ7	
UniRef90_A0A031GZS9	A M H T V L D S A L
UniRef90_T0Z198	L L N E Q L
UniRef90_P94542	
UniRef90_Q1QHN9	
UniRef90_UPI00035E1AC3	
UniRef90_S6H6H0	A T V E V I S R T I A Q
UniRef90_I3UF34	E L N T L L D S G L N D
UniRef90_UPI000382CDF7	A L M A R I D E A L S Q
UniRef90_U4WTD9	K M
UniRef90_F5Y5M9	Q L L Q R L D H V L G D
UniRef90_UPI0004198B0B	R M Q Q L L D S A L A
UniRef90_J1IAA5	A T V E V I S K A I G T
UniRef90_A0A023XWX8	F R N A A V E R A
UniRef90_C9Y6D2	
UniRef90_I3ZCN4	S L S N M L D E A L S
UniRef90_UPI00026C826E	S L E N K I N K M V G G
UniRef90_UPI00036BCF14	
UniRef90_E8U037	Q L L L R L D E A L G D
UniRef90_W4QDL2	
UniRef90_UPI00036D011C	T L Q S S I E T V L
UniRef90_K2CHU8	
UniRef90_UPI00036A73FA	Q L I R Q L D N A L G G
UniRef90_S3DI07	L L A K S L E N A L
UniRef90_UPI00036A0DF2	
UniRef90_UPI00036B05F5	R L A R R L D G V
UniRef90_Q2RHN9	
UniRef90_UPI0003111050	T L R K T R D E A M
UniRef90_Q20X50	
UniRef90_A0A016XK51	T L I T R L D Q A L G
UniRef90_I2B5I6	M L Q Q T I E D A L
UniRef90_UPI000306717A	
UniRef90_C9R1Y4	P L D H S L E N
UniRef90_UPI00047B31E6	A L L Q R M D I A L G T
UniRef90_UPI00031C5BC3	S T V E V I S K T I G Q
UniRef90_C5T0G1	T L V Q R L D E V L G D
UniRef90_UPI00023770B0	G L V Q R L D Q A L G D
UniRef90_V6SXE5	
UniRef90_E9CNL5	
UniRef90_M5QHX9	A T V E V I E R T L G Q
UniRef90_C1F7V0	T L S G L L D A V L E D
UniRef90_X4ZHZ7	
UniRef90_UPI0004663456	A L V R R L D D A L G
UniRef90_UPI00047C8CE5	S L A G M L D E I L D D
UniRef90_I7LI22	K L E
UniRef90_N4W9T4	
UniRef90_E0MT08	
UniRef90_H4FEA2	S L R E G R D S A V S G
UniRef90_B0TEW2	
UniRef90_Q0BT61	
UniRef90_UPI00036FE2B5	
UniRef90_D5HD42	R L S K Q L E E
UniRef90_UPI00047A81CE	
UniRef90_V4Y1X5	S L I K K L D D A L A Q
UniRef90_UPI00037810FC	
UniRef90_M7Y0T3	
UniRef90_K8DXD0	
UniRef90_F4LW90	D
UniRef90_E6U0H8	
UniRef90_G9EB26	
UniRef90_U1X4X7	
UniRef90_V6JCE1	A T V E A I
UniRef90_H0U022	
UniRef90_UPI0001E8934A	
UniRef90_UPI0003791E93	
UniRef90_H0C1H4	R L V Q R L D Q A L G D
UniRef90_X0SJN4	
UniRef90_UPI0003FD72FD	
UniRef90_E1SR73	
UniRef90_Q07HD4	
UniRef90_UPI0003804FBA	R
UniRef90_UPI00047012D1	A I A D R L E K A
UniRef90_B2A5N3	
UniRef90_D3FWH4	
UniRef90_UPI00035E787D	N L N G L L D S V L T S


1
10
20
30
40
UniRef90_F9DVT9
UniRef90_Q129T8
UniRef90_UPI00035F1A65
UniRef90_F5S9Z0
UniRef90_E6W570
UniRef90_N0B4N0
UniRef90_B5JXX3
UniRef90_F7Z041
UniRef90_K9HCK1
UniRef90_M1M4J4
UniRef90_UPI00030DC082
UniRef90_A0L5J1
UniRef90_E7RTW8
UniRef90_J0KFR2
UniRef90_W6K8Y0
UniRef90_W6W1Z0
UniRef90_UPI0002E591F5
UniRef90_E8V279
UniRef90_UPI00036BCE8C
UniRef90_UPI0003B333BC
UniRef90_UPI000367E73F
UniRef90_UPI000470B57A
UniRef90_Q1YKK3
UniRef90_J6UHG3
UniRef90_UPI00047CDCFF
UniRef90_E7C3J7
UniRef90_UPI0003054994
UniRef90_I9LBN7
UniRef90_W7ZQX2
UniRef90_UPI0001850844
UniRef90_L1LVA3
UniRef90_D3V8X6
UniRef90_J0R7Q9
UniRef90_D5X7Z8
UniRef90_Q1LJL2
UniRef90_A1HPF7
UniRef90_UPI00036474D4
UniRef90_F5SA86
UniRef90_R4YJA8
UniRef90_J2V1N0
UniRef90_K1XRN0
UniRef90_A9BVR3
UniRef90_E6WWJ4
UniRef90_Q6SHU9
UniRef90_M4UNL3
UniRef90_B9JRZ5
UniRef90_UPI00047CE659
UniRef90_W3RNQ0
UniRef90_K1JGJ1
UniRef90_H2FSY5
UniRef90_J2KKT0
UniRef90_W0B730
UniRef90_C4LC76
UniRef90_UPI0003799F26
UniRef90_I0JPK1
UniRef90_C8NC03
UniRef90_UPI0002556650
UniRef90_C9LUD9
UniRef90_Q0G5R5
UniRef90_UPI0003B3AB6F
UniRef90_UPI000305436C
UniRef90_G4QCM4
UniRef90_UPI0003685F41
UniRef90_UPI0003FC00D9
UniRef90_D0W485
UniRef90_U7A168
UniRef90_F7NUY2
UniRef90_A8TXD7
UniRef90_UPI0003642618
UniRef90_UPI00047A7FD1
UniRef90_B7WYW8
UniRef90_Z5XN86
UniRef90_D9RXS6
UniRef90_UPI000372F963
UniRef90_K6J4I6
UniRef90_K2JQ28
UniRef90_W4VHR9
UniRef90_M4UI89
UniRef90_D8GSA3
UniRef90_UPI00046D7927
UniRef90_A0A059KJH4
UniRef90_UPI00036D7E6D
UniRef90_M1ZIC4
UniRef90_G9EL64
UniRef90_K6CXV2
UniRef90_A6F9G8
UniRef90_UPI00047E2469
UniRef90_I4YTT6
UniRef90_C9RBR3
UniRef90_F6CQI1
UniRef90_UPI0004793101
UniRef90_R7I3I3


50
60
70
80
UniRef90_F9DVT9
UniRef90_Q129T8
UniRef90_UPI00035F1A65
UniRef90_F5S9Z0
UniRef90_E6W570
UniRef90_N0B4N0
UniRef90_B5JXX3
UniRef90_F7Z041
UniRef90_K9HCK1
UniRef90_M1M4J4
UniRef90_UPI00030DC082
UniRef90_A0L5J1
UniRef90_E7RTW8
UniRef90_J0KFR2
UniRef90_W6K8Y0
UniRef90_W6W1Z0
UniRef90_UPI0002E591F5
UniRef90_E8V279
UniRef90_UPI00036BCE8C
UniRef90_UPI0003B333BC
UniRef90_UPI000367E73F
UniRef90_UPI000470B57A
UniRef90_Q1YKK3
UniRef90_J6UHG3
UniRef90_UPI00047CDCFF
UniRef90_E7C3J7
UniRef90_UPI0003054994
UniRef90_I9LBN7
UniRef90_W7ZQX2
UniRef90_UPI0001850844
UniRef90_L1LVA3
UniRef90_D3V8X6
UniRef90_J0R7Q9
UniRef90_D5X7Z8
UniRef90_Q1LJL2
UniRef90_A1HPF7
UniRef90_UPI00036474D4
UniRef90_F5SA86
UniRef90_R4YJA8
UniRef90_J2V1N0
UniRef90_K1XRN0
UniRef90_A9BVR3
UniRef90_E6WWJ4
UniRef90_Q6SHU9
UniRef90_M4UNL3
UniRef90_B9JRZ5
UniRef90_UPI00047CE659
UniRef90_W3RNQ0
UniRef90_K1JGJ1
UniRef90_H2FSY5
UniRef90_J2KKT0
UniRef90_W0B730
UniRef90_C4LC76
UniRef90_UPI0003799F26
UniRef90_I0JPK1
UniRef90_C8NC03
UniRef90_UPI0002556650
UniRef90_C9LUD9
UniRef90_Q0G5R5
UniRef90_UPI0003B3AB6F
UniRef90_UPI000305436C
UniRef90_G4QCM4
UniRef90_UPI0003685F41
UniRef90_UPI0003FC00D9
UniRef90_D0W485
UniRef90_U7A168
UniRef90_F7NUY2
UniRef90_A8TXD7
UniRef90_UPI0003642618
UniRef90_UPI00047A7FD1
UniRef90_B7WYW8
UniRef90_Z5XN86
UniRef90_D9RXS6
UniRef90_UPI000372F963
UniRef90_K6J4I6
UniRef90_K2JQ28
UniRef90_W4VHR9
UniRef90_M4UI89
UniRef90_D8GSA3
UniRef90_UPI00046D7927
UniRef90_A0A059KJH4
UniRef90_UPI00036D7E6D
UniRef90_M1ZIC4
UniRef90_G9EL64
UniRef90_K6CXV2
UniRef90_A6F9G8
UniRef90_UPI00047E2469
UniRef90_I4YTT6
UniRef90_C9RBR3
UniRef90_F6CQI1
UniRef90_UPI0004793101
UniRef90_R7I3I3

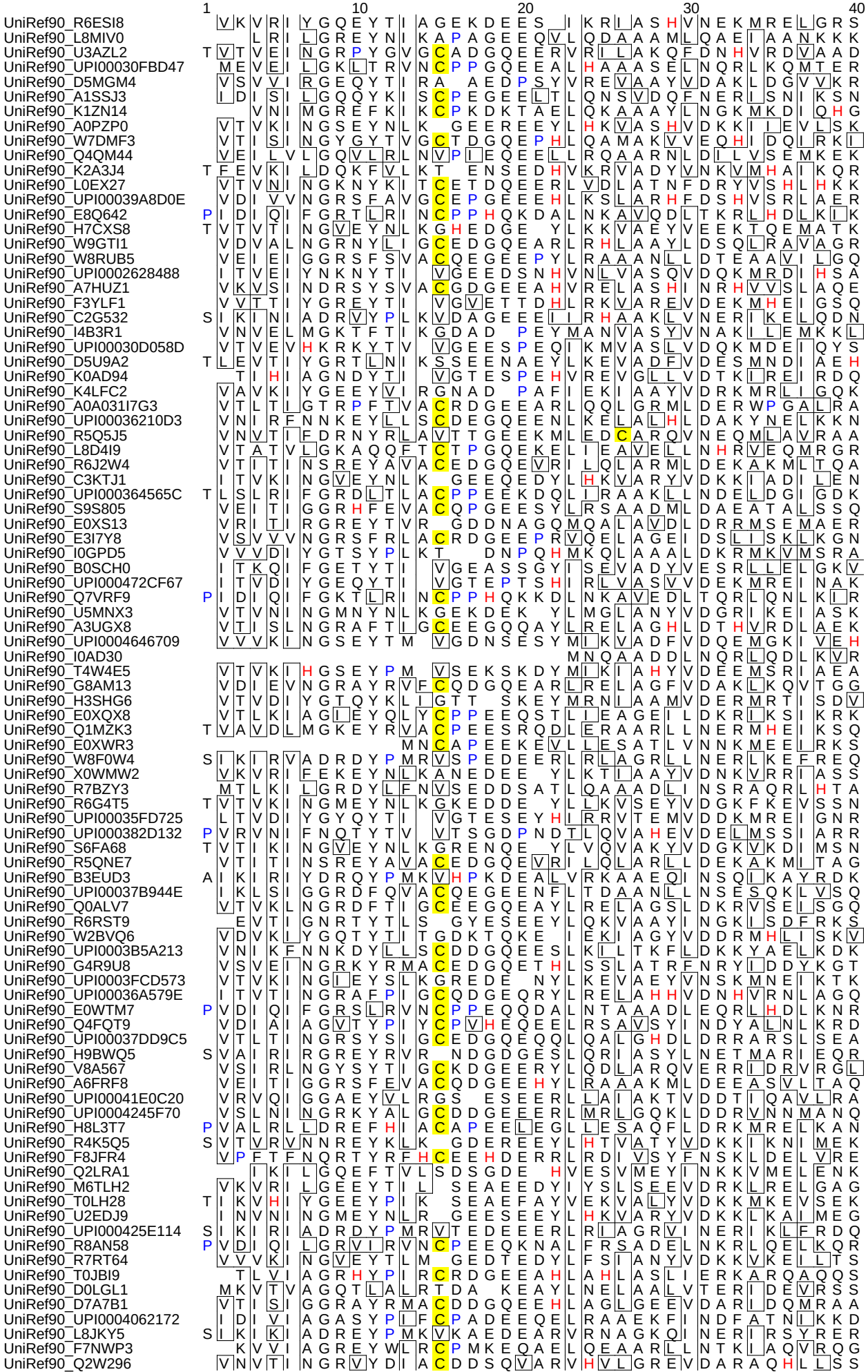
UniRef90_F9DVT9
UniRef90_Q129T8 A L L Q R L D N A L G
UniRef90_UPI00035F1A65 A V N D R L E Q V L G Q
UniRef90_F5S9Z0 E L I A L C D D A L
UniRef90_E6W570 D I L K V I D G K L
UniRef90_N0B4N0
UniRef90_B5JXX3 A L S Q Q I D D A I A T
UniRef90_F7Z041 K
UniRef90_K9HCK1 A E A D V V E K
UniRef90_M1M4J4 S I S L R I E S I L
UniRef90_UPI00030DC082 L L E K I E K
UniRef90_A0L5J1 R L I E A T D R V L A
UniRef90_E7RTW8 T L V T Q L N N E L D D
UniRef90_J0KFR2
UniRef90_W6K8Y0 A L A Q R V E S
UniRef90_W6W1Z0 S L K F H R D G A L E N
UniRef90_UPI0002E591F5
UniRef90_E8V279 S L N G L L D E V L
UniRef90_UPI00036BCE8C G I Q A K L D S A L
UniRef90_UPI0003B333BC H M E S G I E S
UniRef90_UPI000367E73F
UniRef90_UPI000470B57A
UniRef90_Q1YKK3
UniRef90_J6UHG3
UniRef90_UPI00047CDCFF
UniRef90_E7C3J7 S L I D R V E S V L T S
UniRef90_UPI0003054994
UniRef90_I9LBN7
UniRef90_W7ZQX2
UniRef90_UPI0001850844
UniRef90_L1LVA3 A T V D A I S Q A I D N
UniRef90_D3V8X6 M L Q Q S I E N A L
UniRef90_J0R7Q9
UniRef90_D5X7Z8
UniRef90_Q1LJL2
UniRef90_A1HPF7
UniRef90_UPI00036474D4
UniRef90_F5SA86
UniRef90_R4YJA8
UniRef90_J2V1N0
UniRef90_K1XRN0 S V I E D I D V K L S
UniRef90_A9BVR3 S L H D E V
UniRef90_E6WWJ4 S L D R R L D G L L G
UniRef90_Q6SHU9 S L S K L D S
UniRef90_M4UNL3 A L H Q S I E E A L
UniRef90_B9JRZ5 R
UniRef90_UPI00047CE659
UniRef90_W3RNQ0
UniRef90_K1JGJ1
UniRef90_H2FSY5 M L Q H T I E D A L A S
UniRef90_J2KKT0 A L L L R L D T A L G
UniRef90_W0B730 S L E N K I N Q
UniRef90_C4LC76
UniRef90_UPI0003799F26 S L V D Y I D E
UniRef90_I0JPK1
UniRef90_C8NC03 R L I S A L S Q A I A
UniRef90_UPI0002556650 R L E Q V L N N
UniRef90_C9LUD9
UniRef90_Q0G5R5
UniRef90_UPI0003B3AB6F F L I E E I D E N L
UniRef90_UPI000305436C K
UniRef90_G4QCM4 E L N S L L D Q A L T S
UniRef90_UPI0003685F41
UniRef90_UPI0003FC00D9
UniRef90_D0W485 D M S N A C Q K A L
UniRef90_U7A168 A T V D V I A K T I Q Q
UniRef90_F7NUY2
UniRef90_A8TXD7
UniRef90_UPI0003642618
UniRef90_UPI00047A7FD1 T L R G L L D E V L D D
UniRef90_B7WYW8
UniRef90_Z5XN86 K L S Q Y L D Q T
UniRef90_D9RXS6
UniRef90_UPI000372F963 A L M A R M D E A L A
UniRef90_K6J4I6 K L I T M L E E
UniRef90_K2JQ28
UniRef90_W4VHR9
UniRef90_M4UI89
UniRef90_D8GSA3
UniRef90_UPI00046D7927 E L V R R I D S
UniRef90_A0A059KJH4 S L V R R I E A S L G
UniRef90_UPI00036D7E6D
UniRef90_M1ZIC4
UniRef90_G9EL64 S L E S K I N K
UniRef90_K6CXV2
UniRef90_A6F9G8 L L Q D T I E R A L I N
UniRef90_UPI00047E2469
UniRef90_I4YTT6 R I E T R L A E
UniRef90_C9RBR3
UniRef90_F6CQI1
UniRef90_UPI0004793101
UniRef90_R7I3I3 E L R E Q C E A A V A

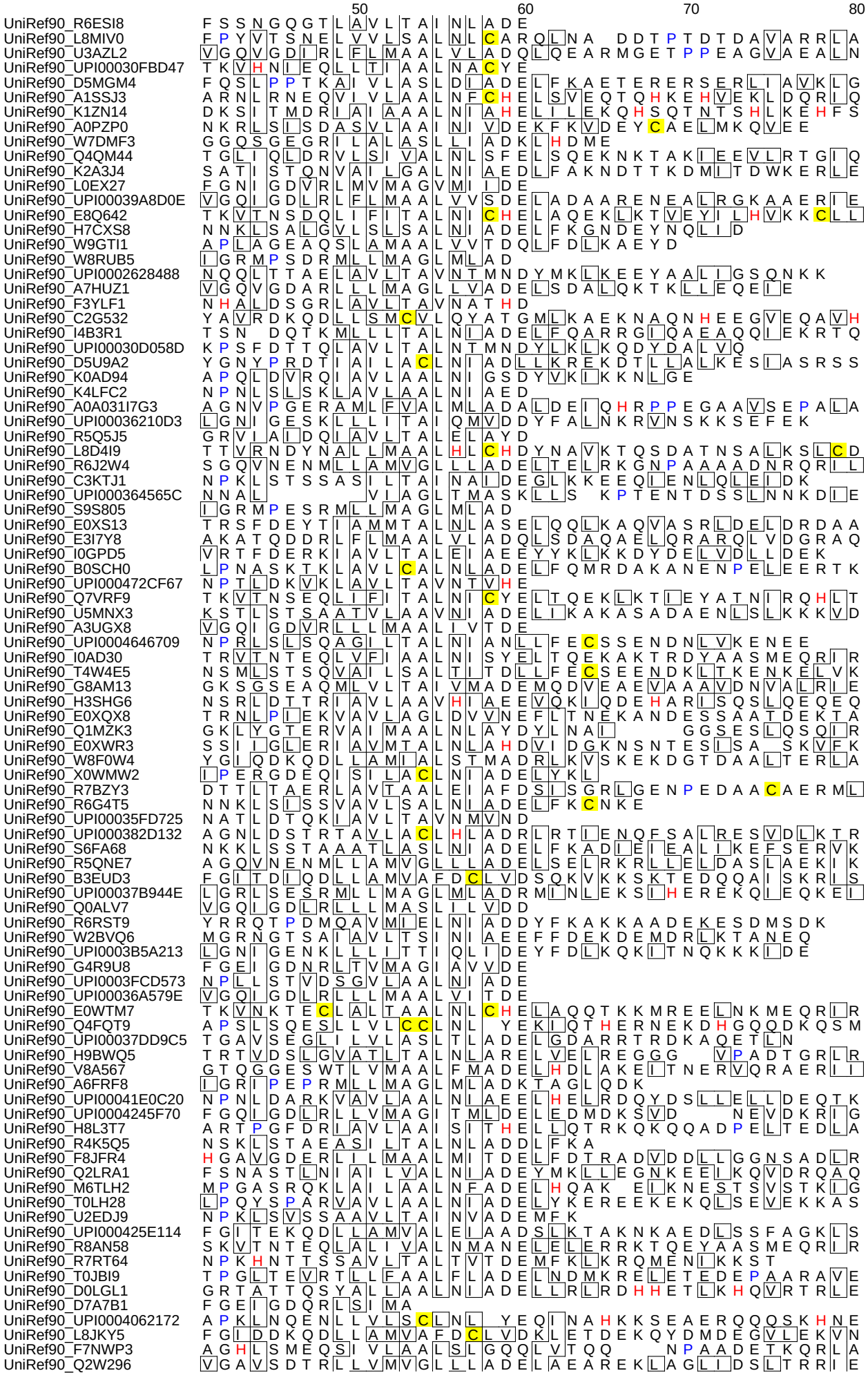

1
10
20
30
40
UniRef90_M1YUK8
UniRef90_H2CF97
UniRef90_B8EI93
UniRef90_S3UTZ6
UniRef90_E8X4U7
UniRef90_L1Q8Q7
UniRef90_UPI0003B53A4A
UniRef90_A0A017HDP7
UniRef90_UPI00047E04F2
UniRef90_UPI000225C040
UniRef90_UPI0003661222
UniRef90_A8MI76
UniRef90_V8G8W1
UniRef90_UPI000479EC6F
UniRef90_K0IXH4
UniRef90_Q057H6
UniRef90_Q8EPH8
UniRef90_G2DLK5
UniRef90_UPI00037B1978
UniRef90_M7N913
UniRef90_D8JSE7
UniRef90_UPI0003666362
UniRef90_C8PX82
UniRef90_UPI000361FC73
UniRef90_F8IB24
UniRef90_F2FA03
UniRef90_UPI00036CFB27
UniRef90_A8IM84
UniRef90_C6PW10
UniRef90_K2H907
UniRef90_UPI000412FFE8
UniRef90_W8TJ28
UniRef90_X1GBF4
UniRef90_M1LQI7
UniRef90_G4AZC5
UniRef90_K4HKB0
UniRef90_T0ILG5
UniRef90_M1LUR7
UniRef90_W7BRY0
UniRef90_U1ING4
UniRef90_I2NKF0
UniRef90_N9WFQ8
UniRef90_R6EMX3
UniRef90_D3NT82
UniRef90_S5ZRH6
UniRef90_UPI00037DE2CB
UniRef90_UPI0004694327
UniRef90_D9QFP1
UniRef90_W3AFU3
UniRef90_UPI000380D149
UniRef90_F2IX49
UniRef90_L0MVV3
UniRef90_I8AI54
UniRef90_A5D0T9
UniRef90_K2GSN9
UniRef90_C9KPQ4
UniRef90_V4JK00
UniRef90_UPI00035FDFD5
UniRef90_UPI00037E9232
UniRef90_UPI00047095B3
UniRef90_UPI00026249A3
UniRef90_U2ZME1
UniRef90_UPI0004684430
UniRef90_E6PYB0
UniRef90_UPI000464F66E
UniRef90_U3U5J5
UniRef90_W1Z5M5
UniRef90_H6SRR9
UniRef90_UPI000381E445
UniRef90_UPI000381DF4F
UniRef90_T0GFB8
UniRef90_V9HDS3
UniRef90_UPI00035E5B23
UniRef90_H1XNR0
UniRef90_UPI0004027530
UniRef90_Q9K897
UniRef90_UPI00040A8969
UniRef90_L1QA57
UniRef90_UPI0002375DDA
UniRef90_UPI000289FF86
UniRef90_I7A2H8
UniRef90_G9QQC0
UniRef90_A9D176
UniRef90_Q3SP06
UniRef90_UPI00042A18B8
UniRef90_E0TCN8
UniRef90_G1Y147
UniRef90_UPI0004062972
UniRef90_B0UJ37
UniRef90_G7W504
UniRef90_UPI0002E17482
UniRef90_T0BNL8


50
60
70
80
UniRef90_M1YUK8
UniRef90_H2CF97
UniRef90_B8EI93
UniRef90_S3UTZ6
UniRef90_E8X4U7
UniRef90_L1Q8Q7
UniRef90_UPI0003B53A4A
UniRef90_A0A017HDP7
UniRef90_UPI00047E04F2
UniRef90_UPI000225C040
UniRef90_UPI0003661222
UniRef90_A8MI76
UniRef90_V8G8W1
UniRef90_UPI000479EC6F
UniRef90_K0IXH4
UniRef90_Q057H6
UniRef90_Q8EPH8
UniRef90_G2DLK5
UniRef90_UPI00037B1978
UniRef90_M7N913
UniRef90_D8JSE7
UniRef90_UPI0003666362
UniRef90_C8PX82
UniRef90_UPI000361FC73
UniRef90_F8IB24
UniRef90_F2FA03
UniRef90_UPI00036CFB27
UniRef90_A8IM84
UniRef90_C6PW10
UniRef90_K2H907
UniRef90_UPI000412FFE8
UniRef90_W8TJ28
UniRef90_X1GBF4
UniRef90_M1LQI7
UniRef90_G4AZC5
UniRef90_K4HKB0
UniRef90_T0ILG5
UniRef90_M1LUR7
UniRef90_W7BRY0
UniRef90_U1ING4
UniRef90_I2NKF0
UniRef90_N9WFQ8
UniRef90_R6EMX3
UniRef90_D3NT82
UniRef90_S5ZRH6
UniRef90_UPI00037DE2CB
UniRef90_UPI0004694327
UniRef90_D9QFP1
UniRef90_W3AFU3
UniRef90_UPI000380D149
UniRef90_F2IX49
UniRef90_L0MVV3
UniRef90_I8AI54
UniRef90_A5D0T9
UniRef90_K2GSN9
UniRef90_C9KPQ4
UniRef90_V4JK00
UniRef90_UPI00035FDFD5
UniRef90_UPI00037E9232
UniRef90_UPI00047095B3
UniRef90_UPI00026249A3
UniRef90_U2ZME1
UniRef90_UPI0004684430
UniRef90_E6PYB0
UniRef90_UPI000464F66E
UniRef90_U3U5J5
UniRef90_W1Z5M5
UniRef90_H6SRR9
UniRef90_UPI000381E445
UniRef90_UPI000381DF4F
UniRef90_T0GFB8
UniRef90_V9HDS3
UniRef90_UPI00035E5B23
UniRef90_H1XNR0
UniRef90_UPI0004027530
UniRef90_Q9K897
UniRef90_UPI00040A8969
UniRef90_L1QA57
UniRef90_UPI0002375DDA
UniRef90_UPI000289FF86
UniRef90_I7A2H8
UniRef90_G9QQC0
UniRef90_A9D176
UniRef90_Q3SP06
UniRef90_UPI00042A18B8
UniRef90_E0TCN8
UniRef90_G1Y147
UniRef90_UPI0004062972
UniRef90_B0UJ37
UniRef90_G7W504
UniRef90_UPI0002E17482
UniRef90_T0BNL8

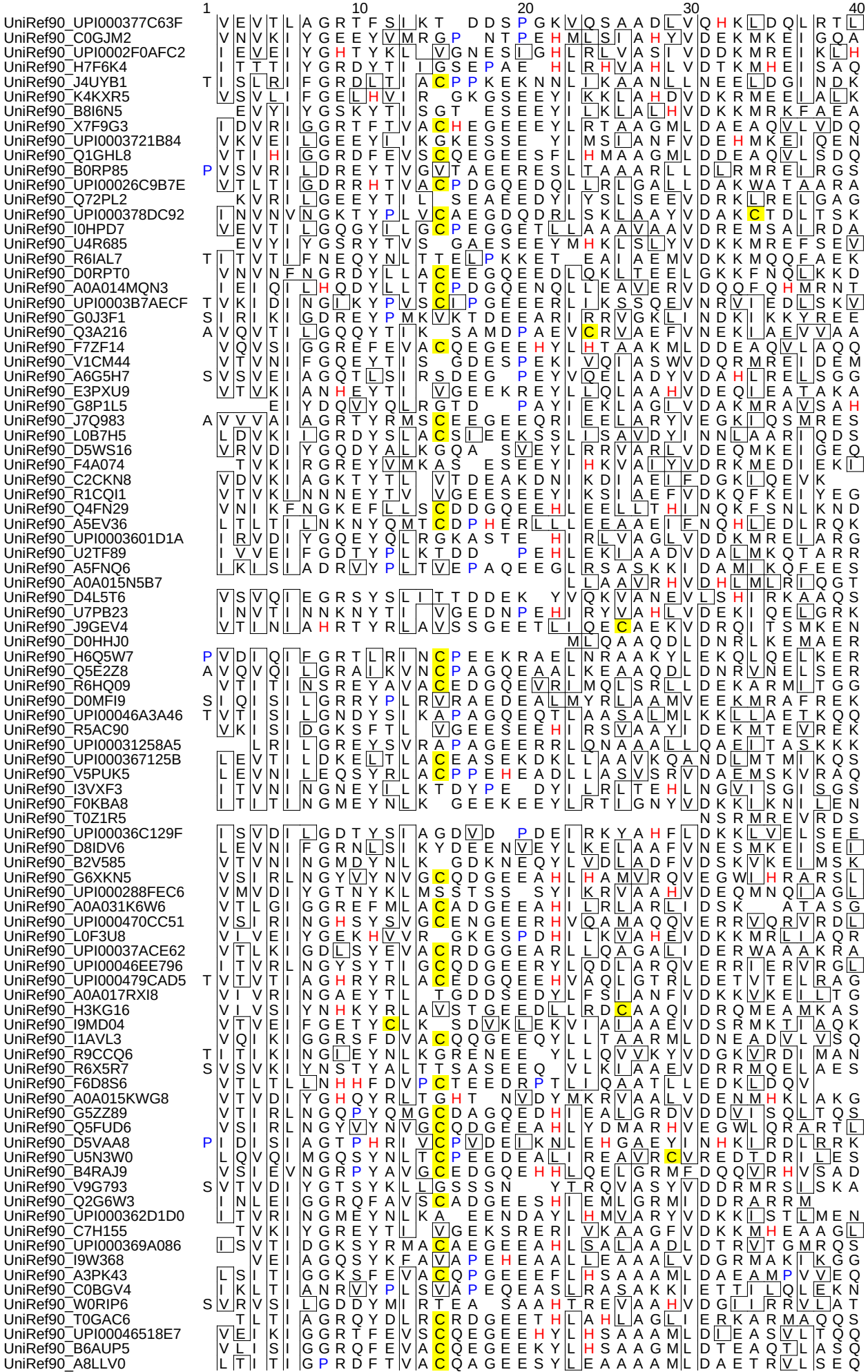
90

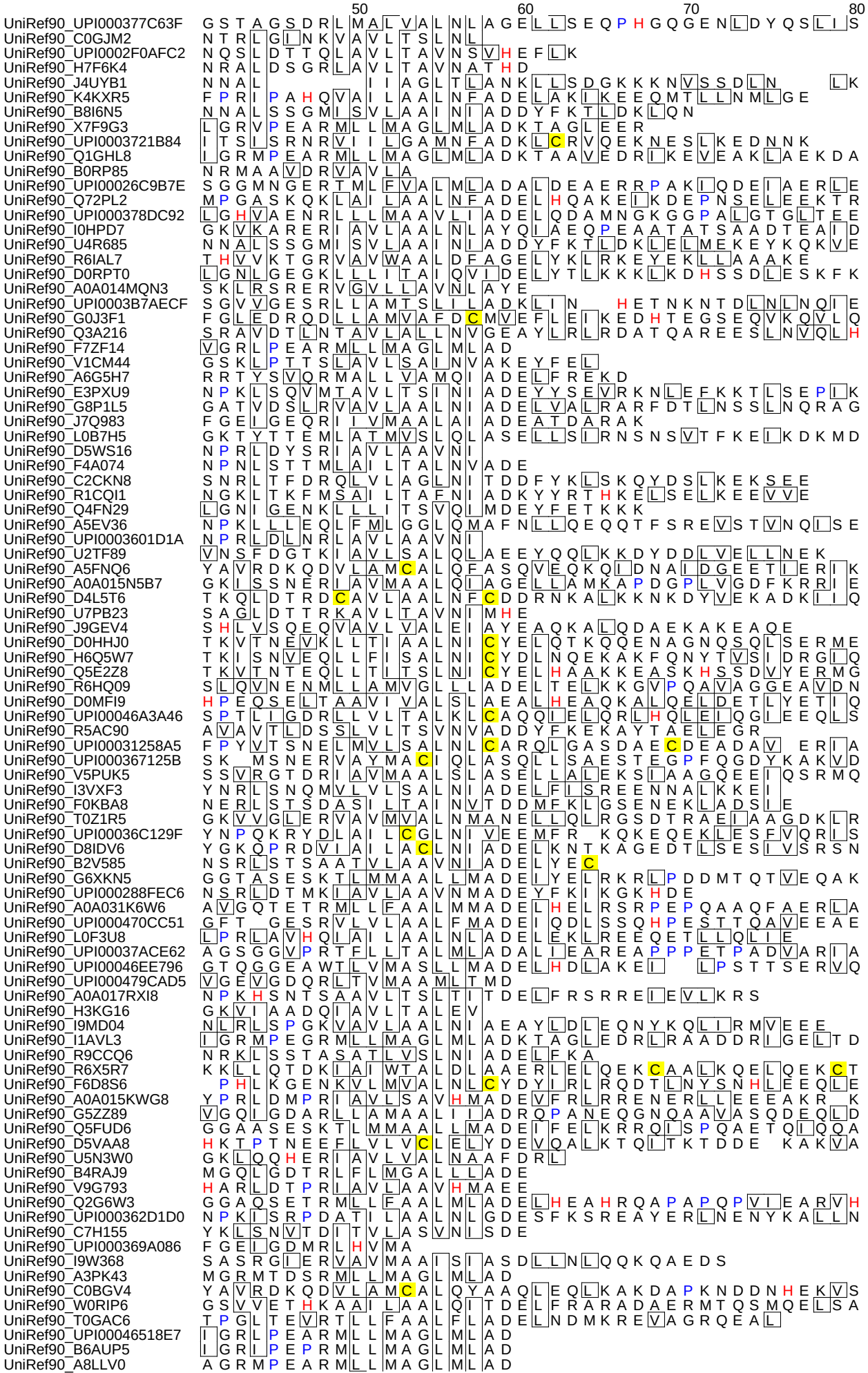
UniRef90_M1YUK8	S L S E K L E N E L V
UniRef90_H2CF97	Y L I D L L D E G M V G
UniRef90_B8EI93	
UniRef90_S3UTZ6	K L I T L I E E G L
UniRef90_E8X4U7	S L S G M L D E V L
UniRef90_L1Q8Q7	
UniRef90_UPI0003B53A4A	K L T E Q L A E A V A D
UniRef90_A0A017HDP7	Q T E A A L N K S R S D
UniRef90_UPI00047E04F2	
UniRef90_UPI000225C040	
UniRef90_UPI0003661222	T L A H M L D E V L E D
UniRef90_A8MI76	E M E A
UniRef90_V8G8W1	D I N A L L D Q S I
UniRef90_UPI000479EC6F	
UniRef90_K0IXH4	
UniRef90_Q057H6	N L N Q M L D L A L
UniRef90_Q8EPH8	
UniRef90_G2DLK5	D I V N V C E Q A L S Q
UniRef90_UPI00037B1978	
UniRef90_M7N913	
UniRef90_D8JSE7	
UniRef90_UPI0003666362	G M I Q K L K K S L
UniRef90_C8PX82	K M L E
UniRef90_UPI000361FC73	
UniRef90_F8IB24	
UniRef90_F2FA03	
UniRef90_UPI00036CFB27	
UniRef90_A8IM84	
UniRef90_C6PW10	
UniRef90_K2H907	
UniRef90_UPI000412FFE8	
UniRef90_W8TJ28	D I E A
UniRef90_X1GBF4	S L E D Y L
UniRef90_M1LQI7	S I V L K I E S I L
UniRef90_G4AZC5	
UniRef90_K4HKB0	D T T Q R I E K
UniRef90_T0ILG5	
UniRef90_M1LUR7	N I S A L I D E V I
UniRef90_W7BRY0	
UniRef90_U1ING4	
UniRef90_I2NKF0	Q L D S S L
UniRef90_N9WFQ8	
UniRef90_R6EMX3	
UniRef90_D3NT82	E V A A R L E R A
UniRef90_S5ZRH6	
UniRef90_UPI00037DE2CB	
UniRef90_UPI0004694327	E L
UniRef90_D9QFP1	
UniRef90_W3AFU3	
UniRef90_UPI000380D149	T L C Y K L D K V L A D
UniRef90_F2IX49	
UniRef90_L0MVV3	L L Q Q T I E K A L
UniRef90_I8AI54	
UniRef90_A5D0T9	
UniRef90_K2GSN9	
UniRef90_C9KPQ4	
UniRef90_V4JK00	Q L V E R L G A H L G
UniRef90_UPI00035FDFD5	R V N H S L E R L L S
UniRef90_UPI00037E9232	N G L L D E I L T D
UniRef90_UPI00047095B3	L L Q T T L E D A L V
UniRef90_UPI00026249A3	R L Q Q L V D R A
UniRef90_U2ZME1	
UniRef90_UPI0004684430	
UniRef90_E6PYB0	R L S E L L D A V L E
UniRef90_UPI000464F66E	L M
UniRef90_U3U5J5	I L Q Q S I E Q I L A
UniRef90_W1Z5M5	K L S Q
UniRef90_H6SRR9	
UniRef90_UPI000381E445	R L A E L L
UniRef90_UPI000381DF4F	
UniRef90_T0GFB8	K L I T L L E E G L
UniRef90_V9HDS3	T L K E R I
UniRef90_UPI00035E5B23	K D A D R
UniRef90_H1XNR0	
UniRef90_UPI0004027530	T
UniRef90_Q9K897	
UniRef90_UPI00040A8969	
UniRef90_L1QA57	
UniRef90_UPI0002375DDA	T L V R R L D Q A L G D
UniRef90_UPI000289FF86	
UniRef90_I7A2H8	R I R Q Q L D A A
UniRef90_G9QQC0	
UniRef90_A9D176	
UniRef90_Q3SP06	
UniRef90_UPI00042A18B8	K L A D R I E A
UniRef90_E0TCN8	A L A A T L D
UniRef90_G1Y147	
UniRef90_UPI0004062972	
UniRef90_B0UJ37	
UniRef90_G7W504	
UniRef90_UPI0002E17482	
UniRef90_T0BNL8	


1
10
20
30
40
UniRef90_R6ESI8
UniRef90_L8MIV0
UniRef90_U3AZL2
UniRef90_UPI00030FBD47
UniRef90_D5MGM4
UniRef90_A1SSJ3
UniRef90_K1ZN14
UniRef90_A0PZP0
UniRef90_W7DMF3
UniRef90_Q4QM44
UniRef90_K2A3J4
UniRef90_L0EX27
UniRef90_UPI00039A8D0E
UniRef90_E8Q642
UniRef90_H7CXS8
UniRef90_W9GTI1
UniRef90_W8RUB5
UniRef90_UPI0002628488
UniRef90_A7HUZ1
UniRef90_F3YLF1
UniRef90_C2G532
UniRef90_I4B3R1
UniRef90_UPI00030D058D
UniRef90_D5U9A2
UniRef90_K0AD94
UniRef90_K4LFC2
UniRef90_A0A031I7G3
UniRef90_UPI00036210D3
UniRef90_R5Q5J5
UniRef90_L8D4I9
UniRef90_R6J2W4
UniRef90_C3KTJ1
UniRef90_UPI000364565C
UniRef90_S9S805
UniRef90_E0XS13
UniRef90_E3I7Y8
UniRef90_I0GPD5
UniRef90_B0SCH0
UniRef90_UPI000472CF67
UniRef90_Q7VRF9
UniRef90_U5MNX3
UniRef90_A3UGX8
UniRef90_UPI0004646709
UniRef90_I0AD30
UniRef90_T4W4E5
UniRef90_G8AM13
UniRef90_H3SHG6
UniRef90_E0XQX8
UniRef90_Q1MZK3
UniRef90_E0XWR3
UniRef90_W8F0W4
UniRef90_X0WMW2
UniRef90_R7BZY3
UniRef90_R6G4T5
UniRef90_UPI00035FD725
UniRef90_UPI000382D132
UniRef90_S6FA68
UniRef90_R5QNE7
UniRef90_B3EUD3
UniRef90_UPI00037B944E
UniRef90_Q0ALV7
UniRef90_R6RST9
UniRef90_W2BVQ6
UniRef90_UPI0003B5A213
UniRef90_G4R9U8
UniRef90_UPI0003FCD573
UniRef90_UPI00036A579E
UniRef90_E0WTM7
UniRef90_Q4FQT9
UniRef90_UPI00037DD9C5
UniRef90_H9BWQ5
UniRef90_V8A567
UniRef90_A6FRF8
UniRef90_UPI00041E0C20
UniRef90_UPI0004245F70
UniRef90_H8L3T7
UniRef90_R4K5Q5
UniRef90_F8JFR4
UniRef90_Q2LRA1
UniRef90_M6TLH2
UniRef90_T0LH28
UniRef90_U2EDJ9
UniRef90_UPI000425E114
UniRef90_R8AN58
UniRef90_R7RT64
UniRef90_T0JBI9
UniRef90_D0LGL1
UniRef90_D7A7B1
UniRef90_UPI0004062172
UniRef90_L8JKY5
UniRef90_F7NWP3
UniRef90_Q2W296

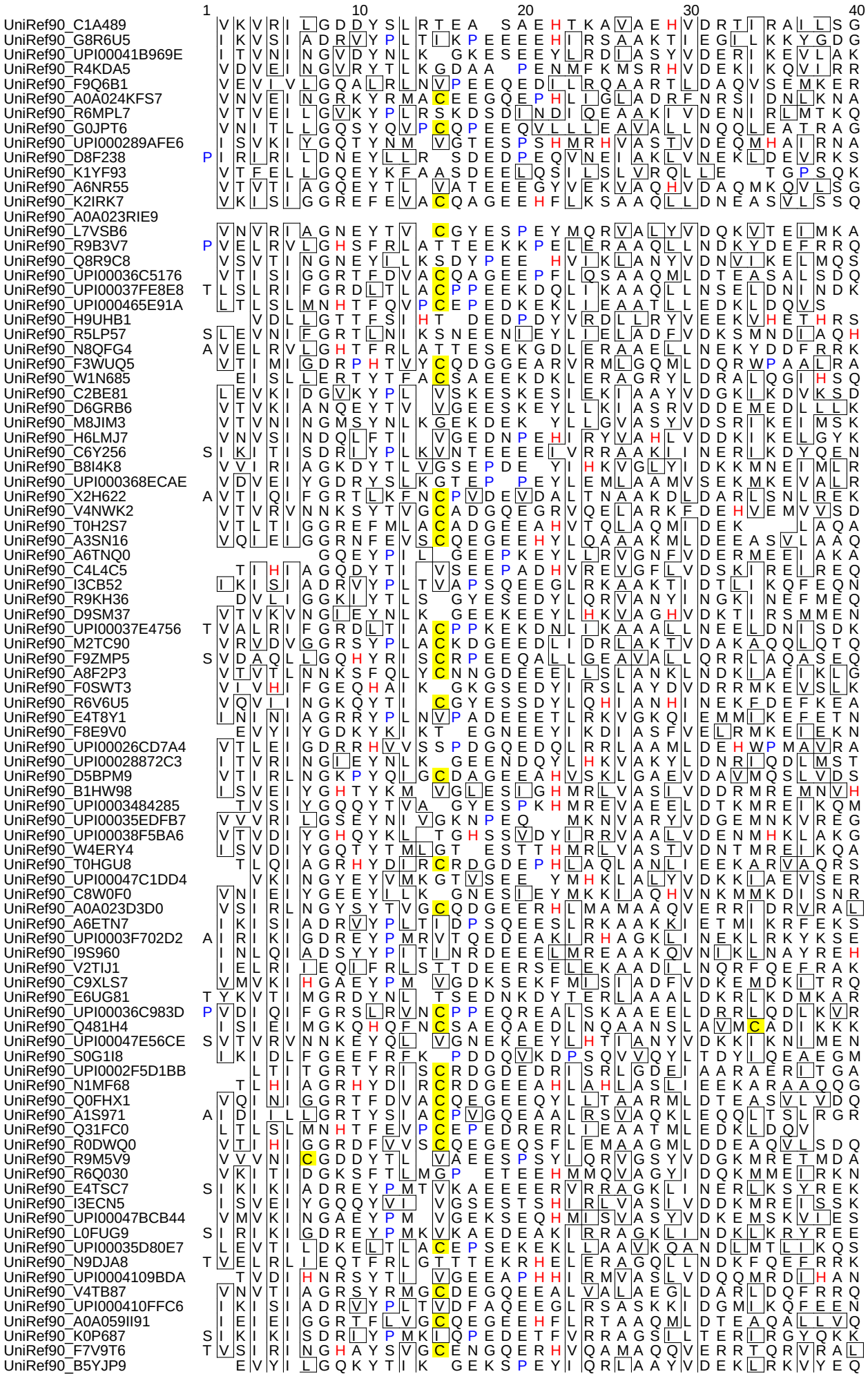

50
60
70
80
UniRef90_R6ESI8
UniRef90_L8MIV0
UniRef90_U3AZL2
UniRef90_UPI00030FBD47
UniRef90_D5MGM4
UniRef90_A1SSJ3
UniRef90_K1ZN14
UniRef90_A0PZP0
UniRef90_W7DMF3
UniRef90_Q4QM44
UniRef90_K2A3J4
UniRef90_L0EX27
UniRef90_UPI00039A8D0E
UniRef90_E8Q642
UniRef90_H7CXS8
UniRef90_W9GTI1
UniRef90_W8RUB5
UniRef90_UPI0002628488
UniRef90_A7HUZ1
UniRef90_F3YLF1
UniRef90_C2G532
UniRef90_I4B3R1
UniRef90_UPI00030D058D
UniRef90_D5U9A2
UniRef90_K0AD94
UniRef90_K4LFC2
UniRef90_A0A031I7G3
UniRef90_UPI00036210D3
UniRef90_R5Q5J5
UniRef90_L8D4I9
UniRef90_R6J2W4
UniRef90_C3KTJ1
UniRef90_UPI000364565C
UniRef90_S9S805
UniRef90_E0XS13
UniRef90_E3I7Y8
UniRef90_I0GPD5
UniRef90_B0SCH0
UniRef90_UPI000472CF67
UniRef90_Q7VRF9
UniRef90_U5MNX3
UniRef90_A3UGX8
UniRef90_UPI0004646709
UniRef90_I0AD30
UniRef90_T4W4E5
UniRef90_G8AM13
UniRef90_H3SHG6
UniRef90_E0XQX8
UniRef90_Q1MZK3
UniRef90_E0XWR3
UniRef90_W8F0W4
UniRef90_X0WMW2
UniRef90_R7BZY3
UniRef90_R6G4T5
UniRef90_UPI00035FD725
UniRef90_UPI000382D132
UniRef90_S6FA68
UniRef90_R5QNE7
UniRef90_B3EUD3
UniRef90_UPI00037B944E
UniRef90_Q0ALV7
UniRef90_R6RST9
UniRef90_W2BVQ6
UniRef90_UPI0003B5A213
UniRef90_G4R9U8
UniRef90_UPI0003FCD573
UniRef90_UPI00036A579E
UniRef90_E0WTM7
UniRef90_Q4FQT9
UniRef90_UPI00037DD9C5
UniRef90_H9BWQ5
UniRef90_V8A567
UniRef90_A6FRF8
UniRef90_UPI00041E0C20
UniRef90_UPI0004245F70
UniRef90_H8L3T7
UniRef90_R4K5Q5
UniRef90_F8JFR4
UniRef90_Q2LRA1
UniRef90_M6TLH2
UniRef90_T0LH28
UniRef90_U2EDJ9
UniRef90_UPI000425E114
UniRef90_R8AN58
UniRef90_R7RT64
UniRef90_T0JBI9
UniRef90_D0LGL1
UniRef90_D7A7B1
UniRef90_UPI0004062172
UniRef90_L8JKY5
UniRef90_F7NWP3
UniRef90_Q2W296

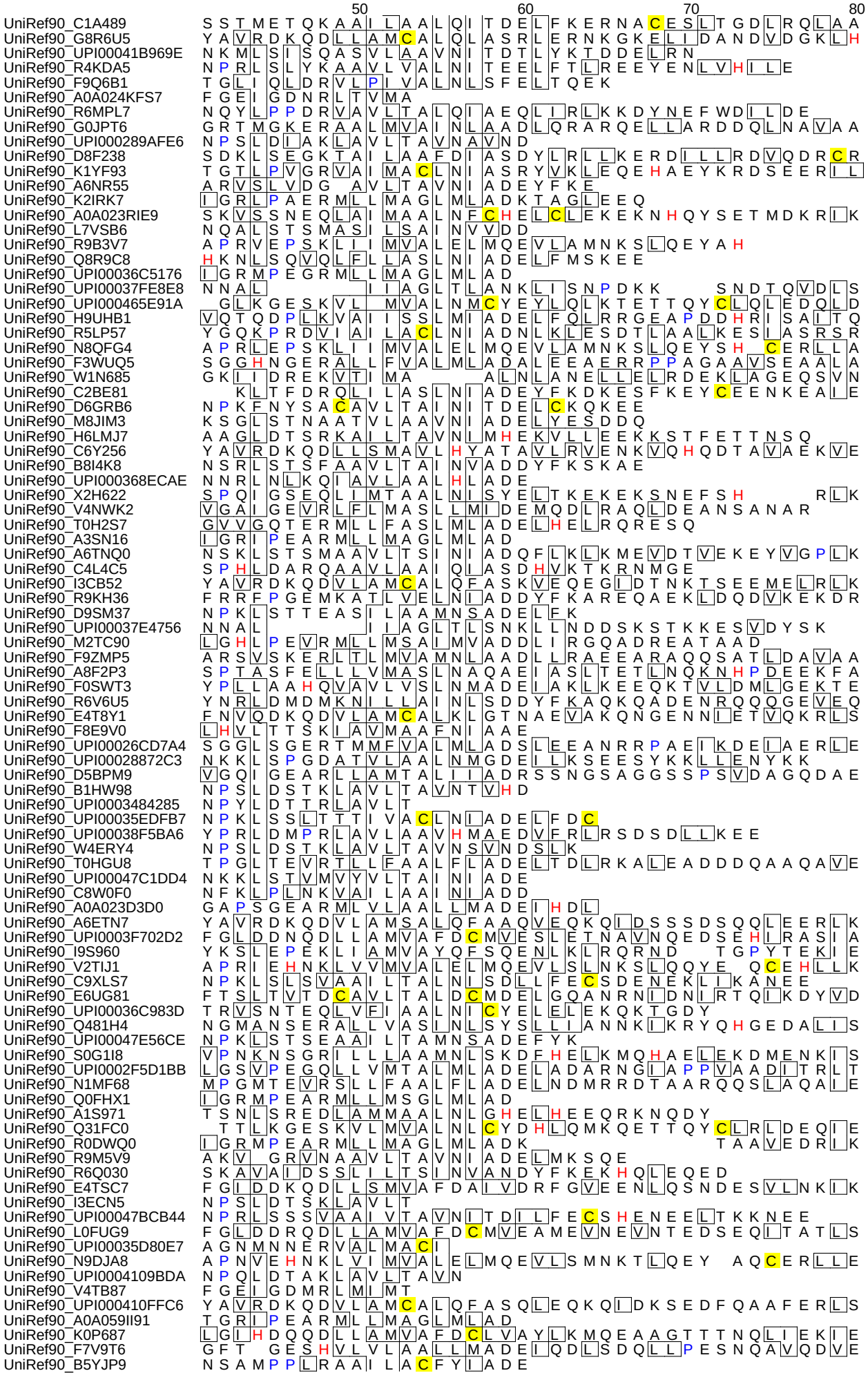
```
UniRef90_R6ESI8
UniRef90_L8MIV0          T L N R R I R E Q L G
UniRef90_U3AZL2          A V A A R I E K
UniRef90_UPI00030FBD47
UniRef90_D5MGM4          T L S E L L R T A L E
UniRef90_A1SSJ3          K I N D S I D L R L A
UniRef90_K1ZN14          N L K H K L D Q A L A N
UniRef90_A0PZP0
UniRef90_W7DMF3
UniRef90_Q4QM44          Q L D H S L E N
UniRef90_K2A3J4          E I V E
UniRef90_L0EX27
UniRef90_UPI00039A8D0E   A L A D R A E K T
UniRef90_E8Q642          E V Q Q T V E K A L T T
UniRef90_H7CXS8
UniRef90_W9GTI1
UniRef90_W8RUB5
UniRef90_UPI0002628488
UniRef90_A7HUZ1
UniRef90_F3YLF1
UniRef90_C2G532          E L D Q L L
UniRef90_I4B3R1          A L L R M L E T G L V G
UniRef90_UPI00030D058D
UniRef90_D5U9A2          K L I K L I D E T
UniRef90_K0AD94
UniRef90_K4LFC2
UniRef90_A0A031I7G3      R I A D R L E   A L A N
UniRef90_UPI00036210D3
UniRef90_R5Q5J5
UniRef90_L8D4I9          K L N N
UniRef90_R6J2W4          E I D R V T A E A L
UniRef90_C3KTJ1
UniRef90_UPI000364565C   K L I Q K I E S A L
UniRef90_S9S805
UniRef90_E0XS13          S V A A M I E A A L
UniRef90_E3I7Y8          A M Q R D L S R A L E
UniRef90_I0GPD5
UniRef90_B0SCH0          K I I T L L E E
UniRef90_UPI000472CF67
UniRef90_Q7VRF9          T I Q K T I N Q A L E
UniRef90_U5MNX3          E I N L K L E S I L
UniRef90_A3UGX8
UniRef90_UPI0004646709
UniRef90_I0AD30          M L Q Q T I E Q A L
UniRef90_T4W4E5          K
UniRef90_G8AM13          E V A A R L E R A
UniRef90_H3SHG6          A
UniRef90_E0XQX8          A
UniRef90_Q1MZK3          N L N S K L E G V L A
UniRef90_E0XWR3          N L D I K V S E A L
UniRef90_W8F0W4          R L D T L L
UniRef90_X0WMW2
UniRef90_R7BZY3          G L R S R C E A A L
UniRef90_R6G4T5
UniRef90_UPI00035FD725
UniRef90_UPI000382D132   T I T D L L N Q V I
UniRef90_S6FA68          E I K N E C D K I I S
UniRef90_R5QNE7          T L S E Q I K S V A S Q
UniRef90_B3EUD3          A M L Q L I D S T M
UniRef90_UPI00037B944E   D I E K S I S A A
UniRef90_Q0ALV7
UniRef90_R6RST9
UniRef90_W2BVQ6
UniRef90_UPI0003B5A213
UniRef90_G4R9U8
UniRef90_UPI0003FCD573
UniRef90_UPI00036A579E
UniRef90_E0WTM7          L L Q Q V I E Q A L P N
UniRef90_Q4FQT9          A L L N K V
UniRef90_UPI00037DD9C5
UniRef90_H9BWQ5          E L I E L T E T A L E G
UniRef90_V8A567          A E N E S R E Q K L
UniRef90_A6FRF8
UniRef90_UPI00041E0C20   S P S E R
UniRef90_UPI0004245F70   N L R K
UniRef90_H8L3T7          L L R R K L E Q A L A
UniRef90_R4K5Q5
UniRef90_F8JFR4          S
UniRef90_Q2LRA1          N L I N L I D E
UniRef90_M6TLH2          E I E
UniRef90_T0LH28          N L L E W L D H K L E
UniRef90_U2EDJ9
UniRef90_UPI000425E114   H L N D L L
UniRef90_R8AN58          M L Q S T I E Q A L V
UniRef90_R7RT64
UniRef90_T0JBI9          A L A D R I E K
UniRef90_D0LGL1          R I L R H L D R
UniRef90_D7A7B1
UniRef90_UPI0004062172   Q L L N K I
UniRef90_L8JKY5          H L N N I I N Q A L
UniRef90_F7NWP3          K L L G V L E S
UniRef90_Q2W296          A I A M R L E R A
```


1
10
20
30
40
UniRef90_UPI000377C63F
UniRef90_C0GJM2
UniRef90_UPI0002F0AFC2
UniRef90_H7F6K4
UniRef90_J4UYB1
UniRef90_K4KXR5
UniRef90_B8I6N5
UniRef90_X7F9G3
UniRef90_UPI0003721B84
UniRef90_Q1GHL8
UniRef90_B0RP85
UniRef90_UPI00026C9B7E
UniRef90_Q72PL2
UniRef90_UPI000378DC92
UniRef90_I0HPD7
UniRef90_U4R685
UniRef90_R6IAL7
UniRef90_D0RPT0
UniRef90_A0A014MQN3
UniRef90_UPI0003B7AECF
UniRef90_G0J3F1
UniRef90_Q3A216
UniRef90_F7ZF14
UniRef90_V1CM44
UniRef90_A6G5H7
UniRef90_E3PXU9
UniRef90_G8P1L5
UniRef90_J7Q983
UniRef90_L0B7H5
UniRef90_D5WS16
UniRef90_F4A074
UniRef90_C2CKN8
UniRef90_R1CQI1
UniRef90_Q4FN29
UniRef90_A5EV36
UniRef90_UPI0003601D1A
UniRef90_U2TF89
UniRef90_A5FNQ6
UniRef90_A0A015N5B7
UniRef90_D4L5T6
UniRef90_U7PB23
UniRef90_J9GEV4
UniRef90_D0HHJ0
UniRef90_H6Q5W7
UniRef90_Q5E2Z8
UniRef90_R6HQ09
UniRef90_D0MFI9
UniRef90_UPI00046A3A46
UniRef90_R5AC90
UniRef90_UPI00031258A5
UniRef90_UPI000367125B
UniRef90_V5PUK5
UniRef90_I3VXF3
UniRef90_F0KBA8
UniRef90_T0Z1R5
UniRef90_UPI00036C129F
UniRef90_D8IDV6
UniRef90_B2V585
UniRef90_G6XKN5
UniRef90_UPI000288FEC6
UniRef90_A0A031K6W6
UniRef90_UPI000470CC51
UniRef90_L0F3U8
UniRef90_UPI00037ACE62
UniRef90_UPI00046EE796
UniRef90_UPI000479CAD5
UniRef90_A0A017RXI8
UniRef90_H3KG16
UniRef90_I9MD04
UniRef90_I1AVL3
UniRef90_R9CCQ6
UniRef90_R6X5R7
UniRef90_F6D8S6
UniRef90_A0A015KWG8
UniRef90_G5ZZ89
UniRef90_Q5FUD6
UniRef90_D5VAA8
UniRef90_U5N3W0
UniRef90_B4RAJ9
UniRef90_V9G793
UniRef90_Q2G6W3
UniRef90_UPI000362D1D0
UniRef90_C7H155
UniRef90_UPI000369A086
UniRef90_I9W368
UniRef90_A3PK43
UniRef90_C0BGV4
UniRef90_W0RIP6
UniRef90_T0GAC6
UniRef90_UPI00046518E7
UniRef90_B6AUP5
UniRef90_A8LLV0

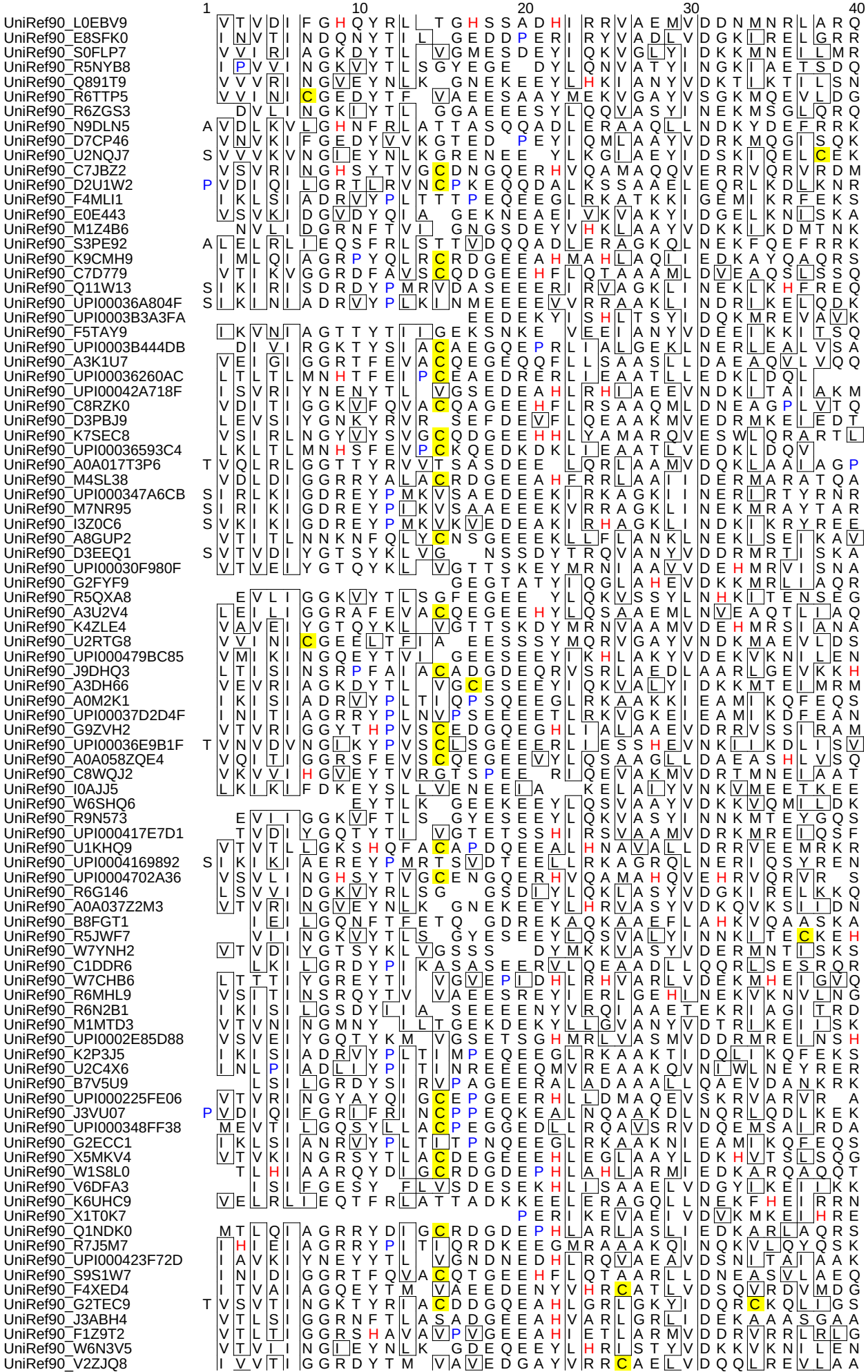

50
60
70
80
UniRef90_UPI000377C63F
UniRef90_C0GJM2
UniRef90_UPI0002F0AFC2
UniRef90_H7F6K4
UniRef90_J4UYB1
UniRef90_K4KXR5
UniRef90_B8I6N5
UniRef90_X7F9G3
UniRef90_UPI0003721B84
UniRef90_Q1GHL8
UniRef90_B0RP85
UniRef90_UPI00026C9B7E
UniRef90_Q72PL2
UniRef90_UPI000378DC92
UniRef90_I0HPD7
UniRef90_U4R685
UniRef90_R6IAL7
UniRef90_D0RPT0
UniRef90_A0A014MQN3
UniRef90_UPI0003B7AECF
UniRef90_G0J3F1
UniRef90_Q3A216
UniRef90_F7ZF14
UniRef90_V1CM44
UniRef90_A6G5H7
UniRef90_E3PXU9
UniRef90_G8P1L5
UniRef90_J7Q983
UniRef90_L0B7H5
UniRef90_D5WS16
UniRef90_F4A074
UniRef90_C2CKN8
UniRef90_R1CQI1
UniRef90_Q4FN29
UniRef90_A5EV36
UniRef90_UPI0003601D1A
UniRef90_U2TF89
UniRef90_A5FNQ6
UniRef90_A0A015N5B7
UniRef90_D4L5T6
UniRef90_U7PB23
UniRef90_J9GEV4
UniRef90_D0HHJ0
UniRef90_H6Q5W7
UniRef90_Q5E2Z8
UniRef90_R6HQ09
UniRef90_D0MFI9
UniRef90_UPI00046A3A46
UniRef90_R5AC90
UniRef90_UPI00031258A5
UniRef90_UPI000367125B
UniRef90_V5PUK5
UniRef90_I3VXF3
UniRef90_F0KBA8
UniRef90_T0Z1R5
UniRef90_UPI00036C129F
UniRef90_D8IDV6
UniRef90_B2V585
UniRef90_G6XKN5
UniRef90_UPI000288FEC6
UniRef90_A0A031K6W6
UniRef90_UPI000470CC51
UniRef90_L0F3U8
UniRef90_UPI00037ACE62
UniRef90_UPI00046EE796
UniRef90_UPI000479CAD5
UniRef90_A0A017RXI8
UniRef90_H3KG16
UniRef90_I9MD04
UniRef90_I1AVL3
UniRef90_R9CCQ6
UniRef90_R6X5R7
UniRef90_F6D8S6
UniRef90_A0A015KWG8
UniRef90_G5ZZ89
UniRef90_Q5FUD6
UniRef90_D5VAA8
UniRef90_U5N3W0
UniRef90_B4RAJ9
UniRef90_V9G793
UniRef90_Q2G6W3
UniRef90_UPI000362D1D0
UniRef90_C7H155
UniRef90_UPI000369A086
UniRef90_I9W368
UniRef90_A3PK43
UniRef90_C0BGV4
UniRef90_W0RIP6
UniRef90_T0GAC6
UniRef90_UPI00046518E7
UniRef90_B6AUP5
UniRef90_A8LLV0

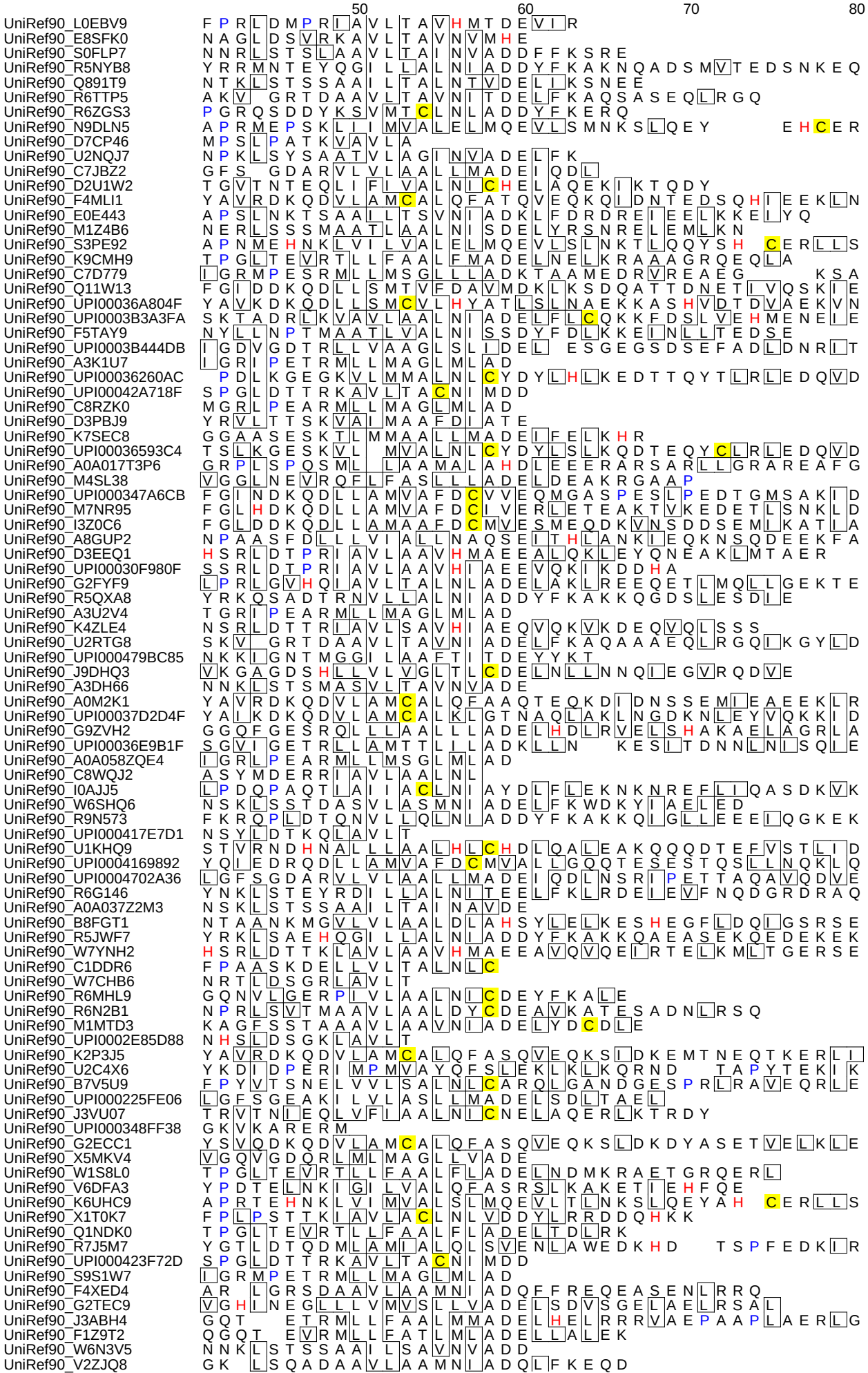
```
UniRef90_UPI000377C63F   S L N E V V F Q A
UniRef90_C0GJM2
UniRef90_UPI0002F0AFC2
UniRef90_H7F6K4
UniRef90_J4UYB1          K M I T K I D K A L K N
UniRef90_K4KXR5
UniRef90_B8I6N5
UniRef90_X7F9G3
UniRef90_UPI0003721B84
UniRef90_Q1GHL8          L L E E R
UniRef90_B0RP85
UniRef90_UPI00026C9B7E   A L A T S L E Q
UniRef90_Q72PL2          K L I M M L E E
UniRef90_UPI000378DC92   D M A S V L N E V
UniRef90_I0HPD7          A L V R R L D A A L G
UniRef90_U4R685          E L T L Q I Q K
UniRef90_R6IAL7
UniRef90_D0RPT0          E I K N L
UniRef90_A0A014MQN3
UniRef90_UPI0003B7AECF   D L I D W L G K A
UniRef90_G0J3F1          H V N K N L E S L L
UniRef90_Q3A216          D L V A R L E K A C P D
UniRef90_F7ZF14
UniRef90_V1CM44
UniRef90_A6G5H7
UniRef90_E3PXU9          E
UniRef90_G8P1L5          S L M G M L D E V L
UniRef90_J7Q983
UniRef90_L0B7H5          N I S I L I D D
UniRef90_D5WS16
UniRef90_F4A074
UniRef90_C2CKN8
UniRef90_R1CQI1
UniRef90_Q4FN29
UniRef90_A5EV36          R L L T T L E A A
UniRef90_UPI0003601D1A
UniRef90_U2TF89
UniRef90_A5FNQ6          R L N S L L D Q Y L E N
UniRef90_A0A015N5B7      E M N L L L D G A L S G
UniRef90_D4L5T6          Q T N D L
UniRef90_U7PB23
UniRef90_J9GEV4
UniRef90_D0HHJ0          Q L T A S L E A A L K N
UniRef90_H6Q5W7          S L K D T V S R A I S
UniRef90_Q5E2Z8          L L A S A L E A A I S T
UniRef90_R6HQ09          S R L P G L D K E L A
UniRef90_D0MFI9
UniRef90_UPI00046A3A46
UniRef90_R5AC90
UniRef90_UPI00031258A5   A L N R R I
UniRef90_UPI000367125B   H I N A L L D E
UniRef90_V5PUK5          R M N E R L S A V I D Q
UniRef90_I3VXF3
UniRef90_F0KBA8
UniRef90_T0Z1R5          A L R E R I E T A L G H
UniRef90_UPI00036C129F   K L L N S L D E
UniRef90_D8IDV6          E L I K L I D E V
UniRef90_B2V585
UniRef90_G6XKN5          A L I R
UniRef90_UPI000288FEC6
UniRef90_A0A031K6W6      R I A S R V E N
UniRef90_UPI000470CC51   R L     R V E Q M L M N
UniRef90_L0F3U8
UniRef90_UPI00037ACE62   E R L E T L A A A L E D
UniRef90_UPI00046EE796   R A D R L I
UniRef90_UPI000479CAD5
UniRef90_A0A017RXI8
UniRef90_H3KG16
UniRef90_I9MD04
UniRef90_I1AVL3          E L
UniRef90_R9CCQ6
UniRef90_R6X5R7          A M E Q E M Q Q
UniRef90_F6D8S6          A L M T A V
UniRef90_A0A015KWG8      L V S A E L D E A
UniRef90_G5ZZ89          Q I A D Q L E A
UniRef90_Q5FUD6          E Q L L R L E G A
UniRef90_D5VAA8          A M I D K I N Q
UniRef90_U5N3W0
UniRef90_B4RAJ9
UniRef90_V9G793
UniRef90_Q2G6W3          L L A E R I E K A L A
UniRef90_UPI000362D1D0   E Q I E R L K A A L E G
UniRef90_C7H155
UniRef90_UPI000369A086
UniRef90_I9W368
UniRef90_A3PK43
UniRef90_C0BGV4          E L I N M I D V H L A
UniRef90_W0RIP6          E V K R W L
UniRef90_T0GAC6
UniRef90_UPI00046518E7
UniRef90_B6AUP5
UniRef90_A8LLV0
```


1
10
20
30
40
UniRef90_C1A489
UniRef90_G8R6U5
UniRef90_UPI00041B969E
UniRef90_R4KDA5
UniRef90_F9Q6B1
UniRef90_A0A024KFS7
UniRef90_R6MPL7
UniRef90_G0JPT6
UniRef90_UPI000289AFE6
UniRef90_D8F238
UniRef90_K1YF93
UniRef90_A6NR55
UniRef90_K2IRK7
UniRef90_A0A023RIE9
UniRef90_L7VSB6
UniRef90_R9B3V7
UniRef90_Q8R9C8
UniRef90_UPI00036C5176
UniRef90_UPI00037FE8E8
UniRef90_UPI000465E91A
UniRef90_H9UHB1
UniRef90_R5LP57
UniRef90_N8QFG4
UniRef90_F3WUQ5
UniRef90_W1N685
UniRef90_C2BE81
UniRef90_D6GRB6
UniRef90_M8JIM3
UniRef90_H6LMJ7
UniRef90_C6Y256
UniRef90_B8I4K8
UniRef90_UPI000368ECAE
UniRef90_X2H622
UniRef90_V4NWK2
UniRef90_T0H2S7
UniRef90_A3SN16
UniRef90_A6TNQ0
UniRef90_C4L4C5
UniRef90_I3CB52
UniRef90_R9KH36
UniRef90_D9SM37
UniRef90_UPI00037E4756
UniRef90_M2TC90
UniRef90_F9ZMP5
UniRef90_A8F2P3
UniRef90_F0SWT3
UniRef90_R6V6U5
UniRef90_E4T8Y1
UniRef90_F8E9V0
UniRef90_UPI00026CD7A4
UniRef90_UPI00028872C3
UniRef90_D5BPM9
UniRef90_B1HW98
UniRef90_UPI0003484285
UniRef90_UPI00035EDFB7
UniRef90_UPI00038F5BA6
UniRef90_W4ERY4
UniRef90_T0HGU8
UniRef90_UPI00047C1DD4
UniRef90_C8W0F0
UniRef90_A0A023D3D0
UniRef90_A6ETN7
UniRef90_UPI0003F702D2
UniRef90_I9S960
UniRef90_V2TIJ1
UniRef90_C9XLS7
UniRef90_E6UG81
UniRef90_UPI00036C983D
UniRef90_Q481H4
UniRef90_UPI00047E56CE
UniRef90_S0G1I8
UniRef90_UPI0002F5D1BB
UniRef90_N1MF68
UniRef90_Q0FHX1
UniRef90_A1S971
UniRef90_Q31FC0
UniRef90_R0DWQ0
UniRef90_R9M5V9
UniRef90_R6Q030
UniRef90_E4TSC7
UniRef90_I3ECN5
UniRef90_UPI00047BCB44
UniRef90_L0FUG9
UniRef90_UPI00035D80E7
UniRef90_N9DJA8
UniRef90_UPI0004109BDA
UniRef90_V4TB87
UniRef90_UPI000410FFC6
UniRef90_A0A059II91
UniRef90_K0P687
UniRef90_F7V9T6
UniRef90_B5YJP9

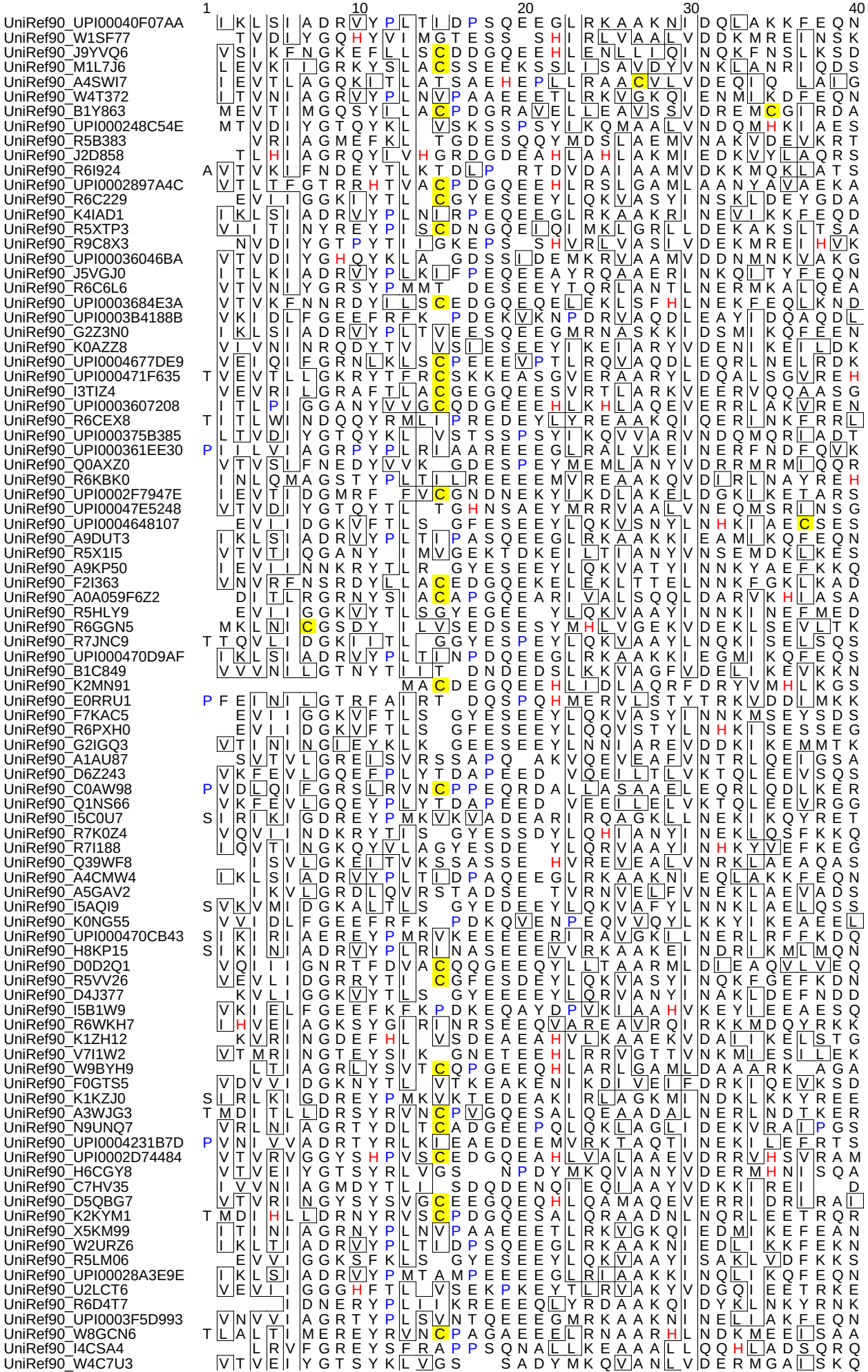

50
60
70
80
UniRef90_C1A489
UniRef90_G8R6U5
UniRef90_UPI00041B969E
UniRef90_R4KDA5
UniRef90_F9Q6B1
UniRef90_A0A024KFS7
UniRef90_R6MPL7
UniRef90_G0JPT6
UniRef90_UPI000289AFE6
UniRef90_D8F238
UniRef90_K1YF93
UniRef90_A6NR55
UniRef90_K2IRK7
UniRef90_A0A023RIE9
UniRef90_L7VSB6
UniRef90_R9B3V7
UniRef90_Q8R9C8
UniRef90_UPI00036C5176
UniRef90_UPI00037FE8E8
UniRef90_UPI000465E91A
UniRef90_H9UHB1
UniRef90_R5LP57
UniRef90_N8QFG4
UniRef90_F3WUQ5
UniRef90_W1N685
UniRef90_C2BE81
UniRef90_D6GRB6
UniRef90_M8JIM3
UniRef90_H6LMJ7
UniRef90_C6Y256
UniRef90_B8I4K8
UniRef90_UPI000368ECAE
UniRef90_X2H622
UniRef90_V4NWK2
UniRef90_T0H2S7
UniRef90_A3SN16
UniRef90_A6TNQ0
UniRef90_C4L4C5
UniRef90_I3CB52
UniRef90_R9KH36
UniRef90_D9SM37
UniRef90_UPI00037E4756
UniRef90_M2TC90
UniRef90_F9ZMP5
UniRef90_A8F2P3
UniRef90_F0SWT3
UniRef90_R6V6U5
UniRef90_E4T8Y1
UniRef90_F8E9V0
UniRef90_UPI00026CD7A4
UniRef90_UPI00028872C3
UniRef90_D5BPM9
UniRef90_B1HW98
UniRef90_UPI0003484285
UniRef90_UPI00035EDFB7
UniRef90_UPI00038F5BA6
UniRef90_W4ERY4
UniRef90_T0HGU8
UniRef90_UPI00047C1DD4
UniRef90_C8W0F0
UniRef90_A0A023D3D0
UniRef90_A6ETN7
UniRef90_UPI0003F702D2
UniRef90_I9S960
UniRef90_V2TIJ1
UniRef90_C9XLS7
UniRef90_E6UG81
UniRef90_UPI00036C983D
UniRef90_Q481H4
UniRef90_UPI00047E56CE
UniRef90_S0G1I8
UniRef90_UPI0002F5D1BB
UniRef90_N1MF68
UniRef90_Q0FHX1
UniRef90_A1S971
UniRef90_Q31FC0
UniRef90_R0DWQ0
UniRef90_R9M5V9
UniRef90_R6Q030
UniRef90_E4TSC7
UniRef90_I3ECN5
UniRef90_UPI00047BCB44
UniRef90_L0FUG9
UniRef90_UPI00035D80E7
UniRef90_N9DJA8
UniRef90_UPI0004109BDA
UniRef90_V4TB87
UniRef90_UPI000410FFC6
UniRef90_A0A059II91
UniRef90_K0P687
UniRef90_F7V9T6
UniRef90_B5YJP9

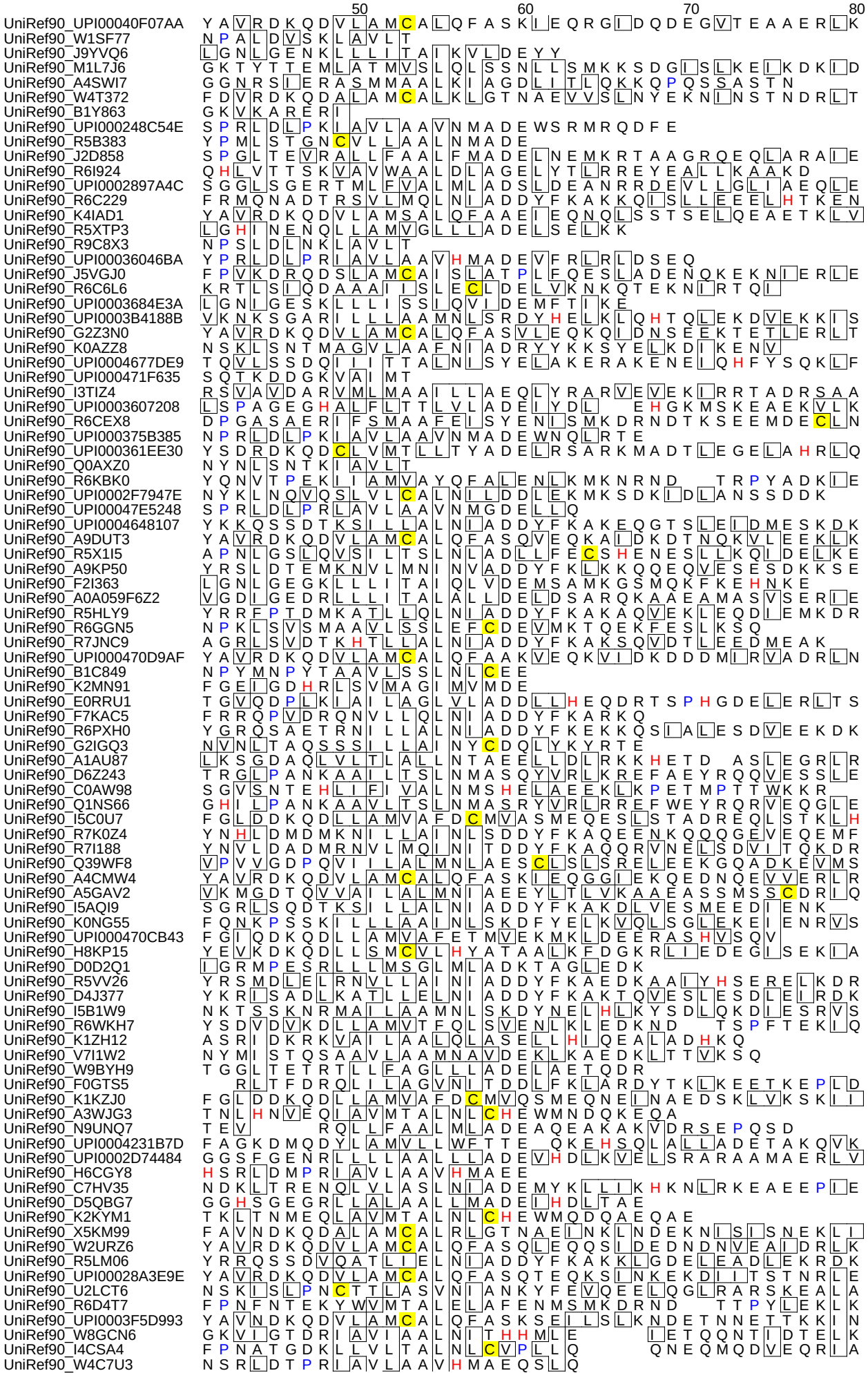
```
UniRef90_C1A489          D I R P L L
UniRef90_G8R6U5          H L Q Q L L E A A
UniRef90_UPI00041B969E
UniRef90_R4KDA5
UniRef90_F9Q6B1
UniRef90_A0A024KFS7
UniRef90_R6MPL7
UniRef90_G0JPT6          R L R R L V D
UniRef90_UPI000289AFE6
UniRef90_D8F238          V M N R Q I E
UniRef90_K1YF93          R L N E D I R A M L
UniRef90_A6NR55
UniRef90_K2IRK7
UniRef90_A0A023RIE9      M L Q R T I E A A L
UniRef90_L7VSB6
UniRef90_R9B3V7
UniRef90_Q8R9C8
UniRef90_UPI00036C5176
UniRef90_UPI00037FE8E8   S I I K K I D Q A L E
UniRef90_UPI000465E91A   E T I A Q V A Q
UniRef90_H9UHB1          E L I Q Q I D Q R L G S
UniRef90_R5LP57          E L I R L I D A
UniRef90_N8QFG4          T I L E D V D D
UniRef90_F3WUQ5          R I A E R L E   A L A D
UniRef90_W1N685          E L S E R L E K A L V D
UniRef90_C2BE81          A
UniRef90_D6GRB6
UniRef90_M8JIM3
UniRef90_H6LMJ7
UniRef90_C6Y256          E L D S L L N D
UniRef90_B8I4K8
UniRef90_UPI000368ECAE
UniRef90_X2H622          M L Q Q L L D S A L
UniRef90_V4NWK2
UniRef90_T0H2S7
UniRef90_A3SN16
UniRef90_A6TNQ0          D L D N Q L T S A L E Q
UniRef90_C4L4C5
UniRef90_I3CB52          N L D A M L S K H L G
UniRef90_R9KH36          E I
UniRef90_D9SM37
UniRef90_UPI00037E4756     L I K K I E K V L
UniRef90_M2TC90
UniRef90_F9ZMP5          R L Q A L V D
UniRef90_A8F2P3          E T L T T I A G Y L E N
UniRef90_F0SWT3
UniRef90_R6V6U5          E M
UniRef90_E4T8Y1          Y L N Q L L D E
UniRef90_F8E9V0
UniRef90_UPI00026CD7A4   S L A D S L E Q
UniRef90_UPI00028872C3
UniRef90_D5BPM9          A T A I V L E K A
UniRef90_B1HW98
UniRef90_UPI0003484285
UniRef90_UPI00035EDFB7
UniRef90_UPI00038F5BA6
UniRef90_W4ERY4
UniRef90_T0HGU8          Q L A G R I E K
UniRef90_UPI00047C1DD4
UniRef90_C8W0F0
UniRef90_A0A023D3D0
UniRef90_A6ETN7          A L N Q L L H E K I S
UniRef90_UPI0003F702D2   H V N S L L S K A I
UniRef90_I9S960          E L T E M L E E
UniRef90_V2TIJ1          T V L E S I E K
UniRef90_C9XLS7
UniRef90_E6UG81          D
UniRef90_UPI00036C983D
UniRef90_Q481H4          T L K S A L
UniRef90_UPI00047E56CE
UniRef90_S0G1I8          S L M K K I D K G L
UniRef90_UPI0002F5D1BB   R I V E R L E H
UniRef90_N1MF68          A L A D R I E K
UniRef90_Q0FHX1
UniRef90_A1S971
UniRef90_Q31FC0          D A I T Q V
UniRef90_R0DWQ0          E V E A K
UniRef90_R9M5V9
UniRef90_R6Q030
UniRef90_E4TSC7          S I E H L I N Q T I
UniRef90_I3ECN5
UniRef90_UPI00047BCB44
UniRef90_L0FUG9          K I N D Q L K S V L
UniRef90_UPI00035D80E7
UniRef90_N9DJA8          A M L E D V E K A
UniRef90_UPI0004109BDA
UniRef90_V4TB87
UniRef90_UPI000410FFC6   E M D Q K L S A L L A
UniRef90_A0A059II91
UniRef90_K0P687          R W N D S I E K V L E
UniRef90_F7V9T6          R M     R A E Q A L T S
UniRef90_B5YJP9
```


1
10
20
30
40
UniRef90_L0EBV9
UniRef90_E8SFK0
UniRef90_S0FLP7
UniRef90_R5NYB8
UniRef90_Q891T9
UniRef90_R6TTP5
UniRef90_R6ZGS3
UniRef90_N9DLN5
UniRef90_D7CP46
UniRef90_U2NQJ7
UniRef90_C7JBZ2
UniRef90_D2U1W2
UniRef90_F4MLI1
UniRef90_E0E443
UniRef90_M1Z4B6
UniRef90_S3PE92
UniRef90_K9CMH9
UniRef90_C7D779
UniRef90_Q11W13
UniRef90_UPI00036A804F
UniRef90_UPI0003B3A3FA
UniRef90_F5TAY9
UniRef90_UPI0003B444DB
UniRef90_A3K1U7
UniRef90_UPI00036260AC
UniRef90_UPI00042A718F
UniRef90_C8RZK0
UniRef90_D3PBJ9
UniRef90_K7SEC8
UniRef90_UPI00036593C4
UniRef90_A0A017T3P6
UniRef90_M4SL38
UniRef90_UPI000347A6CB
UniRef90_M7NR95
UniRef90_I3Z0C6
UniRef90_A8GUP2
UniRef90_D3EEQ1
UniRef90_UPI00030F980F
UniRef90_G2FYF9
UniRef90_R5QXA8
UniRef90_A3U2V4
UniRef90_K4ZLE4
UniRef90_U2RTG8
UniRef90_UPI000479BC85
UniRef90_J9DHQ3
UniRef90_A3DH66
UniRef90_A0M2K1
UniRef90_UPI00037D2D4F
UniRef90_G9ZVH2
UniRef90_UPI00036E9B1F
UniRef90_A0A058ZQE4
UniRef90_C8WQJ2
UniRef90_I0AJJ5
UniRef90_W6SHQ6
UniRef90_R9N573
UniRef90_UPI000417E7D1
UniRef90_U1KHQ9
UniRef90_UPI0004169892
UniRef90_UPI0004702A36
UniRef90_R6G146
UniRef90_A0A037Z2M3
UniRef90_B8FGT1
UniRef90_R5JWF7
UniRef90_W7YNH2
UniRef90_C1DDR6
UniRef90_W7CHB6
UniRef90_R6MHL9
UniRef90_R6N2B1
UniRef90_M1MTD3
UniRef90_UPI0002E85D88
UniRef90_K2P3J5
UniRef90_U2C4X6
UniRef90_B7V5U9
UniRef90_UPI000225FE06
UniRef90_J3VU07
UniRef90_UPI000348FF38
UniRef90_G2ECC1
UniRef90_X5MKV4
UniRef90_W1S8L0
UniRef90_V6DFA3
UniRef90_K6UHC9
UniRef90_X1T0K7
UniRef90_Q1NDK0
UniRef90_R7J5M7
UniRef90_UPI000423F72D
UniRef90_S9S1W7
UniRef90_F4XED4
UniRef90_G2TEC9
UniRef90_J3ABH4
UniRef90_F1Z9T2
UniRef90_W6N3V5
UniRef90_V2ZJQ8

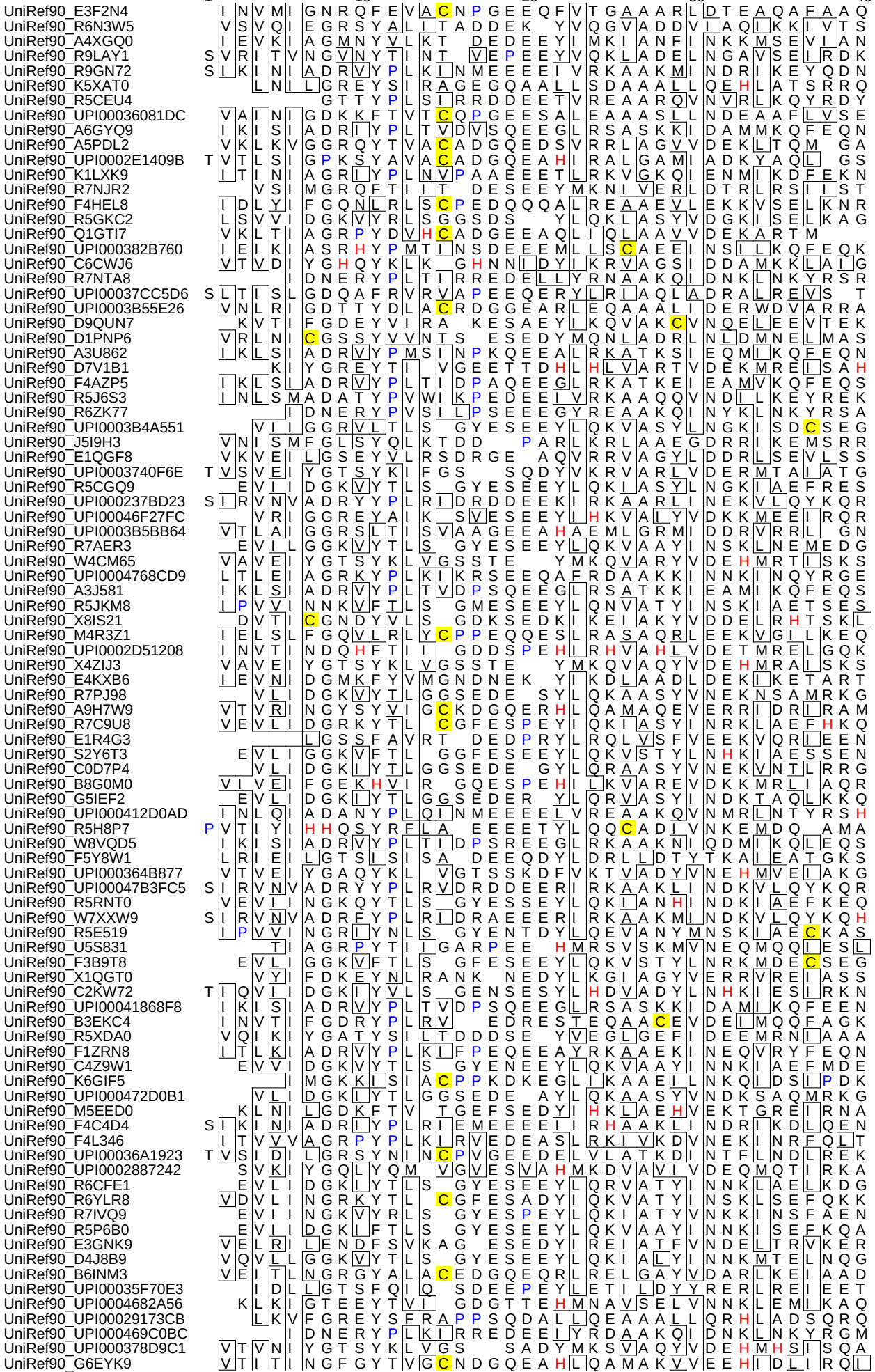

50
60
70
80
UniRef90_L0EBV9
UniRef90_E8SFK0
UniRef90_S0FLP7
UniRef90_R5NYB8
UniRef90_Q891T9
UniRef90_R6TTP5
UniRef90_R6ZGS3
UniRef90_N9DLN5
UniRef90_D7CP46
UniRef90_U2NQJ7
UniRef90_C7JBZ2
UniRef90_D2U1W2
UniRef90_F4MLI1
UniRef90_E0E443
UniRef90_M1Z4B6
UniRef90_S3PE92
UniRef90_K9CMH9
UniRef90_C7D779
UniRef90_Q11W13
UniRef90_UPI00036A804F
UniRef90_UPI0003B3A3FA
UniRef90_F5TAY9
UniRef90_UPI0003B444DB
UniRef90_A3K1U7
UniRef90_UPI00036260AC
UniRef90_UPI00042A718F
UniRef90_C8RZK0
UniRef90_D3PBJ9
UniRef90_K7SEC8
UniRef90_UPI00036593C4
UniRef90_A0A017T3P6
UniRef90_M4SL38
UniRef90_UPI000347A6CB
UniRef90_M7NR95
UniRef90_I3Z0C6
UniRef90_A8GUP2
UniRef90_D3EEQ1
UniRef90_UPI00030F980F
UniRef90_G2FYF9
UniRef90_R5QXA8
UniRef90_A3U2V4
UniRef90_K4ZLE4
UniRef90_U2RTG8
UniRef90_UPI000479BC85
UniRef90_J9DHQ3
UniRef90_A3DH66
UniRef90_A0M2K1
UniRef90_UPI00037D2D4F
UniRef90_G9ZVH2
UniRef90_UPI00036E9B1F
UniRef90_A0A058ZQE4
UniRef90_C8WQJ2
UniRef90_I0AJJ5
UniRef90_W6SHQ6
UniRef90_R9N573
UniRef90_UPI000417E7D1
UniRef90_U1KHQ9
UniRef90_UPI0004169892
UniRef90_UPI0004702A36
UniRef90_R6G146
UniRef90_A0A037Z2M3
UniRef90_B8FGT1
UniRef90_R5JWF7
UniRef90_W7YNH2
UniRef90_C1DDR6
UniRef90_W7CHB6
UniRef90_R6MHL9
UniRef90_R6N2B1
UniRef90_M1MTD3
UniRef90_UPI0002E85D88
UniRef90_K2P3J5
UniRef90_U2C4X6
UniRef90_B7V5U9
UniRef90_UPI000225FE06
UniRef90_J3VU07
UniRef90_UPI000348FF38
UniRef90_G2ECC1
UniRef90_X5MKV4
UniRef90_W1S8L0
UniRef90_V6DFA3
UniRef90_K6UHC9
UniRef90_X1T0K7
UniRef90_Q1NDK0
UniRef90_R7J5M7
UniRef90_UPI000423F72D
UniRef90_S9S1W7
UniRef90_F4XED4
UniRef90_G2TEC9
UniRef90_J3ABH4
UniRef90_F1Z9T2
UniRef90_W6N3V5
UniRef90_V2ZJQ8

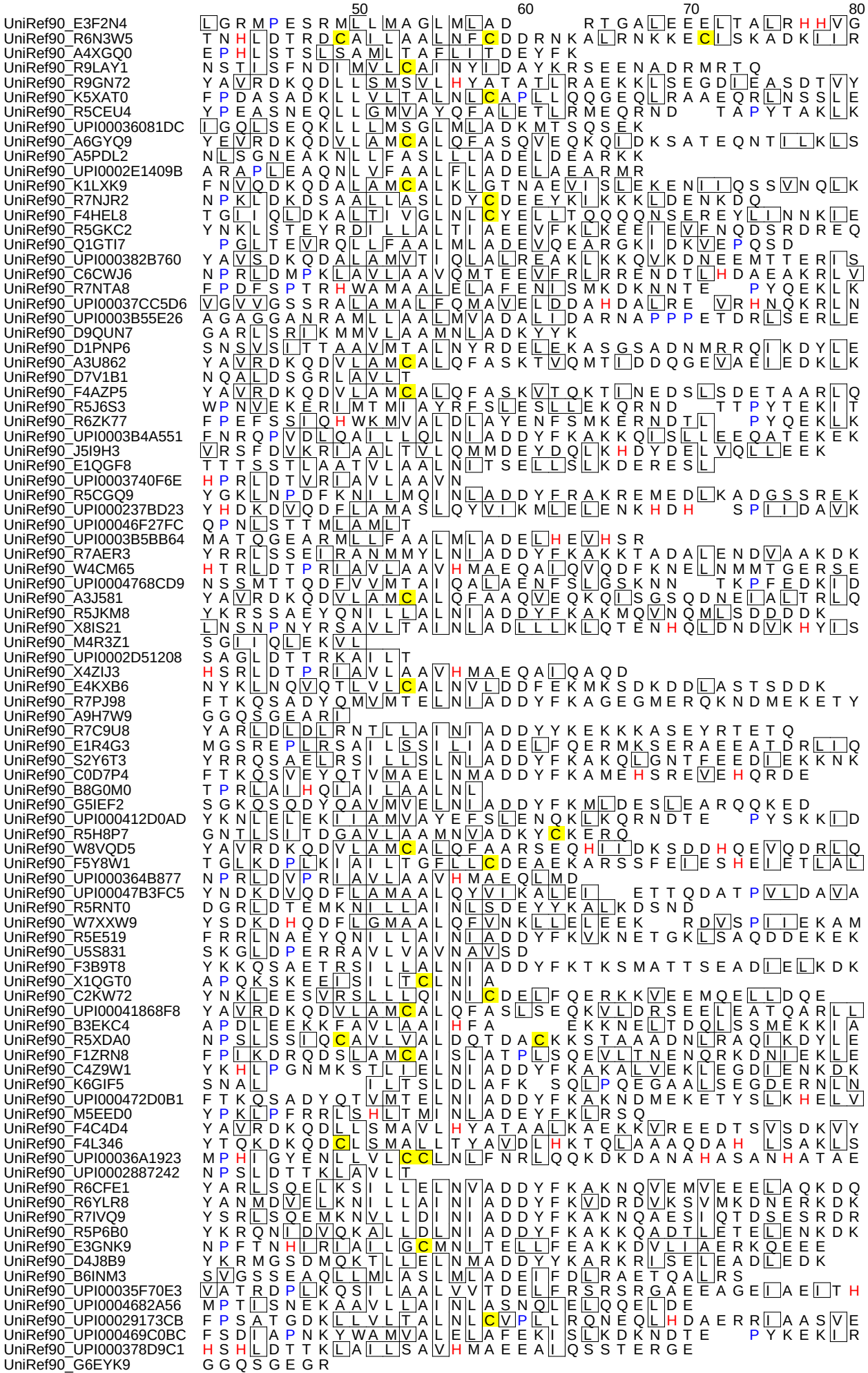
```
UniRef90_L0EBV9
UniRef90_E8SFK0
UniRef90_S0FLP7
UniRef90_R5NYB8          Q L Y D L R H E V I E S
UniRef90_Q891T9
UniRef90_R6TTP5
UniRef90_R6ZGS3
UniRef90_N9DLN5          L L Q T I L E E A
UniRef90_D7CP46
UniRef90_U2NQJ7
UniRef90_C7JBZ2
UniRef90_D2U1W2
UniRef90_F4MLI1          N L N Q M L
UniRef90_E0E443
UniRef90_M1Z4B6
UniRef90_S3PE92          S M I E D I D K A
UniRef90_K9CMH9
UniRef90_C7D779          E L Q S Q L D A I A A Q
UniRef90_Q11W13          H I D R I L S E A L A
UniRef90_UPI00036A804F   E L D S I L N D
UniRef90_UPI0003B3A3FA   S L E A Y L
UniRef90_F5TAY9
UniRef90_UPI0003B444DB   L V E R T
UniRef90_A3K1U7
UniRef90_UPI00036260AC   T V M K H V
UniRef90_UPI00042A718F
UniRef90_C8RZK0
UniRef90_D3PBJ9
UniRef90_K7SEC8
UniRef90_UPI00036593C4   D T L L Q L Q K T
UniRef90_A0A017T3P6      R I L A R V D S
UniRef90_M4SL38
UniRef90_UPI000347A6CB   Q L N A L I N E A L
UniRef90_M7NR95          H L N N L L S Q V
UniRef90_I3Z0C6          K V N R Q L T D L L
UniRef90_A8GUP2          E T L S T I A G Y L E N
UniRef90_D3EEQ1
UniRef90_UPI00030F980F
UniRef90_G2FYF9
UniRef90_R5QXA8
UniRef90_A3U2V4
UniRef90_K4ZLE4
UniRef90_U2RTG8          E
UniRef90_UPI000479BC85
UniRef90_J9DHQ3
UniRef90_A3DH66
UniRef90_A0M2K1          S L N E L L Q Q H L T S
UniRef90_UPI00037D2D4F   A L H Q V L D E
UniRef90_G9ZVH2          R I A E K I E
UniRef90_UPI00036E9B1F   D L N A W L A K A
UniRef90_A0A058ZQE4
UniRef90_C8WQJ2
UniRef90_I0AJJ5          R I
UniRef90_W6SHQ6
UniRef90_R9N573          E L
UniRef90_UPI000417E7D1
UniRef90_U1KHQ9          K L V
UniRef90_UPI0004169892   K W D E L I T S A L
UniRef90_UPI0004702A36   R L R A
UniRef90_R6G146          E L
UniRef90_A0A037Z2M3
UniRef90_B8FGT1          R L L Q R M E N
UniRef90_R5JWF7          Q L Y D L R H E V I E T
UniRef90_W7YNH2
UniRef90_C1DDR6
UniRef90_W7CHB6
UniRef90_R6MHL9
UniRef90_R6N2B1
UniRef90_M1MTD3
UniRef90_UPI0002E85D88
UniRef90_K2P3J5          K L N E L L A N H L
UniRef90_U2C4X6          E L T E L L E N
UniRef90_B7V5U9          A L V E R I A G A
UniRef90_UPI000225FE06
UniRef90_J3VU07
UniRef90_UPI000348FF38
UniRef90_G2ECC1          A L N D L L D A H L
UniRef90_X5MKV4
UniRef90_W1S8L0
UniRef90_V6DFA3
UniRef90_K6UHC9          T I M Q D V E K
UniRef90_X1T0K7
UniRef90_Q1NDK0
UniRef90_R7J5M7          E L N D E L D K Y L K D
UniRef90_UPI000423F72D
UniRef90_S9S1W7
UniRef90_F4XED4
UniRef90_G2TEC9
UniRef90_J3ABH4          R I A S R V E N
UniRef90_F1Z9T2
UniRef90_W6N3V5
UniRef90_V2ZJQ8
```


1
10
20
30
40
UniRef90_UPI00040F07AA
UniRef90_W1SF77
UniRef90_J9YVQ6
UniRef90_M1L7J6
UniRef90_A4SWI7
UniRef90_W4T372
UniRef90_B1Y863
UniRef90_UPI000248C54E
UniRef90_R5B383
UniRef90_J2D858
UniRef90_R6I924
UniRef90_UPI0002897A4C
UniRef90_R6C229
UniRef90_K4IAD1
UniRef90_R5XTP3
UniRef90_R9C8X3
UniRef90_UPI00036046BA
UniRef90_J5VGJ0
UniRef90_R6C6L6
UniRef90_UPI0003684E3A
UniRef90_UPI0003B4188B
UniRef90_G2Z3N0
UniRef90_K0AZZ8
UniRef90_UPI0004677DE9
UniRef90_UPI000471F635
UniRef90_I3TIZ4
UniRef90_UPI0003607208
UniRef90_R6CEX8
UniRef90_UPI000375B385
UniRef90_UPI000361EE30
UniRef90_Q0AXZ0
UniRef90_R6KBK0
UniRef90_UPI0002F7947E
UniRef90_UPI00047E5248
UniRef90_UPI0004648107
UniRef90_A9DUT3
UniRef90_R5X1I5
UniRef90_A9KP50
UniRef90_F2I363
UniRef90_A0A059F6Z2
UniRef90_R5HLY9
UniRef90_R6GGN5
UniRef90_R7JNC9
UniRef90_UPI000470D9AF
UniRef90_B1C849
UniRef90_K2MN91
UniRef90_E0RRU1
UniRef90_F7KAC5
UniRef90_R6PXH0
UniRef90_G2IGQ3
UniRef90_A1AU87
UniRef90_D6Z243
UniRef90_C0AW98
UniRef90_Q1NS66
UniRef90_I5C0U7
UniRef90_R7K0Z4
UniRef90_R7I188
UniRef90_Q39WF8
UniRef90_A4CMW4
UniRef90_A5GAV2
UniRef90_I5AQI9
UniRef90_K0NG55
UniRef90_UPI000470CB43
UniRef90_H8KP15
UniRef90_D0D2Q1
UniRef90_R5VV26
UniRef90_D4J377
UniRef90_I5B1W9
UniRef90_R6WKH7
UniRef90_K1ZH12
UniRef90_V7I1W2
UniRef90_W9BYH9
UniRef90_F0GTS5
UniRef90_K1KZJ0
UniRef90_A3WJG3
UniRef90_N9UNQ7
UniRef90_UPI0004231B7D
UniRef90_UPI0002D74484
UniRef90_H6CGY8
UniRef90_C7HV35
UniRef90_D5QBG7
UniRef90_K2KYM1
UniRef90_X5KM99
UniRef90_W2URZ6
UniRef90_R5LM06
UniRef90_UPI00028A3E9E
UniRef90_U2LCT6
UniRef90_R6D4T7
UniRef90_UPI0003F5D993
UniRef90_W8GCN6
UniRef90_I4CSA4
UniRef90_W4C7U3

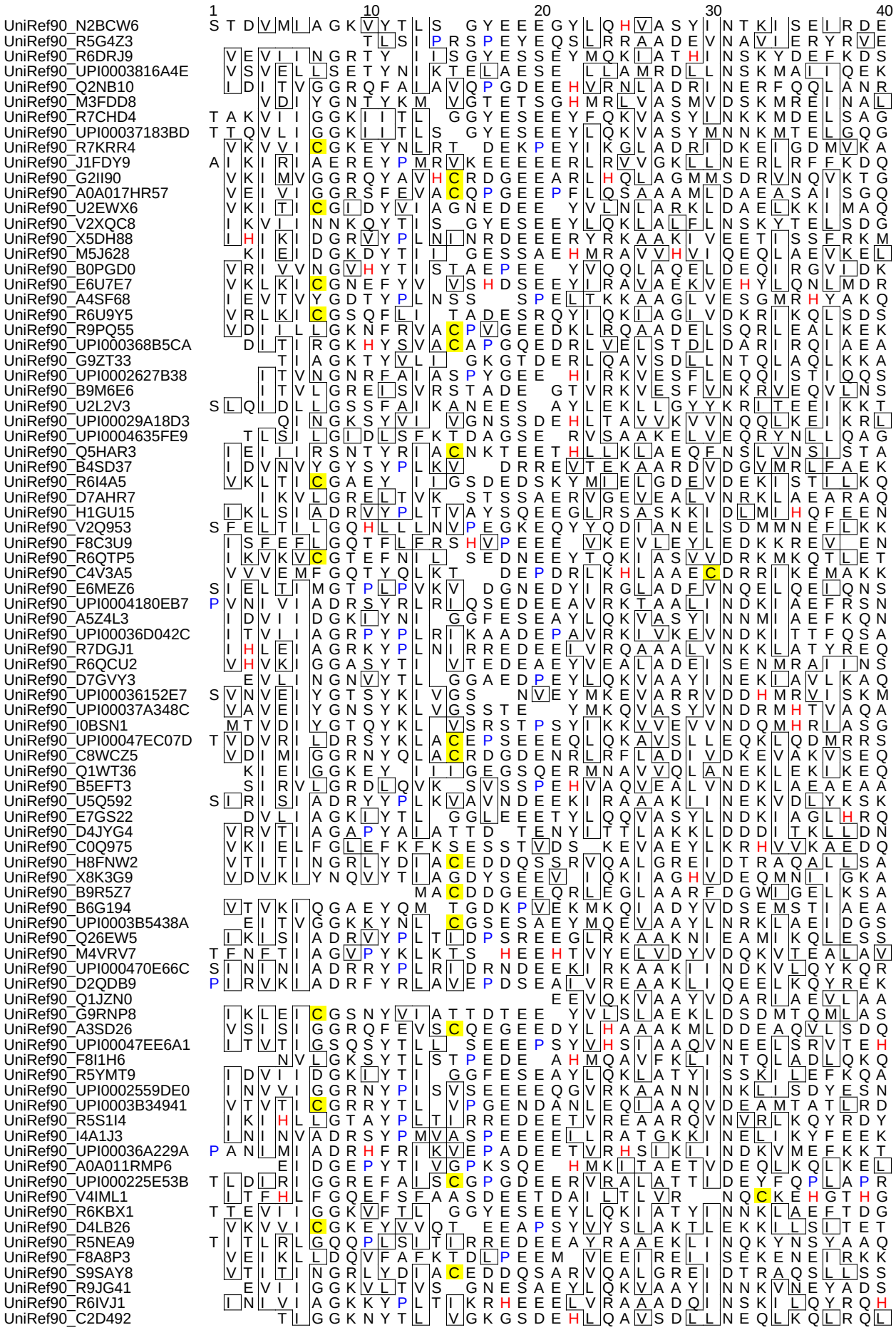

50
60
70
80
UniRef90_UPI00040F07AA
UniRef90_W1SF77
UniRef90_J9YVQ6
UniRef90_M1L7J6
UniRef90_A4SWI7
UniRef90_W4T372
UniRef90_B1Y863
UniRef90_UPI000248C54E
UniRef90_R5B383
UniRef90_J2D858
UniRef90_R6I924
UniRef90_UPI0002897A4C
UniRef90_R6C229
UniRef90_K4IAD1
UniRef90_R5XTP3
UniRef90_R9C8X3
UniRef90_UPI00036046BA
UniRef90_J5VGJ0
UniRef90_R6C6L6
UniRef90_UPI0003684E3A
UniRef90_UPI0003B4188B
UniRef90_G2Z3N0
UniRef90_K0AZZ8
UniRef90_UPI0004677DE9
UniRef90_UPI000471F635
UniRef90_I3TIZ4
UniRef90_UPI0003607208
UniRef90_R6CEX8
UniRef90_UPI000375B385
UniRef90_UPI000361EE30
UniRef90_Q0AXZ0
UniRef90_R6KBK0
UniRef90_UPI0002F7947E
UniRef90_UPI00047E5248
UniRef90_UPI0004648107
UniRef90_A9DUT3
UniRef90_R5X1I5
UniRef90_A9KP50
UniRef90_F2I363
UniRef90_A0A059F6Z2
UniRef90_R5HLY9
UniRef90_R6GGN5
UniRef90_R7JNC9
UniRef90_UPI000470D9AF
UniRef90_B1C849
UniRef90_K2MN91
UniRef90_E0RRU1
UniRef90_F7KAC5
UniRef90_R6PXH0
UniRef90_G2IGQ3
UniRef90_A1AU87
UniRef90_D6Z243
UniRef90_C0AW98
UniRef90_Q1NS66
UniRef90_I5C0U7
UniRef90_R7K0Z4
UniRef90_R7I188
UniRef90_Q39WF8
UniRef90_A4CMW4
UniRef90_A5GAV2
UniRef90_I5AQI9
UniRef90_K0NG55
UniRef90_UPI000470CB43
UniRef90_H8KP15
UniRef90_D0D2Q1
UniRef90_R5VV26
UniRef90_D4J377
UniRef90_I5B1W9
UniRef90_R6WKH7
UniRef90_K1ZH12
UniRef90_V7I1W2
UniRef90_W9BYH9
UniRef90_F0GTS5
UniRef90_K1KZJ0
UniRef90_A3WJG3
UniRef90_N9UNQ7
UniRef90_UPI0004231B7D
UniRef90_UPI0002D74484
UniRef90_H6CGY8
UniRef90_C7HV35
UniRef90_D5QBG7
UniRef90_K2KYM1
UniRef90_X5KM99
UniRef90_W2URZ6
UniRef90_R5LM06
UniRef90_UPI00028A3E9E
UniRef90_U2LCT6
UniRef90_R6D4T7
UniRef90_UPI0003F5D993
UniRef90_W8GCN6
UniRef90_I4CSA4
UniRef90_W4C7U3

UniRef90_UPI00040F07AA	A L D N L I G S K L G
UniRef90_W1SF77	
UniRef90_J9YVQ6	
UniRef90_M1L7J6	N I S A L I D E V I
UniRef90_A4SWI7	
UniRef90_W4T372	Q I N Q S L N E
UniRef90_B1Y863	
UniRef90_UPI000248C54E	
UniRef90_R5B383	
UniRef90_J2D858	A L A T R I E K
UniRef90_R6I924	
UniRef90_UPI0002897A4C	M L A H R L E Q
UniRef90_R6C229	E M
UniRef90_K4IAD1	E L S E M I K E Q L
UniRef90_R5XTP3	
UniRef90_R9C8X3	
UniRef90_UPI00036046BA	
UniRef90_J5VGJ0	K I H Q T L
UniRef90_R6C6L6	
UniRef90_UPI0003684E3A	
UniRef90_UPI0003B4188B	S L I Y K I E K G L
UniRef90_G2Z3N0	K I D E L L S K C L Q N
UniRef90_K0AZZ8	
UniRef90_UPI0004677DE9	E L K N V L D S A L I N
UniRef90_UPI000471F635	
UniRef90_I3TIZ4	D V D A T L A R A L D D
UniRef90_UPI0003607208	R A E A T L D E
UniRef90_R6CEX8	E D M K R I E K
UniRef90_UPI000375B385	
UniRef90_UPI000361EE30	A L N T L V D G M L
UniRef90_Q0AXZ0	
UniRef90_R6KBK0	E L T E V L E
UniRef90_UPI0002F7947E	
UniRef90_UPI00047E5248	
UniRef90_UPI0004648107	E M
UniRef90_A9DUT3	A L D D L L K A Q L S
UniRef90_R5X1I5	K L
UniRef90_A9KP50	E I
UniRef90_F2I363	
UniRef90_A0A059F6Z2	A L A A R L E S
UniRef90_R5HLY9	E I
UniRef90_R6GGN5	
UniRef90_R7JNC9	
UniRef90_UPI000470D9AF	E L N D L L H N H L S
UniRef90_B1C849	
UniRef90_K2MN91	
UniRef90_E0RRU1	R L L L Q I N E A L E
UniRef90_F7KAC5	
UniRef90_R6PXH0	E M
UniRef90_G2IGQ3	
UniRef90_A1AU87	E M L Y K L E S A
UniRef90_D6Z243	R L S T R L D K T
UniRef90_C0AW98	
UniRef90_Q1NS66	Q L A Q R V E Q V
UniRef90_I5C0U7	A I N E Q L E G L L
UniRef90_R7K0Z4	R M K H
UniRef90_R7I188	E L
UniRef90_Q39WF8	R L V K R I D S A L
UniRef90_A4CMW4	S L D S L I A S T L S
UniRef90_A5GAV2	R L I K R I D
UniRef90_I5AQI9	
UniRef90_K0NG55	S L I E K I D R E I E
UniRef90_UPI000470CB43	
UniRef90_H8KP15	E L D Q Q L T Q Y L S G
UniRef90_D0D2Q1	
UniRef90_R5VV26	M I L E M
UniRef90_D4J377	E I
UniRef90_I5B1W9	S L L D K I D K T M
UniRef90_R6WKH7	E L T D E L E S Y L K D
UniRef90_K1ZH12	
UniRef90_V7I1W2	
UniRef90_W9BYH9	
UniRef90_F0GTS5	K
UniRef90_K1KZJ0	Q I S D K L
UniRef90_A3WJG3	
UniRef90_N9UNQ7	
UniRef90_UPI0004231B7D	E M V Q S I D N A L
UniRef90_UPI0002D74484	R V A E R I E
UniRef90_H6CGY8	
UniRef90_C7HV35	
UniRef90_D5QBG7	
UniRef90_K2KYM1	
UniRef90_X5KM99	H L N N L L Q N E L E
UniRef90_W2URZ6	S L N Q I L
UniRef90_R5LM06	E I
UniRef90_UPI00028A3E9E	N L I D Q V D V V L S
UniRef90_U2LCT6	N Y K P A L E K
UniRef90_R6D4T7	Q L E Q D I D E C I G
UniRef90_UPI0003F5D993	E L T E L V A S H L
UniRef90_W8GCN6	K L H A S I D A A L D Q
UniRef90_I4CSA4	A S V A R I N Q Q L A
UniRef90_W4C7U3	

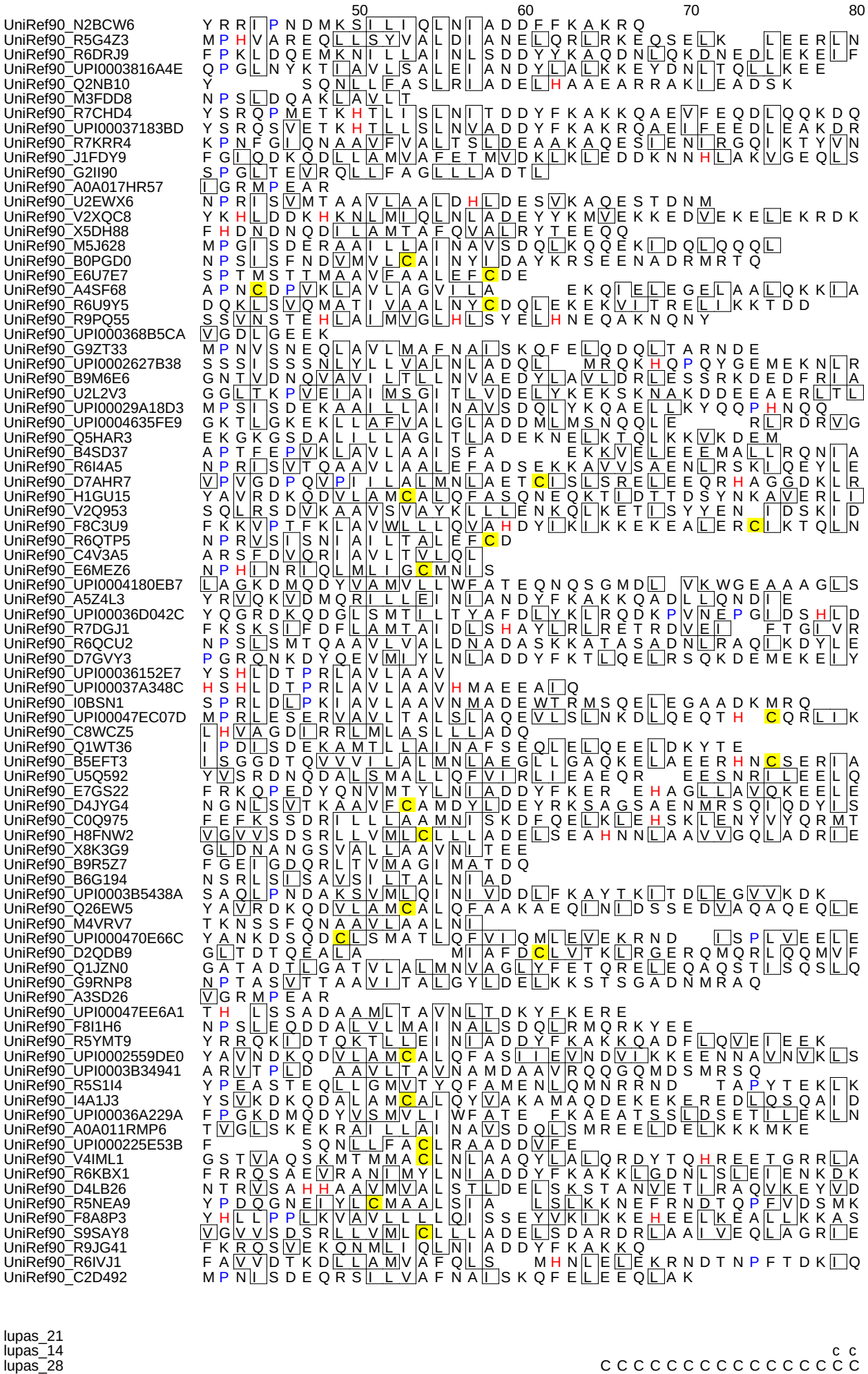

1
10
20
30
40
UniRef90_E3F2N4
UniRef90_R6N3W5
UniRef90_A4XGQ0
UniRef90_R9LAY1
UniRef90_R9GN72
UniRef90_K5XAT0
UniRef90_R5CEU4
UniRef90_UPI00036081DC
UniRef90_A6GYQ9
UniRef90_A5PDL2
UniRef90_UPI0002E1409B
UniRef90_K1LXK9
UniRef90_R7NJR2
UniRef90_F4HEL8
UniRef90_R5GKC2
UniRef90_Q1GTI7
UniRef90_UPI000382B760
UniRef90_C6CWJ6
UniRef90_R7NTA8
UniRef90_UPI00037CC5D6
UniRef90_UPI0003B55E26
UniRef90_D9QUN7
UniRef90_D1PNP6
UniRef90_A3U862
UniRef90_D7V1B1
UniRef90_F4AZP5
UniRef90_R5J6S3
UniRef90_R6ZK77
UniRef90_UPI0003B4A551
UniRef90_J5I9H3
UniRef90_E1QGF8
UniRef90_UPI0003740F6E
UniRef90_R5CGQ9
UniRef90_UPI000237BD23
UniRef90_UPI00046F27FC
UniRef90_UPI0003B5BB64
UniRef90_R7AER3
UniRef90_W4CM65
UniRef90_UPI0004768CD9
UniRef90_A3J581
UniRef90_R5JKM8
UniRef90_X8IS21
UniRef90_M4R3Z1
UniRef90_UPI0002D51208
UniRef90_X4ZIJ3
UniRef90_E4KXB6
UniRef90_R7PJ98
UniRef90_A9H7W9
UniRef90_R7C9U8
UniRef90_E1R4G3
UniRef90_S2Y6T3
UniRef90_C0D7P4
UniRef90_B8G0M0
UniRef90_G5IEF2
UniRef90_UPI000412D0AD
UniRef90_R5H8P7
UniRef90_W8VQD5
UniRef90_F5Y8W1
UniRef90_UPI000364B877
UniRef90_UPI00047B3FC5
UniRef90_R5RNT0
UniRef90_W7XXW9
UniRef90_R5E519
UniRef90_U5S831
UniRef90_F3B9T8
UniRef90_X1QGT0
UniRef90_C2KW72
UniRef90_UPI00041868F8
UniRef90_B3EKC4
UniRef90_R5XDA0
UniRef90_F1ZRN8
UniRef90_C4Z9W1
UniRef90_K6GIF5
UniRef90_UPI000472D0B1
UniRef90_M5EED0
UniRef90_F4C4D4
UniRef90_F4L346
UniRef90_UPI00036A1923
UniRef90_UPI0002887242
UniRef90_R6CFE1
UniRef90_R6YLR8
UniRef90_R7IVQ9
UniRef90_R5P6B0
UniRef90_E3GNK9
UniRef90_D4J8B9
UniRef90_B6INM3
UniRef90_UPI00035F70E3
UniRef90_UPI0004682A56
UniRef90_UPI00029173CB
UniRef90_UPI000469C0BC
UniRef90_UPI000378D9C1
UniRef90_G6EYK9


50
60
70
80
UniRef90_E3F2N4
UniRef90_R6N3W5
UniRef90_A4XGQ0
UniRef90_R9LAY1
UniRef90_R9GN72
UniRef90_K5XAT0
UniRef90_R5CEU4
UniRef90_UPI00036081DC
UniRef90_A6GYQ9
UniRef90_A5PDL2
UniRef90_UPI0002E1409B
UniRef90_K1LXK9
UniRef90_R7NJR2
UniRef90_F4HEL8
UniRef90_R5GKC2
UniRef90_Q1GTI7
UniRef90_UPI000382B760
UniRef90_C6CWJ6
UniRef90_R7NTA8
UniRef90_UPI00037CC5D6
UniRef90_UPI0003B55E26
UniRef90_D9QUN7
UniRef90_D1PNP6
UniRef90_A3U862
UniRef90_D7V1B1
UniRef90_F4AZP5
UniRef90_R5J6S3
UniRef90_R6ZK77
UniRef90_UPI0003B4A551
UniRef90_J5I9H3
UniRef90_E1QGF8
UniRef90_UPI0003740F6E
UniRef90_R5CGQ9
UniRef90_UPI000237BD23
UniRef90_UPI00046F27FC
UniRef90_UPI0003B5BB64
UniRef90_R7AER3
UniRef90_W4CM65
UniRef90_UPI0004768CD9
UniRef90_A3J581
UniRef90_R5JKM8
UniRef90_X8IS21
UniRef90_M4R3Z1
UniRef90_UPI0002D51208
UniRef90_X4ZIJ3
UniRef90_E4KXB6
UniRef90_R7PJ98
UniRef90_A9H7W9
UniRef90_R7C9U8
UniRef90_E1R4G3
UniRef90_S2Y6T3
UniRef90_C0D7P4
UniRef90_B8G0M0
UniRef90_G5IEF2
UniRef90_UPI000412D0AD
UniRef90_R5H8P7
UniRef90_W8VQD5
UniRef90_F5Y8W1
UniRef90_UPI000364B877
UniRef90_UPI00047B3FC5
UniRef90_R5RNT0
UniRef90_W7XXW9
UniRef90_R5E519
UniRef90_U5S831
UniRef90_F3B9T8
UniRef90_X1QGT0
UniRef90_C2KW72
UniRef90_UPI00041868F8
UniRef90_B3EKC4
UniRef90_R5XDA0
UniRef90_F1ZRN8
UniRef90_C4Z9W1
UniRef90_K6GIF5
UniRef90_UPI000472D0B1
UniRef90_M5EED0
UniRef90_F4C4D4
UniRef90_F4L346
UniRef90_UPI00036A1923
UniRef90_UPI0002887242
UniRef90_R6CFE1
UniRef90_R6YLR8
UniRef90_R7IVQ9
UniRef90_R5P6B0
UniRef90_E3GNK9
UniRef90_D4J8B9
UniRef90_B6INM3
UniRef90_UPI00035F70E3
UniRef90_UPI0004682A56
UniRef90_UPI00029173CB
UniRef90_UPI000469C0BC
UniRef90_UPI000378D9C1
UniRef90_G6EYK9

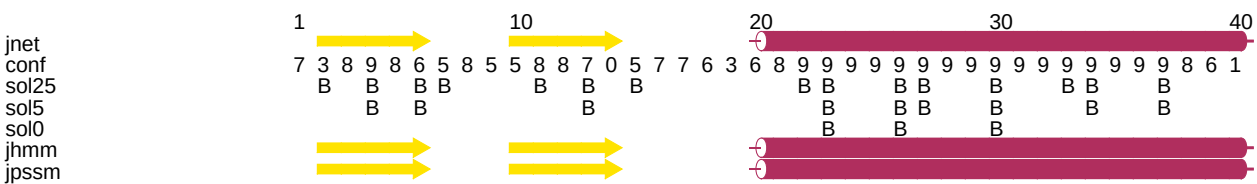
```
UniRef90_E3F2N4          T L E A R L A Q T
UniRef90_R6N3W5          Q T N D L
UniRef90_A4XGQ0
UniRef90_R9LAY1
UniRef90_R9GN72          K L D Q L L
UniRef90_K5XAT0          R I T S Q L
UniRef90_R5CEU4          E L T E A I E A
UniRef90_UPI00036081DC
UniRef90_A6GYQ9          K L N E L L G K Y L
UniRef90_A5PDL2
UniRef90_UPI0002E1409B
UniRef90_K1LXK9          K I S Q K I E E T
UniRef90_R7NJR2
UniRef90_F4HEL8          Q I E H S L S T I L S N
UniRef90_R5GKC2          E L Q E V V D K K L
UniRef90_Q1GTI7
UniRef90_UPI000382B760   K L L E L I D Q S I A
UniRef90_C6CWJ6            L V D L L E Q A
UniRef90_R7NTA8          E L T K E I E Q Y L S
UniRef90_UPI00037CC5D6   D L I L R I D H A L S
UniRef90_UPI0003B55E26   S I A A A L E Q T L
UniRef90_D9QUN7
UniRef90_D1PNP6          D
UniRef90_A3U862          N L N L F L E Q Q L
UniRef90_D7V1B1
UniRef90_F4AZP5          K L A A L L D E S L
UniRef90_R5J6S3          E L T K T L E E
UniRef90_R6ZK77          E L N E D I E R Y I Q D
UniRef90_UPI0003B4A551   E L
UniRef90_J5I9H3
UniRef90_E1QGF8
UniRef90_UPI0003740F6E
UniRef90_R5CGQ9          D L
UniRef90_UPI000237BD23   D L N D K L D A I L A
UniRef90_UPI00046F27FC
UniRef90_UPI0003B5BB64
UniRef90_R7AER3          Q I S D
UniRef90_W4CM65
UniRef90_UPI0004768CD9   S L I G E L D N Y L
UniRef90_A3J581          N L D K K L S E L L S
UniRef90_R5JKM8
UniRef90_X8IS21
UniRef90_M4R3Z1
UniRef90_UPI0002D51208
UniRef90_X4ZIJ3
UniRef90_E4KXB6
UniRef90_R7PJ98          S L K H E L
UniRef90_A9H7W9
UniRef90_R7C9U8
UniRef90_E1R4G3          F L D E E L
UniRef90_S2Y6T3          E M
UniRef90_C0D7P4
UniRef90_B8G0M0
UniRef90_G5IEF2
UniRef90_UPI000412D0AD   E L T D L L E E
UniRef90_R5H8P7
UniRef90_W8VQD5          V L D Q L L K Q H L S
UniRef90_F5Y8W1          N L I S R L D H A L G
UniRef90_UPI000364B877
UniRef90_UPI00047B3FC5   L L D Q K L D Q V L S
UniRef90_R5RNT0
UniRef90_W7XXW9          E L D Q Y L S D V L E
UniRef90_R5E519          Q I Y D L R H E V I E T
UniRef90_U5S831
UniRef90_F3B9T8          E M
UniRef90_X1QGT0
UniRef90_C2KW72
UniRef90_UPI00041868F8   Q M D E R L G D L L K Q
UniRef90_B3EKC4          R L T L F L E Q
UniRef90_R5XDA0          D
UniRef90_F1ZRN8          K I Y R I L S E
UniRef90_C4Z9W1          E I
UniRef90_K6GIF5          S L V S E I E K S L
UniRef90_UPI000472D0B1   S T Q M K L E A V L K D
UniRef90_M5EED0
UniRef90_F4C4D4          Q L D Q L L S E
UniRef90_F4L346          H L E A L L D Q
UniRef90_UPI00036A1923   Q A Q Q L I D K M I A D
UniRef90_UPI0002887242
UniRef90_R6CFE1          E L
UniRef90_R6YLR8          M V L E M
UniRef90_R7IVQ9          Q L
UniRef90_R5P6B0          Q L
UniRef90_E3GNK9
UniRef90_D4J8B9
UniRef90_B6INM3
UniRef90_UPI00035F70E3   R L L Q S I D H V L P D
UniRef90_UPI0004682A56
UniRef90_UPI00029173CB   R I S Q Q L
UniRef90_UPI000469C0BC   E L T E E L E S I L
UniRef90_UPI000378D9C1
UniRef90_G6EYK9
```

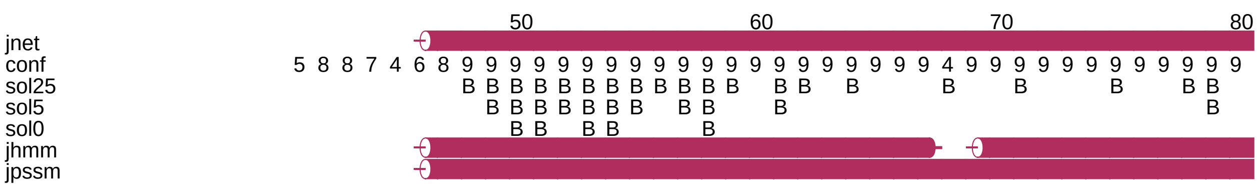


lupas_21
lupas_14
lupas_28

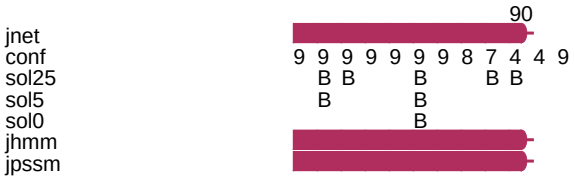

50
60
70
80
UniRef90_N2BCW6
UniRef90_R5G4Z3
UniRef90_R6DRJ9
UniRef90_UPI0003816A4E
UniRef90_Q2NB10
UniRef90_M3FDD8
UniRef90_R7CHD4
UniRef90_UPI00037183BD
UniRef90_R7KRR4
UniRef90_J1FDY9
UniRef90_G2II90
UniRef90_A0A017HR57
UniRef90_U2EWX6
UniRef90_V2XQC8
UniRef90_X5DH88
UniRef90_M5J628
UniRef90_B0PGD0
UniRef90_E6U7E7
UniRef90_A4SF68
UniRef90_R6U9Y5
UniRef90_R9PQ55
UniRef90_UPI000368B5CA
UniRef90_G9ZT33
UniRef90_UPI0002627B38
UniRef90_B9M6E6
UniRef90_U2L2V3
UniRef90_UPI00029A18D3
UniRef90_UPI0004635FE9
UniRef90_Q5HAR3
UniRef90_B4SD37
UniRef90_R6I4A5
UniRef90_D7AHR7
UniRef90_H1GU15
UniRef90_V2Q953
UniRef90_F8C3U9
UniRef90_R6QTP5
UniRef90_C4V3A5
UniRef90_E6MEZ6
UniRef90_UPI0004180EB7
UniRef90_A5Z4L3
UniRef90_UPI00036D042C
UniRef90_R7DGJ1
UniRef90_R6QCU2
UniRef90_D7GVY3
UniRef90_UPI00036152E7
UniRef90_UPI00037A348C
UniRef90_I0BSN1
UniRef90_UPI00047EC07D
UniRef90_C8WCZ5
UniRef90_Q1WT36
UniRef90_B5EFT3
UniRef90_U5Q592
UniRef90_E7GS22
UniRef90_D4JYG4
UniRef90_C0Q975
UniRef90_H8FNW2
UniRef90_X8K3G9
UniRef90_B9R5Z7
UniRef90_B6G194
UniRef90_UPI0003B5438A
UniRef90_Q26EW5
UniRef90_M4VRV7
UniRef90_UPI000470E66C
UniRef90_D2QDB9
UniRef90_Q1JZN0
UniRef90_G9RNP8
UniRef90_A3SD26
UniRef90_UPI00047EE6A1
UniRef90_F8I1H6
UniRef90_R5YMT9
UniRef90_UPI0002559DE0
UniRef90_UPI0003B34941
UniRef90_R5S1I4
UniRef90_I4A1J3
UniRef90_UPI00036A229A
UniRef90_A0A011RMP6
UniRef90_UPI000225E53B
UniRef90_V4IML1
UniRef90_R6KBX1
UniRef90_D4LB26
UniRef90_R5NEA9
UniRef90_F8A8P3
UniRef90_S9SAY8
UniRef90_R9JG41
UniRef90_R6IVJ1
UniRef90_C2D492
lupas_21
lupas_14
lupas_28
c c
C C C C C C C C C C C C C C C C C C

```
UniRef90_N2BCW6
UniRef90_R5G4Z3          R L N S S L E E S I
UniRef90_R6DRJ9          H M K H
UniRef90_UPI0003816A4E
UniRef90_Q2NB10
UniRef90_M3FDD8
UniRef90_R7CHD4          E M
UniRef90_UPI00037183BD   E M
UniRef90_R7KRR4          E
UniRef90_J1FDY9          V L D D L L
UniRef90_G2II90
UniRef90_A0A017HR57
UniRef90_U2EWX6
UniRef90_V2XQC8          E L
UniRef90_X5DH88
UniRef90_M5J628
UniRef90_B0PGD0
UniRef90_E6U7E7
UniRef90_A4SF68          G L N S L M D E S L
UniRef90_R6U9Y5
UniRef90_R9PQ55
UniRef90_UPI000368B5CA
UniRef90_G9ZT33
UniRef90_UPI0002627B38   D L C E R L D Q V L V
UniRef90_B9M6E6          G L I Q R M D S V
UniRef90_U2L2V3          R M I D R I D K A L
UniRef90_UPI00029A18D3
UniRef90_UPI0004635FE9   E L L H K I D
UniRef90_Q5HAR3
UniRef90_B4SD37          R L N
UniRef90_R6I4A5          D
UniRef90_D7AHR7          R L T R R I E D V L
UniRef90_H1GU15          R L D E A L D R V L S
UniRef90_V2Q953          D L I T K V N N
UniRef90_F8C3U9          K M G E F L E K
UniRef90_R6QTP5
UniRef90_C4V3A5
UniRef90_E6MEZ6
UniRef90_UPI0004180EB7   S L E K M L D K A L S
UniRef90_A5Z4L3
UniRef90_UPI00036D042C   T I D E I L E Q L L
UniRef90_R7DGJ1          E I D E E L D S Y L N Q
UniRef90_R6QCU2          D
UniRef90_D7GVY3          S L K H E L
UniRef90_UPI00036152E7
UniRef90_UPI00037A348C
UniRef90_I0BSN1
UniRef90_UPI00047EC07D   Q M I N D A E K S L A Q
UniRef90_C8WCZ5
UniRef90_Q1WT36
UniRef90_B5EFT3          G L I G R L N R
UniRef90_U5Q592          N L D T L L D E
UniRef90_E7GS22          K E T Y R L K H E L V S
UniRef90_D4JYG4          D
UniRef90_C0Q975          S L I E K I D E
UniRef90_H8FNW2          S I A T R L E R A
UniRef90_X8K3G9
UniRef90_B9R5Z7
UniRef90_B6G194
UniRef90_UPI0003B5438A
UniRef90_Q26EW5
UniRef90_M4VRV7
UniRef90_UPI000470E66C   E L N D F L A E Y L E
UniRef90_D2QDB9          D K I T Q L D Q V I
UniRef90_Q1JZN0          T L D E K L S S A L S
UniRef90_G9RNP8
UniRef90_A3SD26
UniRef90_UPI00047EE6A1
UniRef90_F8I1H6
UniRef90_R5YMT9
UniRef90_UPI0002559DE0   K I N S K L Q S Y L
UniRef90_UPI0003B34941
UniRef90_R5S1I4          E L T G L L E A
UniRef90_I4A1J3          Q L T Q K I N Q
UniRef90_UPI00036A229A   Q L E A I I D S E L G
UniRef90_A0A011RMP6
UniRef90_UPI000225E53B
UniRef90_V4IML1          R M N K L L S A
UniRef90_R6KBX1          E I
UniRef90_D4LB26          E
UniRef90_R5NEA9          R M L D T L D E T L G T
UniRef90_F8A8P3          E L D E Y L K E V
UniRef90_S9SAY8          A I A T R L E R A
UniRef90_R9JG41
UniRef90_R6IVJ1          E L T T E L E G Y L
UniRef90_C2D492



lupas_21
lupas_14                 c c c c c c c c c c c c
lupas_28                 C C C C C C C C C C C C
```


1
10
20
30
40
jnet
conf
sol25
sol5
sol0
jhmm
jpssm
7 3 8 9 8 6 5 8 5 5 5 8 8 7 0 5 7 7 6 3 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 8 6 1
B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B B



50
60
70
80
jnet
conf
5 8 8 7 4 6 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 4 9 9 9 9 9 9 9 9 9 9 9 9
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 B B B B B B
sol0
B B B B B
jhmm
jpssm


90
jnet
conf
sol25
sol5
sol0
jhmm
jpssm
9 9 9 9 9 9 8 7 4 4 9
B B B B B B B