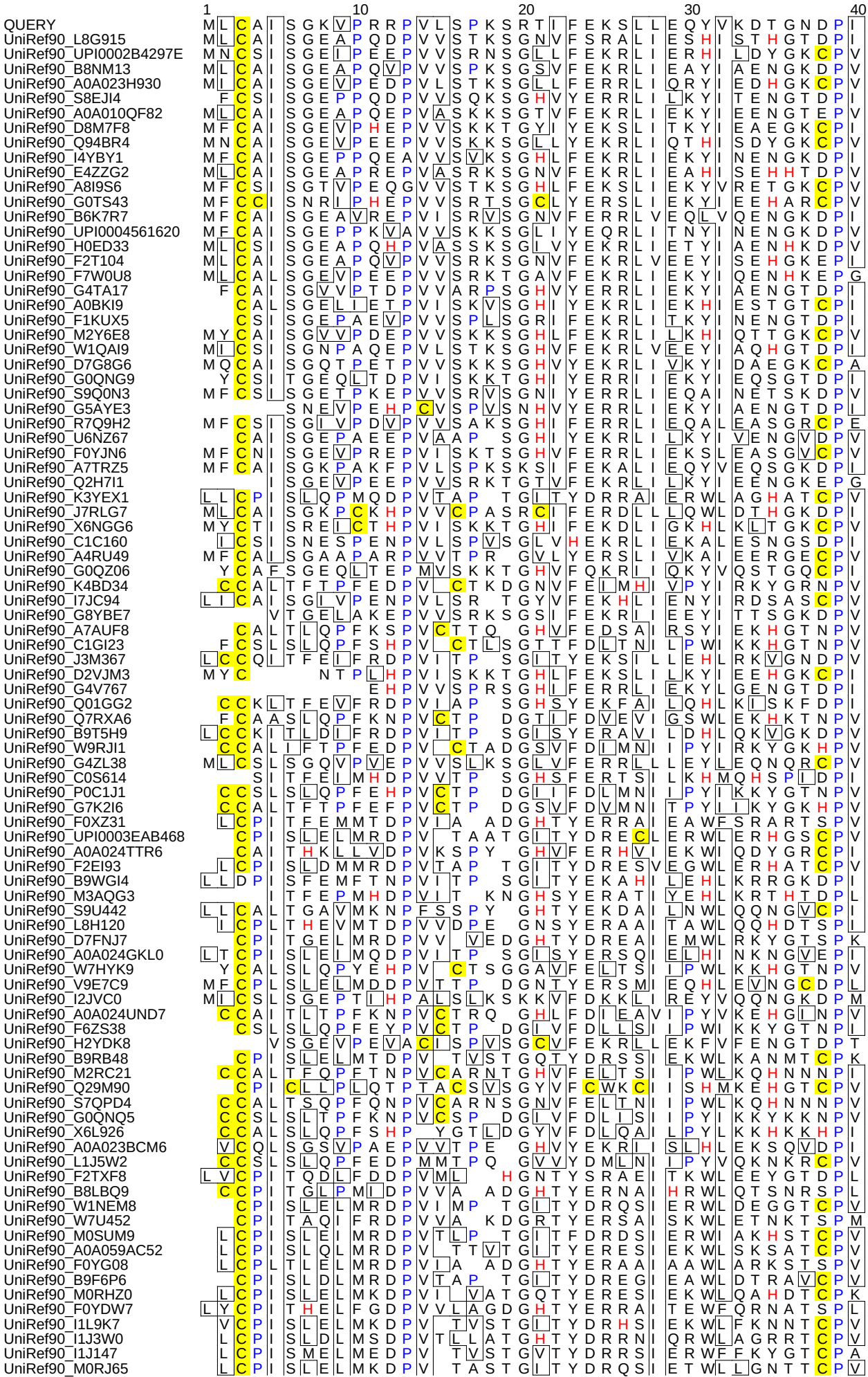
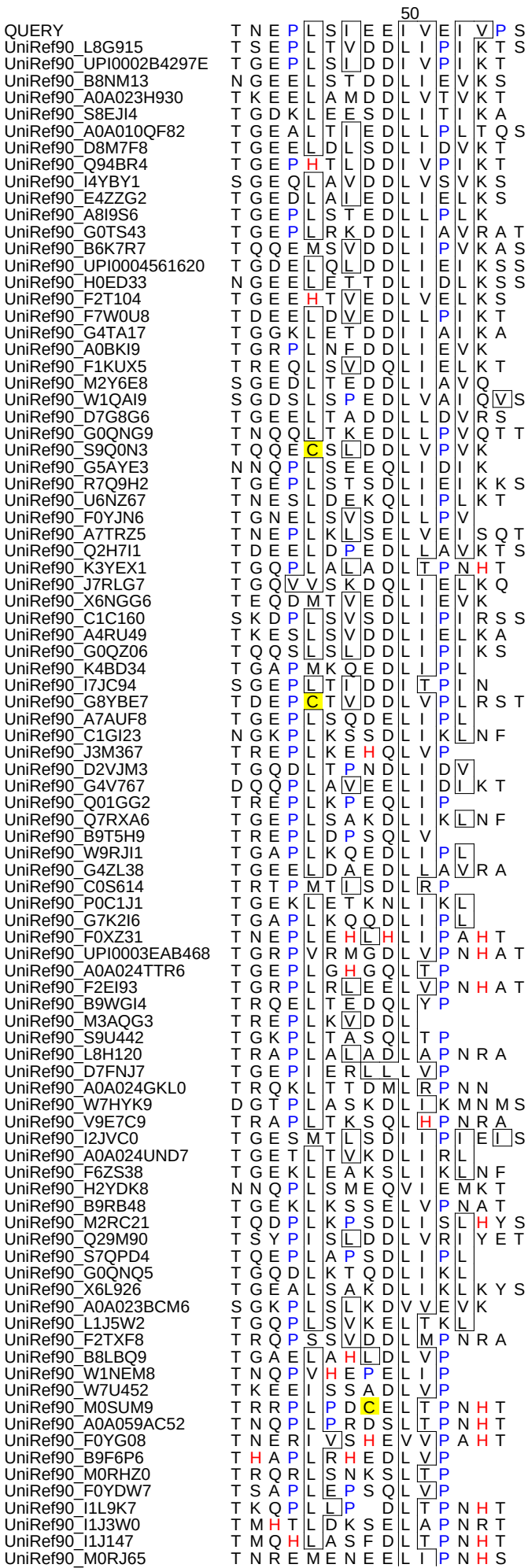
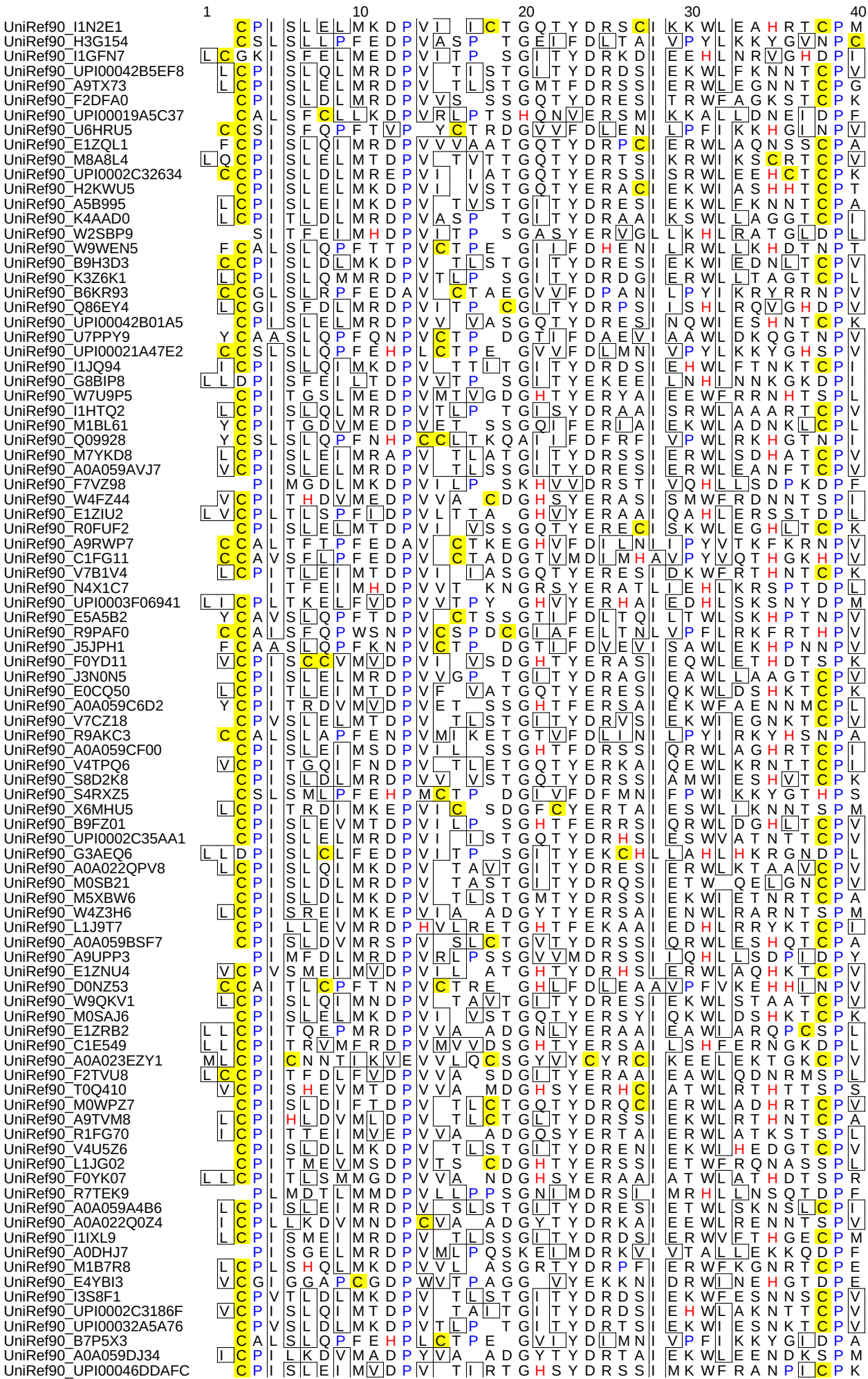
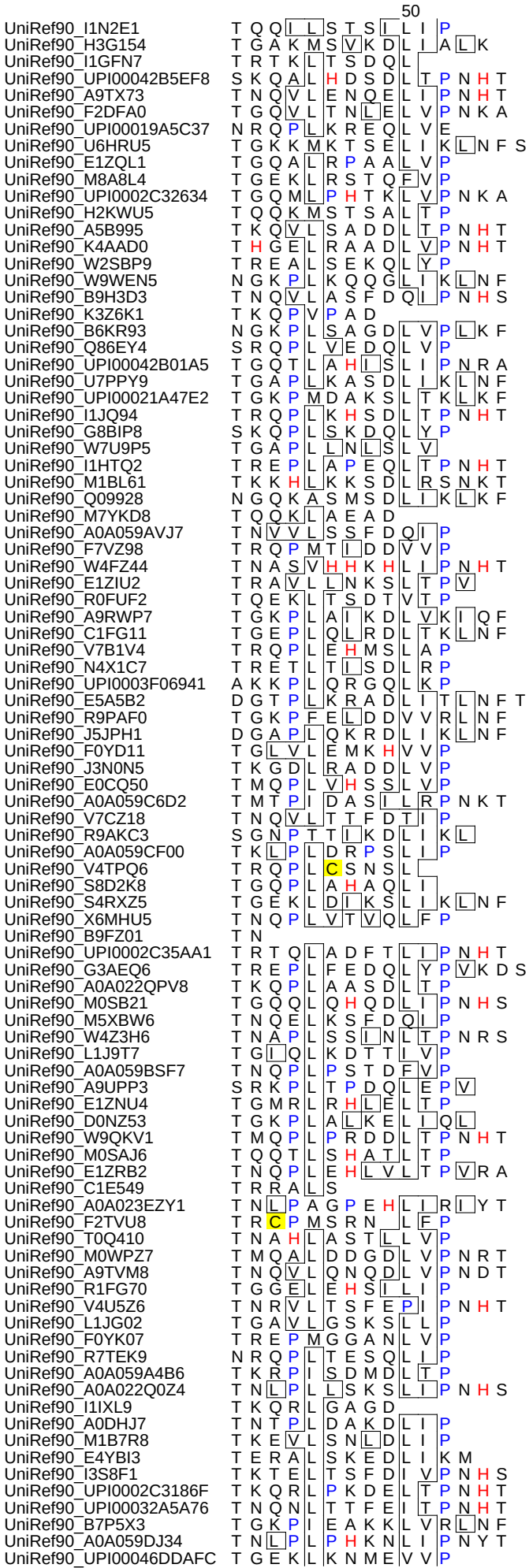
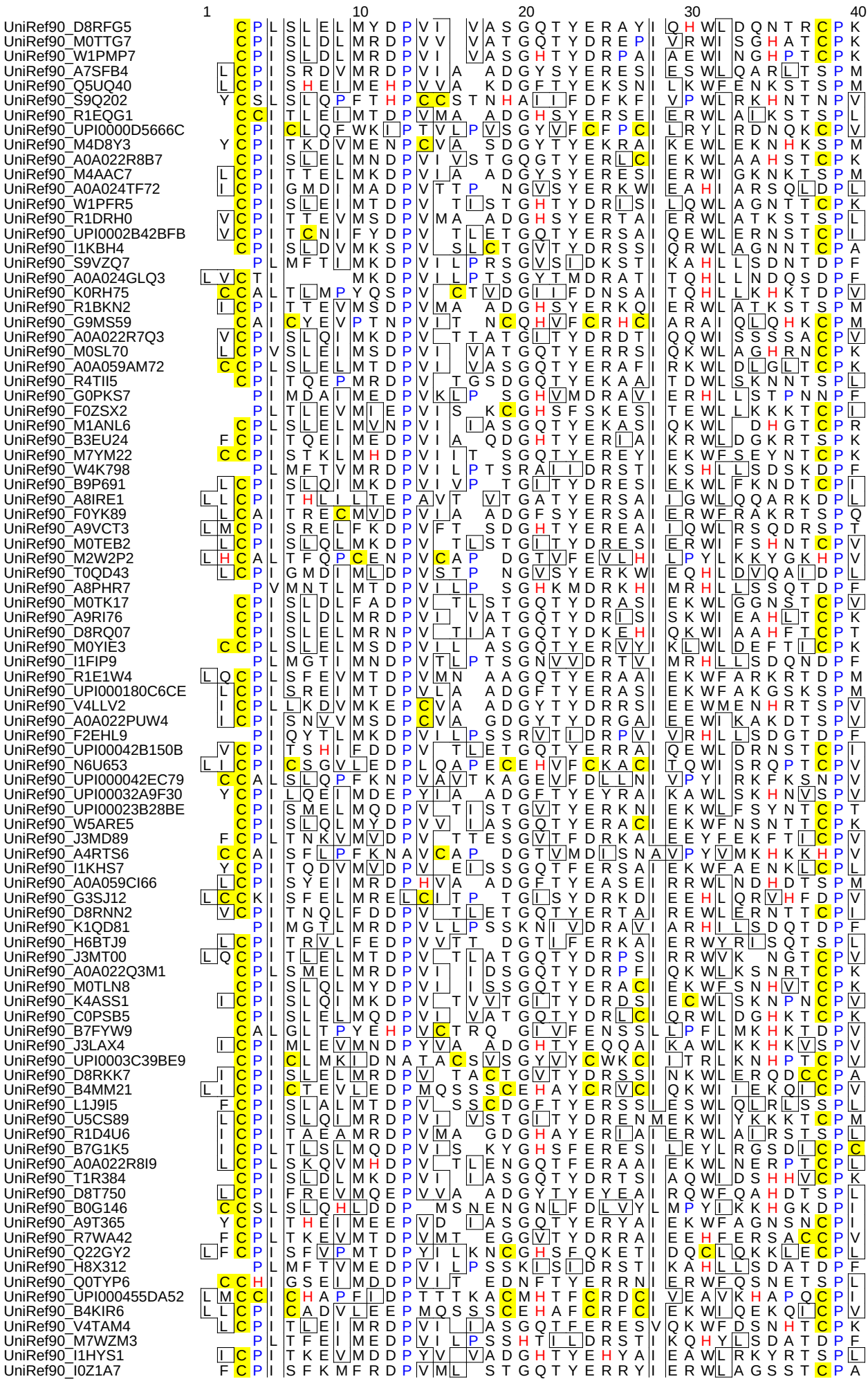
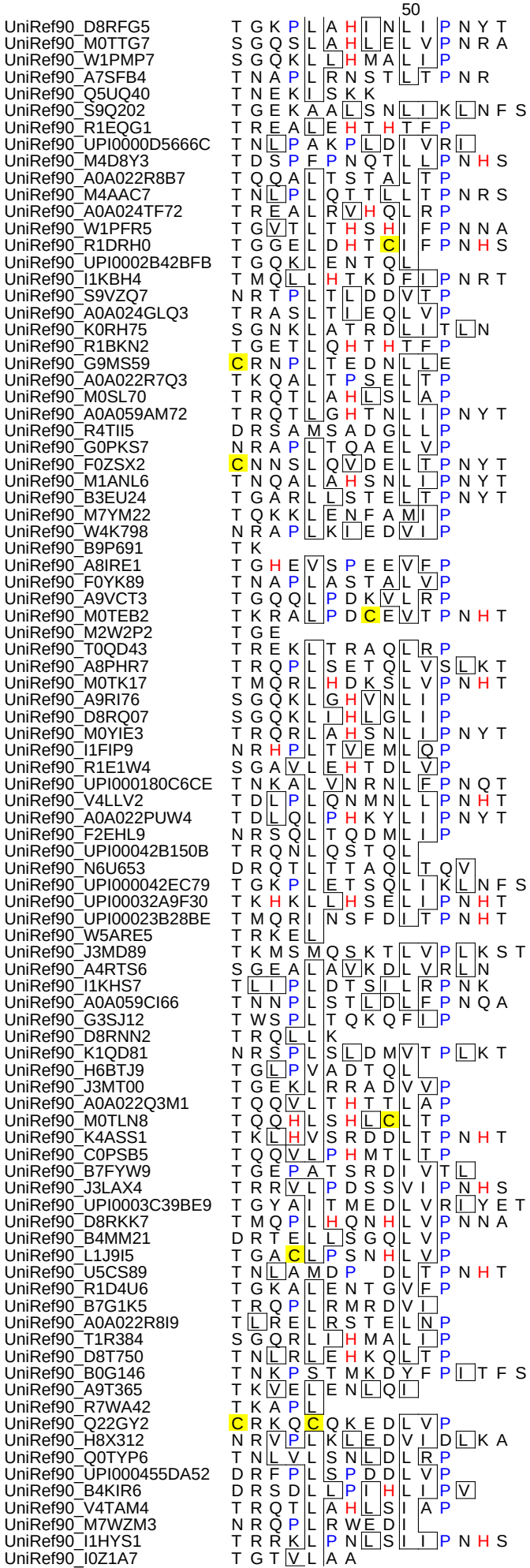

1
10
20
30
40
QUERY
UniRef90_L8G915
UniRef90_UPI0002B4297E
UniRef90_B8NM13
UniRef90_A0A023H930
UniRef90_S8EJI4
UniRef90_A0A010QF82
UniRef90_D8M7F8
UniRef90_Q94BR4
UniRef90_I4YBY1
UniRef90_E4ZZG2
UniRef90_A8I9S6
UniRef90_G0TS43
UniRef90_B6K7R7
UniRef90_UPI0004561620
UniRef90_H0ED33
UniRef90_F2T104
UniRef90_F7W0U8
UniRef90_G4TA17
UniRef90_A0BKI9
UniRef90_F1KUX5
UniRef90_M2Y6E8
UniRef90_W1QAI9
UniRef90_D7G8G6
UniRef90_G0QNG9
UniRef90_S9Q0N3
UniRef90_G5AYE3
UniRef90_R7Q9H2
UniRef90_U6NZ67
UniRef90_F0YJN6
UniRef90_A7TRZ5
UniRef90_Q2H7I1
UniRef90_K3YEX1
UniRef90_J7RLG7
UniRef90_X6NGG6
UniRef90_C1C160
UniRef90_A4RU49
UniRef90_G0QZ06
UniRef90_K4BD34
UniRef90_I7JC94
UniRef90_G8YBE7
UniRef90_A7AUF8
UniRef90_C1GI23
UniRef90_J3M367
UniRef90_D2VJM3
UniRef90_G4V767
UniRef90_Q01GG2
UniRef90_Q7RXA6
UniRef90_B9T5H9
UniRef90_W9RJI1
UniRef90_G4ZL38
UniRef90_C0S614
UniRef90_P0C1J1
UniRef90_G7K2I6
UniRef90_F0XZ31
UniRef90_UPI0003EAB468
UniRef90_A0A024TTR6
UniRef90_F2EI93
UniRef90_B9WGI4
UniRef90_M3AQG3
UniRef90_S9U442
UniRef90_L8H120
UniRef90_D7FNJ7
UniRef90_A0A024GKL0
UniRef90_W7HYK9
UniRef90_V9E7C9
UniRef90_I2JVC0
UniRef90_A0A024UND7
UniRef90_F6ZS38
UniRef90_H2YDK8
UniRef90_B9RB48
UniRef90_M2RC21
UniRef90_Q29M90
UniRef90_S7QPD4
UniRef90_G0QNQ5
UniRef90_X6L926
UniRef90_A0A023BCM6
UniRef90_L1J5W2
UniRef90_F2TXF8
UniRef90_B8LBQ9
UniRef90_W1NEM8
UniRef90_W7U452
UniRef90_M0SUM9
UniRef90_A0A059AC52
UniRef90_F0YG08
UniRef90_B9F6P6
UniRef90_M0RHZ0
UniRef90_F0YDW7
UniRef90_I1L9K7
UniRef90_I1J3W0
UniRef90_I1J147
UniRef90_M0RJ65

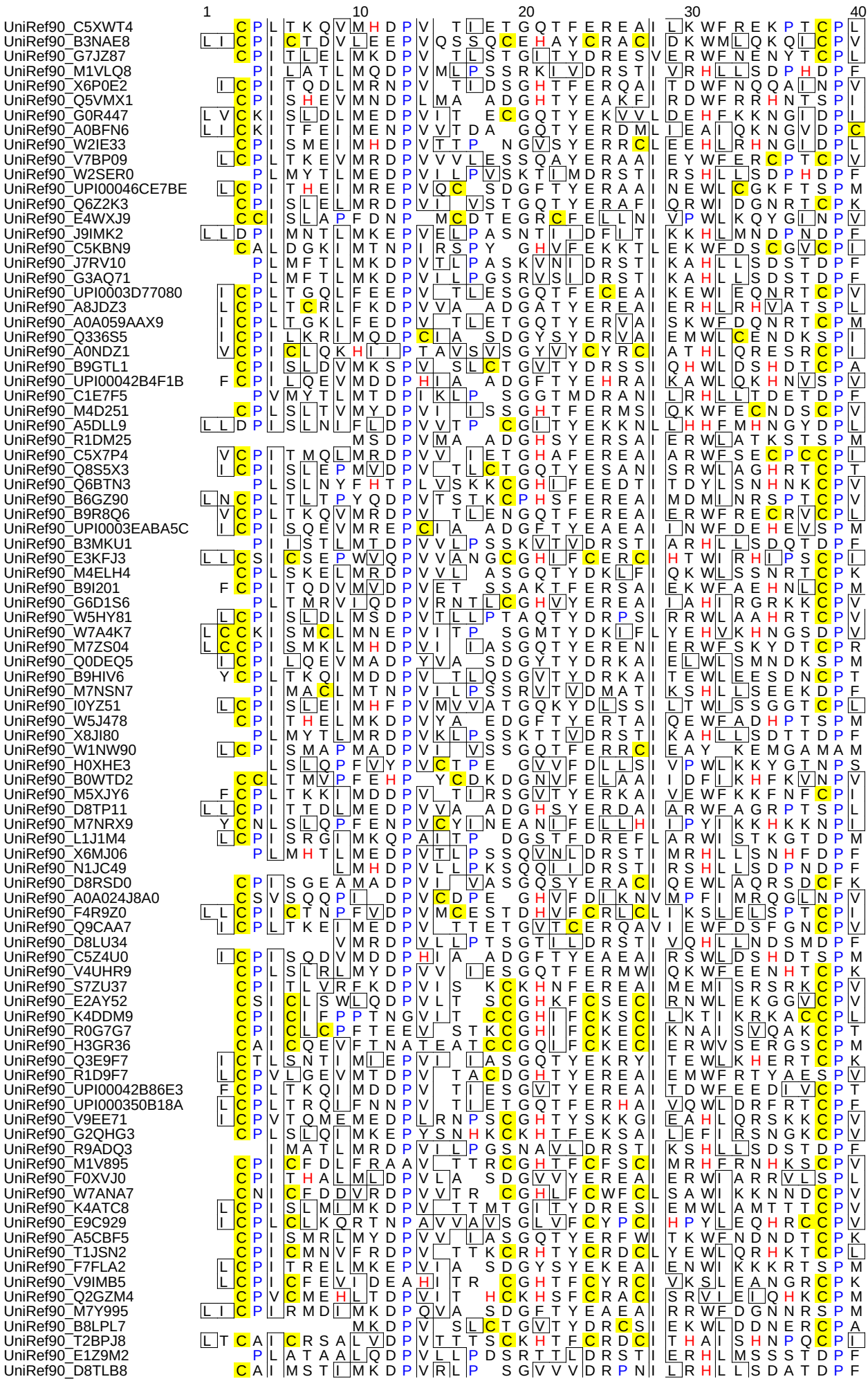

50
QUERY T N E P L S I E E I V E I V P S
UniRef90_L8G915 T S E P L T V D D L I P I K T S
UniRef90_UPI0002B4297E T G E P L S I D D I V P I K T
UniRef90_B8NM13 N G E E L S T D D L I E V K S
UniRef90_A0A023H930 T K E E L A M D D L V T V K T
UniRef90_S8EJI4 T G D K L E E S D L I T I K A
UniRef90_A0A010QF82 T G E A L T I E D L L P L T Q S
UniRef90_D8M7F8 T G E E L D L S D L I D V K T
UniRef90_Q94BR4 T G E P H T L D D I V P I K T
UniRef90_I4YBY1 S G E Q L A V D D L V S V K S
UniRef90_E4ZZG2 T G E D L A I E D L I E L K S
UniRef90_A8I9S6 T G E P L S T E D L L P L K
UniRef90_G0TS43 T G E P L R K D D L I A V R A T
UniRef90_B6K7R7 T Q Q E M S V D D L I P V K A S
UniRef90_UPI0004561620 T G D E L Q L D D L I E I K S S
UniRef90_H0ED33 N G E E L E T T D L I D L K S S
UniRef90_F2T104 T G E E H T V E D L V E L K S
UniRef90_F7W0U8 T D E E L D V E D L L P I K T
UniRef90_G4TA17 T G G K L E T D D I I A I K A
UniRef90_A0BKI9 T G R P L N F D D L I E V K
UniRef90_F1KUX5 T R E Q L S V D Q L I E L K T
UniRef90_M2Y6E8 S G E D L T E D D L I A V Q
UniRef90_W1QAI9 S G D S L S P E D L V A I Q V S
UniRef90_D7G8G6 T G E E L T A D D L L D V R S
UniRef90_G0QNG9 T N Q Q L T K E D L L P V Q T T
UniRef90_S9Q0N3 T Q Q E C S L D D L V P V K
UniRef90_G5AYE3 N N Q P L S E E Q L I D I K
UniRef90_R7Q9H2 T G E P L S T S D L I E I K K S
UniRef90_U6NZ67 T N E S L D E K Q L I P L K T
UniRef90_F0YJN6 T G N E L S V S D L L P V
UniRef90_A7TRZ5 T N E P L K L S E L V E I S Q T
UniRef90_Q2H7I1 T D E E L D P E D L L A V K T S
UniRef90_K3YEX1 T G Q P L A L A D L T P N H T
UniRef90_J7RLG7 T G Q V V S K D Q L I E L K Q
UniRef90_X6NGG6 T E Q D M T V E D L I E V K
UniRef90_C1C160 S K D P L S V S D L I P I R S S
UniRef90_A4RU49 T K E S L S V D D L I E L K A
UniRef90_G0QZ06 T Q Q S L S L D D L I P I K S
UniRef90_K4BD34 T G A P M K Q E D L I P L
UniRef90_I7JC94 S G E P L T I D D I T P I N
UniRef90_G8YBE7 T D E P C T V D D L V P L R S T
UniRef90_A7AUF8 T G E P L S Q D E L I P L
UniRef90_C1GI23 N G K P L K S S D L I K L N F
UniRef90_J3M367 T R E P L K E H Q L V P
UniRef90_D2VJM3 T G Q D L T P N D L I D V
UniRef90_G4V767 D Q Q P L A V E E L I D I K T
UniRef90_Q01GG2 T R E P L K P E Q L I P
UniRef90_Q7RXA6 T G E P L S A K D L I K L N F
UniRef90_B9T5H9 T R E P L D P S Q L V
UniRef90_W9RJI1 T G A P L K Q E D L I P L
UniRef90_G4ZL38 T G E E L D A E D L L A V R A
UniRef90_C0S614 T R T P M T I S D L R P
UniRef90_P0C1J1 T G E K L E T K N L I K L
UniRef90_G7K2I6 T G A P L K Q Q D L I P L
UniRef90_F0XZ31 T N E P L E H L H L I P A H T
UniRef90_UPI0003EAB468 T G R P V R M G D L V P N H A T
UniRef90_A0A024TTR6 T G E P L G H G Q L T P
UniRef90_F2EI93 T G R P L R L E E L V P N H A T
UniRef90_B9WGI4 T R Q E L T E D Q L Y P
UniRef90_M3AQG3 T R E P L K V D D L
UniRef90_S9U442 T G K P L T A S Q L T P
UniRef90_L8H120 T R A P L A L A D L A P N R A
UniRef90_D7FNJ7 T G E P I E R L L L V P
UniRef90_A0A024GKL0 T R Q K L T T D M L R P N N
UniRef90_W7HYK9 D G T P L A S K D L I K M N M S
UniRef90_V9E7C9 T R A P L T K S Q L H P N R A
UniRef90_I2JVC0 T G E S M T L S D I I P I E I S
UniRef90_A0A024UND7 T G E T L T V K D L I R L
UniRef90_F6ZS38 T G E K L E A K S L I K L N F
UniRef90_H2YDK8 N N Q P L S M E Q V I E M K T
UniRef90_B9RB48 T G E K L K S S E L V P N A T
UniRef90_M2RC21 T Q D P L K P S D L I S L H Y S
UniRef90_Q29M90 T S Y P I S L D D L V R I Y E T
UniRef90_S7QPD4 T Q E P L A P S D L I P L
UniRef90_G0QNQ5 T G Q D L K T Q D L I K L
UniRef90_X6L926 T G E A L S A K D L I K L K Y S
UniRef90_A0A023BCM6 S G K P L S L K D V V E V K
UniRef90_L1J5W2 T G Q P L S V K E L T K L
UniRef90_F2TXF8 T R Q P S S V D D L M P N R A
UniRef90_B8LBQ9 T G A E L A H L D L V P
UniRef90_W1NEM8 T N Q P V H E P E L I P
UniRef90_W7U452 T K E E I S S A D L V P
UniRef90_M0SUM9 T R R P L P D C E L T P N H T
UniRef90_A0A059AC52 T N Q P L P R D S L T P N H T
UniRef90_F0YG08 T N E R I V S H E V V P A H T
UniRef90_B9F6P6 T H A P L R H E D L V P
UniRef90_M0RHZ0 T R Q R L S N K S L T P
UniRef90_F0YDW7 T S A P L E P S Q L V P
UniRef90_I1L9K7 T K Q P L L P D L T P N H T
UniRef90_I1J3W0 T M H T L D K S E L A P N R T
UniRef90_I1J147 T M Q H L A S F D L T P N H T
UniRef90_M0RJ65 T N R E M E N E E L I P N H S

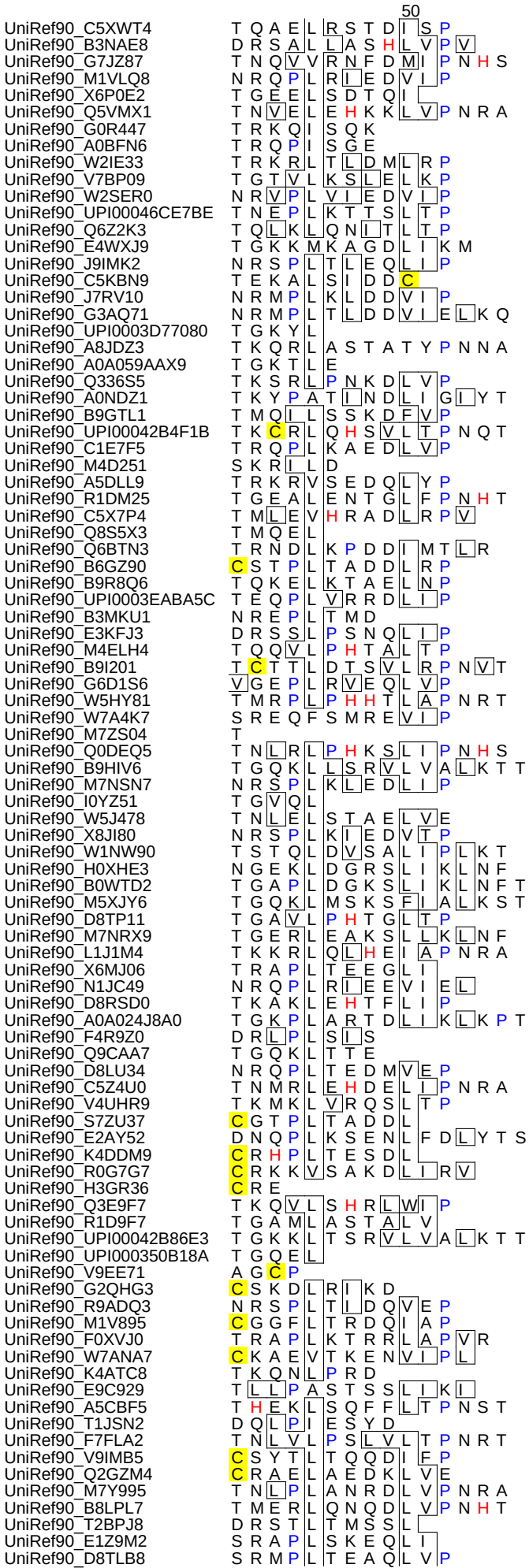

1
10
20
30
40
UniRef90_I1N2E1
UniRef90_H3G154
UniRef90_I1GFN7
UniRef90_UPI00042B5EF8
UniRef90_A9TX73
UniRef90_F2DFA0
UniRef90_UPI00019A5C37
UniRef90_U6HRU5
UniRef90_E1ZQL1
UniRef90_M8A8L4
UniRef90_UPI0002C32634
UniRef90_H2KWU5
UniRef90_A5B995
UniRef90_K4AAD0
UniRef90_W2SBP9
UniRef90_W9WEN5
UniRef90_B9H3D3
UniRef90_K3Z6K1
UniRef90_B6KR93
UniRef90_Q86EY4
UniRef90_UPI00042B01A5
UniRef90_U7PPY9
UniRef90_UPI00021A47E2
UniRef90_I1JQ94
UniRef90_G8BIP8
UniRef90_W7U9P5
UniRef90_I1HTQ2
UniRef90_M1BL61
UniRef90_Q09928
UniRef90_M7YKD8
UniRef90_A0A059AVJ7
UniRef90_F7VZ98
UniRef90_W4FZ44
UniRef90_E1ZIU2
UniRef90_R0FUF2
UniRef90_A9RWP7
UniRef90_C1FG11
UniRef90_V7B1V4
UniRef90_N4X1C7
UniRef90_UPI0003F06941
UniRef90_E5A5B2
UniRef90_R9PAF0
UniRef90_J5JPH1
UniRef90_F0YD11
UniRef90_J3N0N5
UniRef90_E0CQ50
UniRef90_A0A059C6D2
UniRef90_V7CZ18
UniRef90_R9AKC3
UniRef90_A0A059CF00
UniRef90_V4TPQ6
UniRef90_S8D2K8
UniRef90_S4RXZ5
UniRef90_X6MHU5
UniRef90_B9FZ01
UniRef90_UPI0002C35AA1
UniRef90_G3AEQ6
UniRef90_A0A022QPV8
UniRef90_M0SB21
UniRef90_M5XBW6
UniRef90_W4Z3H6
UniRef90_L1J9T7
UniRef90_A0A059BSF7
UniRef90_A9UPP3
UniRef90_E1ZNU4
UniRef90_D0NZ53
UniRef90_W9QKV1
UniRef90_M0SAJ6
UniRef90_E1ZRB2
UniRef90_C1E549
UniRef90_A0A023EZY1
UniRef90_F2TVU8
UniRef90_T0Q410
UniRef90_M0WPZ7
UniRef90_A9TVM8
UniRef90_R1FG70
UniRef90_V4U5Z6
UniRef90_L1JG02
UniRef90_F0YK07
UniRef90_R7TEK9
UniRef90_A0A059A4B6
UniRef90_A0A022Q0Z4
UniRef90_I1IXL9
UniRef90_A0DHJ7
UniRef90_M1B7R8
UniRef90_E4YBI3
UniRef90_I3S8F1
UniRef90_UPI0002C3186F
UniRef90_UPI00032A5A76
UniRef90_B7P5X3
UniRef90_A0A059DJ34
UniRef90_UPI00046DDAFC

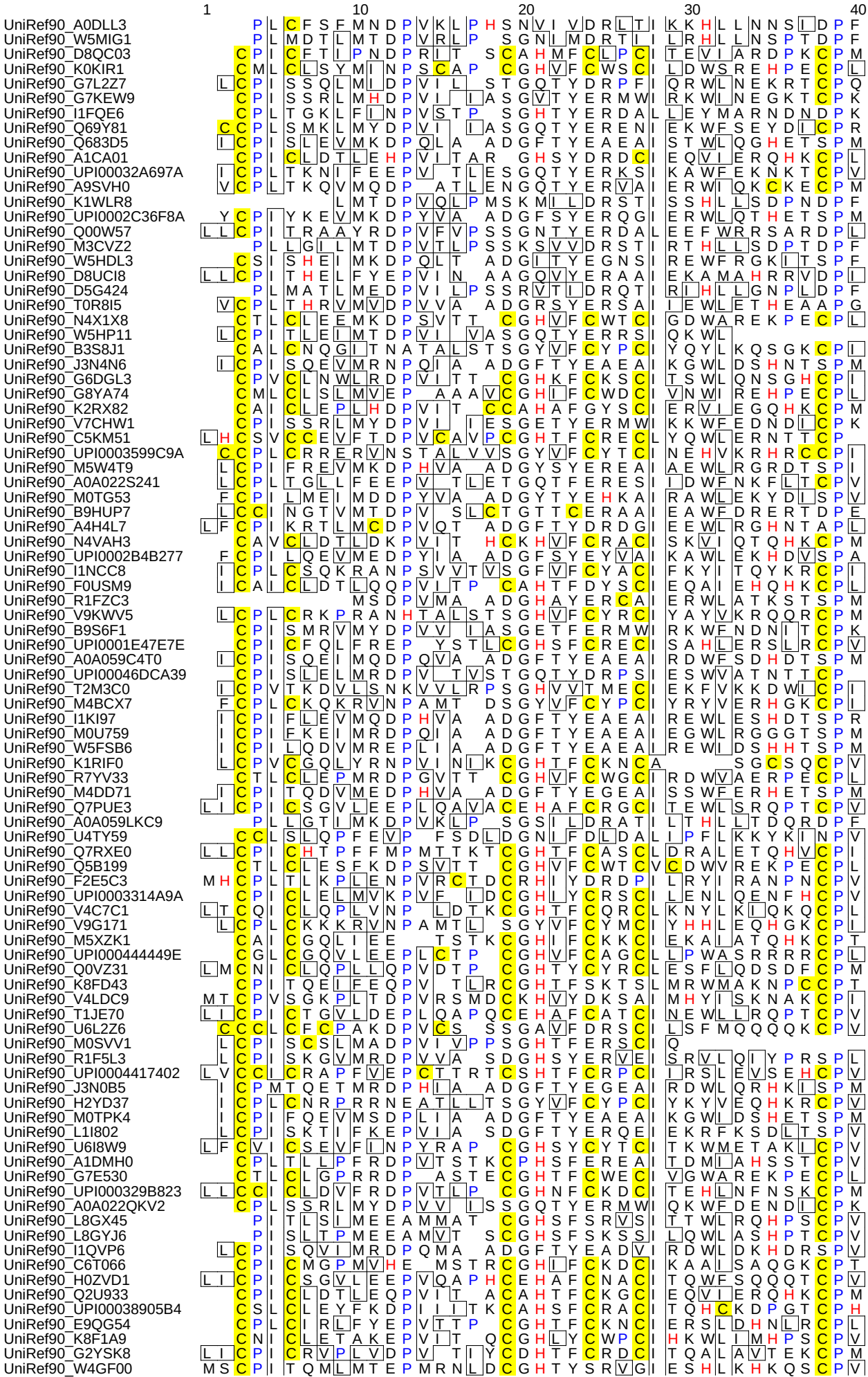

50
UniRef90_I1N2E1
UniRef90_H3G154
UniRef90_I1GFN7
UniRef90_UPI00042B5EF8
UniRef90_A9TX73
UniRef90_F2DFA0
UniRef90_UPI00019A5C37
UniRef90_U6HRU5
UniRef90_E1ZQL1
UniRef90_M8A8L4
UniRef90_UPI0002C32634
UniRef90_H2KWU5
UniRef90_A5B995
UniRef90_K4AAD0
UniRef90_W2SBP9
UniRef90_W9WEN5
UniRef90_B9H3D3
UniRef90_K3Z6K1
UniRef90_B6KR93
UniRef90_Q86EY4
UniRef90_UPI00042B01A5
UniRef90_U7PPY9
UniRef90_UPI00021A47E2
UniRef90_I1JQ94
UniRef90_G8BIP8
UniRef90_W7U9P5
UniRef90_I1HTQ2
UniRef90_M1BL61
UniRef90_Q09928
UniRef90_M7YKD8
UniRef90_A0A059AVJ7
UniRef90_F7VZ98
UniRef90_W4FZ44
UniRef90_E1ZIU2
UniRef90_R0FUF2
UniRef90_A9RWP7
UniRef90_C1FG11
UniRef90_V7B1V4
UniRef90_N4X1C7
UniRef90_UPI0003F06941
UniRef90_E5A5B2
UniRef90_R9PAF0
UniRef90_J5JPH1
UniRef90_F0YD11
UniRef90_J3N0N5
UniRef90_E0CQ50
UniRef90_A0A059C6D2
UniRef90_V7CZ18
UniRef90_R9AKC3
UniRef90_A0A059CF00
UniRef90_V4TPQ6
UniRef90_S8D2K8
UniRef90_S4RXZ5
UniRef90_X6MHU5
UniRef90_B9FZ01
UniRef90_UPI0002C35AA1
UniRef90_G3AEQ6
UniRef90_A0A022QPV8
UniRef90_M0SB21
UniRef90_M5XBW6
UniRef90_W4Z3H6
UniRef90_L1J9T7
UniRef90_A0A059BSF7
UniRef90_A9UPP3
UniRef90_E1ZNU4
UniRef90_D0NZ53
UniRef90_W9QKV1
UniRef90_M0SAJ6
UniRef90_E1ZRB2
UniRef90_C1E549
UniRef90_A0A023EZY1
UniRef90_F2TVU8
UniRef90_T0Q410
UniRef90_M0WPZ7
UniRef90_A9TVM8
UniRef90_R1FG70
UniRef90_V4U5Z6
UniRef90_L1JG02
UniRef90_F0YK07
UniRef90_R7TEK9
UniRef90_A0A059A4B6
UniRef90_A0A022Q0Z4
UniRef90_I1IXL9
UniRef90_A0DHJ7
UniRef90_M1B7R8
UniRef90_E4YBI3
UniRef90_I3S8F1
UniRef90_UPI0002C3186F
UniRef90_UPI00032A5A76
UniRef90_B7P5X3
UniRef90_A0A059DJ34
UniRef90_UPI00046DDAFC

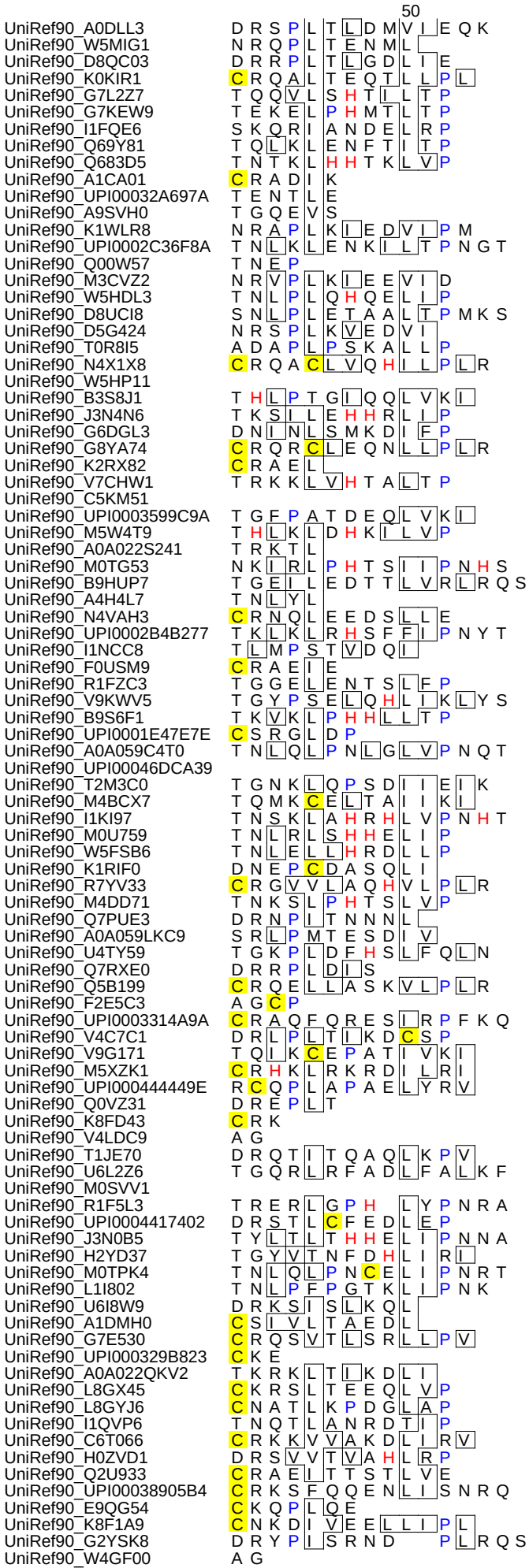

1
10
20
30
40
UniRef90_D8RFG5
UniRef90_M0TTG7
UniRef90_W1PMP7
UniRef90_A7SFB4
UniRef90_Q5UQ40
UniRef90_S9Q202
UniRef90_R1EQG1
UniRef90_UPI0000D5666C
UniRef90_M4D8Y3
UniRef90_A0A022R8B7
UniRef90_M4AAC7
UniRef90_A0A024TF72
UniRef90_W1PFR5
UniRef90_R1DRH0
UniRef90_UPI0002B42BFB
UniRef90_I1KBH4
UniRef90_S9VZQ7
UniRef90_A0A024GLQ3
UniRef90_K0RH75
UniRef90_R1BKN2
UniRef90_G9MS59
UniRef90_A0A022R7Q3
UniRef90_M0SL70
UniRef90_A0A059AM72
UniRef90_R4TII5
UniRef90_G0PKS7
UniRef90_F0ZSX2
UniRef90_M1ANL6
UniRef90_B3EU24
UniRef90_M7YM22
UniRef90_W4K798
UniRef90_B9P691
UniRef90_A8IRE1
UniRef90_F0YK89
UniRef90_A9VCT3
UniRef90_M0TEB2
UniRef90_M2W2P2
UniRef90_T0QD43
UniRef90_A8PHR7
UniRef90_M0TK17
UniRef90_A9RI76
UniRef90_D8RQ07
UniRef90_M0YIE3
UniRef90_I1FIP9
UniRef90_R1E1W4
UniRef90_UPI000180C6CE
UniRef90_V4LLV2
UniRef90_A0A022PUW4
UniRef90_F2EHL9
UniRef90_UPI00042B150B
UniRef90_N6U653
UniRef90_UPI000042EC79
UniRef90_UPI00032A9F30
UniRef90_UPI00023B28BE
UniRef90_W5ARE5
UniRef90_J3MD89
UniRef90_A4RTS6
UniRef90_I1KHS7
UniRef90_A0A059CI66
UniRef90_G3SJ12
UniRef90_D8RNN2
UniRef90_K1QD81
UniRef90_H6BTJ9
UniRef90_J3MT00
UniRef90_A0A022Q3M1
UniRef90_M0TLN8
UniRef90_K4ASS1
UniRef90_C0PSB5
UniRef90_B7FYW9
UniRef90_J3LAX4
UniRef90_UPI0003C39BE9
UniRef90_D8RKK7
UniRef90_B4MM21
UniRef90_L1J9I5
UniRef90_U5CS89
UniRef90_R1D4U6
UniRef90_B7G1K5
UniRef90_A0A022R8I9
UniRef90_T1R384
UniRef90_D8T750
UniRef90_B0G146
UniRef90_A9T365
UniRef90_R7WA42
UniRef90_Q22GY2
UniRef90_H8X312
UniRef90_Q0TYP6
UniRef90_UPI000455DA52
UniRef90_B4KIR6
UniRef90_V4TAM4
UniRef90_M7WZM3
UniRef90_I1HYS1
UniRef90_I0Z1A7

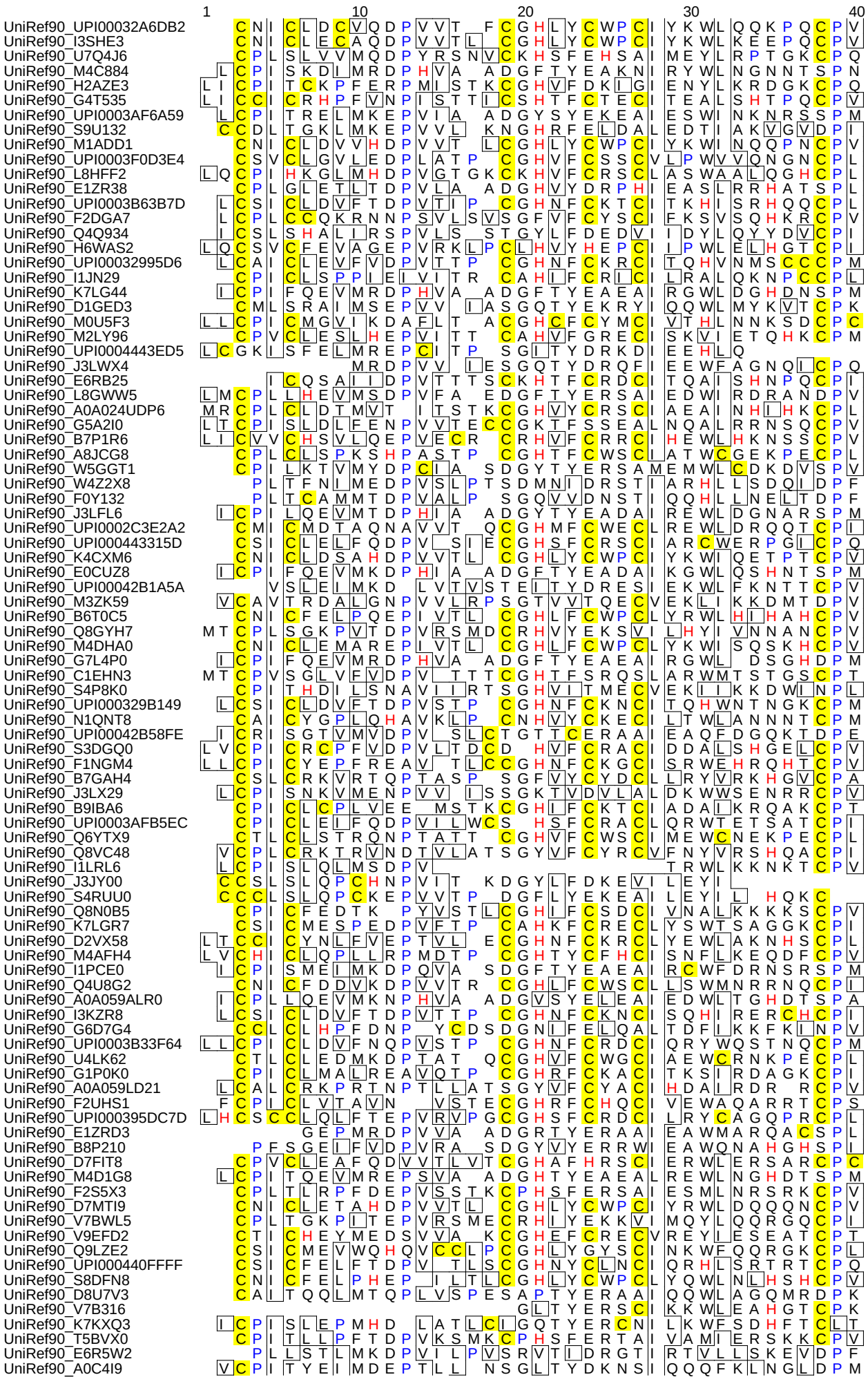

50
UniRef90_D8RFG5 T G K P L A H I N L I P N Y T
UniRef90_M0TTG7 S G Q S L A H L E L V P N R A
UniRef90_W1PMP7 S G Q K L L H M A L I P
UniRef90_A7SFB4 T N A P L R N S T L T P N R
UniRef90_Q5UQ40 T N E K I S K K
UniRef90_S9Q202 T G E K A A L S N L I K L N F S
UniRef90_R1EQG1 T R E A L E H T H T F P
UniRef90_UPI0000D5666C T N L P A K P L D I V R I
UniRef90_M4D8Y3 T D S P F P N Q T L L P N H S
UniRef90_A0A022R8B7 T Q Q A L T S T A L T P
UniRef90_M4AAC7 T N L P L Q T T L L T P N R S
UniRef90_A0A024TF72 T R E A L R V H Q L R P
UniRef90_W1PFR5 T G V T L T H S H I F P N N A
UniRef90_R1DRH0 T G G E L D H T C I F P N H S
UniRef90_UPI0002B42BFB T G Q K L E N T Q L
UniRef90_I1KBH4 T M Q L L H T K D F I P N R T
UniRef90_S9VZQ7 N R T P L T L D D V T P
UniRef90_A0A024GLQ3 T R A S L T I E Q L V P
UniRef90_K0RH75 S G N K L A T R D L I T L N
UniRef90_R1BKN2 T G E T L Q H T H T F P
UniRef90_G9MS59 C R N P L T E D N L L E
UniRef90_A0A022R7Q3 T K Q A L T P S E L T P
UniRef90_M0SL70 T R Q T L A H L S L A P
UniRef90_A0A059AM72 T R Q T L G H T N L I P N Y T
UniRef90_R4TII5 D R S A M S A D G L L P
UniRef90_G0PKS7 N R A P L T Q A E L V P
UniRef90_F0ZSX2 C N N S L Q V D E L T P N Y T
UniRef90_M1ANL6 T N Q A L A H S N L I P N Y T
UniRef90_B3EU24 T G A R L L S T E L T P N Y T
UniRef90_M7YM22 T Q K K L E N F A M I P
UniRef90_W4K798 N R A P L K I E D V I P
UniRef90_B9P691 T K
UniRef90_A8IRE1 T G H E V S P E E V F P
UniRef90_F0YK89 T N A P L A S T A L V P
UniRef90_A9VCT3 T G Q Q L P D K V L R P
UniRef90_M0TEB2 T K R A L P D C E V T P N H T
UniRef90_M2W2P2 T G E
UniRef90_T0QD43 T R E K L T R A Q L R P
UniRef90_A8PHR7 T R Q P L S E T Q L V S L K T
UniRef90_M0TK17 T M Q R L H D K S L V P N H T
UniRef90_A9RI76 S G Q K L G H V N L I P
UniRef90_D8RQ07 S G Q K L I H L G L I P
UniRef90_M0YIE3 T R Q R L A H S N L I P N Y T
UniRef90_I1FIP9 N R H P L T V E M L Q P
UniRef90_R1E1W4 S G A V L E H T D L V P
UniRef90_UPI000180C6CE T N K A L V N R N L F P N Q T
UniRef90_V4LLV2 T D L P L Q N M N L L P N H T
UniRef90_A0A022PUW4 T D L Q L P H K Y L I P N Y T
UniRef90_F2EHL9 N R S Q L T Q D M L I P
UniRef90_UPI00042B150B T R Q N L Q S T Q L
UniRef90_N6U653 D R Q T L T T A Q L T Q V
UniRef90_UPI000042EC79 T G K P L E T S Q L I K L N F S
UniRef90_UPI00032A9F30 T K H K L L H S E L I P N H T
UniRef90_UPI00023B28BE T M Q R I N S F D I T P N H T
UniRef90_W5ARE5 T R K E L
UniRef90_J3MD89 T K M S M Q S K T L V P L K S T
UniRef90_A4RTS6 S G E A L A V K D L V R L N
UniRef90_I1KHS7 T L I P L D T S I L R P N K
UniRef90_A0A059CI66 T N N P L S T L D L F P N Q A
UniRef90_G3SJ12 T W S P L T Q K Q F I P
UniRef90_D8RNN2 T R Q L L K
UniRef90_K1QD81 N R S P L S L D M V T P L K T
UniRef90_H6BTJ9 T G L P V A D T Q L
UniRef90_J3MT00 T G E K L R R A D V V P
UniRef90_A0A022Q3M1 T Q Q V L T H T T L A P
UniRef90_M0TLN8 T Q Q H L S H L C L T P
UniRef90_K4ASS1 T K L H V S R D D L T P N H T
UniRef90_C0PSB5 T Q Q V L P H M T L T P
UniRef90_B7FYW9 T G E P A T S R D I V T L
UniRef90_J3LAX4 T R R V L P D S S V I P N H S
UniRef90_UPI0003C39BE9 T G Y A I T M E D L V R I Y E T
UniRef90_D8RKK7 T M Q P L H Q N H L V P N N A
UniRef90_B4MM21 D R T E L L S G Q L V P
UniRef90_L1J9I5 T G A C L P S N H L V P
UniRef90_U5CS89 T N L A M D P D L T P N H T
UniRef90_R1D4U6 T G K A L E N T G V F P
UniRef90_B7G1K5 T R Q P L R M R D V I
UniRef90_A0A022R8I9 T L R E L R S T E L N P
UniRef90_T1R384 S G Q R L I H M A L I P
UniRef90_D8T750 T N L R L E H K Q L T P
UniRef90_B0G146 T N K P S T M K D Y F P I T F S
UniRef90_A9T365 T K V E L E N L Q I
UniRef90_R7WA42 T K A P L
UniRef90_Q22GY2 C R K Q C Q K E D L V P
UniRef90_H8X312 N R V P L K L E D V I D L K A
UniRef90_Q0TYP6 T N L V L S N L D L R P
UniRef90_UPI000455DA52 D R F P L S P D D L V P
UniRef90_B4KIR6 D R S D L L P I H L I P V
UniRef90_V4TAM4 T R Q T L A H L S I A P
UniRef90_M7WZM3 N R Q P L R W E D I
UniRef90_I1HYS1 T R R K L P N L S I I P N H S
UniRef90_I0Z1A7 T G T V L A A


1
10
20
30
40
UniRef90_C5XWT4
UniRef90_B3NAE8
UniRef90_G7JZ87
UniRef90_M1VLQ8
UniRef90_X6P0E2
UniRef90_Q5VMX1
UniRef90_G0R447
UniRef90_A0BFN6
UniRef90_W2IE33
UniRef90_V7BP09
UniRef90_W2SER0
UniRef90_UPI00046CE7BE
UniRef90_Q6Z2K3
UniRef90_E4WXJ9
UniRef90_J9IMK2
UniRef90_C5KBN9
UniRef90_J7RV10
UniRef90_G3AQ71
UniRef90_UPI0003D77080
UniRef90_A8JDZ3
UniRef90_A0A059AAX9
UniRef90_Q336S5
UniRef90_A0NDZ1
UniRef90_B9GTL1
UniRef90_UPI00042B4F1B
UniRef90_C1E7F5
UniRef90_M4D251
UniRef90_A5DLL9
UniRef90_R1DM25
UniRef90_C5X7P4
UniRef90_Q8S5X3
UniRef90_Q6BTN3
UniRef90_B6GZ90
UniRef90_B9R8Q6
UniRef90_UPI0003EABA5C
UniRef90_B3MKU1
UniRef90_E3KFJ3
UniRef90_M4ELH4
UniRef90_B9I201
UniRef90_G6D1S6
UniRef90_W5HY81
UniRef90_W7A4K7
UniRef90_M7ZS04
UniRef90_Q0DEQ5
UniRef90_B9HIV6
UniRef90_M7NSN7
UniRef90_I0YZ51
UniRef90_W5J478
UniRef90_X8JI80
UniRef90_W1NW90
UniRef90_H0XHE3
UniRef90_B0WTD2
UniRef90_M5XJY6
UniRef90_D8TP11
UniRef90_M7NRX9
UniRef90_L1J1M4
UniRef90_X6MJ06
UniRef90_N1JC49
UniRef90_D8RSD0
UniRef90_A0A024J8A0
UniRef90_F4R9Z0
UniRef90_Q9CAA7
UniRef90_D8LU34
UniRef90_C5Z4U0
UniRef90_V4UHR9
UniRef90_S7ZU37
UniRef90_E2AY52
UniRef90_K4DDM9
UniRef90_R0G7G7
UniRef90_H3GR36
UniRef90_Q3E9F7
UniRef90_R1D9F7
UniRef90_UPI00042B86E3
UniRef90_UPI000350B18A
UniRef90_V9EE71
UniRef90_G2QHG3
UniRef90_R9ADQ3
UniRef90_M1V895
UniRef90_F0XVJ0
UniRef90_W7ANA7
UniRef90_K4ATC8
UniRef90_E9C929
UniRef90_A5CBF5
UniRef90_T1JSN2
UniRef90_F7FLA2
UniRef90_V9IMB5
UniRef90_Q2GZM4
UniRef90_M7Y995
UniRef90_B8LPL7
UniRef90_T2BPJ8
UniRef90_E1Z9M2
UniRef90_D8TLB8

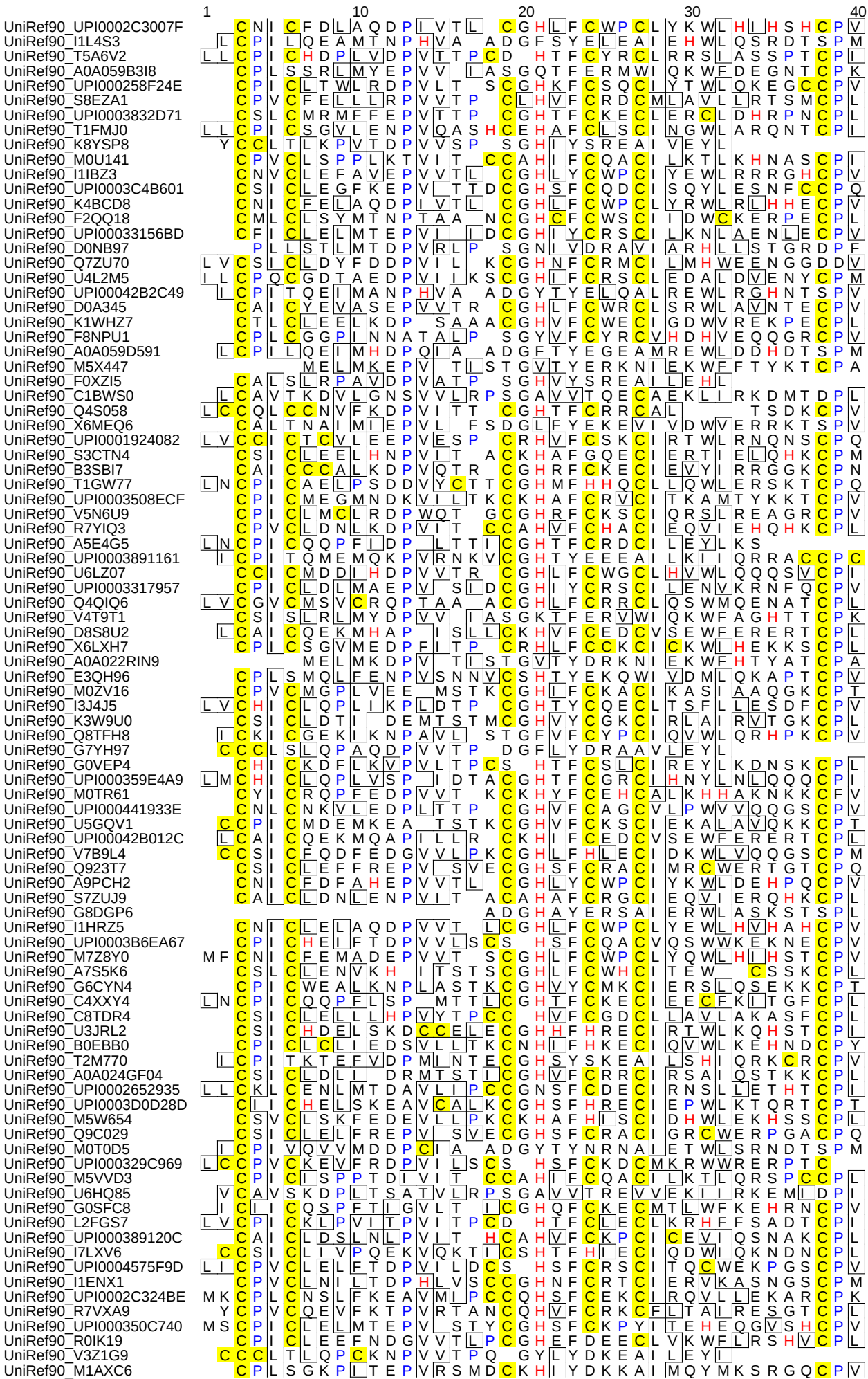

50
UniRef90_C5XWT4 T Q A E L R S T D I S P
UniRef90_B3NAE8 D R S A L L A S H L V P V
UniRef90_G7JZ87 T N Q V V R N F D M I P N H S
UniRef90_M1VLQ8 N R Q P L R I E D V I P
UniRef90_X6P0E2 T G E E L S D T Q I
UniRef90_Q5VMX1 T N V E L E H K K L V P N R A
UniRef90_G0R447 T R K Q I S Q K
UniRef90_A0BFN6 T R Q P I S G E
UniRef90_W2IE33 T R K R L T L D M L R P
UniRef90_V7BP09 T G T V L K S L E L K P
UniRef90_W2SER0 N R V P L V I E D V I P
UniRef90_UPI00046CE7BE T N E P L K T T S L T P
UniRef90_Q6Z2K3 T Q L K L Q N I T L T P
UniRef90_E4WXJ9 T G K K M K A G D L I K M
UniRef90_J9IMK2 N R S P L T L E Q L I P
UniRef90_C5KBN9 T E K A L S I D D C
UniRef90_J7RV10 N R M P L K L D D V I P
UniRef90_G3AQ71 N R M P L T L D D V I E L K Q
UniRef90_UPI0003D77080 T G K Y L
UniRef90_A8JDZ3 T K Q R L A S T A T Y P N N A
UniRef90_A0A059AAX9 T G K T L E
UniRef90_Q336S5 T K S R L P N K D L V P
UniRef90_A0NDZ1 T K Y P A T I N D L I G I Y T
UniRef90_B9GTL1 T M Q I L S S K D F V P
UniRef90_UPI00042B4F1B T K C R L Q H S V L T P N Q T
UniRef90_C1E7F5 T R Q P L K A E D L V P
UniRef90_M4D251 S K R I L D
UniRef90_A5DLL9 T R K R V S E D Q L Y P
UniRef90_R1DM25 T G E A L E N T G L F P N H T
UniRef90_C5X7P4 T M L E V H R A D L R P V
UniRef90_Q8S5X3 T M Q E L
UniRef90_Q6BTN3 T R N D L K P D D I M T L R
UniRef90_B6GZ90 C S T P L T A D D L R P
UniRef90_B9R8Q6 T Q K E L K T A E L N P
UniRef90_UPI0003EABA5C T E Q P L V R R D L I P
UniRef90_B3MKU1 N R E P L T M D
UniRef90_E3KFJ3 D R S S L P S N Q L I P
UniRef90_M4ELH4 T Q Q V L P H T A L T P
UniRef90_B9I201 T C T T L D T S V L R P N V T
UniRef90_G6D1S6 V G E P L R V E Q L V P
UniRef90_W5HY81 T M R P L P H H T L A P N R T
UniRef90_W7A4K7 S R E Q F S M R E V I P
UniRef90_M7ZS04 T
UniRef90_Q0DEQ5 T N L R L P H K S L I P N H S
UniRef90_B9HIV6 T G Q K L L S R V L V A L K T T
UniRef90_M7NSN7 N R S P L K L E D L I P
UniRef90_I0YZ51 T G V Q L
UniRef90_W5J478 T N L E L S T A E L V E
UniRef90_X8JI80 N R S P L K I E D V T P
UniRef90_W1NW90 T S T Q L D V S A L I P L K T
UniRef90_H0XHE3 N G E K L D G R S L I K L N F
UniRef90_B0WTD2 T G A P L D G K S L I K L N F T
UniRef90_M5XJY6 T G Q K L M S K S F I A L K S T
UniRef90_D8TP11 T G A V L P H T G L T P
UniRef90_M7NRX9 T G E R L E A K S L L K L N F
UniRef90_L1J1M4 T K K R L Q L H E I A P N R A
UniRef90_X6MJ06 T R A P L T E E G L I
UniRef90_N1JC49 N R Q P L R I E E V I E L
UniRef90_D8RSD0 T K A K L E H T F L I P
UniRef90_A0A024J8A0 T G K P L A R T D L I K L K P T
UniRef90_F4R9Z0 D R L P L S I S
UniRef90_Q9CAA7 T G Q K L T T E
UniRef90_D8LU34 N R Q P L T E D M V E P
UniRef90_C5Z4U0 T N M R L E H D E L I P N R A
UniRef90_V4UHR9 T K M K L V R Q S L T P
UniRef90_S7ZU37 C G T P L T A D D L
UniRef90_E2AY52 D N Q P L K S E N L F D L Y T S
UniRef90_K4DDM9 C R H P L T E S D L
UniRef90_R0G7G7 C R K K V S A K D L I R V
UniRef90_H3GR36 C R E
UniRef90_Q3E9F7 T K Q V L S H R L W I P
UniRef90_R1D9F7 T G A M L A S T A L V
UniRef90_UPI00042B86E3 T G K K L T S R V L V A L K T T
UniRef90_UPI000350B18A T G Q E L
UniRef90_V9EE71 A G C P
UniRef90_G2QHG3 C S K D L R I K D
UniRef90_R9ADQ3 N R S P L T I D Q V E P
UniRef90_M1V895 C G G F L T R D Q I A P
UniRef90_F0XVJ0 T R A P L K T R R L A P V R
UniRef90_W7ANA7 C K A E V T K E N V I P L
UniRef90_K4ATC8 T K Q N L P R D
UniRef90_E9C929 T L L P A S T S S L I K I
UniRef90_A5CBF5 T H E K L S Q F F L T P N S T
UniRef90_T1JSN2 D Q L P I E S Y D
UniRef90_F7FLA2 T N L V L P S L V L T P N R T
UniRef90_V9IMB5 C S Y T L T Q Q D I F P
UniRef90_Q2GZM4 C R A E L A E D K L V E
UniRef90_M7Y995 T N L P L A N R D L V P N R A
UniRef90_B8LPL7 T M E R L Q N Q D L V P N H T
UniRef90_T2BPJ8 D R S T L T M S S L
UniRef90_E1Z9M2 S R A P L S K E Q L I
UniRef90_D8TLB8 S R M P L T E A Q L V P

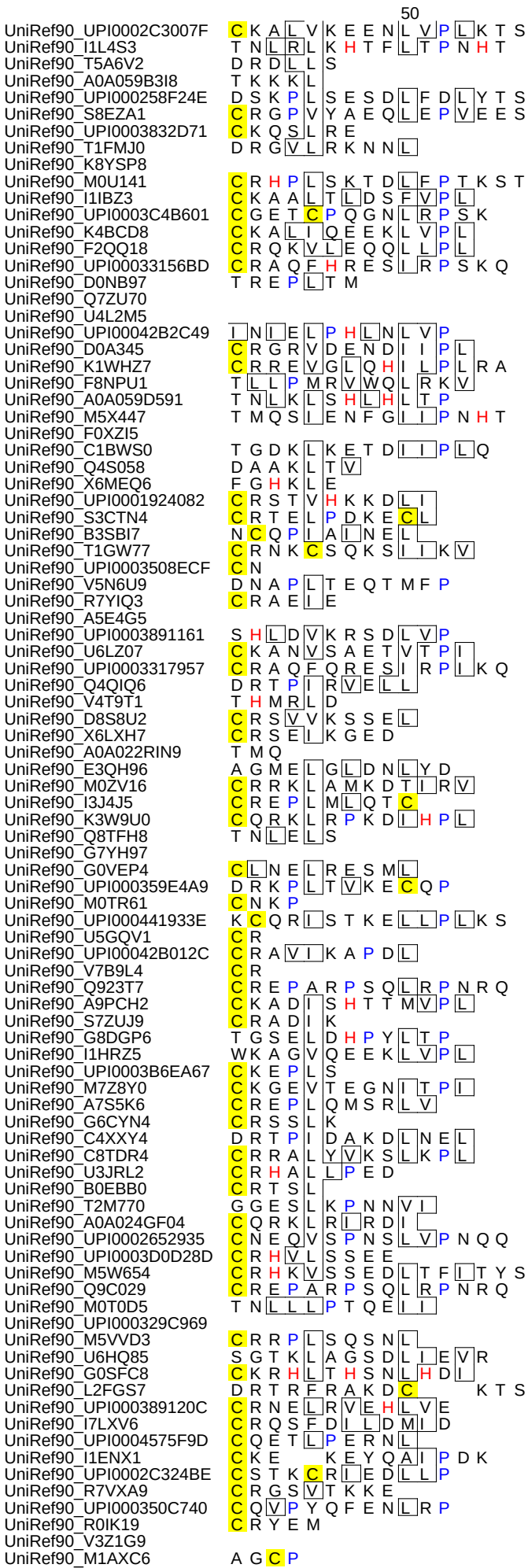

1
10
20
30
40
UniRef90_A0DLL3
UniRef90_W5MIG1
UniRef90_D8QC03
UniRef90_K0KIR1
UniRef90_G7L2Z7
UniRef90_G7KEW9
UniRef90_I1FQE6
UniRef90_Q69Y81
UniRef90_Q683D5
UniRef90_A1CA01
UniRef90_UPI00032A697A
UniRef90_A9SVH0
UniRef90_K1WLR8
UniRef90_UPI0002C36F8A
UniRef90_Q00W57
UniRef90_M3CVZ2
UniRef90_W5HDL3
UniRef90_D8UCI8
UniRef90_D5G424
UniRef90_T0R8I5
UniRef90_N4X1X8
UniRef90_W5HP11
UniRef90_B3S8J1
UniRef90_J3N4N6
UniRef90_G6DGL3
UniRef90_G8YA74
UniRef90_K2RX82
UniRef90_V7CHW1
UniRef90_C5KM51
UniRef90_UPI0003599C9A
UniRef90_M5W4T9
UniRef90_A0A022S241
UniRef90_M0TG53
UniRef90_B9HUP7
UniRef90_A4H4L7
UniRef90_N4VAH3
UniRef90_UPI0002B4B277
UniRef90_I1NCC8
UniRef90_F0USM9
UniRef90_R1FZC3
UniRef90_V9KWV5
UniRef90_B9S6F1
UniRef90_UPI0001E47E7E
UniRef90_A0A059C4T0
UniRef90_UPI00046DCA39
UniRef90_T2M3C0
UniRef90_M4BCX7
UniRef90_I1KI97
UniRef90_M0U759
UniRef90_W5FSB6
UniRef90_K1RIF0
UniRef90_R7YV33
UniRef90_M4DD71
UniRef90_Q7PUE3
UniRef90_A0A059LKC9
UniRef90_U4TY59
UniRef90_Q7RXE0
UniRef90_Q5B199
UniRef90_F2E5C3
UniRef90_UPI0003314A9A
UniRef90_V4C7C1
UniRef90_V9G171
UniRef90_M5XZK1
UniRef90_UPI000444449E
UniRef90_Q0VZ31
UniRef90_K8FD43
UniRef90_V4LDC9
UniRef90_T1JE70
UniRef90_U6L2Z6
UniRef90_M0SVV1
UniRef90_R1F5L3
UniRef90_UPI0004417402
UniRef90_J3N0B5
UniRef90_H2YD37
UniRef90_M0TPK4
UniRef90_L1I802
UniRef90_U6I8W9
UniRef90_A1DMH0
UniRef90_G7E530
UniRef90_UPI000329B823
UniRef90_A0A022QKV2
UniRef90_L8GX45
UniRef90_L8GYJ6
UniRef90_I1QVP6
UniRef90_C6T066
UniRef90_H0ZVD1
UniRef90_Q2U933
UniRef90_UPI00038905B4
UniRef90_E9QG54
UniRef90_K8F1A9
UniRef90_G2YSK8
UniRef90_W4GF00

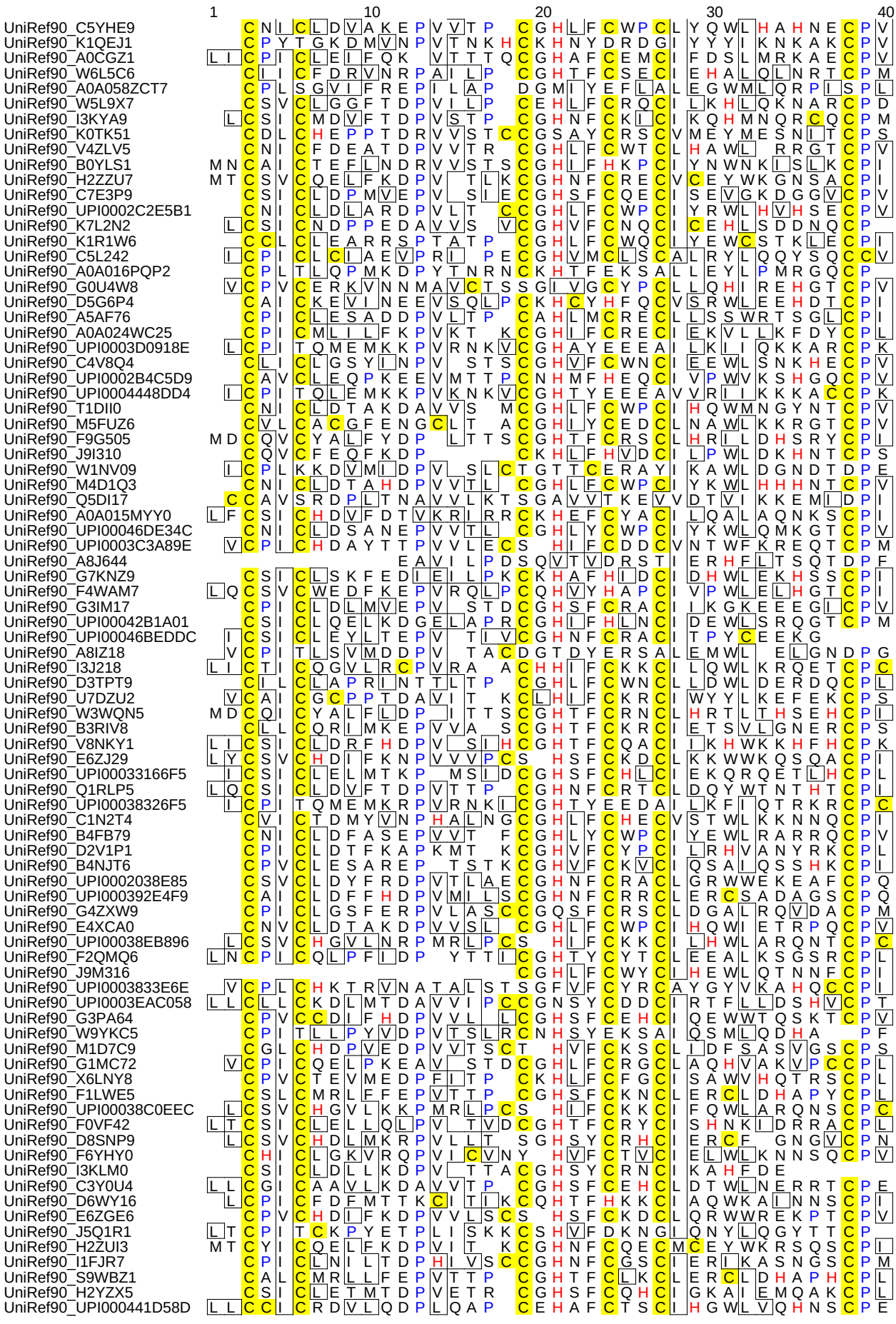

50
UniRef90_A0DLL3 D R S P L T L D M V I E Q K
UniRef90_W5MIG1 N R Q P L T E N M L
UniRef90_D8QC03 D R R P L T L G D L I E
UniRef90_K0KIR1 C R Q A L T E Q T L L P L
UniRef90_G7L2Z7 T Q Q V L S H T I L T P
UniRef90_G7KEW9 T E K E L P H M T L T P
UniRef90_I1FQE6 S K Q R I A N D E L R P
UniRef90_Q69Y81 T Q L K L E N F T I T P
UniRef90_Q683D5 T N T K L H H T K L V P
UniRef90_A1CA01 C R A D I K
UniRef90_UPI00032A697A T E N T L E
UniRef90_A9SVH0 T G Q E V S
UniRef90_K1WLR8 N R A P L K I E D V I P M
UniRef90_UPI0002C36F8A T N L K L E N K I L T P N G T
UniRef90_Q00W57 T N E P
UniRef90_M3CVZ2 N R V P L K I E E V I D
UniRef90_W5HDL3 T N L P L Q H Q E L I P
UniRef90_D8UCI8 S N L P L E T A A L T P M K S
UniRef90_D5G424 N R S P L K V E D V I
UniRef90_T0R8I5 A D A P L P S K A L L P
UniRef90_N4X1X8 C R Q A C L V Q H I L P L R
UniRef90_W5HP11
UniRef90_B3S8J1 T H L P T G I Q Q L V K I
UniRef90_J3N4N6 T K S I L E H H R L I P
UniRef90_G6DGL3 D N I N L S M K D I F P
UniRef90_G8YA74 C R Q R C L E Q N L L P L R
UniRef90_K2RX82 C R A E L
UniRef90_V7CHW1 T R K K L V H T A L T P
UniRef90_C5KM51
UniRef90_UPI0003599C9A T G F P A T D E Q L V K I
UniRef90_M5W4T9 T H L K L D H K I L V P
UniRef90_A0A022S241 T R K T L
UniRef90_M0TG53 N K I R L P H T S I I P N H S
UniRef90_B9HUP7 T G E I L E D T T L V R L R Q S
UniRef90_A4H4L7 T N L Y L
UniRef90_N4VAH3 C R N Q L E E D S L L E
UniRef90_UPI0002B4B277 T K L K L R H S F F I P N Y T
UniRef90_I1NCC8 T L M P S T V D Q I
UniRef90_F0USM9 C R A E I E
UniRef90_R1FZC3 T G G E L E N T S L F P
UniRef90_V9KWV5 T G Y P S E L Q H L I K L Y S
UniRef90_B9S6F1 T K V K L P H H L L T P
UniRef90_UPI0001E47E7E C S R G L D P
UniRef90_A0A059C4T0 T N L Q L P N L G L V P N Q T
UniRef90_UPI00046DCA39
UniRef90_T2M3C0 T G N K L Q P S D I I E I K
UniRef90_M4BCX7 T Q M K C E L T A I I K I
UniRef90_I1KI97 T N S K L A H R H L V P N H T
UniRef90_M0U759 T N L R L S H H E L I P
UniRef90_W5FSB6 T N L E L L H R D L L P
UniRef90_K1RIF0 D N E P C D A S Q L I
UniRef90_R7YV33 C R G V V L A Q H V L P L R
UniRef90_M4DD71 T N K S L P H T S L V P
UniRef90_Q7PUE3 D R N P I T N N N L
UniRef90_A0A059LKC9 S R L P M T E S D I V
UniRef90_U4TY59 T G K P L D F H S L F Q L N
UniRef90_Q7RXE0 D R R P L D I S
UniRef90_Q5B199 C R Q E L L A S K V L P L R
UniRef90_F2E5C3 A G C P
UniRef90_UPI0003314A9A C R A Q F Q R E S I R P F K Q
UniRef90_V4C7C1 D R L P L T I K D C S P
UniRef90_V9G171 T Q I K C E P A T I V K I
UniRef90_M5XZK1 C R H K L R K R D I L R I
UniRef90_UPI000444449E R C Q P L A P A E L Y R V
UniRef90_Q0VZ31 D R E P L T
UniRef90_K8FD43 C R K
UniRef90_V4LDC9 A G
UniRef90_T1JE70 D R Q T I T Q A Q L K P V
UniRef90_U6L2Z6 T G Q R L R F A D L F A L K F
UniRef90_M0SVV1
UniRef90_R1F5L3 T R E R L G P H L Y P N R A
UniRef90_UPI0004417402 D R S T L C F E D L E P
UniRef90_J3N0B5 T Y L T L T H H E L I P N N A
UniRef90_H2YD37 T G Y V T N F D H L I R I
UniRef90_M0TPK4 T N L Q L P N C E L I P N R T
UniRef90_L1I802 T N L P F P G T K L I P N K
UniRef90_U6I8W9 D R K S I S L K Q L
UniRef90_A1DMH0 C S I V L T A E D L
UniRef90_G7E530 C R Q S V T L S R L L P V
UniRef90_UPI000329B823 C K E
UniRef90_A0A022QKV2 T K R K L T I K D L I
UniRef90_L8GX45 C K R S L T E E Q L V P
UniRef90_L8GYJ6 C N A T L K P D G L A P
UniRef90_I1QVP6 T N Q T L A N R D T I P
UniRef90_C6T066 C R K K V V A K D L I R V
UniRef90_H0ZVD1 D R S V V T V A H L R P
UniRef90_Q2U933 C R A E I T T S T L V E
UniRef90_UPI00038905B4 C R K S F Q Q E N L I S N R Q
UniRef90_E9QG54 C K Q P L Q E
UniRef90_K8F1A9 C N K D I V E E L L I P L
UniRef90_G2YSK8 D R Y P I S R N D P L R Q S
UniRef90_W4GF00 A G


1
10
20
30
40
UniRef90_UPI00032A6DB2
UniRef90_I3SHE3
UniRef90_U7Q4J6
UniRef90_M4C884
UniRef90_H2AZE3
UniRef90_G4T535
UniRef90_UPI0003AF6A59
UniRef90_S9U132
UniRef90_M1ADD1
UniRef90_UPI0003F0D3E4
UniRef90_L8HFF2
UniRef90_E1ZR38
UniRef90_UPI0003B63B7D
UniRef90_F2DGA7
UniRef90_Q4Q934
UniRef90_H6WAS2
UniRef90_UPI00032995D6
UniRef90_I1JN29
UniRef90_K7LG44
UniRef90_D1GED3
UniRef90_M0U5F3
UniRef90_M2LY96
UniRef90_UPI0004443ED5
UniRef90_J3LWX4
UniRef90_E6RB25
UniRef90_L8GWW5
UniRef90_A0A024UDP6
UniRef90_G5A2I0
UniRef90_B7P1R6
UniRef90_A8JCG8
UniRef90_W5GGT1
UniRef90_W4Z2X8
UniRef90_F0Y132
UniRef90_J3LFL6
UniRef90_UPI0002C3E2A2
UniRef90_UPI000443315D
UniRef90_K4CXM6
UniRef90_E0CUZ8
UniRef90_UPI00042B1A5A
UniRef90_M3ZK59
UniRef90_B6T0C5
UniRef90_Q8GYH7
UniRef90_M4DHA0
UniRef90_G7L4P0
UniRef90_C1EHN3
UniRef90_S4P8K0
UniRef90_UPI000329B149
UniRef90_N1QNT8
UniRef90_UPI00042B58FE
UniRef90_S3DGQ0
UniRef90_F1NGM4
UniRef90_B7GAH4
UniRef90_J3LX29
UniRef90_B9IBA6
UniRef90_UPI0003AFB5EC
UniRef90_Q6YTX9
UniRef90_Q8VC48
UniRef90_I1LRL6
UniRef90_J3JY00
UniRef90_S4RUU0
UniRef90_Q8N0B5
UniRef90_K7LGR7
UniRef90_D2VX58
UniRef90_M4AFH4
UniRef90_I1PCE0
UniRef90_Q4U8G2
UniRef90_A0A059ALR0
UniRef90_I3KZR8
UniRef90_G6D7G4
UniRef90_UPI0003B33F64
UniRef90_U4LK62
UniRef90_G1P0K0
UniRef90_A0A059LD21
UniRef90_F2UHS1
UniRef90_UPI000395DC7D
UniRef90_E1ZRD3
UniRef90_B8P210
UniRef90_D7FIT8
UniRef90_M4D1G8
UniRef90_F2S5X3
UniRef90_D7MTI9
UniRef90_V7BWL5
UniRef90_V9EFD2
UniRef90_Q9LZE2
UniRef90_UPI000440FFFF
UniRef90_S8DFN8
UniRef90_D8U7V3
UniRef90_V7B316
UniRef90_K7KXQ3
UniRef90_T5BVX0
UniRef90_E6R5W2
UniRef90_A0C4I9

```
                                                  50
UniRef90_UPI00032A6DB2  C K S E L S Q S S L V P L
UniRef90_I3SHE3         C K S E I S K S S L V P L
UniRef90_U7Q4J6         T G K E F T A L D L V P
UniRef90_M4C884         T G A R L A H R D L T P N Y T
UniRef90_H2AZE3         A G H T L K M S D
UniRef90_G4T535         D R S S L Q K S D L K P
UniRef90_UPI0003AF6A59
UniRef90_S9U132         S G E T F D E D E M I
UniRef90_M1ADD1         C K A E V S Q K T L I P L
UniRef90_UPI0003F0D3E4  K C E N F S P K E L
UniRef90_L8HFF2         D A R P     A Q L V P
UniRef90_E1ZR38         T G A A M P D A S L R E V R
UniRef90_UPI0003B63B7D  C K E Q F D P K P A L R I N T
UniRef90_F2DGA7         T L M P A T V E Q I
UniRef90_Q4Q934         S G A S M S R A D L V
UniRef90_H6WAS2         C R S S L T P E D
UniRef90_UPI00032995D6  C K E
UniRef90_I1JN29         C R R R L K E S D L
UniRef90_K7LG44         T N S K L A H H N L V P N R A
UniRef90_D1GED3         T K E V L S H
UniRef90_M0U5F3         C G N Y L T K S H L Y P
UniRef90_M2LY96         C R A D L
UniRef90_UPI0004443ED5
UniRef90_J3LWX4         T Q Q V L S H T I L I P N Q
UniRef90_E6RB25         D R S A L T M E Q L V K L
UniRef90_L8GWW5         T G
UniRef90_A0A024UDP6     C S R E L S L R D I H P V
UniRef90_G5A2I0         C R A
UniRef90_B7P1R6         C R K R V L A S S L V P
UniRef90_A8JCG8         C R A P V A L Q Q L V A L
UniRef90_W5GGT1         T K A R L R D K T L L P
UniRef90_W4Z2X8         N R K P L T M E E
UniRef90_F0Y132         S R T P M E P K D V T P L
UniRef90_J3LFL6         T N L R L E H R E L T P N R
UniRef90_UPI0002C3E2A2  C K S R V T E D T V I P I Y N S
UniRef90_UPI000443315D  C R E P A R P S Q L R P N R Q
UniRef90_K4CXM6         C K S H I S N S S L V P L
UniRef90_E0CUZ8         T N L K L S D C N L L P
UniRef90_UPI00042B1A5A  T K Q V I V D C D L T P N H T
UniRef90_M3ZK59         S G A K L T E R D I V P L Q
UniRef90_B6T0C5         C K A L V E E D K L V P L
UniRef90_Q8GYH7         A G
UniRef90_M4DHA0         C K A P V K E D S L V P L Y G S
UniRef90_G7L4P0         T N S T L S H Q N L V P N R A
UniRef90_C1EHN3         C R A P L
UniRef90_S4P8K0         T G D K L K E K D I I P L Q
UniRef90_UPI000329B149  C N
UniRef90_N1QNT8         D R S V L
UniRef90_UPI00042B58FE  T G D V L E V T S L L P L R Q S
UniRef90_S3DGQ0         D R L P L S
UniRef90_F1NGM4         C K E T S S F D D L
UniRef90_B7GAH4         T N M Q C T E A N F V R I
UniRef90_J3LX29         T D E I L D D N I F I P
UniRef90_B9IBA6         C R K R V T N K E L I R V
UniRef90_UPI0003AFB5EC  C R K
UniRef90_Q6YTX9         C R T P I T H S S L I C I Y H S
UniRef90_Q8VC48         T G Y P T E V Q H L I K L Y S
UniRef90_I1LRL6         T R Q S L P H T D L T P N H T
UniRef90_J3JY00
UniRef90_S4RUU0
UniRef90_Q8N0B5         C N A K L H G K N L I
UniRef90_K7LGR7         R R Q L L Q K D D L I
UniRef90_D2VX58         C R K K L S
UniRef90_M4AFH4         D R Q R L Q L H Q C R P
UniRef90_I1PCE0         T N L A L P N L N L V P N R
UniRef90_Q4U8G2         C Q A G I S R D N V I P L
UniRef90_A0A059ALR0     T N S K L K H K F L T P N H T
UniRef90_I3KZR8
UniRef90_G6D7G4         T G K K I D V A S L I K L N F T
UniRef90_UPI0003B33F64  C K H K L
UniRef90_U4LK62         C R Q A A V V Q G L L P L R A
UniRef90_G1P0K0         D N E I L L E T Q L F P
UniRef90_A0A059LD21     T F V P G S V D D L
UniRef90_F2UHS1         C R R V L N V A N L T P I E S
UniRef90_UPI000395DC7D  C R C A F E P R Q L R P N R
UniRef90_E1ZRD3         T N L P L E N L V L H P
UniRef90_B8P210
UniRef90_D7FIT8         C R
UniRef90_M4D1G8         T N L K L A H H H I
UniRef90_F2S5X3         C N V L I T M H D L
UniRef90_D7MTI9         C K S N I S I G S L V P L
UniRef90_V7BWL5         S G C P L Q G D K L V
UniRef90_V9EFD2         C S K P L T V D
UniRef90_Q9LZE2         C N K I C S L R D V R K I Y A S
UniRef90_UPI000440FFFF  C R S K L
UniRef90_S8DFN8         C K A I V Q E H Q L I P I K T S
UniRef90_D8U7V3         S N T P L R C Y S L L P
UniRef90_V7B316         T Q Q I L S S P I L I P
UniRef90_K7KXQ3         T M Q E L W D D S L T P N T T
UniRef90_T5BVX0         C S V H I S M H D L
UniRef90_E6R5W2         N N V P L K Y E D C I P
UniRef90_A0C4I9         T R E N I D P L G L I
```

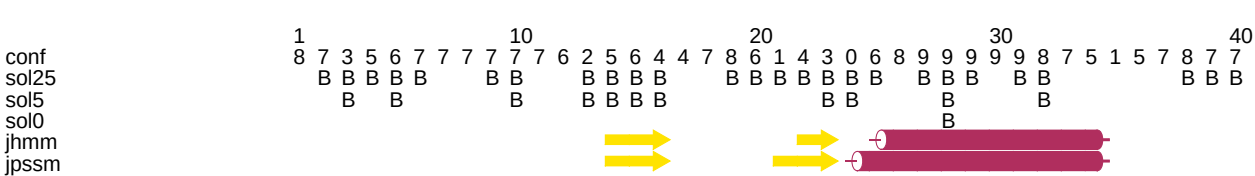

1
10
20
30
40
UniRef90_UPI0002C3007F
UniRef90_I1L4S3
UniRef90_T5A6V2
UniRef90_A0A059B3I8
UniRef90_UPI000258F24E
UniRef90_S8EZA1
UniRef90_UPI0003832D71
UniRef90_T1FMJ0
UniRef90_K8YSP8
UniRef90_M0U141
UniRef90_I1IBZ3
UniRef90_UPI0003C4B601
UniRef90_K4BCD8
UniRef90_F2QQ18
UniRef90_UPI00033156BD
UniRef90_D0NB97
UniRef90_Q7ZU70
UniRef90_U4L2M5
UniRef90_UPI00042B2C49
UniRef90_D0A345
UniRef90_K1WHZ7
UniRef90_F8NPU1
UniRef90_A0A059D591
UniRef90_M5X447
UniRef90_F0XZI5
UniRef90_C1BWS0
UniRef90_Q4S058
UniRef90_X6MEQ6
UniRef90_UPI0001924082
UniRef90_S3CTN4
UniRef90_B3SBI7
UniRef90_T1GW77
UniRef90_UPI0003508ECF
UniRef90_V5N6U9
UniRef90_R7YIQ3
UniRef90_A5E4G5
UniRef90_UPI0003891161
UniRef90_U6LZ07
UniRef90_UPI0003317957
UniRef90_Q4QIQ6
UniRef90_V4T9T1
UniRef90_D8S8U2
UniRef90_X6LXH7
UniRef90_A0A022RIN9
UniRef90_E3QH96
UniRef90_M0ZV16
UniRef90_I3J4J5
UniRef90_K3W9U0
UniRef90_Q8TFH8
UniRef90_G7YH97
UniRef90_G0VEP4
UniRef90_UPI000359E4A9
UniRef90_M0TR61
UniRef90_UPI000441933E
UniRef90_U5GQV1
UniRef90_UPI00042B012C
UniRef90_V7B9L4
UniRef90_Q923T7
UniRef90_A9PCH2
UniRef90_S7ZUJ9
UniRef90_G8DGP6
UniRef90_I1HRZ5
UniRef90_UPI0003B6EA67
UniRef90_M7Z8Y0
UniRef90_A7S5K6
UniRef90_G6CYN4
UniRef90_C4XXY4
UniRef90_C8TDR4
UniRef90_U3JRL2
UniRef90_B0EBB0
UniRef90_T2M770
UniRef90_A0A024GF04
UniRef90_UPI0002652935
UniRef90_UPI0003D0D28D
UniRef90_M5W654
UniRef90_Q9C029
UniRef90_M0T0D5
UniRef90_UPI000329C969
UniRef90_M5VVD3
UniRef90_U6HQ85
UniRef90_G0SFC8
UniRef90_L2FGS7
UniRef90_UPI000389120C
UniRef90_I7LXV6
UniRef90_UPI0004575F9D
UniRef90_I1ENX1
UniRef90_UPI0002C324BE
UniRef90_R7VXA9
UniRef90_UPI000350C740
UniRef90_R0IK19
UniRef90_V3Z1G9
UniRef90_M1AXC6

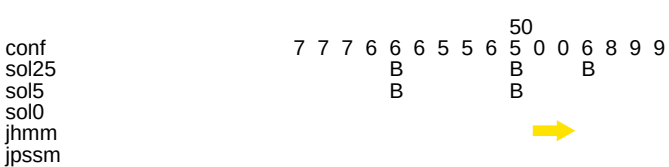

50
UniRef90_UPI0002C3007F C K A L V K E E N L V P L K T S
UniRef90_I1L4S3 T N L R L K H T F L T P N H T
UniRef90_T5A6V2 D R D L L S
UniRef90_A0A059B3I8 T K K K L
UniRef90_UPI000258F24E D S K P L S E S D L F D L Y T S
UniRef90_S8EZA1 C R G P V Y A E Q L E P V E E S
UniRef90_UPI0003832D71 C K Q S L R E
UniRef90_T1FMJ0 D R G V L R K N N L
UniRef90_K8YSP8
UniRef90_M0U141 C R H P L S K T D L F P T K S T
UniRef90_I1IBZ3 C K A A L T L D S F V P L
UniRef90_UPI0003C4B601 C G E T C P Q G N L R P S K
UniRef90_K4BCD8 C K A L I Q E E K L V P L
UniRef90_F2QQ18 C R Q K V L E Q Q L L P L
UniRef90_UPI00033156BD C R A Q F H R E S I R P S K Q
UniRef90_D0NB97 T R E P L T M
UniRef90_Q7ZU70
UniRef90_U4L2M5
UniRef90_UPI00042B2C49 I N I E L P H L N L V P
UniRef90_D0A345 C R G R V D E N D I I P L
UniRef90_K1WHZ7 C R R E V G L Q H I L P L R A
UniRef90_F8NPU1 T L L P M R V W Q L R K V
UniRef90_A0A059D591 T N L K L S H L H L T P
UniRef90_M5X447 T M Q S I E N F G I I P N H T
UniRef90_F0XZI5
UniRef90_C1BWS0 T G D K L K E T D I I P L Q
UniRef90_Q4S058 D A A K L T V
UniRef90_X6MEQ6 F G H K L E
UniRef90_UPI0001924082 C R S T V H K K D L I
UniRef90_S3CTN4 C R T E L P D K E C L
UniRef90_B3SBI7 N C Q P I A I N E L
UniRef90_T1GW77 C R N K C S Q K S I I K V
UniRef90_UPI0003508ECF C N
UniRef90_V5N6U9 D N A P L T E Q T M F P
UniRef90_R7YIQ3 C R A E I E
UniRef90_A5E4G5
UniRef90_UPI0003891161 S H L D V K R S D L V P
UniRef90_U6LZ07 C K A N V S A E T V T P I
UniRef90_UPI0003317957 C R A Q F Q R E S I R P I K Q
UniRef90_Q4QIQ6 D R T P I R V E L L
UniRef90_V4T9T1 T H M R L D
UniRef90_D8S8U2 C R S V V K S S E L
UniRef90_X6LXH7 C R S E I K G E D
UniRef90_A0A022RIN9 T M Q
UniRef90_E3QH96 A G M E L G L D N L Y D
UniRef90_M0ZV16 C R R K L A M K D T I R V
UniRef90_I3J4J5 C R E P L M L Q T C
UniRef90_K3W9U0 C Q R K L R P K D I H P L
UniRef90_Q8TFH8 T N L E L S
UniRef90_G7YH97
UniRef90_G0VEP4 C L N E L R E S M L
UniRef90_UPI000359E4A9 D R K P L T V K E C Q P
UniRef90_M0TR61 C N K P
UniRef90_UPI000441933E K C Q R I S T K E L L P L K S
UniRef90_U5GQV1 C R
UniRef90_UPI00042B012C C R A V I K A P D L
UniRef90_V7B9L4 C R
UniRef90_Q923T7 C R E P A R P S Q L R P N R Q
UniRef90_A9PCH2 C K A D I S H T T M V P L
UniRef90_S7ZUJ9 C R A D I K
UniRef90_G8DGP6 T G S E L D H P Y L T P
UniRef90_I1HRZ5 W K A G V Q E E K L V P L
UniRef90_UPI0003B6EA67 C K E P L S
UniRef90_M7Z8Y0 C K G E V T E G N I T P I
UniRef90_A7S5K6 C R E P L Q M S R L V
UniRef90_G6CYN4 C R S S L K
UniRef90_C4XXY4 D R T P I D A K D L N E L
UniRef90_C8TDR4 C R R A L Y V K S L K P L
UniRef90_U3JRL2 C R H A L L P E D
UniRef90_B0EBB0 C R T S L
UniRef90_T2M770 G G E S L K P N N V I
UniRef90_A0A024GF04 C Q R K L R I R D I
UniRef90_UPI0002652935 C N E Q V S P N S L V P N Q Q
UniRef90_UPI0003D0D28D C R H V L S S E E
UniRef90_M5W654 C R H K V S S E D L T F I T Y S
UniRef90_Q9C029 C R E P A R P S Q L R P N R Q
UniRef90_M0T0D5 T N L L L P T Q E I I
UniRef90_UPI000329C969
UniRef90_M5VVD3 C R R P L S Q S N L
UniRef90_U6HQ85 S G T K L A G S D L I E V R
UniRef90_G0SFC8 C K R H L T H S N L H D I
UniRef90_L2FGS7 D R T R F R A K D C K T S
UniRef90_UPI000389120C C R N E L R V E H L V E
UniRef90_I7LXV6 C R Q S F D I L D M I D
UniRef90_UPI0004575F9D C Q E T L P E R N L
UniRef90_I1ENX1 C K E K E Y Q A I P D K
UniRef90_UPI0002C324BE C S T K C R I E D L L P
UniRef90_R7VXA9 C R G S V T K K E
UniRef90_UPI000350C740 C Q V P Y Q F E N L R P
UniRef90_R0IK19 C R Y E M
UniRef90_V3Z1G9
UniRef90_M1AXC6 A G C P


1
10
20
30
40
UniRef90_C5YHE9
UniRef90_K1QEJ1
UniRef90_A0CGZ1
UniRef90_W6L5C6
UniRef90_A0A058ZCT7
UniRef90_W5L9X7
UniRef90_I3KYA9
UniRef90_K0TK51
UniRef90_V4ZLV5
UniRef90_B0YLS1
UniRef90_H2ZZU7
UniRef90_C7E3P9
UniRef90_UPI0002C2E5B1
UniRef90_K7L2N2
UniRef90_K1R1W6
UniRef90_C5L242
UniRef90_A0A016PQP2
UniRef90_G0U4W8
UniRef90_D5G6P4
UniRef90_A5AF76
UniRef90_A0A024WC25
UniRef90_UPI0003D0918E
UniRef90_C4V8Q4
UniRef90_UPI0002B4C5D9
UniRef90_UPI0004448DD4
UniRef90_T1DII0
UniRef90_M5FUZ6
UniRef90_F9G505
UniRef90_J9I310
UniRef90_W1NV09
UniRef90_M4D1Q3
UniRef90_Q5DI17
UniRef90_A0A015MYY0
UniRef90_UPI00046DE34C
UniRef90_UPI0003C3A89E
UniRef90_A8J644
UniRef90_G7KNZ9
UniRef90_F4WAM7
UniRef90_G3IM17
UniRef90_UPI00042B1A01
UniRef90_UPI00046BEDDC
UniRef90_A8IZ18
UniRef90_I3J218
UniRef90_D3TPT9
UniRef90_U7DZU2
UniRef90_W3WQN5
UniRef90_B3RIV8
UniRef90_V8NKY1
UniRef90_E6ZJ29
UniRef90_UPI00033166F5
UniRef90_Q1RLP5
UniRef90_UPI00038326F5
UniRef90_C1N2T4
UniRef90_B4FB79
UniRef90_D2V1P1
UniRef90_B4NJT6
UniRef90_UPI0002038E85
UniRef90_UPI000392E4F9
UniRef90_G4ZXW9
UniRef90_E4XCA0
UniRef90_UPI00038EB896
UniRef90_F2QMQ6
UniRef90_J9M316
UniRef90_UPI0003833E6E
UniRef90_UPI0003EAC058
UniRef90_G3PA64
UniRef90_W9YKC5
UniRef90_M1D7C9
UniRef90_G1MC72
UniRef90_X6LNY8
UniRef90_F1LWE5
UniRef90_UPI00038C0EEC
UniRef90_F0VF42
UniRef90_D8SNP9
UniRef90_F6YHY0
UniRef90_I3KLM0
UniRef90_C3Y0U4
UniRef90_D6WY16
UniRef90_E6ZGE6
UniRef90_J5Q1R1
UniRef90_H2ZUI3
UniRef90_I1FJR7
UniRef90_S9WBZ1
UniRef90_H2YZX5
UniRef90_UPI000441D58D
lupas_21
lupas_14
lupas_28
jnet

```
                                                  50
UniRef90_C5YHE9          C K G E V L E G D I T P I
UniRef90_K1QEJ1          G G N P I K K E D L V E N K
UniRef90_A0CGZ1          C R                 V K I K T
UniRef90_W6L5C6          C K R P T K N S Q L V P L
UniRef90_A0A058ZCT7      T K Q P M L L D A C T P
UniRef90_W5L9X7          C R N T F R Q E D L
UniRef90_I3KYA9          C K E
UniRef90_K0TK51          C Q Q A F T V D
UniRef90_V4ZLV5          C K A H T T V R N V I P I
UniRef90_B0YLS1          C R K
UniRef90_H2ZZU7          C R A D S A I S D L I
UniRef90_C7E3P9          C R Q H F L L R N L R P N R Q
UniRef90_UPI0002C2E5B1   C K G E V S P K N V T P I
UniRef90_K7L2N2
UniRef90_K1R1W6          C R E T L Q P Q K L V
UniRef90_C5L242          C N V G I T L K E L K P V R
UniRef90_A0A016PQP2
UniRef90_G0U4W8          T R R T A S V E S V R R I Y E S
UniRef90_D5G6P4          C R H P I T P E D
UniRef90_A5AF76          C R K L L K K T D L I
UniRef90_A0A024WC25      C R
UniRef90_UPI0003D0918E   I G S D V K R S D L V P
UniRef90_C4V8Q4          C R N H L S L F D V T K C K
UniRef90_UPI0002B4C5D9   C R
UniRef90_UPI0004448DD4   V G T D V K M S D L I P
UniRef90_T1DII0          C K S S I S K E K V I P L
UniRef90_M5FUZ6          C R Q P L S K Q T I H R I
UniRef90_F9G505          C R R P L A I S P L L S Q T S S
UniRef90_J9I310          C R H E L P T D D L
UniRef90_W1NV09          T G Q H L D D F S L R P
UniRef90_M4D1Q3          C K S S V A I T S L V P L
UniRef90_Q5DI17          N G K K M K P T D F I E L Q
UniRef90_A0A015MYY0      C R A N C T E N D L
UniRef90_UPI00046DE34C   C K A N I T H A L L V P L
UniRef90_UPI0003C3A89E   C R A K V S E D
UniRef90_A8J644          S R T P L A R A A L T P
UniRef90_G7KNZ9          C R H K V N I E D
UniRef90_F4WAM7          C R Q N L
UniRef90_G3IM17          C G
UniRef90_UPI00042B1A01   C R E
UniRef90_UPI00046BEDDC   T G T P L T C P Q C
UniRef90_A8IZ18          S G V K I T S R E F T P
UniRef90_I3J218          C R K P V N P S
UniRef90_D3TPT9          C R E Y L K K S N L I Q L R
UniRef90_U7DZU2          C G D P I S K S G L
UniRef90_W3WQN5          C R R A L S I
UniRef90_B3RIV8          D N N T L
UniRef90_V8NKY1          C R A
UniRef90_E6ZJ29
UniRef90_UPI00033166F5   C R Q P F T R N S L R P N R Q
UniRef90_Q1RLP5          C K E K F S K Q P D L K V N T T
UniRef90_UPI00038326F5   S H S D V K G S D L M P
UniRef90_C1N2T4          C R H K L         L V P
UniRef90_B4FB79          C K A T L S T D T L V P L
UniRef90_D2V1P1          C N E S V Y I D A L R S V R
UniRef90_B4NJT6          C N K K L T A R Q
UniRef90_UPI0002038E85   C R L T L Q S R D V I P N R P
UniRef90_UPI000392E4F9   C R L P
UniRef90_G4ZXW9          C R S P L
UniRef90_E4XCA0          C K A G I G K D K M V P I
UniRef90_UPI00038EB896   C R K E V K R K K M V
UniRef90_F2QMQ6          D R T P L D I D D V Y P
UniRef90_J9M316          C R K A L N P R M V V P L Q
UniRef90_UPI0003833E6E   T G Y A T E L Q H L V K L Y S
UniRef90_UPI0003EAC058   C H Q P V S P D A L I A N K F
UniRef90_G3PA64          C Q E
UniRef90_W9YKC5          T P E Q L
UniRef90_M1D7C9          C S K P L T V D
UniRef90_G1MC72          C R K P C S E
UniRef90_X6LNY8          C R S E I K G E E
UniRef90_F1LWE5          C K E S L K E
UniRef90_UPI00038C0EEC   C R Q E V K
UniRef90_F0VF42          C R Q P
UniRef90_D8SNP9          S R A L V Q P D L L I D
UniRef90_F6YHY0          C R V P I T A E
UniRef90_I3KLM0
UniRef90_C3Y0U4          C R S G M L P H E A R P V
UniRef90_D6WY16          C R K K
UniRef90_E6ZGE6          C R
UniRef90_J5Q1R1
UniRef90_H2ZUI3          C R A D S A T S D L I T N H T
UniRef90_I1FJR7          C K E K
UniRef90_S9WBZ1          C K E K L S E
UniRef90_H2YZX5          C K E
UniRef90_UPI000441D58D   D R Q F L D L S V L R P L
```

lupas_21
lupas_14
lupas_28
jnet


1 10 20 30 40
conf 8 7 3 5 6 7 7 7 7 7 6 2 5 6 4 4 7 8 6 1 4 3 0 6 8 9 9 9 9 8 7 5 1 5 7 8 7 7
sol25 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
sol5 B B B B B B
sol0 B
jhmm
jpssm


50
conf 7 7 7 6 6 6 5 5 6 5 0 0 6 8 9 9
sol25 B B B B
sol5 B B
sol0
jhmm
jpssm