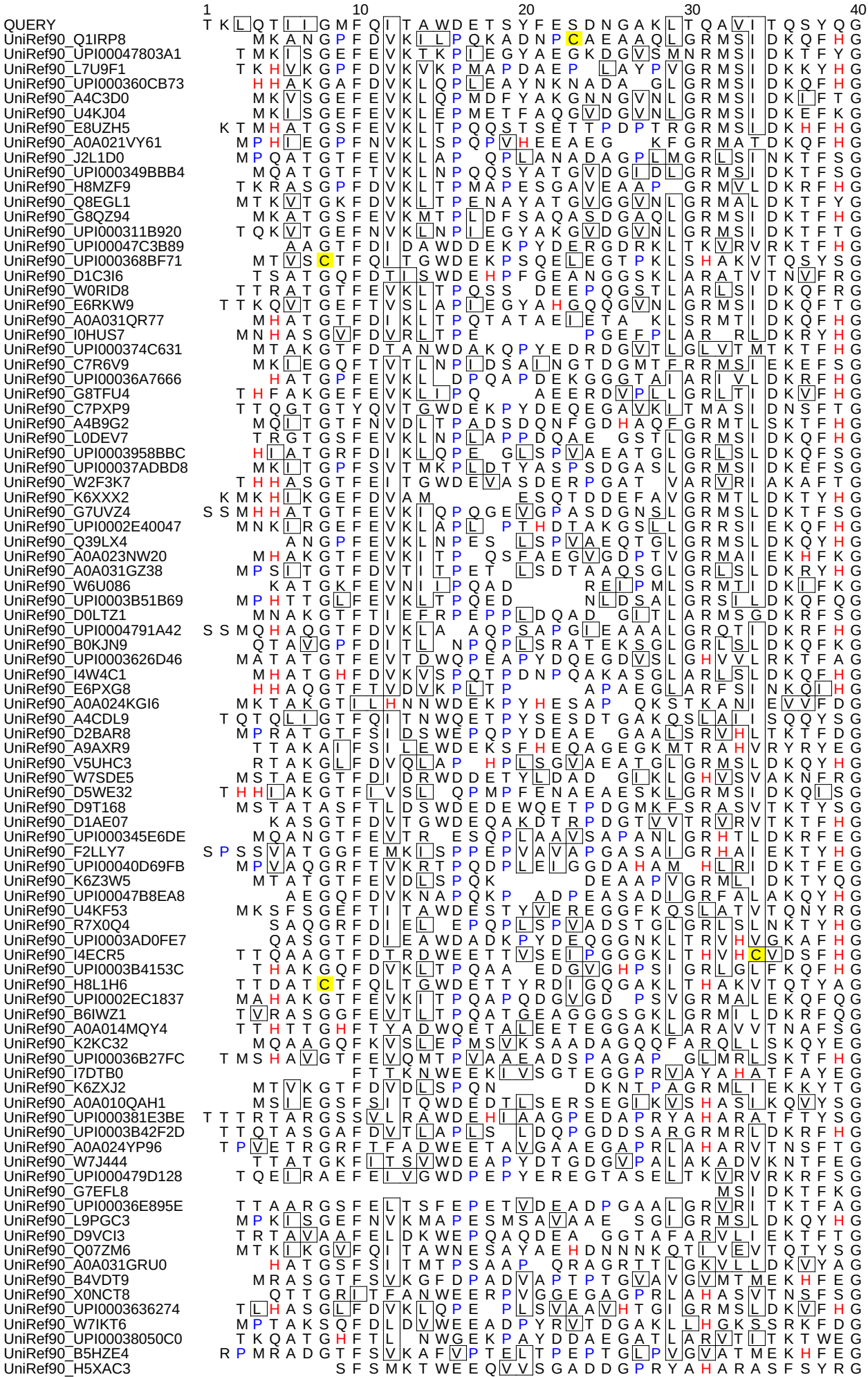
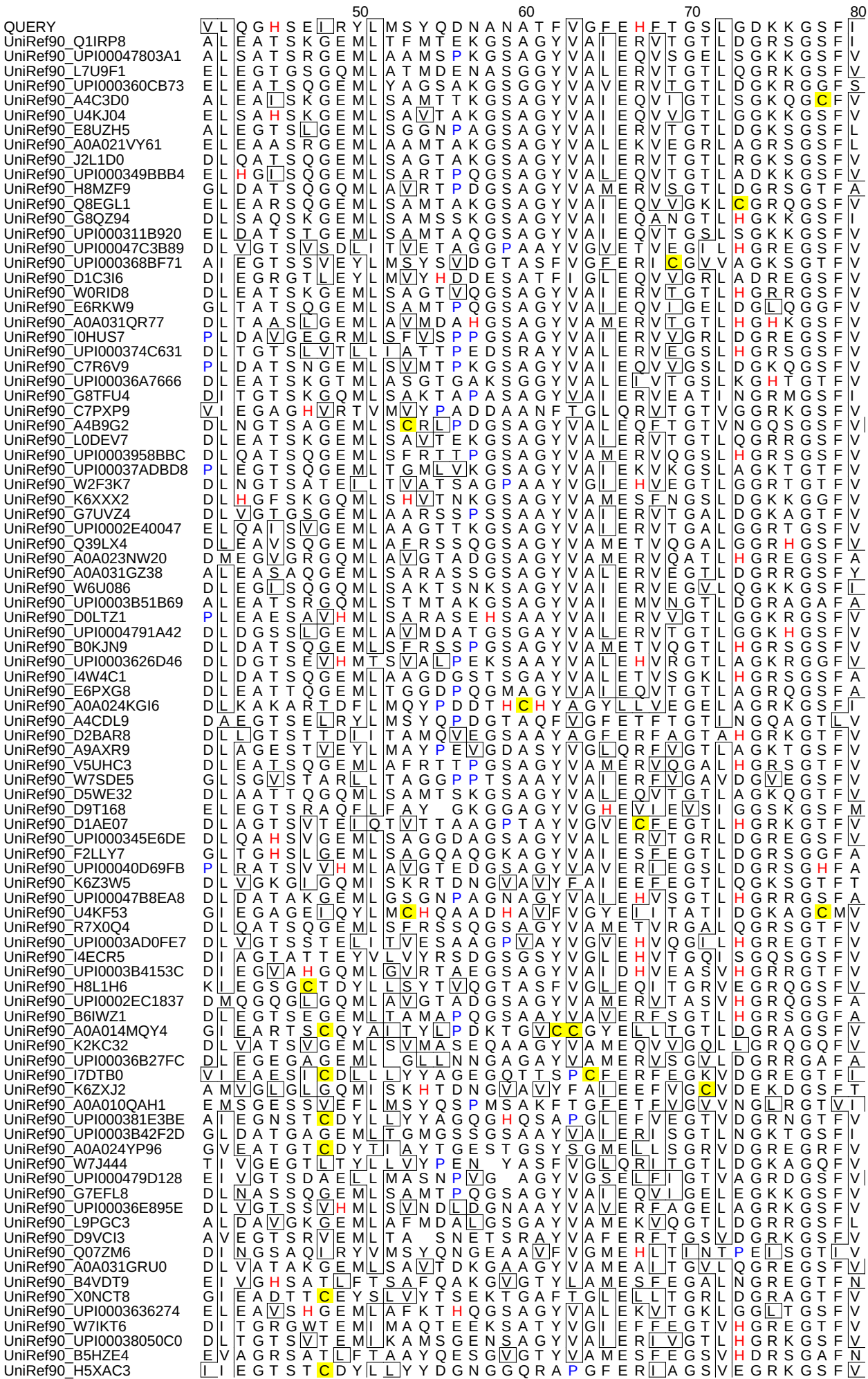
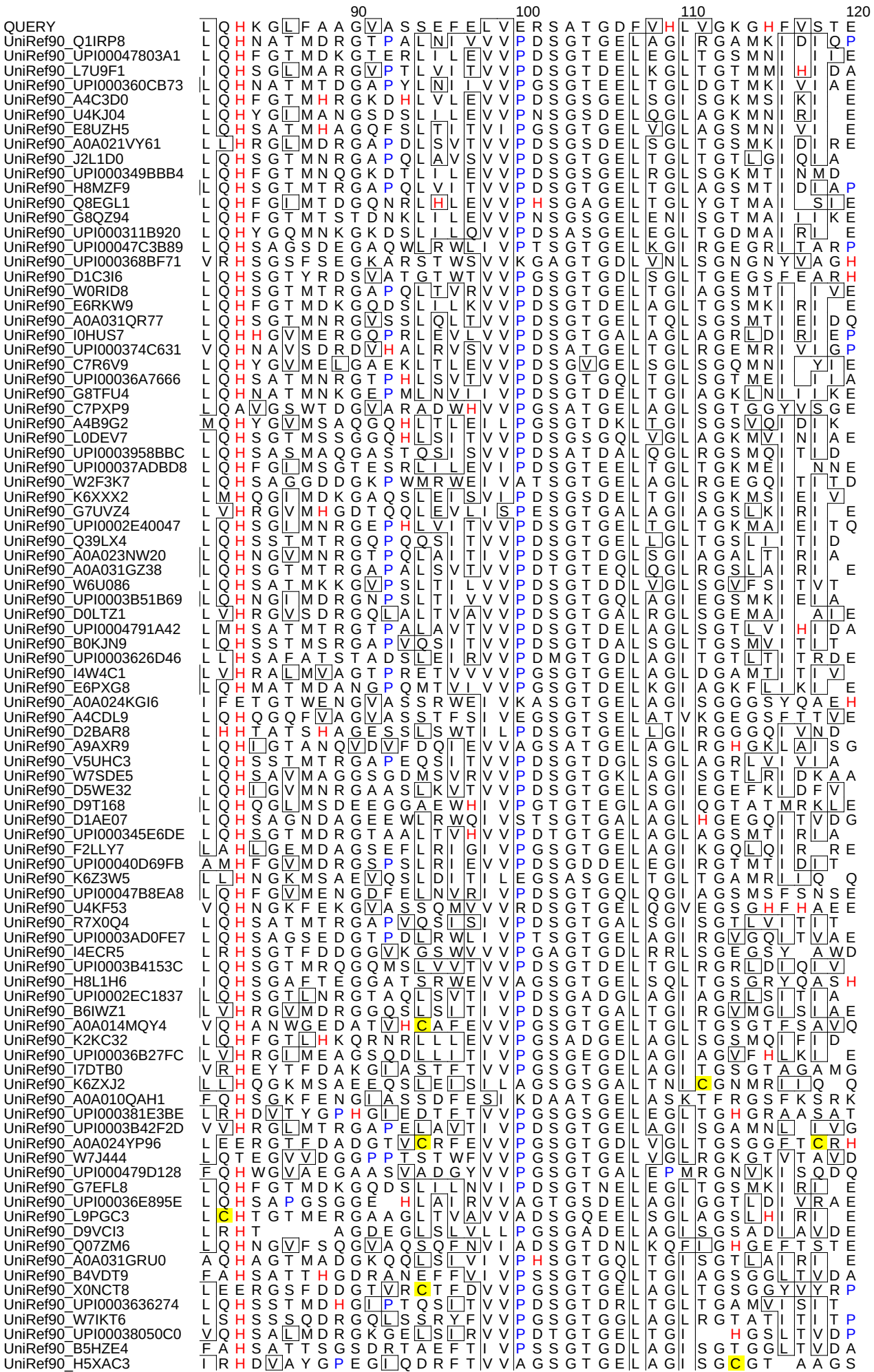
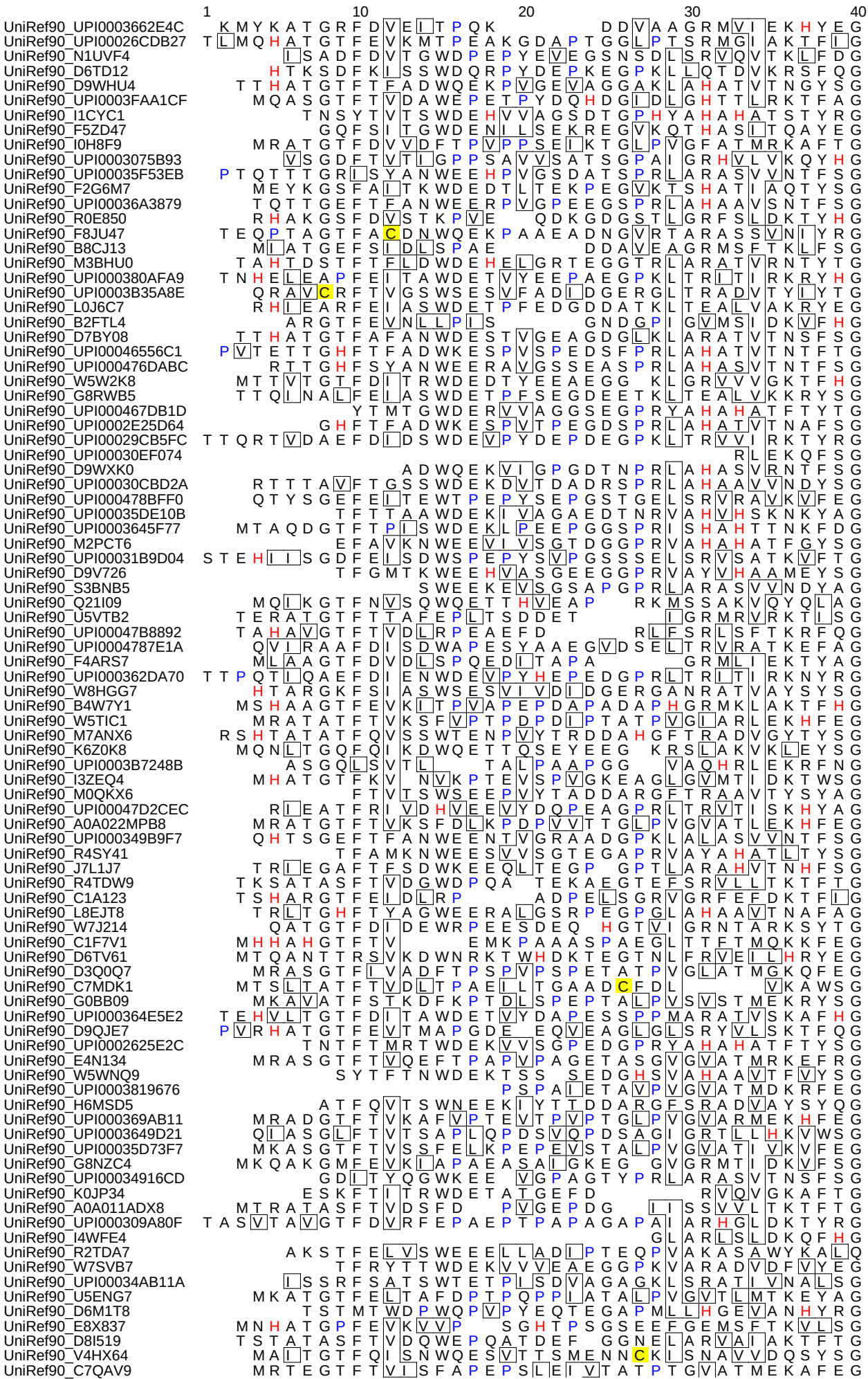
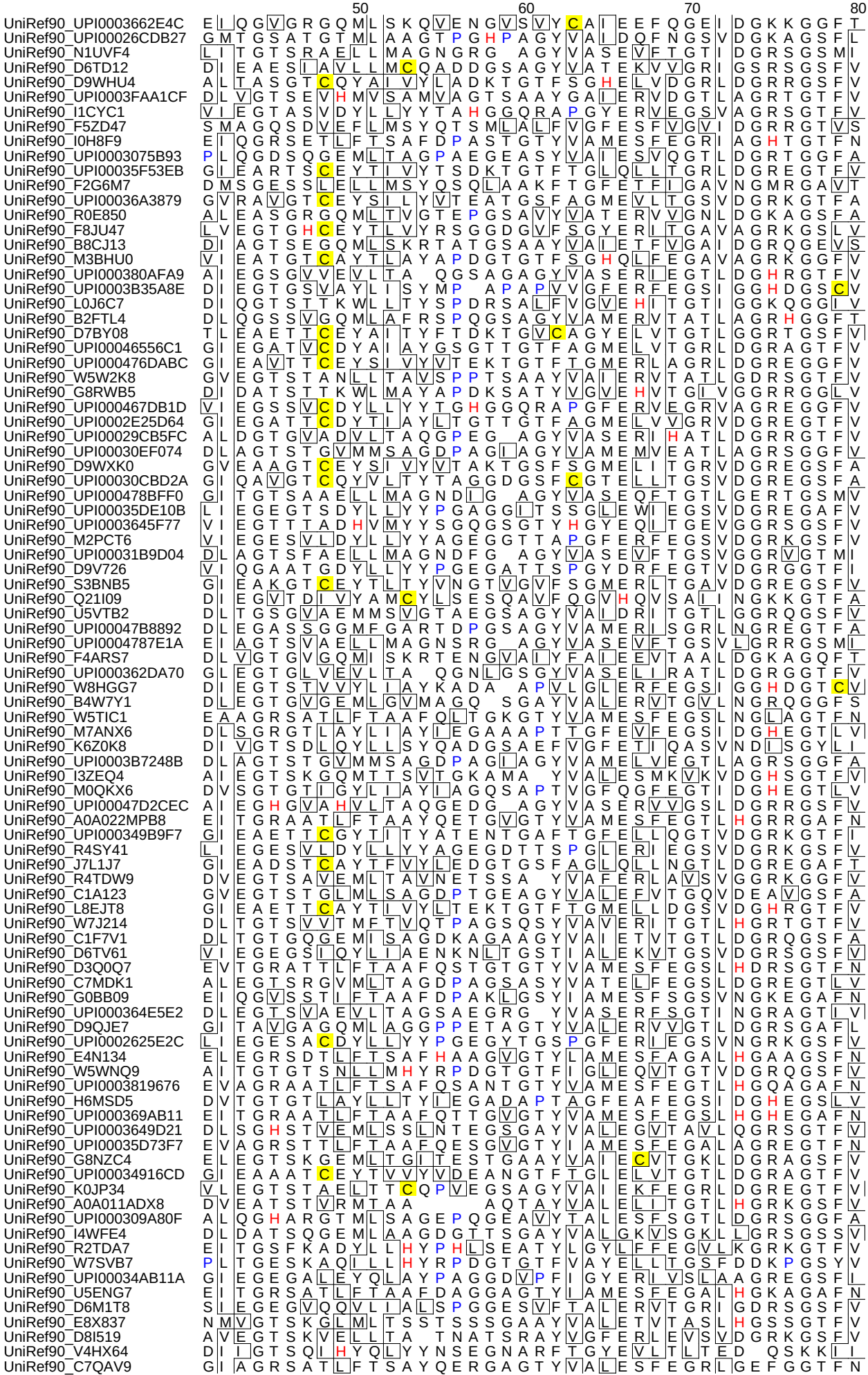

1
10
20
30
40
QUERY
UniRef90_Q1IRP8
UniRef90_UPI00047803A1
UniRef90_L7U9F1
UniRef90_UPI000360CB73
UniRef90_A4C3D0
UniRef90_U4KJ04
UniRef90_E8UZH5
UniRef90_A0A021VY61
UniRef90_J2L1D0
UniRef90_UPI000349BBB4
UniRef90_H8MZF9
UniRef90_Q8EGL1
UniRef90_G8QZ94
UniRef90_UPI000311B920
UniRef90_UPI00047C3B89
UniRef90_UPI000368BF71
UniRef90_D1C3I6
UniRef90_W0RID8
UniRef90_E6RKW9
UniRef90_A0A031QR77
UniRef90_I0HUS7
UniRef90_UPI000374C631
UniRef90_C7R6V9
UniRef90_UPI00036A7666
UniRef90_G8TFU4
UniRef90_C7PXP9
UniRef90_A4B9G2
UniRef90_L0DEV7
UniRef90_UPI0003958BBC
UniRef90_UPI00037ADBD8
UniRef90_W2F3K7
UniRef90_K6XXX2
UniRef90_G7UVZ4
UniRef90_UPI0002E40047
UniRef90_Q39LX4
UniRef90_A0A023NW20
UniRef90_A0A031GZ38
UniRef90_W6U086
UniRef90_UPI0003B51B69
UniRef90_D0LTZ1
UniRef90_UPI0004791A42
UniRef90_B0KJN9
UniRef90_UPI0003626D46
UniRef90_I4W4C1
UniRef90_E6PXG8
UniRef90_A0A024KGI6
UniRef90_A4CDL9
UniRef90_D2BAR8
UniRef90_A9AXR9
UniRef90_V5UHC3
UniRef90_W7SDE5
UniRef90_D5WE32
UniRef90_D9T168
UniRef90_D1AE07
UniRef90_UPI000345E6DE
UniRef90_F2LLY7
UniRef90_UPI00040D69FB
UniRef90_K6Z3W5
UniRef90_UPI00047B8EA8
UniRef90_U4KF53
UniRef90_R7X0Q4
UniRef90_UPI0003AD0FE7
UniRef90_I4ECR5
UniRef90_UPI0003B4153C
UniRef90_H8L1H6
UniRef90_UPI0002EC1837
UniRef90_B6IWZ1
UniRef90_A0A014MQY4
UniRef90_K2KC32
UniRef90_UPI00036B27FC
UniRef90_I7DTB0
UniRef90_K6ZXJ2
UniRef90_A0A010QAH1
UniRef90_UPI000381E3BE
UniRef90_UPI0003B42F2D
UniRef90_A0A024YP96
UniRef90_W7J444
UniRef90_UPI000479D128
UniRef90_G7EFL8
UniRef90_UPI00036E895E
UniRef90_L9PGC3
UniRef90_D9VCI3
UniRef90_Q07ZM6
UniRef90_A0A031GRU0
UniRef90_B4VDT9
UniRef90_X0NCT8
UniRef90_UPI0003636274
UniRef90_W7IKT6
UniRef90_UPI00038050C0
UniRef90_B5HZE4
UniRef90_H5XAC3

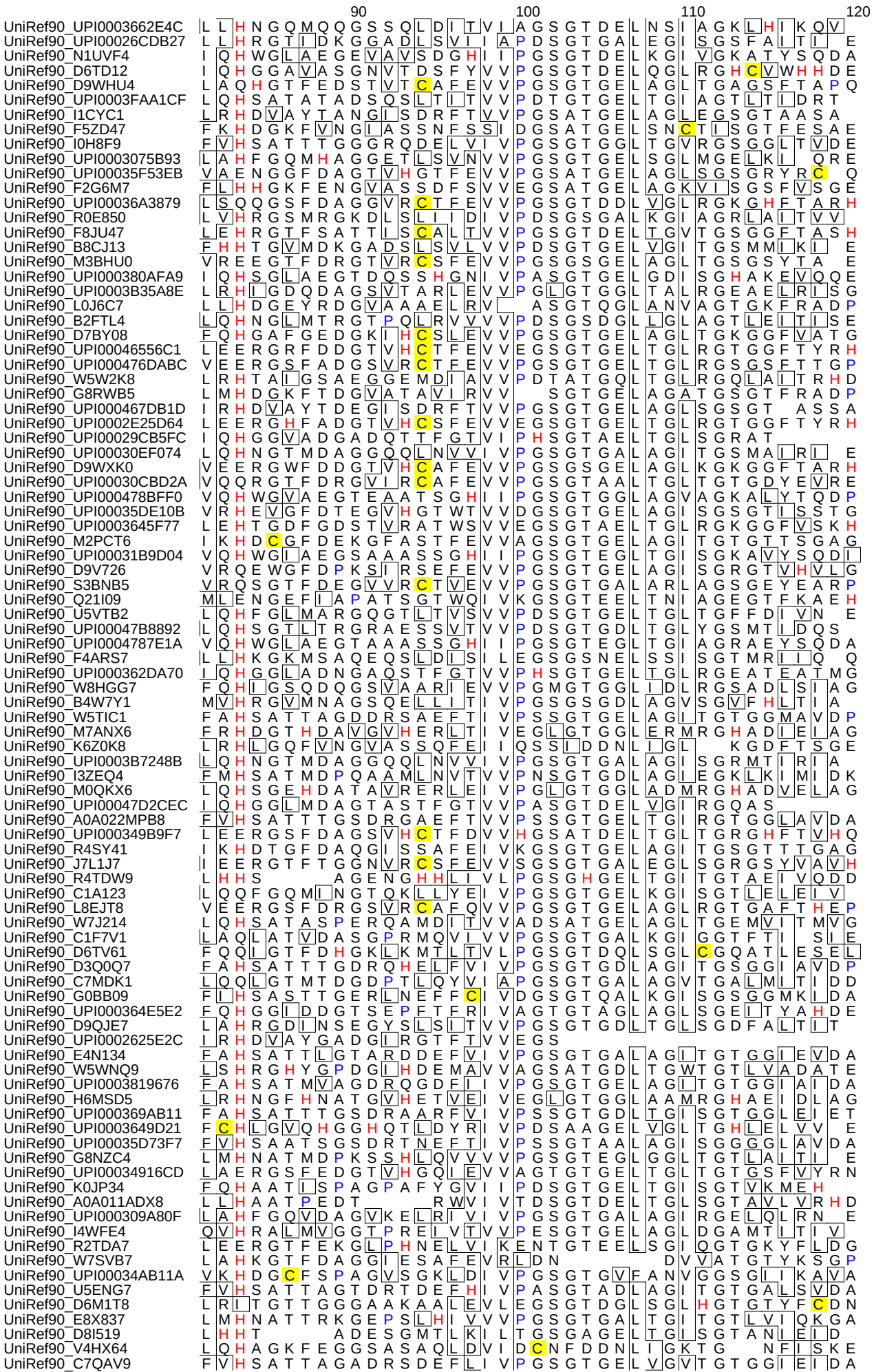

50
60
70
80
QUERY
UniRef90_Q1IRP8
UniRef90_UPI00047803A1
UniRef90_L7U9F1
UniRef90_UPI000360CB73
UniRef90_A4C3D0
UniRef90_U4KJ04
UniRef90_E8UZH5
UniRef90_A0A021VY61
UniRef90_J2L1D0
UniRef90_UPI000349BBB4
UniRef90_H8MZF9
UniRef90_Q8EGL1
UniRef90_G8QZ94
UniRef90_UPI000311B920
UniRef90_UPI00047C3B89
UniRef90_UPI000368BF71
UniRef90_D1C3I6
UniRef90_W0RID8
UniRef90_E6RKW9
UniRef90_A0A031QR77
UniRef90_I0HUS7
UniRef90_UPI000374C631
UniRef90_C7R6V9
UniRef90_UPI00036A7666
UniRef90_G8TFU4
UniRef90_C7PXP9
UniRef90_A4B9G2
UniRef90_L0DEV7
UniRef90_UPI0003958BBC
UniRef90_UPI00037ADBD8
UniRef90_W2F3K7
UniRef90_K6XXX2
UniRef90_G7UVZ4
UniRef90_UPI0002E40047
UniRef90_Q39LX4
UniRef90_A0A023NW20
UniRef90_A0A031GZ38
UniRef90_W6U086
UniRef90_UPI0003B51B69
UniRef90_D0LTZ1
UniRef90_UPI0004791A42
UniRef90_B0KJN9
UniRef90_UPI0003626D46
UniRef90_I4W4C1
UniRef90_E6PXG8
UniRef90_A0A024KGI6
UniRef90_A4CDL9
UniRef90_D2BAR8
UniRef90_A9AXR9
UniRef90_V5UHC3
UniRef90_W7SDE5
UniRef90_D5WE32
UniRef90_D9T168
UniRef90_D1AE07
UniRef90_UPI000345E6DE
UniRef90_F2LLY7
UniRef90_UPI00040D69FB
UniRef90_K6Z3W5
UniRef90_UPI00047B8EA8
UniRef90_U4KF53
UniRef90_R7X0Q4
UniRef90_UPI0003AD0FE7
UniRef90_I4ECR5
UniRef90_UPI0003B4153C
UniRef90_H8L1H6
UniRef90_UPI0002EC1837
UniRef90_B6IWZ1
UniRef90_A0A014MQY4
UniRef90_K2KC32
UniRef90_UPI00036B27FC
UniRef90_I7DTB0
UniRef90_K6ZXJ2
UniRef90_A0A010QAH1
UniRef90_UPI000381E3BE
UniRef90_UPI0003B42F2D
UniRef90_A0A024YP96
UniRef90_W7J444
UniRef90_UPI000479D128
UniRef90_G7EFL8
UniRef90_UPI00036E895E
UniRef90_L9PGC3
UniRef90_D9VCI3
UniRef90_Q07ZM6
UniRef90_A0A031GRU0
UniRef90_B4VDT9
UniRef90_X0NCT8
UniRef90_UPI0003636274
UniRef90_W7IKT6
UniRef90_UPI00038050C0
UniRef90_B5HZE4
UniRef90_H5XAC3


90
100
110
120
QUERY
UniRef90_Q1IRP8
UniRef90_UPI00047803A1
UniRef90_L7U9F1
UniRef90_UPI000360CB73
UniRef90_A4C3D0
UniRef90_U4KJ04
UniRef90_E8UZH5
UniRef90_A0A021VY61
UniRef90_J2L1D0
UniRef90_UPI000349BBB4
UniRef90_H8MZF9
UniRef90_Q8EGL1
UniRef90_G8QZ94
UniRef90_UPI000311B920
UniRef90_UPI00047C3B89
UniRef90_UPI000368BF71
UniRef90_D1C3I6
UniRef90_W0RID8
UniRef90_E6RKW9
UniRef90_A0A031QR77
UniRef90_I0HUS7
UniRef90_UPI000374C631
UniRef90_C7R6V9
UniRef90_UPI00036A7666
UniRef90_G8TFU4
UniRef90_C7PXP9
UniRef90_A4B9G2
UniRef90_L0DEV7
UniRef90_UPI0003958BBC
UniRef90_UPI00037ADBD8
UniRef90_W2F3K7
UniRef90_K6XXX2
UniRef90_G7UVZ4
UniRef90_UPI0002E40047
UniRef90_Q39LX4
UniRef90_A0A023NW20
UniRef90_A0A031GZ38
UniRef90_W6U086
UniRef90_UPI0003B51B69
UniRef90_D0LTZ1
UniRef90_UPI0004791A42
UniRef90_B0KJN9
UniRef90_UPI0003626D46
UniRef90_I4W4C1
UniRef90_E6PXG8
UniRef90_A0A024KGI6
UniRef90_A4CDL9
UniRef90_D2BAR8
UniRef90_A9AXR9
UniRef90_V5UHC3
UniRef90_W7SDE5
UniRef90_D5WE32
UniRef90_D9T168
UniRef90_D1AE07
UniRef90_UPI000345E6DE
UniRef90_F2LLY7
UniRef90_UPI00040D69FB
UniRef90_K6Z3W5
UniRef90_UPI00047B8EA8
UniRef90_U4KF53
UniRef90_R7X0Q4
UniRef90_UPI0003AD0FE7
UniRef90_I4ECR5
UniRef90_UPI0003B4153C
UniRef90_H8L1H6
UniRef90_UPI0002EC1837
UniRef90_B6IWZ1
UniRef90_A0A014MQY4
UniRef90_K2KC32
UniRef90_UPI00036B27FC
UniRef90_I7DTB0
UniRef90_K6ZXJ2
UniRef90_A0A010QAH1
UniRef90_UPI000381E3BE
UniRef90_UPI0003B42F2D
UniRef90_A0A024YP96
UniRef90_W7J444
UniRef90_UPI000479D128
UniRef90_G7EFL8
UniRef90_UPI00036E895E
UniRef90_L9PGC3
UniRef90_D9VCI3
UniRef90_Q07ZM6
UniRef90_A0A031GRU0
UniRef90_B4VDT9
UniRef90_X0NCT8
UniRef90_UPI0003636274
UniRef90_W7IKT6
UniRef90_UPI00038050C0
UniRef90_B5HZE4
UniRef90_H5XAC3

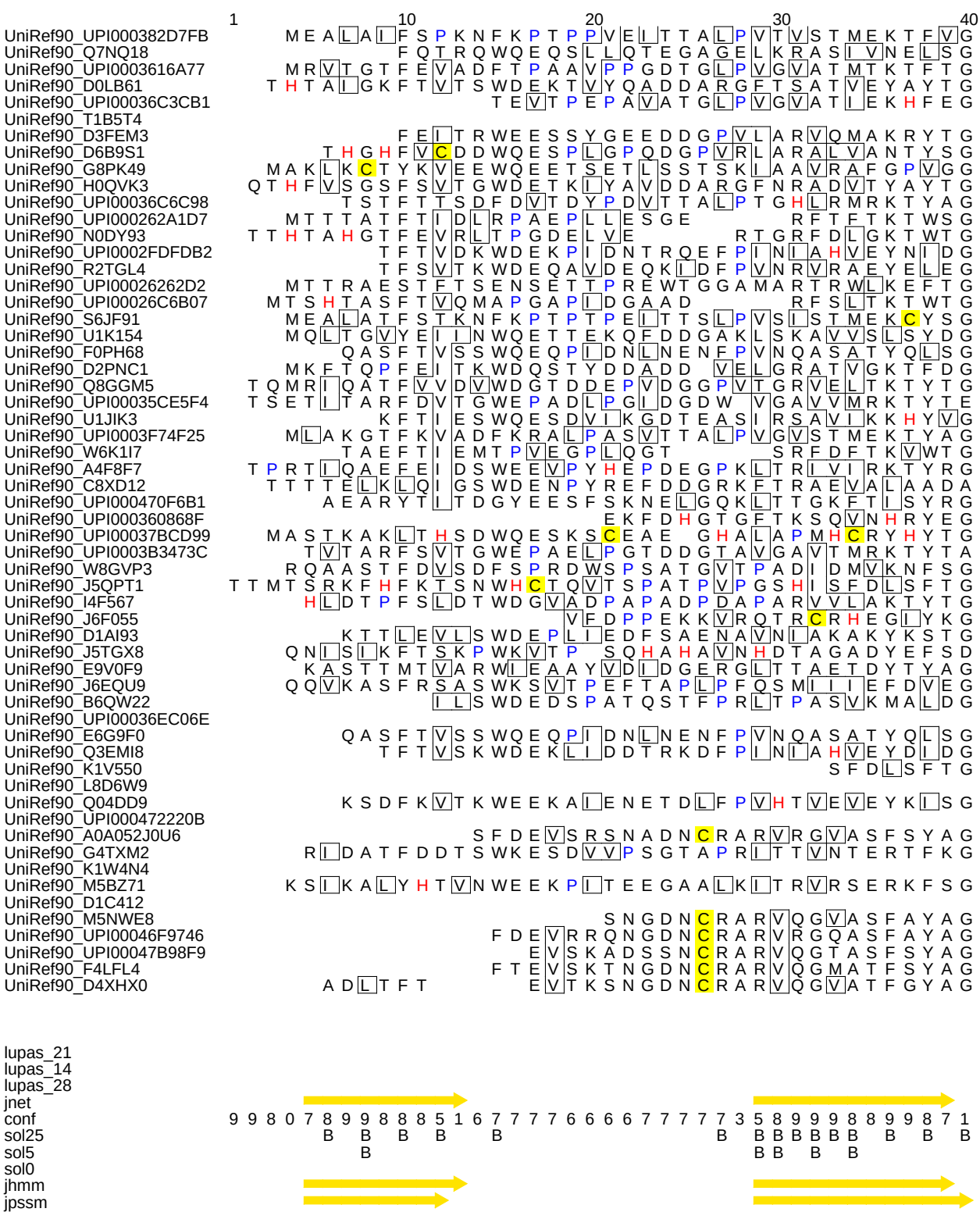
```
                                                  130
QUERY                          N G Q A N Y Q I T L Q D S
UniRef90_Q1IRP8                S G K H F Y D F D Y E
UniRef90_UPI00047803A1         D G K H F Y E F D Y Q L
UniRef90_L7U9F1                Q G K H T Y E F D Y
UniRef90_UPI000360CB73         G G K H Y Y E F D Y E L A
UniRef90_A4C3D0                N G Q H L Y E L D Y E L S
UniRef90_U4KJ04                E G Q H Y Y D F E Y D F
UniRef90_E8UZH5                G G K H S Y T F E Y
UniRef90_A0A021VY61            G G A H F Y S F D Y E L
UniRef90_J2L1D0                D G R H S Y V M E Y E
UniRef90_UPI000349BBB4         N G A H H Y V F D Y Q L
UniRef90_H8MZF9                G G K H S Y D F Q Y
UniRef90_Q8EGL1                N G Q H F Y E F S F
UniRef90_G8QZ94                  G K H F Y E F D Y Q L
UniRef90_UPI000311B920         Q G I H F Y D F E Y Q L
UniRef90_UPI00047C3B89         D G S H E W D L D Y
UniRef90_UPI000368BF71         G E P A Q V S F E Y
UniRef90_D1C3I6                G Q P A T Y T L R L
UniRef90_W0RID8                P G R H A Y E M E Y
UniRef90_E6RKW9                Q G I H H Y D F E Y
UniRef90_A0A031QR77            D   T H R Y T M D Y
UniRef90_I0HUS7                D G R H V Y A L D Y
UniRef90_UPI000374C631         D G G H S Y T F D Y
UniRef90_C7R6V9                D G N H F Y E F E Y Q L
UniRef90_UPI00036A7666         D G K H S Y D F E Y
UniRef90_G8TFU4                  K K H F Y E M E Y
UniRef90_C7PXP9                N G A C D Y T L D Y D F S
UniRef90_A4B9G2                D G T H H Y T L D Y E L
UniRef90_L0DEV7                  G K H T Y D F E F
UniRef90_UPI0003958BBC         N G Q H S Y R F V Y Q L
UniRef90_UPI00037ADBD8         N G Q H S Y V F D Y E
UniRef90_W2F3K7                D G   H H Y T L D Y D L S
UniRef90_K6XXX2                D G K H F Y L F D Y
UniRef90_G7UVZ4                G G K H F Y D L D Y
UniRef90_UPI0002E40047           G R H F Y E F E Y D L
UniRef90_Q39LX4                N G Q H S Y R F D Y
UniRef90_A0A023NW20            D G A H H Y E L A Y
UniRef90_A0A031GZ38            D G K H Y Y D F T Y
UniRef90_W6U086                D G K H F Y D F N Y
UniRef90_UPI0003B51B69         D G K H T Y S F E Y
UniRef90_D0LTZ1                D G A H H Y D F E Y
UniRef90_UPI0004791A42         K G G H S Y T F D Y
UniRef90_B0KJN9                D G H H S Y K F E Y
UniRef90_UPI0003626D46         S G A H T W T L D Y D L A
UniRef90_I4W4C1                D G R H D Y D F S Y
UniRef90_E6PXG8                N G K H L Y E L D Y
UniRef90_A0A024KGI6            D K T V H Y Q I D Y
UniRef90_A4CDL9                H S Q A N Y Q I S
UniRef90_D2BAR8                D G A H S F H L D Y E L
UniRef90_A9AXR9                H A E   G Y P F A I E Y
UniRef90_V5UHC3                D G Q H S Y E F R Y
UniRef90_W7SDE5                D G T H S Y R L E Y E V
UniRef90_D5WE32                D G A H S Y E F A Y R L
UniRef90_D9T168                D G S H T F T L N Y E L
UniRef90_D1AE07                D G R H F Y A L D Y E L
UniRef90_UPI000345E6DE         S G R H E Y T F D Y
UniRef90_F2LLY7                A G R H D Y T L T Y
UniRef90_UPI00040D69FB         G G E H F Y T F D Y
UniRef90_K6Z3W5                D G K H S Y E L D F E L
UniRef90_UPI00047B8EA8           G T H S Y R M N Y
UniRef90_U4KF53                S G R A L Y Q F T L K F T
UniRef90_R7X0Q4                D G Q H S Y A F D Y
UniRef90_UPI0003AD0FE7         D G S H A W A L E Y
UniRef90_I4ECR5                G K A T G Y T L D Y
UniRef90_UPI0003B4153C         D G K H Y Y D F A Y E L
UniRef90_H8L1H6                G Q P A E V V F D
UniRef90_UPI0002EC1837         G G V H A Y D L E Y
UniRef90_B6IWZ1                  G R H S Y T L D Y
UniRef90_A0A014MQY4            G S E I P Y S F D Y
UniRef90_K2KC32                N G Q H R Y E F D F
UniRef90_UPI00036B27FC         G G V H R Y D L E Y R L
UniRef90_I7DTB0                E D K V A Y T F E Y
UniRef90_K6ZXJ2                D G K H H Y E L D Y Q L S
UniRef90_A0A010QAH1            S G K A D Y T L E A D D
UniRef90_UPI000381E3BE         E   T V P Y T F D Y R L T
UniRef90_UPI0003B42F2D         N G R H D Y T I D Y
UniRef90_A0A024YP96            G G S V E Y A F T Y
UniRef90_W7J444                A T T A E Y T L D Y D F T
UniRef90_UPI000479D128         D G Q H Y I T L N
UniRef90_G7EFL8                N G V H H Y D F Q Y
UniRef90_UPI00036E895E         D G G H T Y V L N Y T L T
UniRef90_L9PGC3                G G K H Y Y D F D Y T L A
UniRef90_D9VCI3                A G K H T F T L V Y E L
UniRef90_Q07ZM6                N G Q A D Y L I T L H H
UniRef90_A0A031GRU0            N G Q H F Y D I D Y
UniRef90_B4VDT9                D G T H R V W F D Y E L S
UniRef90_X0NCT8                G E P S F Y D F T Y Q V
UniRef90_UPI0003636274         D G Q H S Y Q F D Y
UniRef90_W7IKT6                D K E H F F E L E Y E L
UniRef90_UPI00038050C0         S A G H K W V M D Y
UniRef90_B5HZE4                D G T H R I W L D Y E L
UniRef90_H5XAC3                Q E T V A Y T F D Y
```

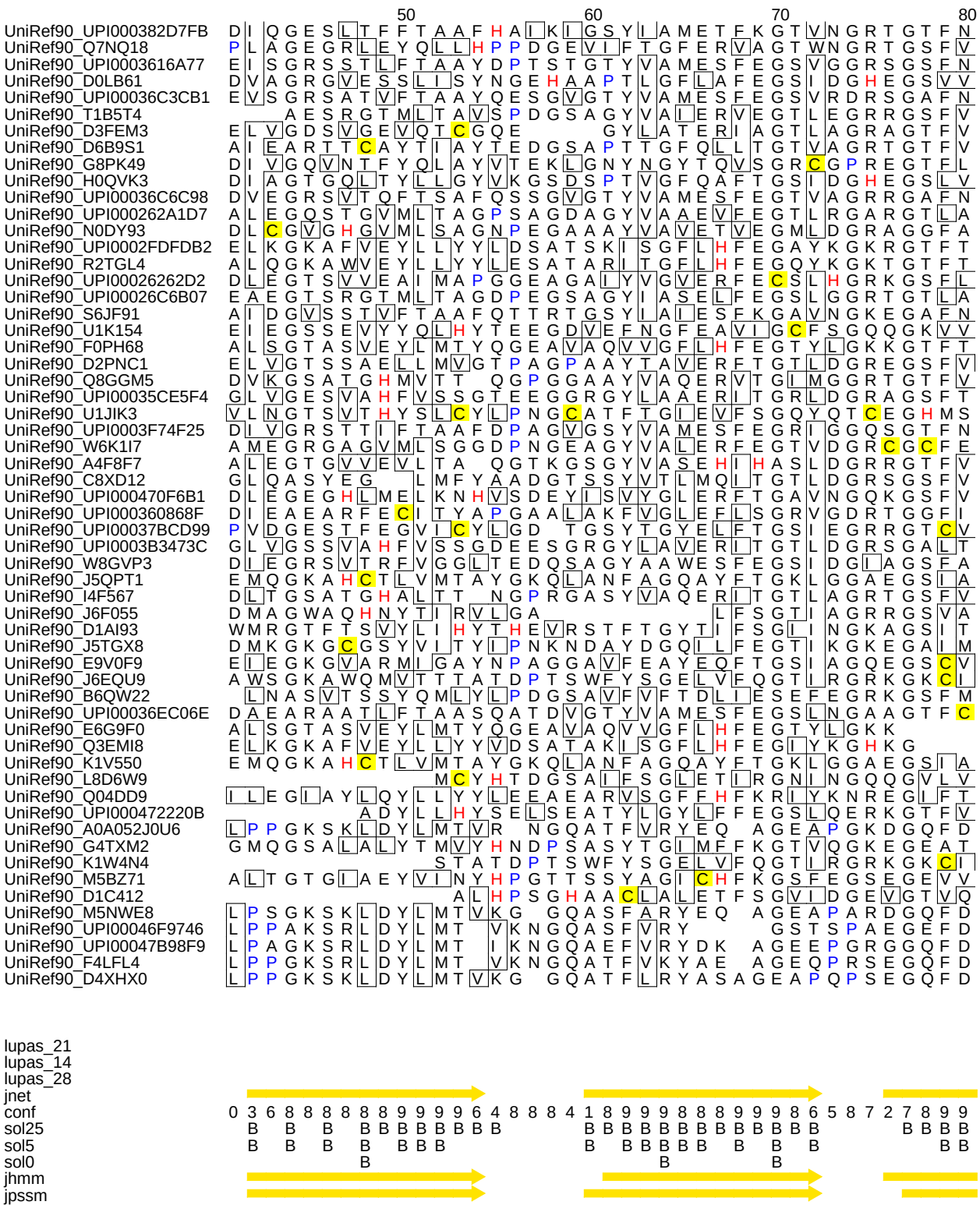

1
10
20
30
40
UniRef90_UPI0003662E4C
UniRef90_UPI00026CDB27
UniRef90_N1UVF4
UniRef90_D6TD12
UniRef90_D9WHU4
UniRef90_UPI0003FAA1CF
UniRef90_I1CYC1
UniRef90_F5ZD47
UniRef90_I0H8F9
UniRef90_UPI0003075B93
UniRef90_UPI00035F53EB
UniRef90_F2G6M7
UniRef90_UPI00036A3879
UniRef90_R0E850
UniRef90_F8JU47
UniRef90_B8CJ13
UniRef90_M3BHU0
UniRef90_UPI000380AFA9
UniRef90_UPI0003B35A8E
UniRef90_L0J6C7
UniRef90_B2FTL4
UniRef90_D7BY08
UniRef90_UPI00046556C1
UniRef90_UPI000476DABC
UniRef90_W5W2K8
UniRef90_G8RWB5
UniRef90_UPI000467DB1D
UniRef90_UPI0002E25D64
UniRef90_UPI00029CB5FC
UniRef90_UPI00030EF074
UniRef90_D9WXK0
UniRef90_UPI00030CBD2A
UniRef90_UPI000478BFF0
UniRef90_UPI00035DE10B
UniRef90_UPI0003645F77
UniRef90_M2PCT6
UniRef90_UPI00031B9D04
UniRef90_D9V726
UniRef90_S3BNB5
UniRef90_Q21I09
UniRef90_U5VTB2
UniRef90_UPI00047B8892
UniRef90_UPI0004787E1A
UniRef90_F4ARS7
UniRef90_UPI000362DA70
UniRef90_W8HGG7
UniRef90_B4W7Y1
UniRef90_W5TIC1
UniRef90_M7ANX6
UniRef90_K6Z0K8
UniRef90_UPI0003B7248B
UniRef90_I3ZEQ4
UniRef90_M0QKX6
UniRef90_UPI00047D2CEC
UniRef90_A0A022MPB8
UniRef90_UPI000349B9F7
UniRef90_R4SY41
UniRef90_J7L1J7
UniRef90_R4TDW9
UniRef90_C1A123
UniRef90_L8EJT8
UniRef90_W7J214
UniRef90_C1F7V1
UniRef90_D6TV61
UniRef90_D3Q0Q7
UniRef90_C7MDK1
UniRef90_G0BB09
UniRef90_UPI000364E5E2
UniRef90_D9QJE7
UniRef90_UPI0002625E2C
UniRef90_E4N134
UniRef90_W5WNQ9
UniRef90_UPI0003819676
UniRef90_H6MSD5
UniRef90_UPI000369AB11
UniRef90_UPI0003649D21
UniRef90_UPI00035D73F7
UniRef90_G8NZC4
UniRef90_UPI00034916CD
UniRef90_K0JP34
UniRef90_A0A011ADX8
UniRef90_UPI000309A80F
UniRef90_I4WFE4
UniRef90_R2TDA7
UniRef90_W7SVB7
UniRef90_UPI00034AB11A
UniRef90_U5ENG7
UniRef90_D6M1T8
UniRef90_E8X837
UniRef90_D8I519
UniRef90_V4HX64
UniRef90_C7QAV9

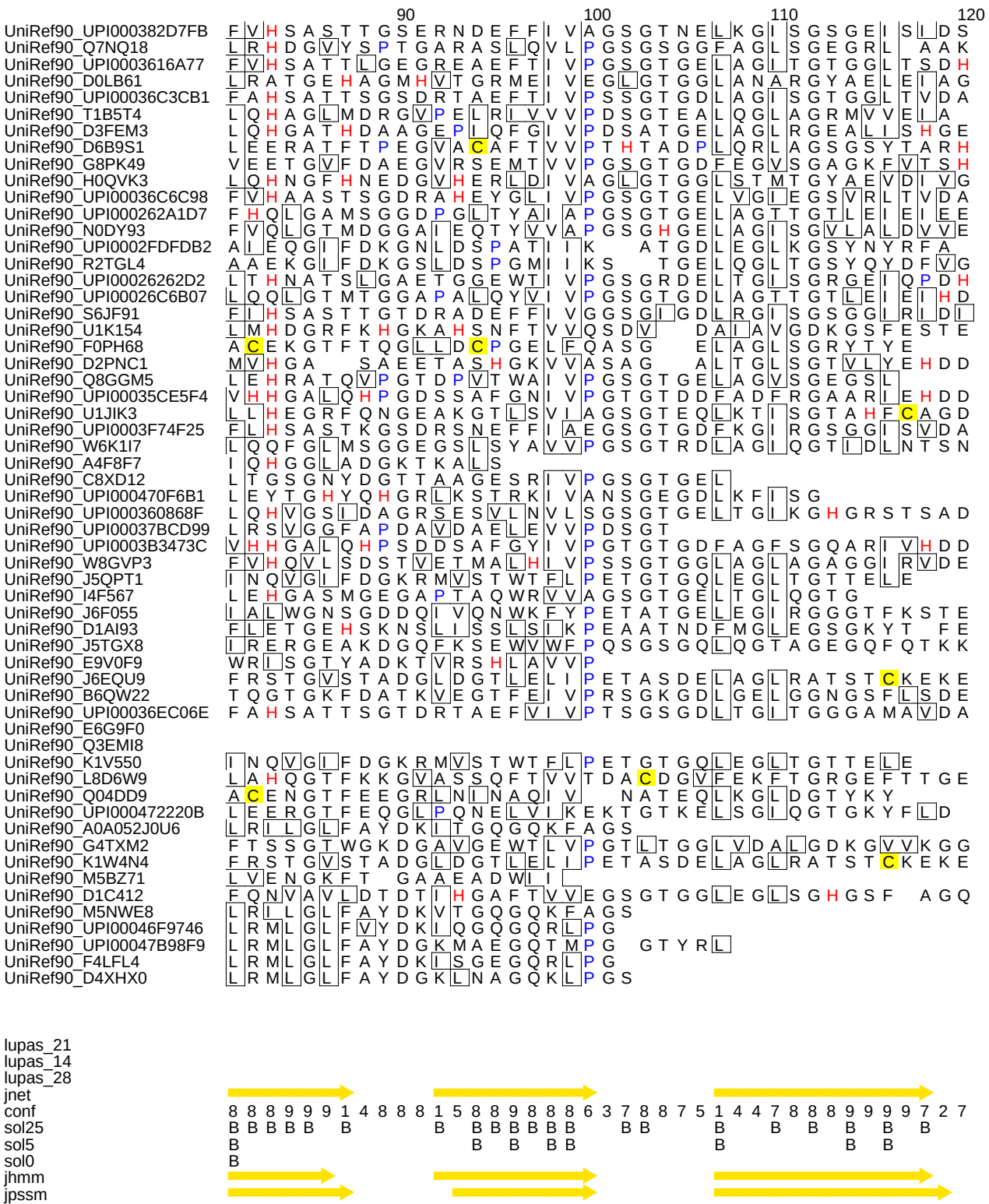

50
60
70
80
UniRef90_UPI0003662E4C
UniRef90_UPI00026CDB27
UniRef90_N1UVF4
UniRef90_D6TD12
UniRef90_D9WHU4
UniRef90_UPI0003FAA1CF
UniRef90_I1CYC1
UniRef90_F5ZD47
UniRef90_I0H8F9
UniRef90_UPI0003075B93
UniRef90_UPI00035F53EB
UniRef90_F2G6M7
UniRef90_UPI00036A3879
UniRef90_R0E850
UniRef90_F8JU47
UniRef90_B8CJ13
UniRef90_M3BHU0
UniRef90_UPI000380AFA9
UniRef90_UPI0003B35A8E
UniRef90_L0J6C7
UniRef90_B2FTL4
UniRef90_D7BY08
UniRef90_UPI00046556C1
UniRef90_UPI000476DABC
UniRef90_W5W2K8
UniRef90_G8RWB5
UniRef90_UPI000467DB1D
UniRef90_UPI0002E25D64
UniRef90_UPI00029CB5FC
UniRef90_UPI00030EF074
UniRef90_D9WXK0
UniRef90_UPI00030CBD2A
UniRef90_UPI000478BFF0
UniRef90_UPI00035DE10B
UniRef90_UPI0003645F77
UniRef90_M2PCT6
UniRef90_UPI00031B9D04
UniRef90_D9V726
UniRef90_S3BNB5
UniRef90_Q21I09
UniRef90_U5VTB2
UniRef90_UPI00047B8892
UniRef90_UPI0004787E1A
UniRef90_F4ARS7
UniRef90_UPI000362DA70
UniRef90_W8HGG7
UniRef90_B4W7Y1
UniRef90_W5TIC1
UniRef90_M7ANX6
UniRef90_K6Z0K8
UniRef90_UPI0003B7248B
UniRef90_I3ZEQ4
UniRef90_M0QKX6
UniRef90_UPI00047D2CEC
UniRef90_A0A022MPB8
UniRef90_UPI0003349B9F7
UniRef90_R4SY41
UniRef90_J7L1J7
UniRef90_R4TDW9
UniRef90_C1A123
UniRef90_L8EJT8
UniRef90_W7J214
UniRef90_C1F7V1
UniRef90_D6TV61
UniRef90_D3Q0Q7
UniRef90_C7MDK1
UniRef90_G0BB09
UniRef90_UPI000364E5E2
UniRef90_D9QJE7
UniRef90_UPI0002625E2C
UniRef90_E4N134
UniRef90_W5WNQ9
UniRef90_UPI0003819676
UniRef90_H6MSD5
UniRef90_UPI000369AB11
UniRef90_UPI0003649D21
UniRef90_UPI00035D73F7
UniRef90_G8NZC4
UniRef90_UPI00034916CD
UniRef90_K0JP34
UniRef90_A0A011ADX8
UniRef90_UPI000309A80F
UniRef90_I4WFE4
UniRef90_R2TDA7
UniRef90_W7SVB7
UniRef90_UPI00034AB11A
UniRef90_U5ENG7
UniRef90_D6M1T8
UniRef90_E8X837
UniRef90_D8I519
UniRef90_V4HX64
UniRef90_C7QAV9


90
100
110
120
UniRef90_UPI0003662E4C
UniRef90_UPI00026CDB27
UniRef90_N1UVF4
UniRef90_D6TD12
UniRef90_D9WHU4
UniRef90_UPI0003FAA1CF
UniRef90_I1CYC1
UniRef90_F5ZD47
UniRef90_I0H8F9
UniRef90_UPI0003075B93
UniRef90_UPI00035F53EB
UniRef90_F2G6M7
UniRef90_UPI00036A3879
UniRef90_R0E850
UniRef90_F8JU47
UniRef90_B8CJ13
UniRef90_M3BHU0
UniRef90_UPI000380AFA9
UniRef90_UPI0003B35A8E
UniRef90_L0J6C7
UniRef90_B2FTL4
UniRef90_D7BY08
UniRef90_UPI00046556C1
UniRef90_UPI000476DABC
UniRef90_W5W2K8
UniRef90_G8RWB5
UniRef90_UPI000467DB1D
UniRef90_UPI0002E25D64
UniRef90_UPI00029CB5FC
UniRef90_UPI00030EF074
UniRef90_D9WXK0
UniRef90_UPI00030CBD2A
UniRef90_UPI000478BFF0
UniRef90_UPI00035DE10B
UniRef90_UPI0003645F77
UniRef90_M2PCT6
UniRef90_UPI00031B9D04
UniRef90_D9V726
UniRef90_S3BNB5
UniRef90_Q21I09
UniRef90_U5VTB2
UniRef90_UPI00047B8892
UniRef90_UPI0004787E1A
UniRef90_F4ARS7
UniRef90_UPI000362DA70
UniRef90_W8HGG7
UniRef90_B4W7Y1
UniRef90_W5TIC1
UniRef90_M7ANX6
UniRef90_K6Z0K8
UniRef90_UPI0003B7248B
UniRef90_I3ZEQ4
UniRef90_M0QKX6
UniRef90_UPI00047D2CEC
UniRef90_A0A022MPB8
UniRef90_UPI000349B9F7
UniRef90_R4SY41
UniRef90_J7L1J7
UniRef90_R4TDW9
UniRef90_C1A123
UniRef90_L8EJT8
UniRef90_W7J214
UniRef90_C1F7V1
UniRef90_D6TV61
UniRef90_D3Q0Q7
UniRef90_C7MDK1
UniRef90_G0BB09
UniRef90_UPI000364E5E2
UniRef90_D9QJE7
UniRef90_UPI0002625E2C
UniRef90_E4N134
UniRef90_W5WNQ9
UniRef90_UPI0003819676
UniRef90_H6MSD5
UniRef90_UPI000369AB11
UniRef90_UPI0003649D21
UniRef90_UPI00035D73F7
UniRef90_G8NZC4
UniRef90_UPI00034916CD
UniRef90_K0JP34
UniRef90_A0A011ADX8
UniRef90_UPI000309A80F
UniRef90_I4WFE4
UniRef90_R2TDA7
UniRef90_W7SVB7
UniRef90_UPI00034AB11A
UniRef90_U5ENG7
UniRef90_D6M1T8
UniRef90_E8X837
UniRef90_D8I519
UniRef90_V4HX64
UniRef90_C7QAV9

```
                                                
```


1
10
20
30
40
UniRef90_UPI000382D7FB
UniRef90_Q7NQ18
UniRef90_UPI0003616A77
UniRef90_D0LB61
UniRef90_UPI00036C3CB1
UniRef90_T1B5T4
UniRef90_D3FEM3
UniRef90_D6B9S1
UniRef90_G8PK49
UniRef90_H0QVK3
UniRef90_UPI00036C6C98
UniRef90_UPI000262A1D7
UniRef90_N0DY93
UniRef90_UPI0002FDFDB2
UniRef90_R2TGL4
UniRef90_UPI00026262D2
UniRef90_UPI00026C6B07
UniRef90_S6JF91
UniRef90_U1K154
UniRef90_F0PH68
UniRef90_D2PNC1
UniRef90_Q8GGM5
UniRef90_UPI00035CE5F4
UniRef90_U1JIK3
UniRef90_UPI0003F74F25
UniRef90_W6K1I7
UniRef90_A4F8F7
UniRef90_C8XD12
UniRef90_UPI000470F6B1
UniRef90_UPI000360868F
UniRef90_UPI00037BCD99
UniRef90_UPI0003B3473C
UniRef90_W8GVP3
UniRef90_J5QPT1
UniRef90_I4F567
UniRef90_J6F055
UniRef90_D1AI93
UniRef90_J5TGX8
UniRef90_E9V0F9
UniRef90_J6EQU9
UniRef90_B6QW22
UniRef90_UPI00036EC06E
UniRef90_E6G9F0
UniRef90_Q3EMI8
UniRef90_K1V550
UniRef90_L8D6W9
UniRef90_Q04DD9
UniRef90_UPI000472220B
UniRef90_A0A052J0U6
UniRef90_G4TXM2
UniRef90_K1W4N4
UniRef90_M5BZ71
UniRef90_D1C412
UniRef90_M5NWE8
UniRef90_UPI00046F9746
UniRef90_UPI00047B98F9
UniRef90_F4LFL4
UniRef90_D4XHX0
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


50
60
70
80
UniRef90_UPI000382D7FB
UniRef90_Q7NQ18
UniRef90_UPI0003616A77
UniRef90_D0LB61
UniRef90_UPI00036C3CB1
UniRef90_T1B5T4
UniRef90_D3FEM3
UniRef90_D6B9S1
UniRef90_G8PK49
UniRef90_H0QVK3
UniRef90_UPI00036C6C98
UniRef90_UPI000262A1D7
UniRef90_N0DY93
UniRef90_UPI0002FDFDB2
UniRef90_R2TGL4
UniRef90_UPI00026262D2
UniRef90_UPI00026C6B07
UniRef90_S6JF91
UniRef90_U1K154
UniRef90_F0PH68
UniRef90_D2PNC1
UniRef90_Q8GGM5
UniRef90_UPI00035CE5F4
UniRef90_U1JIK3
UniRef90_UPI0003F74F25
UniRef90_W6K1I7
UniRef90_A4F8F7
UniRef90_C8XD12
UniRef90_UPI000470F6B1
UniRef90_UPI000360868F
UniRef90_UPI00037BCD99
UniRef90_UPI0003B3473C
UniRef90_W8GVP3
UniRef90_J5QPT1
UniRef90_I4F567
UniRef90_J6F055
UniRef90_D1AI93
UniRef90_J5TGX8
UniRef90_E9V0F9
UniRef90_J6EQU9
UniRef90_B6QW22
UniRef90_UPI00036EC06E
UniRef90_E6G9F0
UniRef90_Q3EMI8
UniRef90_K1V550
UniRef90_L8D6W9
UniRef90_Q04DD9
UniRef90_UPI000472220B
UniRef90_A0A052J0U6
UniRef90_G4TXM2
UniRef90_K1W4N4
UniRef90_M5BZ71
UniRef90_D1C412
UniRef90_M5NWE8
UniRef90_UPI00046F9746
UniRef90_UPI00047B98F9
UniRef90_F4LFL4
UniRef90_D4XHX0
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


90
100
110
120
UniRef90_UPI000382D7FB
UniRef90_Q7NQ18
UniRef90_UPI0003616A77
UniRef90_D0LB61
UniRef90_UPI00036C3CB1
UniRef90_T1B5T4
UniRef90_D3FEM3
UniRef90_D6B9S1
UniRef90_G8PK49
UniRef90_H0QVK3
UniRef90_UPI00036C6C98
UniRef90_UPI000262A1D7
UniRef90_N0DY93
UniRef90_UPI0002FDFDB2
UniRef90_R2TGL4
UniRef90_UPI00026262D2
UniRef90_UPI00026C6B07
UniRef90_S6JF91
UniRef90_U1K154
UniRef90_F0PH68
UniRef90_D2PNC1
UniRef90_Q8GGM5
UniRef90_UPI00035CE5F4
UniRef90_U1JIK3
UniRef90_UPI0003F74F25
UniRef90_W6K1I7
UniRef90_A4F8F7
UniRef90_C8XD12
UniRef90_UPI000470F6B1
UniRef90_UPI000360868F
UniRef90_UPI00037BCD99
UniRef90_UPI0003B3473C
UniRef90_W8GVP3
UniRef90_J5QPT1
UniRef90_I4F567
UniRef90_J6F055
UniRef90_D1AI93
UniRef90_J5TGX8
UniRef90_E9V0F9
UniRef90_J6EQU9
UniRef90_B6QW22
UniRef90_UPI00036EC06E
UniRef90_E6G9F0
UniRef90_Q3EMI8
UniRef90_K1V550
UniRef90_L8D6W9
UniRef90_Q04DD9
UniRef90_UPI000472220B
UniRef90_A0A052J0U6
UniRef90_G4TXM2
UniRef90_K1W4N4
UniRef90_M5BZ71
UniRef90_D1C412
UniRef90_M5NWE8
UniRef90_UPI00046F9746
UniRef90_UPI00047B98F9
UniRef90_F4LFL4
UniRef90_D4XHX0
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

```
                                                                130
UniRef90_UPI000382D7FB   E G T H R I R L N Y Q L T
UniRef90_Q7NQ18          A G E H G G E Y T L
UniRef90_UPI0003616A77
UniRef90_D0LB61          H S D D G Y P I T F H Y T
UniRef90_UPI00036C3CB1   D G T H R I W L D Y E F
UniRef90_T1B5T4          G E E H R Y E F E Y
UniRef90_D3FEM3
UniRef90_D6B9S1          G E K V A Y R F T H E L
UniRef90_G8PK49          G N A V E S E F E L E F
UniRef90_H0QVK3          H H E   S Y E I T L R Y S
UniRef90_UPI00036C6C98   D G T H R M D F D H N L
UniRef90_UPI000262A1D7   S G R H H V T L T L E T T
UniRef90_N0DY93            G E H R H T I  S Y R L
UniRef90_UPI0002FDFDB2   G Q T S K M I L D F E F
UniRef90_R2TGL4          D
UniRef90_UPI00026262D2   H F V L E Y T L
UniRef90_UPI00026C6B07   D G R H E V R F T L
UniRef90_S6JF91          D G T H H I W L N Y Q
UniRef90_U1K154          G K K A N Y Q I T
UniRef90_F0PH68
UniRef90_D2PNC1          Q G P    R L T L D Y E L
UniRef90_Q8GGM5
UniRef90_UPI00035CE5F4   R G   A F F V F E L E
UniRef90_U1JIK3          Q S E H
UniRef90_UPI0003F74F25   E A   H R I W F D Y E
UniRef90_W6K1I7          G H H V T F R Y T L P D
UniRef90_A4F8F7
UniRef90_C8XD12
UniRef90_UPI000470F6B1
UniRef90_UPI000360868F   G Q S A H M L L E Y
UniRef90_UPI00037BCD99
UniRef90_UPI0003B3473C   E G
UniRef90_W8GVP3          D G T H R L W L D Y
UniRef90_J5QPT1
UniRef90_I4F567
UniRef90_J6F055          Q G Q
UniRef90_D1AI93          N G Q
UniRef90_J5TGX8          D
UniRef90_E9V0F9
UniRef90_J6EQU9          V A P H R Y T L T L
UniRef90_B6QW22          P S Q V N Y R F V L
UniRef90_UPI00036EC06E   D G T H R I R L D Y E L
UniRef90_E6G9F0
UniRef90_Q3EMI8
UniRef90_K1V550
UniRef90_L8D6W9          H G S A Q Y V I E L
UniRef90_Q04DD9
UniRef90_UPI000472220B   G A T L V I E I D Y
UniRef90_A0A052J0U6
UniRef90_G4TXM2          Y S T A G H T
UniRef90_K1W4N4          V A P H R Y T L T L
UniRef90_M5BZ71
UniRef90_D1C412          G G S G T Y M A S L E F
UniRef90_M5NWE8
UniRef90_UPI00046F9746
UniRef90_UPI00047B98F9
UniRef90_F4LFL4
UniRef90_D4XHX0




lupas_21
lupas_14
lupas_28
jnet                     ------------------>
conf                     8 7 0 7 8 9 9 9 8 5 6 9 9
sol25                      B   B   B   B
sol5                         B   B
sol0
jhmm                     ------------------>
jpssm                    ------------------>
```