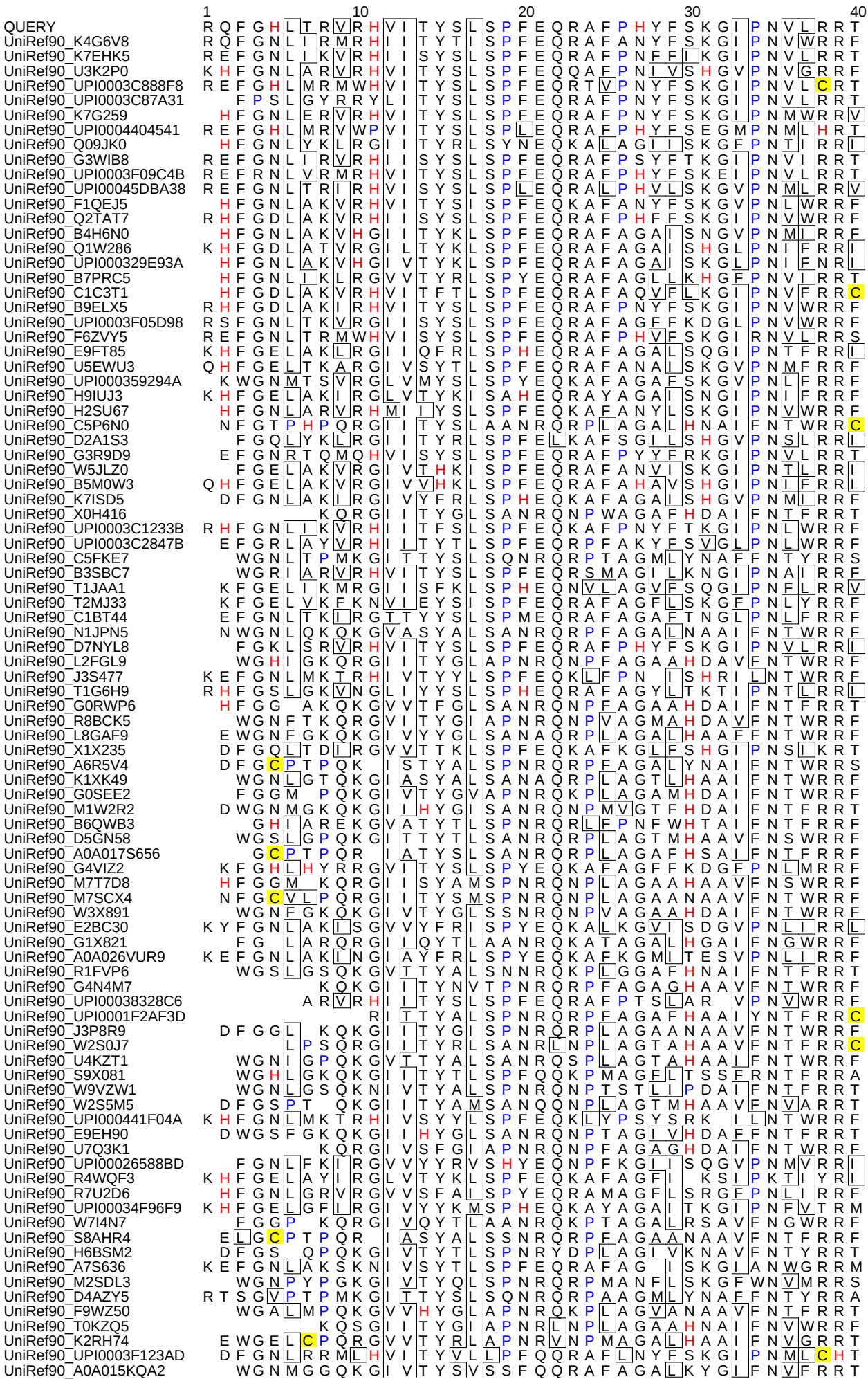
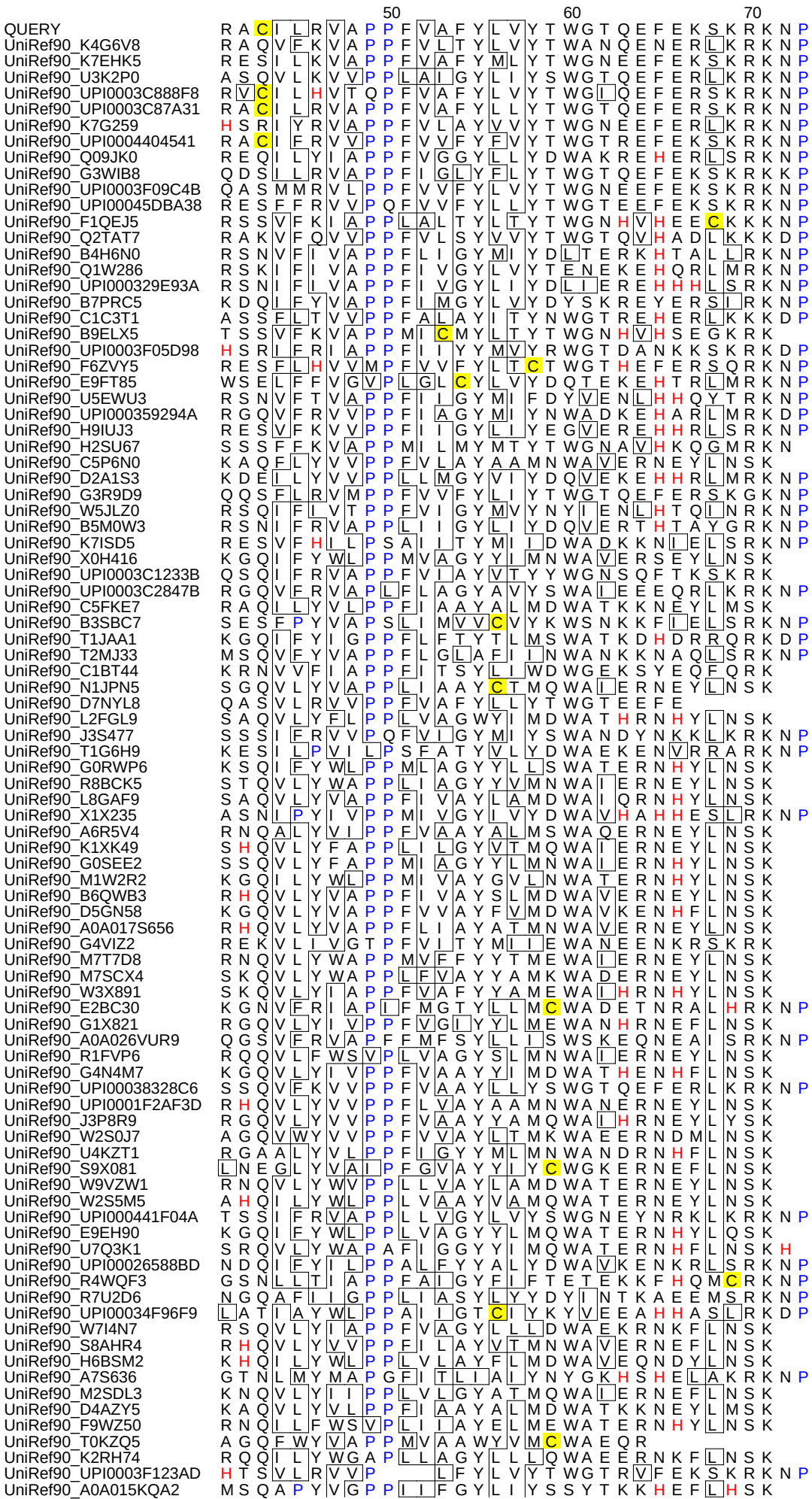
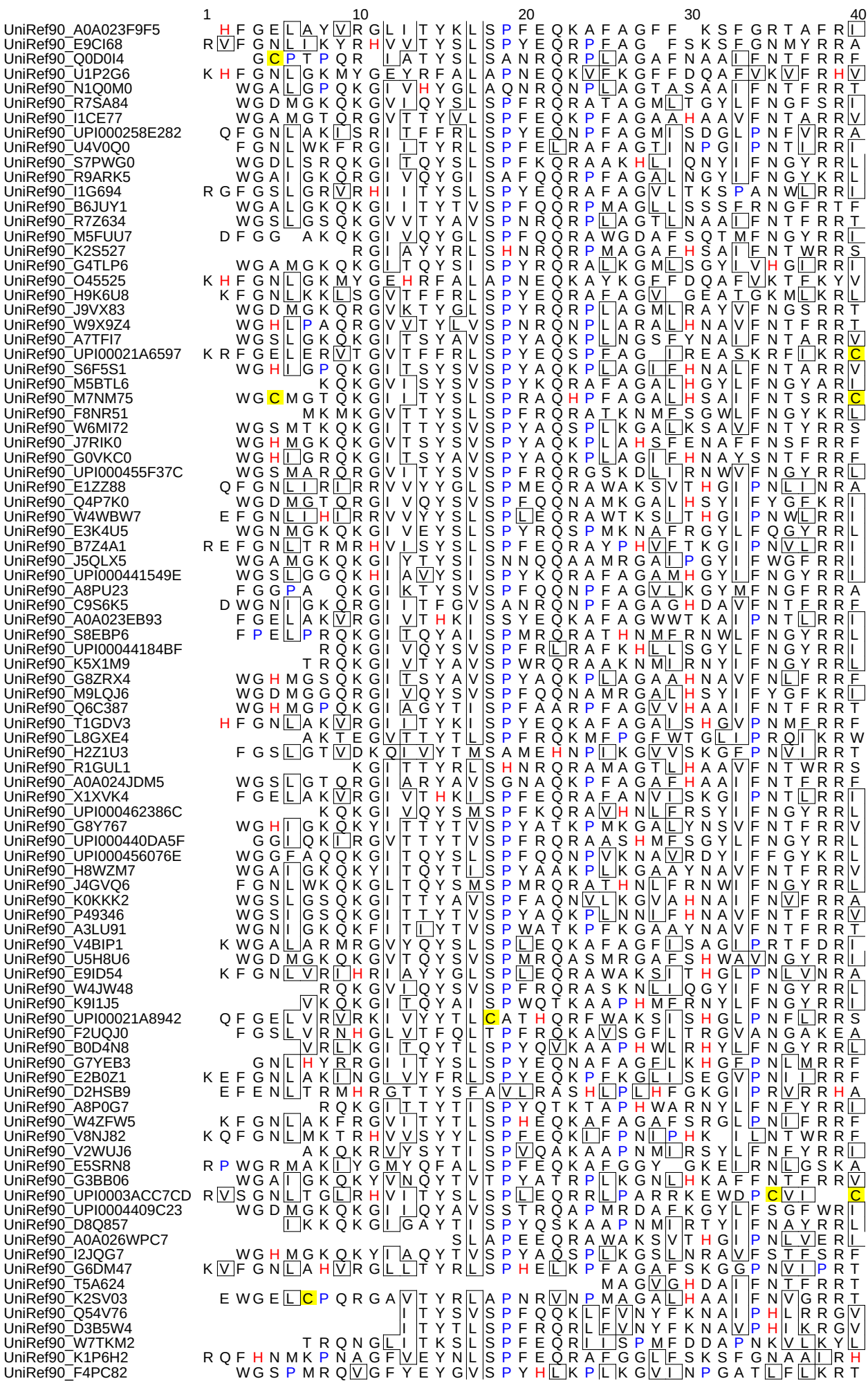
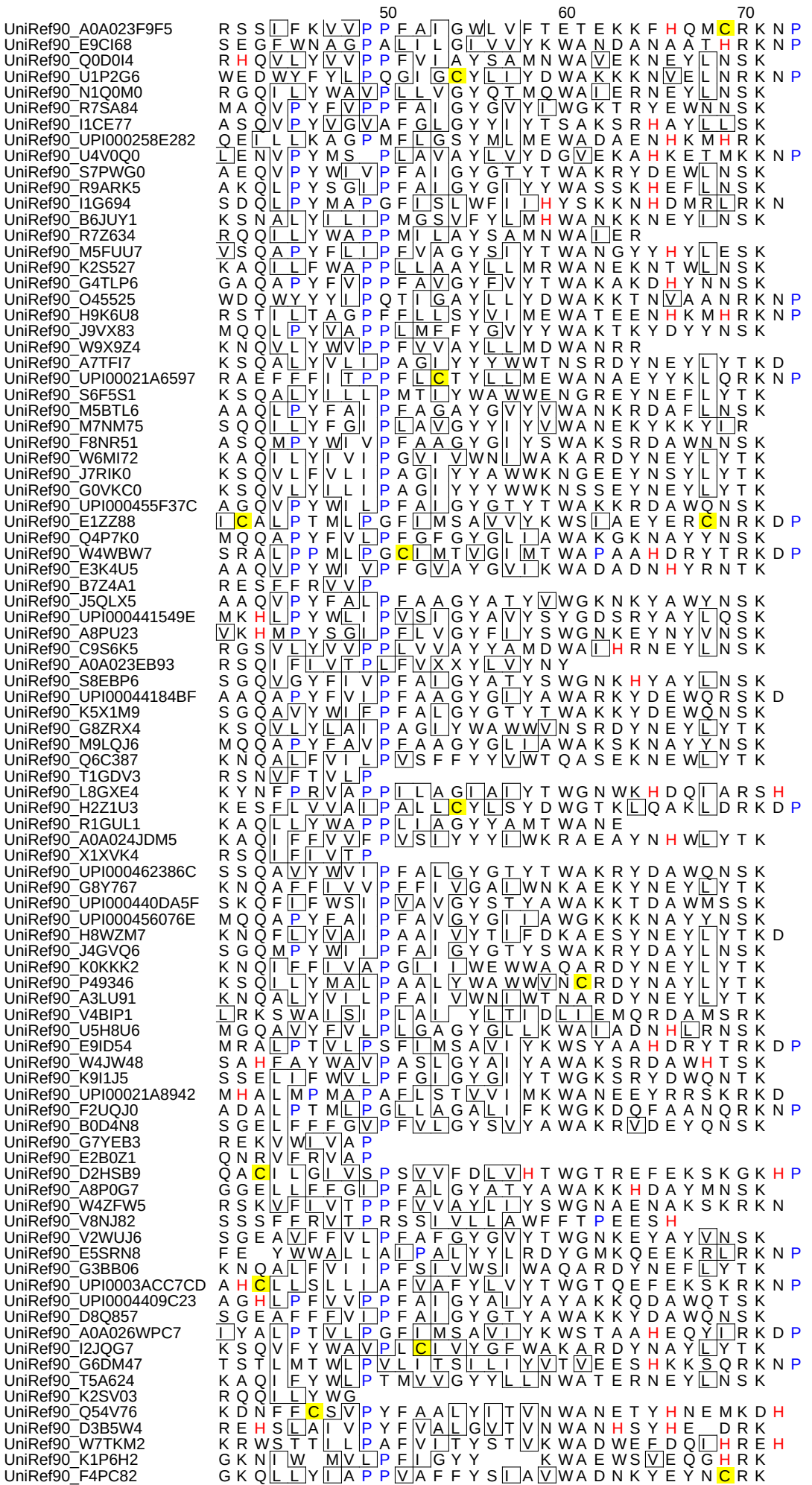
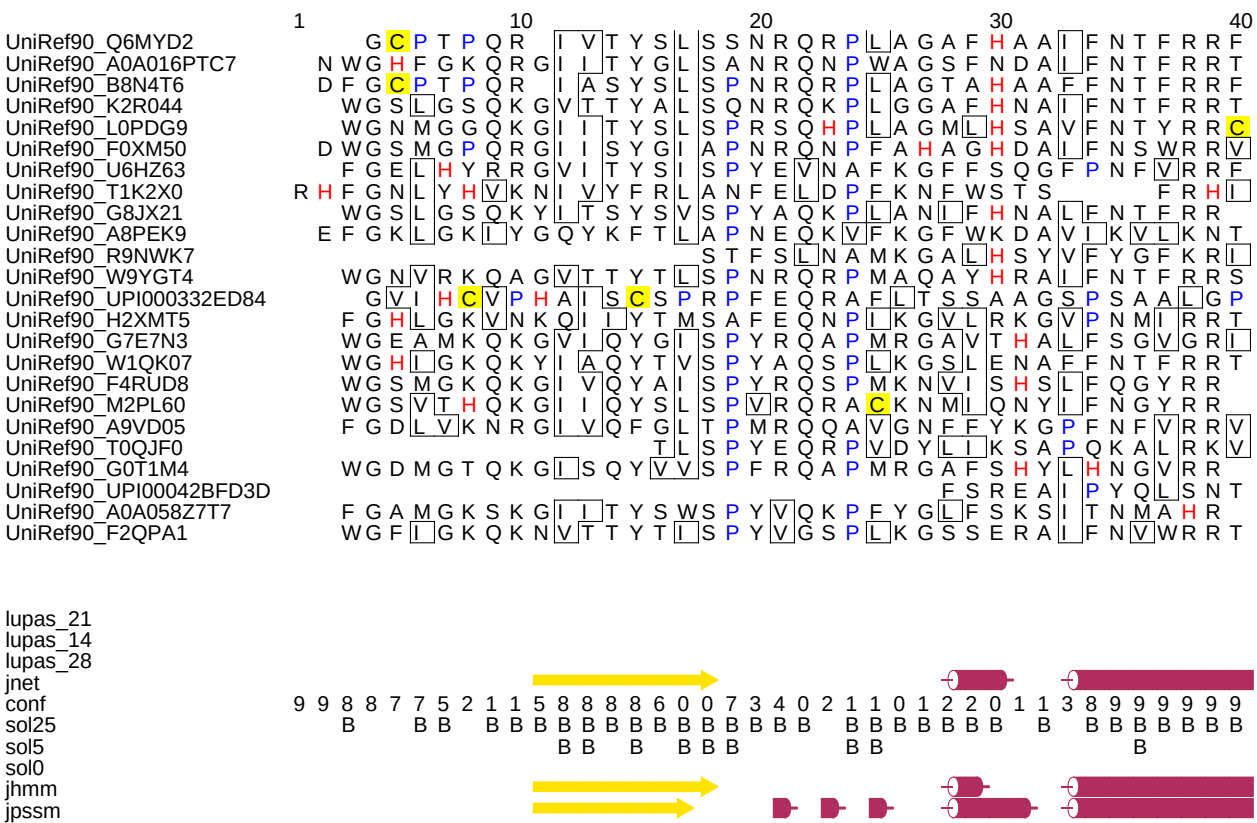
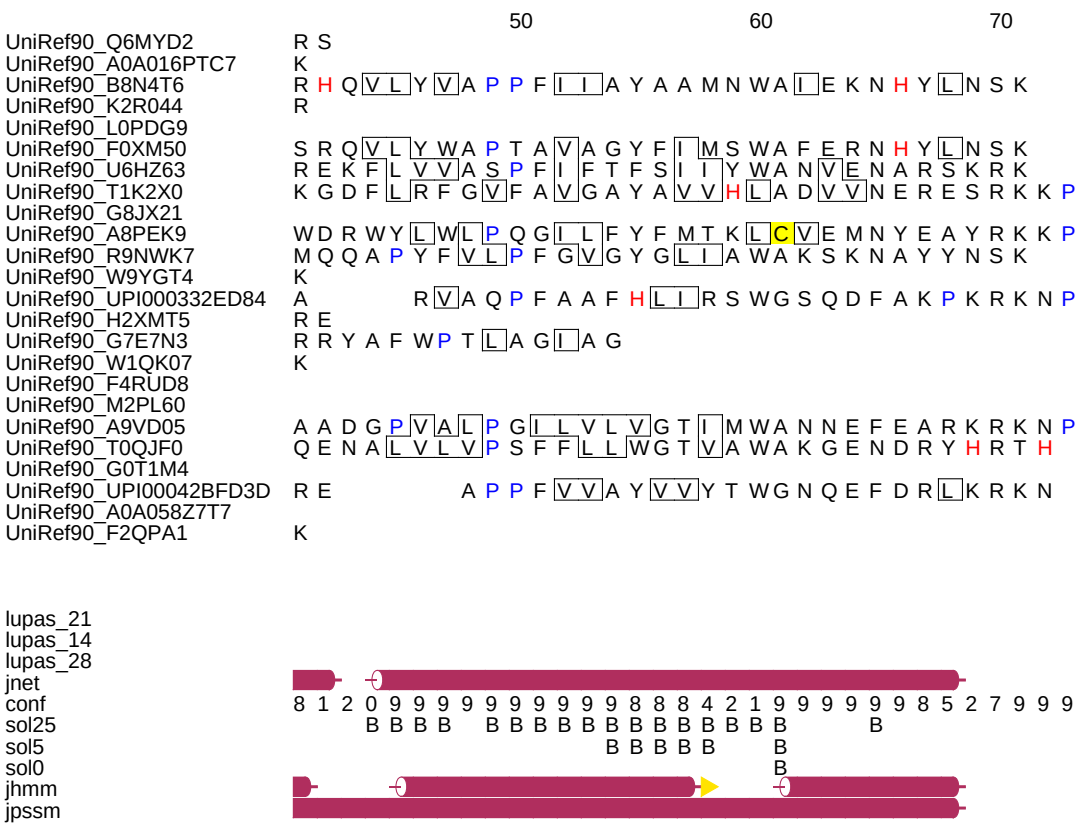

1
10
20
30
40
QUERY
UniRef90_K4G6V8
UniRef90_K7EHK5
UniRef90_U3K2P0
UniRef90_UPI0003C888F8
UniRef90_UPI0003C87A31
UniRef90_K7G259
UniRef90_UPI0004404541
UniRef90_Q09JK0
UniRef90_G3WIB8
UniRef90_UPI0003F09C4B
UniRef90_UPI00045DBA38
UniRef90_F1QEJ5
UniRef90_Q2TAT7
UniRef90_B4H6N0
UniRef90_Q1W286
UniRef90_UPI000329E93A
UniRef90_B7PRC5
UniRef90_C1C3T1
UniRef90_B9ELX5
UniRef90_UPI0003F05D98
UniRef90_F6ZVY5
UniRef90_E9FT85
UniRef90_U5EWU3
UniRef90_UPI000359294A
UniRef90_H9IUJ3
UniRef90_H2SU67
UniRef90_C5P6N0
UniRef90_D2A1S3
UniRef90_G3R9D9
UniRef90_W5JLZ0
UniRef90_B5M0W3
UniRef90_K7ISD5
UniRef90_X0H416
UniRef90_UPI0003C1233B
UniRef90_UPI0003C2847B
UniRef90_C5FKE7
UniRef90_B3SBC7
UniRef90_T1JAA1
UniRef90_T2MJ33
UniRef90_C1BT44
UniRef90_N1JPN5
UniRef90_D7NYL8
UniRef90_L2FGL9
UniRef90_J3S477
UniRef90_T1G6H9
UniRef90_G0RWP6
UniRef90_R8BCK5
UniRef90_L8GAF9
UniRef90_X1X235
UniRef90_A6R5V4
UniRef90_K1XK49
UniRef90_G0SEE2
UniRef90_M1W2R2
UniRef90_B6QWB3
UniRef90_D5GN58
UniRef90_A0A017S656
UniRef90_G4VIZ2
UniRef90_M7T7D8
UniRef90_M7SCX4
UniRef90_W3X891
UniRef90_E2BC30
UniRef90_G1X821
UniRef90_A0A026VUR9
UniRef90_R1FVP6
UniRef90_G4N4M7
UniRef90_UPI00038328C6
UniRef90_UPI0001F2AF3D
UniRef90_J3P8R9
UniRef90_W2S0J7
UniRef90_U4KZT1
UniRef90_S9X081
UniRef90_W9VZW1
UniRef90_W2S5M5
UniRef90_UPI000441F04A
UniRef90_E9EH90
UniRef90_U7Q3K1
UniRef90_UPI00026588BD
UniRef90_R4WQF3
UniRef90_R7U2D6
UniRef90_UPI00034F96F9
UniRef90_W7I4N7
UniRef90_S8AHR4
UniRef90_H6BSM2
UniRef90_A7S636
UniRef90_M2SDL3
UniRef90_D4AZY5
UniRef90_F9WZ50
UniRef90_T0KZQ5
UniRef90_K2RH74
UniRef90_UPI0003F123AD
UniRef90_A0A015KQA2


50
60
70
QUERY R A C I L R V A P P F V A F Y L V Y T W G T Q E F E K S K R K N P
UniRef90_K4G6V8 R A Q V F K V A P P F V L T Y L V Y T W A N Q E N E R L K R K N P
UniRef90_K7EHK5 R E S I L K V A P P F V A F Y M L Y T W G N E E F E K S K R K N P
UniRef90_U3K2P0 A S Q V L K V V P P L A I G Y L I Y S W G T Q E F E R L K R K N P
UniRef90_UPI0003C888F8 R V C I L H V T Q P F V A F Y L V Y T W G I Q E F E R S K R K N P
UniRef90_UPI0003C87A31 R A C I L R V A P P F V A F Y L L Y T W G T Q E F E R S K R K N P
UniRef90_K7G259 H S R I Y R V A P P F V L A Y V V Y T W G N E E F E R L K R K N P
UniRef90_UPI0004404541 R A C I F R V V P P F V V F Y F V Y T W G T R E F E K S K R K N P
UniRef90_Q09JK0 R E Q I L Y I A P P F V G G Y L L Y D W A K R E H E R L S R K N P
UniRef90_G3WIB8 Q D S I L R V A P P F I G L Y F L Y T W G T Q E F E K S K R K K P
UniRef90_UPI0003F09C4B Q A S M M R V L P P F V V F Y L V Y T W G N E E F E K S K R K N P
UniRef90_UPI00045DBA38 R E S F F R V V P Q F V V F Y L L Y T W G T E E F E K S K R K N P
UniRef90_F1QEJ5 R S S V F K I A P P L A L T Y L T Y T W G N H V H E E C K K K N P
UniRef90_Q2TAT7 R A K V F Q V V P P F V L S Y V V Y T W G T Q V H A D L K K K D P
UniRef90_B4H6N0 R S N V F I V A P P F L I G Y M I Y D L T E R K H T A L L R K N P
UniRef90_Q1W286 R S K I F I V A P P F I V G Y L V Y T E N E K E H Q R L M R K N P
UniRef90_UPI000329E93A R S N I F I V A P P F I V G Y L I Y D L I E R E H H H L S R K N P
UniRef90_B7PRC5 K D Q I F Y V A P P F I M G Y L V Y D Y S K R E Y E R S I R K N P
UniRef90_C1C3T1 A S S F L T V V P P F A L A Y I T Y N W G T R E H E R L K K K D P
UniRef90_B9ELX5 T S S V F K V A P P M I C M Y L T Y T W G N H V H S E G K R K
UniRef90_UPI0003F05D98 H S R I F R I A P P F I I Y Y M V Y R W G T D A N K K S K R K D P
UniRef90_F6ZVY5 R E S F L H V V M P F V V F Y L T C T W G T H E F E R S Q R K N P
UniRef90_E9FT85 W S E L F F V G V P L G L C Y L V Y D Q T E K E H T R L M R K N P
UniRef90_U5EWU3 R S N V F T V A P P F I I G Y M I F D Y V E N L H H Q Y T R K N P
UniRef90_UPI000359294A R G Q V F R V V P P F I A G Y M I Y N W A D K E H A R L M R K D P
UniRef90_H9IUJ3 R E S V F K V V P P F I I G Y L I Y E G V E R E H H R L S R K N P
UniRef90_H2SU67 S S S F F K V A P P M I L M Y M T Y T W G N A V H K Q G M R K N
UniRef90_C5P6N0 K A Q F L Y V V P P F V L A Y A A M N W A V E R N E Y L N S K
UniRef90_D2A1S3 K D E I L Y V V P P L L M G Y V I Y D Q V E K E H H R L M R K N P
UniRef90_G3R9D9 Q Q S F L R V M P P F V V F Y L I Y T W G T Q E F E R S K G K N P
UniRef90_W5JLZ0 R S Q I F I V T P P F V I G Y M V Y N Y I E N L H T Q I N R K N P
UniRef90_B5M0W3 R S N I F R V A P P L I I G Y L I Y D Q V E R T H T A Y G R K N P
UniRef90_K7ISD5 R E S V F H I L P S A I I T Y M I I D W A D K K N I E L S R K N P
UniRef90_X0H416 K G Q I F Y W L P P M V A G Y Y I M N W A V E R S E Y L N S K
UniRef90_UPI0003C1233B Q S Q I F R V A P P F V I A Y V T Y Y W G N S Q F T K S K R K
UniRef90_UPI0003C2847B R G Q V F R V A P L F L A G Y A V Y S W A I E E E Q R L K R K N P
UniRef90_C5FKE7 R A Q I L Y V L P P F I A A Y A L M D W A T K K N E Y L M S K
UniRef90_B3SBC7 S E S F P Y V A P S L I M V V C V Y K W S N K K F I E L S R K N P
UniRef90_T1JAA1 K G Q I F Y I G P P F L F T Y T L M S W A T K D H D R R Q R K D P
UniRef90_T2MJ33 M S Q V F Y V A P P F L G L A F I I N W A N K K N A Q L S R K N P
UniRef90_C1BT44 K R N V V F I A P P F I T S Y L I W D W G E K S Y E Q F Q R K
UniRef90_N1JPN5 S G Q V L Y V A P P L I A A Y C T M Q W A I E R N E Y L N S K
UniRef90_D7NYL8 Q A S V L R V V P P F V A F Y L L Y T W G T E E F E
UniRef90_L2FGL9 S A Q V L Y F L P P L V A G W Y I M D W A T H R N H Y L N S K
UniRef90_J3S477 S S S I F R V V P Q F V I G Y M I Y S W A N D Y N K K L K R K N P
UniRef90_T1G6H9 K E S I L P V I L P S F A T Y V L Y D W A E K E N V R R A R K N P
UniRef90_G0RWP6 K S Q I F Y W L P P M L A G Y Y L L S W A T E R N H Y L N S K
UniRef90_R8BCK5 S T Q V L Y W A P P L I A G Y Y V M N W A I E R N E Y L N S K
UniRef90_L8GAF9 S A Q V L Y V A P P F I V A Y L A M D W A I Q R N H Y L N S K
UniRef90_X1X235 A S N I P Y I V P P M I V G Y I V Y D W A V H A H H E S L R K N P
UniRef90_A6R5V4 R N Q A L Y V I P P F V A A Y A L M S W A Q E R N E Y L N S K
UniRef90_K1XK49 S H Q V L Y F A P P L I L G Y V T M Q W A I E R N E Y L N S K
UniRef90_G0SEE2 S S Q V L Y F A P P M I A G Y Y L M N W A I E R N H Y L N S K
UniRef90_M1W2R2 K G Q I L Y W L P P M I V A Y G V L N W A T E R N H Y L N S K
UniRef90_B6QWB3 R H Q V L Y V A P P F I V A Y S L M D W A V E R N E Y L N S K
UniRef90_D5GN58 K G Q V L Y V A P P F V V A Y F V M D W A V K E N H F L N S K
UniRef90_A0A017S656 R H Q V L Y V A P P F L I A Y A T M N W A V E R N E Y L N S K
UniRef90_G4VIZ2 R E K V L I V G T P F V I T Y M I I E W A N E E N K R S K R K
UniRef90_M7T7D8 R N Q V L Y W A P P M V F F Y Y T M E W A I E R N E Y L N S K
UniRef90_M7SCX4 S K Q V L Y W A P P L F V A Y Y A M K W A D E R N E Y L N S K
UniRef90_W3X891 S K Q V L Y I A P P F V A F Y Y A M E W A I H R N H Y L N S K
UniRef90_E2BC30 K G N V F R I A P I F M G T Y L L M C W A D E T N R A L H R K N P
UniRef90_G1X821 R G Q V L Y I V P P F V G I Y Y L M E W A N H R N E F L N S K
UniRef90_A0A026VUR9 Q G S V F R V A P F F M F S Y L L I S W S K E Q N E A I S R K N P
UniRef90_R1FVP6 R Q Q V L F W S V P L V A G Y S L M N W A I E R N E Y L N S K
UniRef90_G4N4M7 K G Q V L Y I V P P F V A A Y Y I M D W A T H E N H F L N S K
UniRef90_UPI00038328C6 S S Q V F K V V P P F V A A Y L L Y S W G T Q E F E R L K R K N P
UniRef90_UPI0001F2AF3D R H Q V L Y V V P P F L V A Y A A M N W A N E R N E Y L N S K
UniRef90_J3P8R9 R G Q V L Y V V P P F V A A Y Y A M Q W A I H R N E Y L Y S K
UniRef90_W2S0J7 A G Q V W Y V V P P F V V A A Y L T M K W A E E R N D M L N S K
UniRef90_U4KZT1 R G A A L Y V L P P F I G Y Y M L M N W A N D R N H F L N S K
UniRef90_S9X081 L N E G L Y V A I P F G V A Y Y I Y C W G K E R N E F L N S K
UniRef90_W9VZW1 R N Q V L Y W V P P L L V A Y L A M D W A T E R N E Y L N S K
UniRef90_W2S5M5 A H Q I L Y W L P P L V A A Y V A M Q W A T E R N E Y L N S K
UniRef90_UPI000441F04A T S S I F R V A P P L L V G Y L V Y S W G N E Y N R K L K R K N P
UniRef90_E9EH90 K G Q I F Y W L P P L V A G Y Y L M Q W A T E R N H Y L Q S K
UniRef90_U7Q3K1 S R Q V L Y W A P A F I G G Y Y I M Q W A T E R N H F L N S K H
UniRef90_UPI00026588BD N D Q I F Y I L P P A L F Y Y A L Y D W A V K E N K R L S R K N P
UniRef90_R4WQF3 G S N L L T I A P P F A I I G Y F I F T E T E K K F H Q M C R K N P
UniRef90_R7U2D6 N G Q A F I I G P P L I A S Y L Y Y D Y I N T K A E E M S R K N P
UniRef90_UPI00034F96F9 L A T I A Y W L P P A I I G T C I Y K Y V E E A H H A S L R K D P
UniRef90_W7I4N7 R S Q V L Y I A P P F V A G Y L L L D W A E K R N K F L N S K
UniRef90_S8AHR4 R H Q V L Y V V P P F I L A Y V T M N W A V E R N E F L N S K
UniRef90_H6BSM2 K H Q I L Y W L P P L V L A Y F L M D W A V E Q N D Y L N S K
UniRef90_A7S636 G T N L M Y M A P G F I T L I A I Y N Y G K H S H E L A K R K N P
UniRef90_M2SDL3 K N Q V L Y I I P P L V L G Y A T M Q W A I E R N E F L N S K
UniRef90_D4AZY5 K A Q V L Y V L P P F I A A Y A L M D W A T K K N E Y L M S K
UniRef90_F9WZ50 R N Q I L F W S V P L I I A Y E L M E W A T E R N H Y L N S K
UniRef90_T0KZQ5 A G Q F W Y V A P P M V A A W Y V M C W A E Q R
UniRef90_K2RH74 R Q Q I L Y W G A P L L A G Y L L L Q W A E E R N K F L N S K
UniRef90_UPI0003F123AD H T S V L R V V P L F Y L V Y T W G T R V F E K S K R K N P
UniRef90_A0A015KQA2 M S Q A P Y V G P P I I F G Y L I Y S S Y T K K H E F L H S K


1
10
20
30
40
UniRef90_A0A023F9F5
UniRef90_E9CI68
UniRef90_Q0D0I4
UniRef90_U1P2G6
UniRef90_N1Q0M0
UniRef90_R7SA84
UniRef90_I1CE77
UniRef90_UPI000258E282
UniRef90_U4V0Q0
UniRef90_S7PWG0
UniRef90_R9ARK5
UniRef90_I1G694
UniRef90_B6JUY1
UniRef90_R7Z634
UniRef90_M5FUU7
UniRef90_K2S527
UniRef90_G4TLP6
UniRef90_O45525
UniRef90_H9K6U8
UniRef90_J9VX83
UniRef90_W9X9Z4
UniRef90_A7TFI7
UniRef90_UPI00021A6597
UniRef90_S6F5S1
UniRef90_M5BTL6
UniRef90_M7NM75
UniRef90_F8NR51
UniRef90_W6MI72
UniRef90_J7RIK0
UniRef90_G0VKC0
UniRef90_UPI000455F37C
UniRef90_E1ZZ88
UniRef90_Q4P7K0
UniRef90_W4WBW7
UniRef90_E3K4U5
UniRef90_B7Z4A1
UniRef90_J5QLX5
UniRef90_UPI000441549E
UniRef90_A8PU23
UniRef90_C9S6K5
UniRef90_A0A023EB93
UniRef90_S8EBP6
UniRef90_UPI00044184BF
UniRef90_K5X1M9
UniRef90_G8ZRX4
UniRef90_M9LQJ6
UniRef90_Q6C387
UniRef90_T1GDV3
UniRef90_L8GXE4
UniRef90_H2Z1U3
UniRef90_R1GUL1
UniRef90_A0A024JDM5
UniRef90_X1XVK4
UniRef90_UPI000462386C
UniRef90_G8Y767
UniRef90_UPI000440DA5F
UniRef90_UPI000456076E
UniRef90_H8WZM7
UniRef90_J4GVQ6
UniRef90_K0KKK2
UniRef90_P49346
UniRef90_A3LU91
UniRef90_V4BIP1
UniRef90_U5H8U6
UniRef90_E9ID54
UniRef90_W4JW48
UniRef90_K9I1J5
UniRef90_UPI00021A8942
UniRef90_F2UQJ0
UniRef90_B0D4N8
UniRef90_G7YEB3
UniRef90_E2B0Z1
UniRef90_D2HSB9
UniRef90_A8P0G7
UniRef90_W4ZFW5
UniRef90_V8NJ82
UniRef90_V2WUJ6
UniRef90_E5SRN8
UniRef90_G3BB06
UniRef90_UPI0003ACC7CD
UniRef90_UPI0004409C23
UniRef90_D8Q857
UniRef90_A0A026WPC7
UniRef90_I2JQG7
UniRef90_G6DM47
UniRef90_T5A624
UniRef90_K2SV03
UniRef90_Q54V76
UniRef90_D3B5W4
UniRef90_W7TKM2
UniRef90_K1P6H2
UniRef90_F4PC82


50
60
70
UniRef90_A0A023F9F5
UniRef90_E9CI68
UniRef90_Q0D0I4
UniRef90_U1P2G6
UniRef90_N1Q0M0
UniRef90_R7SA84
UniRef90_I1CE77
UniRef90_UPI000258E282
UniRef90_U4V0Q0
UniRef90_S7PWG0
UniRef90_R9ARK5
UniRef90_I1G694
UniRef90_B6JUY1
UniRef90_R7Z634
UniRef90_M5FUU7
UniRef90_K2S527
UniRef90_G4TLP6
UniRef90_O45525
UniRef90_H9K6U8
UniRef90_J9VX83
UniRef90_W9X9Z4
UniRef90_A7TFI7
UniRef90_UPI00021A6597
UniRef90_S6F5S1
UniRef90_M5BTL6
UniRef90_M7NM75
UniRef90_F8NR51
UniRef90_W6MI72
UniRef90_J7RIK0
UniRef90_G0VKC0
UniRef90_UPI000455F37C
UniRef90_E1ZZ88
UniRef90_Q4P7K0
UniRef90_W4WBW7
UniRef90_E3K4U5
UniRef90_B7Z4A1
UniRef90_J5QLX5
UniRef90_UPI000441549E
UniRef90_A8PU23
UniRef90_C9S6K5
UniRef90_A0A023EB93
UniRef90_S8EBP6
UniRef90_UPI00044184BF
UniRef90_K5X1M9
UniRef90_G8ZRX4
UniRef90_M9LQJ6
UniRef90_Q6C387
UniRef90_T1GDV3
UniRef90_L8GXE4
UniRef90_H2Z1U3
UniRef90_R1GUL1
UniRef90_A0A024JDM5
UniRef90_X1XVK4
UniRef90_UPI000462386C
UniRef90_G8Y767
UniRef90_UPI000440DA5F
UniRef90_UPI000456076E
UniRef90_H8WZM7
UniRef90_J4GVQ6
UniRef90_K0KKK2
UniRef90_P49346
UniRef90_A3LU91
UniRef90_V4BIP1
UniRef90_U5H8U6
UniRef90_E9ID54
UniRef90_W4JW48
UniRef90_K9I1J5
UniRef90_UPI00021A8942
UniRef90_F2UQJ0
UniRef90_B0D4N8
UniRef90_G7YEB3
UniRef90_E2B0Z1
UniRef90_D2HSB9
UniRef90_A8P0G7
UniRef90_W4ZFW5
UniRef90_V8NJ82
UniRef90_V2WUJ6
UniRef90_E5SRN8
UniRef90_G3BB06
UniRef90_UPI0003ACC7CD
UniRef90_UPI0004409C23
UniRef90_D8Q857
UniRef90_A0A026WPC7
UniRef90_I2JQG7
UniRef90_G6DM47
UniRef90_T5A624
UniRef90_K2SV03
UniRef90_Q54V76
UniRef90_D3B5W4
UniRef90_W7TKM2
UniRef90_K1P6H2
UniRef90_F4PC82


1
10
20
30
40
UniRef90_Q6MYD2
UniRef90_A0A016PTC7
UniRef90_B8N4T6
UniRef90_K2R044
UniRef90_L0PDG9
UniRef90_F0XM50
UniRef90_U6HZ63
UniRef90_T1K2X0
UniRef90_G8JX21
UniRef90_A8PEK9
UniRef90_R9NWK7
UniRef90_W9YGT4
UniRef90_UPI000332ED84
UniRef90_H2XMT5
UniRef90_G7E7N3
UniRef90_W1QK07
UniRef90_F4RUD8
UniRef90_M2PL60
UniRef90_A9VD05
UniRef90_T0QJF0
UniRef90_G0T1M4
UniRef90_UPI00042BFD3D
UniRef90_A0A058Z7T7
UniRef90_F2QPA1
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


50
60
70
UniRef90_Q6MYD2
UniRef90_A0A016PTC7
UniRef90_B8N4T6
UniRef90_K2R044
UniRef90_L0PDG9
UniRef90_F0XM50
UniRef90_U6HZ63
UniRef90_T1K2X0
UniRef90_G8JX21
UniRef90_A8PEK9
UniRef90_R9NWK7
UniRef90_W9YGT4
UniRef90_UPI000332ED84
UniRef90_H2XMT5
UniRef90_G7E7N3
UniRef90_W1QK07
UniRef90_F4RUD8
UniRef90_M2PL60
UniRef90_A9VD05
UniRef90_T0QJF0
UniRef90_G0T1M4
UniRef90_UPI00042BFD3D
UniRef90_A0A058Z7T7
UniRef90_F2QPA1
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm