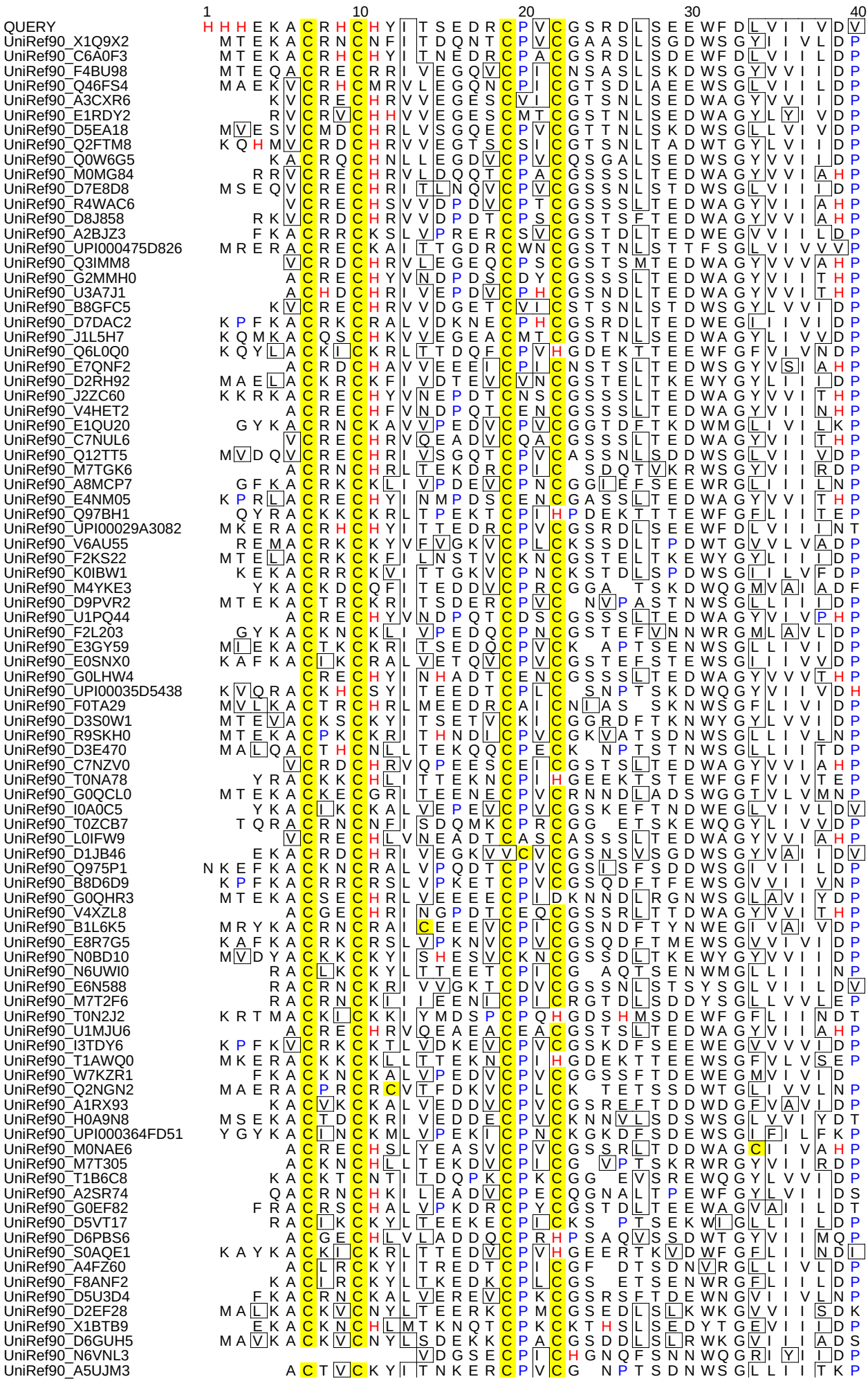
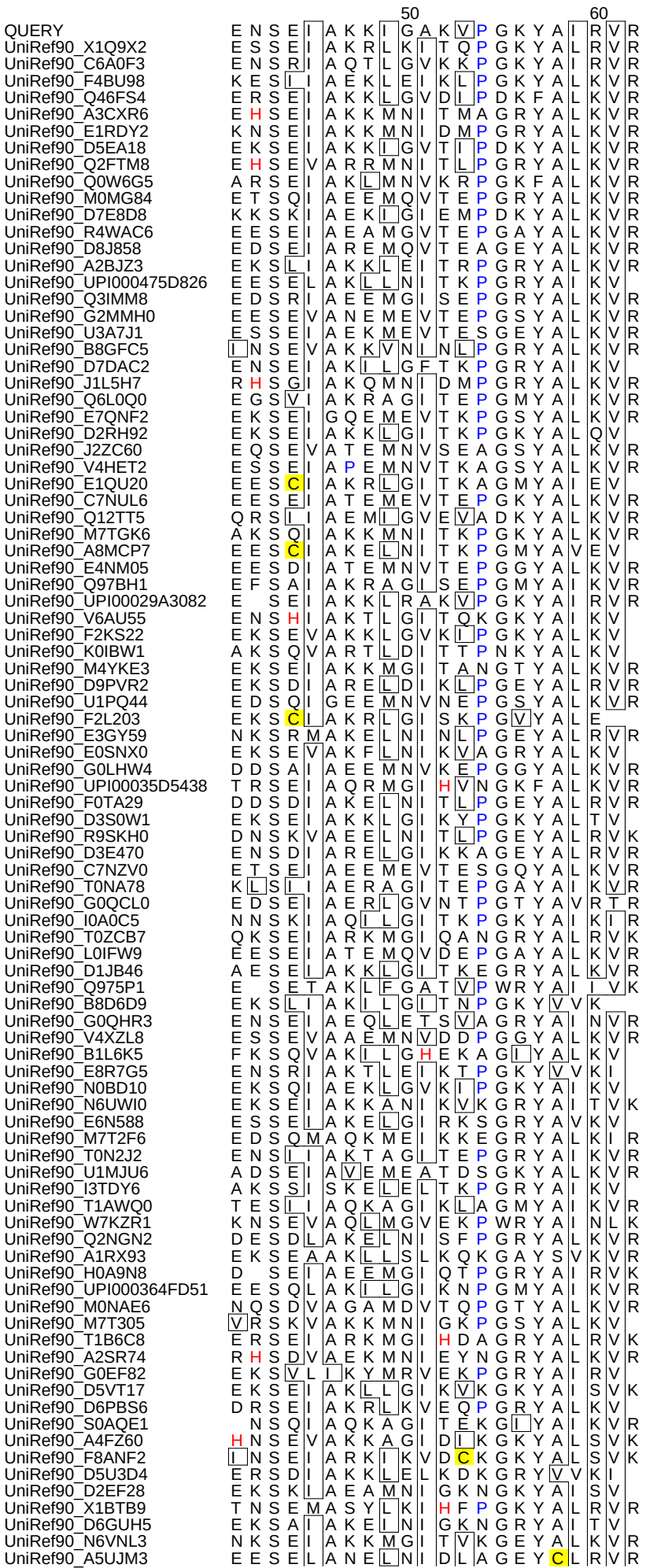
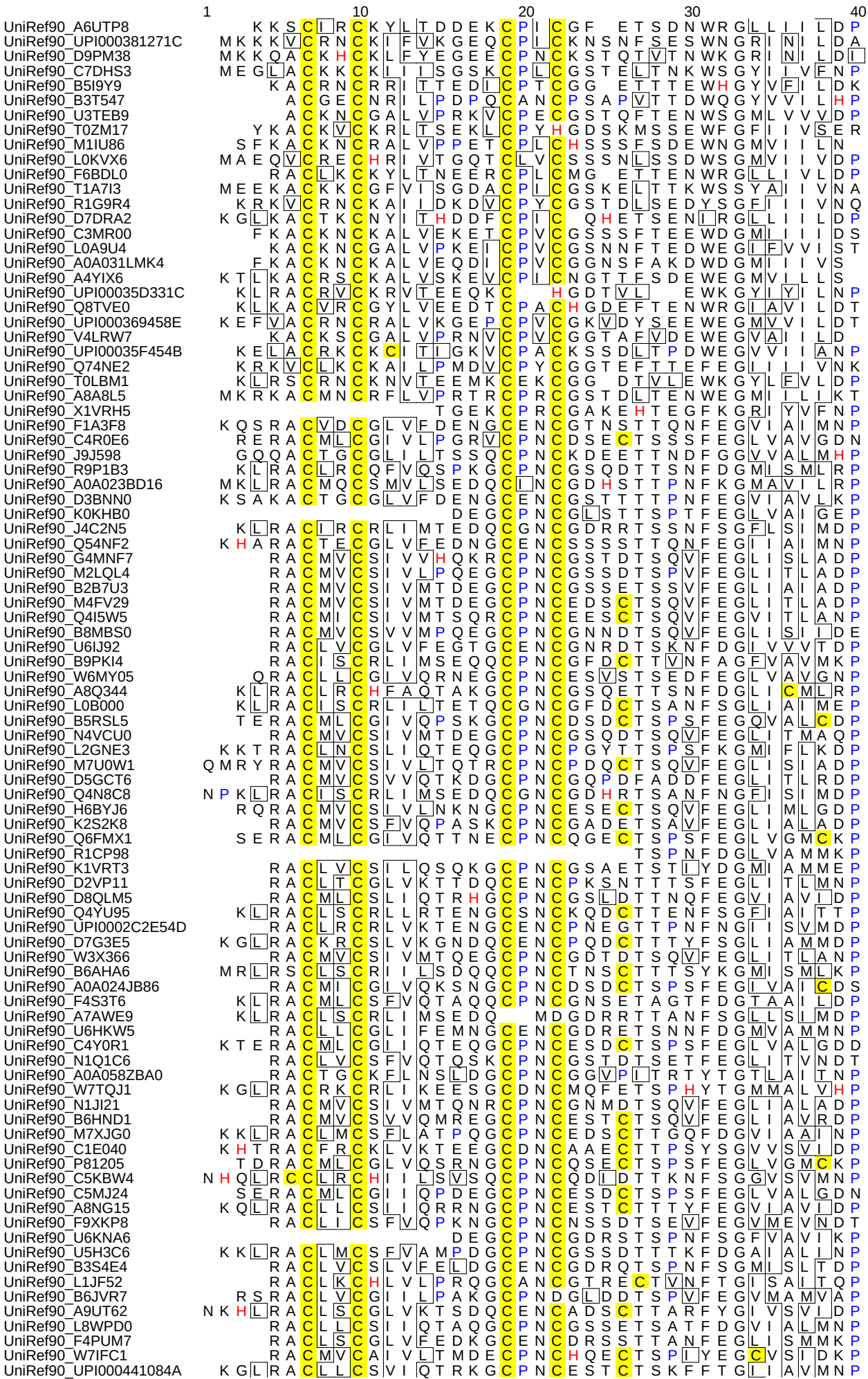
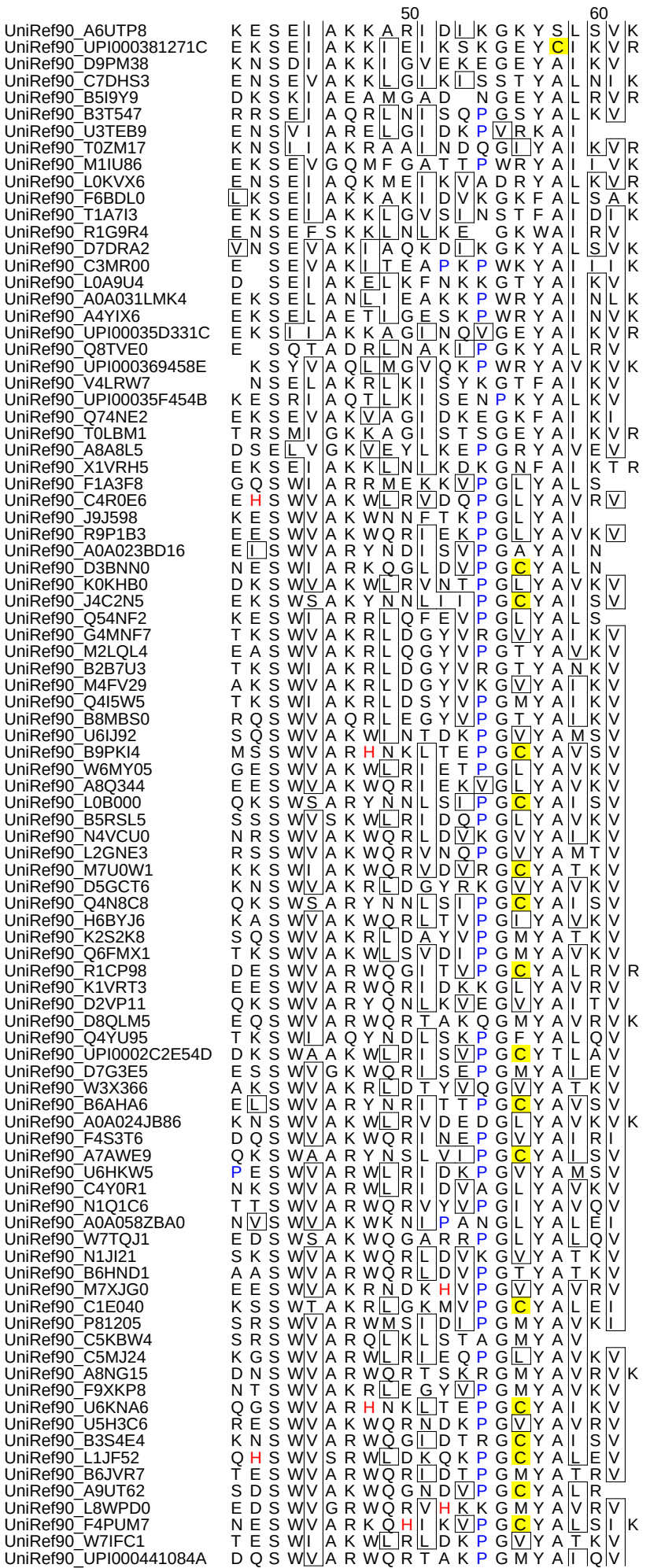
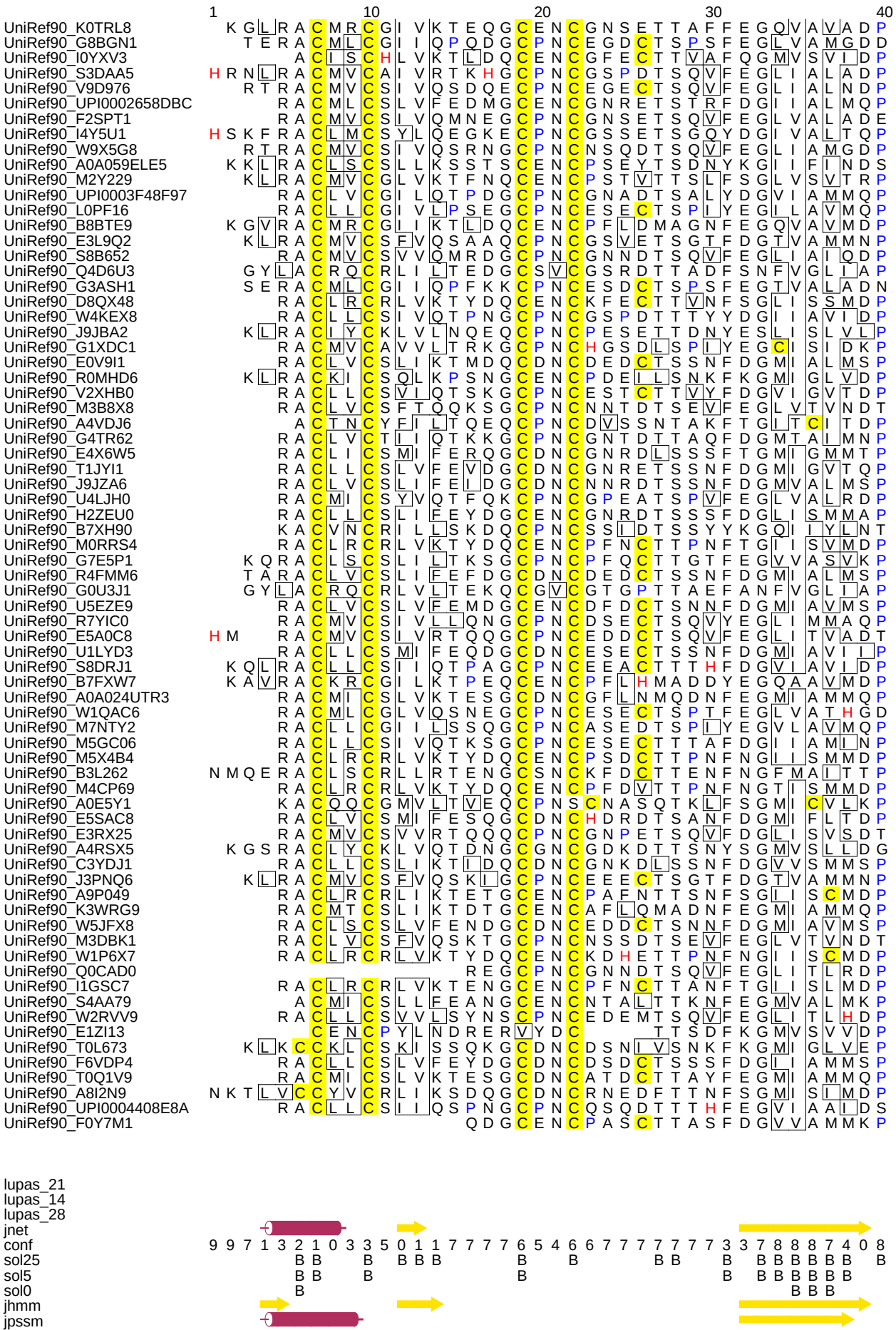
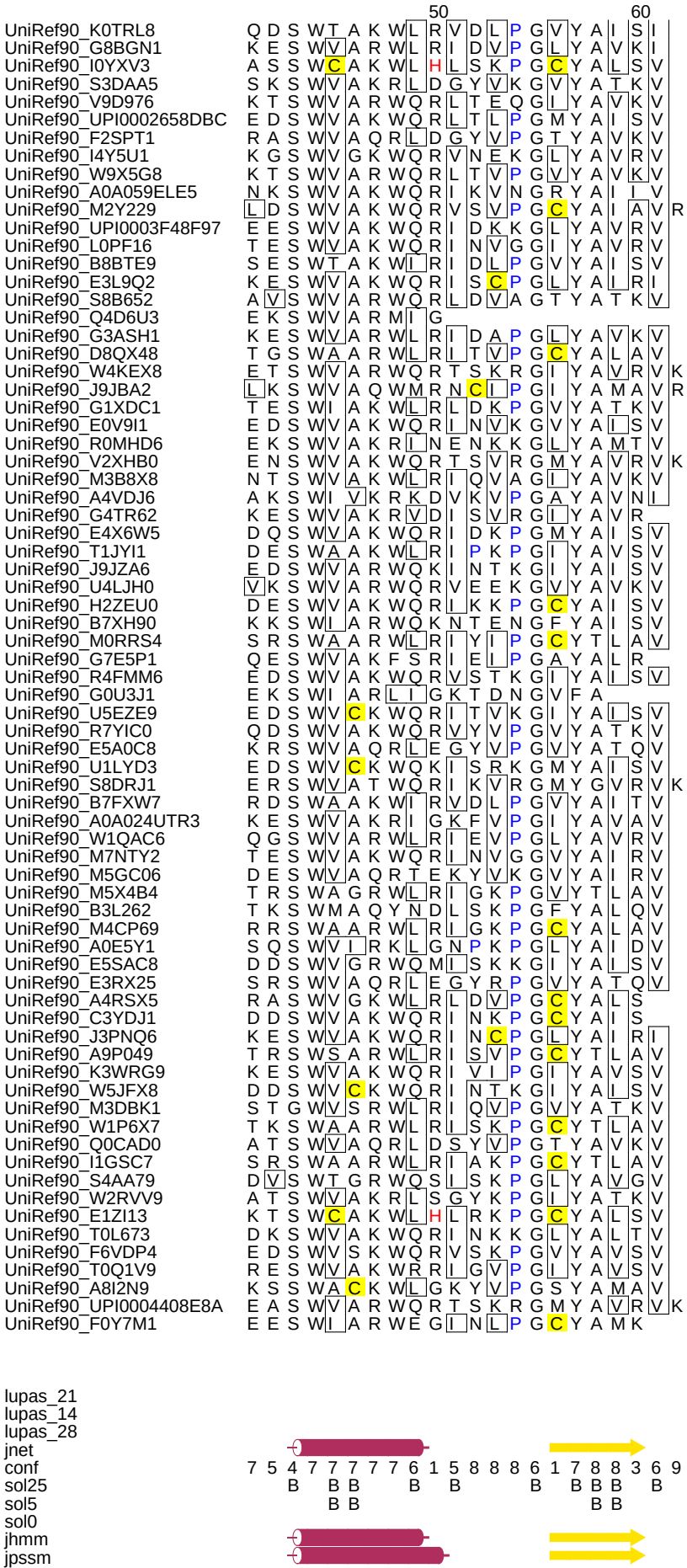

1
10
20
30
40
QUERY
UniRef90_X1Q9X2
UniRef90_C6A0F3
UniRef90_F4BU98
UniRef90_Q46FS4
UniRef90_A3CXR6
UniRef90_E1RDY2
UniRef90_D5EA18
UniRef90_Q2FTM8
UniRef90_Q0W6G5
UniRef90_M0MG84
UniRef90_D7E8D8
UniRef90_R4WAC6
UniRef90_D8J858
UniRef90_A2BJZ3
UniRef90_UPI000475D826
UniRef90_Q3IMM8
UniRef90_G2MMH0
UniRef90_U3A7J1
UniRef90_B8GFC5
UniRef90_D7DAC2
UniRef90_J1L5H7
UniRef90_Q6L0Q0
UniRef90_E7QNF2
UniRef90_D2RH92
UniRef90_J2ZC60
UniRef90_V4HET2
UniRef90_E1QU20
UniRef90_C7NUL6
UniRef90_Q12TT5
UniRef90_M7TGK6
UniRef90_A8MCP7
UniRef90_E4NM05
UniRef90_Q97BH1
UniRef90_UPI00029A3082
UniRef90_V6AU55
UniRef90_F2KS22
UniRef90_K0IBW1
UniRef90_M4YKE3
UniRef90_D9PVR2
UniRef90_U1PQ44
UniRef90_F2L203
UniRef90_E3GY59
UniRef90_E0SNX0
UniRef90_G0LHW4
UniRef90_UPI00035D5438
UniRef90_F0TA29
UniRef90_D3S0W1
UniRef90_R9SKH0
UniRef90_D3E470
UniRef90_C7NZV0
UniRef90_T0NA78
UniRef90_G0QCL0
UniRef90_I0A0C5
UniRef90_T0ZCB7
UniRef90_L0IFW9
UniRef90_D1JB46
UniRef90_Q975P1
UniRef90_B8D6D9
UniRef90_G0QHR3
UniRef90_V4XZL8
UniRef90_B1L6K5
UniRef90_E8R7G5
UniRef90_N0BD10
UniRef90_N6UWI0
UniRef90_E6N588
UniRef90_M7T2F6
UniRef90_T0N2J2
UniRef90_U1MJU6
UniRef90_I3TDY6
UniRef90_T1AWQ0
UniRef90_W7KZR1
UniRef90_Q2NGN2
UniRef90_A1RX93
UniRef90_H0A9N8
UniRef90_UPI000364FD51
UniRef90_M0NAE6
UniRef90_M7T305
UniRef90_T1B6C8
UniRef90_A2SR74
UniRef90_G0EF82
UniRef90_D5VT17
UniRef90_D6PBS6
UniRef90_S0AQE1
UniRef90_A4FZ60
UniRef90_F8ANF2
UniRef90_D5U3D4
UniRef90_D2EF28
UniRef90_X1BTB9
UniRef90_D6GUH5
UniRef90_N6VNL3
UniRef90_A5UJM3


50
60
QUERY E N S E I A K K I G A K V P G K Y A I R V R
UniRef90_X1Q9X2 E S S E I A K R L K I T Q P G K Y A L R V R
UniRef90_C6A0F3 E N S R I A Q T L G V K K P G K Y A I R V R
UniRef90_F4BU98 K E S I I A E K L E I K L P G K Y A L K V R
UniRef90_Q46FS4 E R S E I A K K L G V D I P D K F A L K V R
UniRef90_A3CXR6 E H S E I A K K M N I T M A G R Y A L K V R
UniRef90_E1RDY2 K N S E I A K K M N I D M P G R Y A L K V R
UniRef90_D5EA18 E K S E I A K K I G V T I P D K Y A L K V R
UniRef90_Q2FTM8 E H S E V A R R M N I T L P G R Y A L K V R
UniRef90_Q0W6G5 A R S E I A K L M N V K R P G K F A L K V R
UniRef90_M0MG84 E T S Q I A E E M Q V T E P G R Y A L K V R
UniRef90_D7E8D8 K K S K I A E K I G I E M P D K Y A L K V R
UniRef90_R4WAC6 E E S E I A E A M G V T E P G A Y A L K V R
UniRef90_D8J858 E D S E I A R E M Q V T E A G E Y A L K V R
UniRef90_A2BJZ3 E K S L I A K K L E I T R P G R Y A L K V R
UniRef90_UPI000475D826 E E S E L A K L L N I T K P G R Y A I K V
UniRef90_Q3IMM8 E D S R I A E E M G I S E P G R Y A L K V R
UniRef90_G2MMH0 E E S E V A N E M E V T E P G S Y A L K V R
UniRef90_U3A7J1 E S S E I A E K M E V T E S G E Y A L K V R
UniRef90_B8GFC5 I N S E V A K K V N I N L P G R Y A L K V R
UniRef90_D7DAC2 E N S E I A K I L G F T K P G R Y A I K V
UniRef90_J1L5H7 R H S G I A K Q M N I D M P G R Y A L K V R
UniRef90_Q6L0Q0 E G S V I A K R A G I T E P G M Y A I K V R
UniRef90_E7QNF2 E K S E I G Q E M E V T K P G S Y A L K V R
UniRef90_D2RH92 E K S E I A K K L G I T K P G K Y A L Q V
UniRef90_J2ZC60 E Q S E V A T E M N V S E A G S Y A L K V R
UniRef90_V4HET2 E S S E I A P E M N V T K A G S Y A L K V R
UniRef90_E1QU20 E E S C I A K R L G I T K A G M Y A I E V
UniRef90_C7NUL6 E E S E I A T E M E V T E P G K Y A L K V R
UniRef90_Q12TT5 Q R S I I A E M I G V E V A D K Y A L K V R
UniRef90_M7TGK6 A K S Q I A K K M N I T K P G K Y A L K V R
UniRef90_A8MCP7 E E S C I A K E L N I T K P G M Y A V E V
UniRef90_E4NM05 E E S D I A T E M N V T E P G G Y A L K V R
UniRef90_Q97BH1 E F S A I A K R A G I S E P G M Y A I K V R
UniRef90_UPI00029A3082 E S E I A K K L R A K V P G K Y A I R V R
UniRef90_V6AU55 E N S H I A K T L G I T Q K G K Y A I K V
UniRef90_F2KS22 E K S E V A K K L G V K I P G K Y A L K V
UniRef90_K0IBW1 A K S Q V A R T L D I T T P N K Y A L K V
UniRef90_M4YKE3 E K S E I A K K M G I T A N G T Y A L K V R
UniRef90_D9PVR2 E K S D I A R E L D I K L P G E Y A L R V R
UniRef90_U1PQ44 E D S Q I G E E M N V N E P G S Y A L K V R
UniRef90_F2L203 E K S C I A K R L G I S K P G V Y A L E
UniRef90_E3GY59 N K S R M A K E L N I N L P G E Y A L R V R
UniRef90_E0SNX0 E K S E V A K F L N I K V A G R Y A L K V
UniRef90_G0LHW4 D D S A I A E E M N V K E P G G Y A L K V R
UniRef90_UPI00035D5438 T R S E I A Q R M G I H V N G K F A L K V R
UniRef90_F0TA29 D D S D I A K E L N I T L P G E Y A L R V R
UniRef90_D3S0W1 E K S E I A K K L G I K Y P G K Y A L T V
UniRef90_R9SKH0 D N S K V A E E L N I T L P G E Y A L R V K
UniRef90_D3E470 E N S D I A R E L G I K K A G E Y A L R V R
UniRef90_C7NZV0 E T S E I A E E M E V T E S G Q Y A L K V R
UniRef90_T0NA78 K L S I I A E R A G I T E P G A Y A I K V R
UniRef90_G0QCL0 E D S E I A E R L G V N T P G T Y A V R T R
UniRef90_I0A0C5 N N S K I A Q I L G I T K P G K Y A I K I R
UniRef90_T0ZCB7 Q K S E I A R K M G I Q A N G R Y A L R V K
UniRef90_L0IFW9 E E S E I A T E M Q V D E P G A Y A L K V R
UniRef90_D1JB46 A E S E I A K K L G I T K E G R Y A L K V R
UniRef90_Q975P1 E S E T A K L F G A T V P W R Y A I I V K
UniRef90_B8D6D9 E K S L I A K I L G I T N P G K Y V V K
UniRef90_G0QHR3 E N S E I A E Q L E T S V A G R Y A I N V R
UniRef90_V4XZL8 E S S E V A A E M N V D D P G G Y A L K V R
UniRef90_B1L6K5 F K S Q V A K I L G H E K A G I Y A L K V
UniRef90_E8R7G5 E N S R I A K T L E I K T P G K Y V V K I
UniRef90_N0BD10 E K S Q I A E K L G V K I P G K Y A I K V
UniRef90_N6UWI0 E K S E I A K K A N I K V K G R Y A I T V K
UniRef90_E6N588 E S S E I A K E L G I R K S G R Y A V K V
UniRef90_M7T2F6 E D S Q M A Q K M E I K K E G R Y A L K I R
UniRef90_T0N2J2 E N S I I A K T A G I T E P G R Y A I K V R
UniRef90_U1MJU6 A D S E I A V E M E A T D S G K Y A L K V R
UniRef90_I3TDY6 A K S S I S K E L E L T K P G R Y A I K V
UniRef90_T1AWQ0 T E S I I A Q K A G I K L A G M Y A I K V R
UniRef90_W7KZR1 K N S E V A Q L M G V E K P W R Y A I N L K
UniRef90_Q2NGN2 D E S D L A K E L N I S F P G R Y A L K V R
UniRef90_A1RX93 E K S E A A K L L S L K Q K G A Y S V K V R
UniRef90_H0A9N8 D S E I A E E M G I Q T P G R Y A I R V K
UniRef90_UPI000364FD51 E E S Q L A K I L G I K N P G M Y A I K V R
UniRef90_M0NAE6 N Q S D V A G A M D V T Q P G T Y A L K V R
UniRef90_M7T305 V R S K V A K K M N I G K P G S Y A L K V
UniRef90_T1B6C8 E R S E I A R K M G I H D A G R Y A L R V K
UniRef90_A2SR74 R H S D V A E K M N I E Y N G R Y A L K V R
UniRef90_G0EF82 E K S V L I K Y M R V E K P G R Y A I R V
UniRef90_D5VT17 E K S E I A K L L G I K V K G K Y A I S V K
UniRef90_D6PBS6 D R S E I A K R L K V E Q P G R Y A L K V
UniRef90_S0AQE1 N S Q I A Q K A G I T E K G I Y A I K V R
UniRef90_A4FZ60 H N S E V A K K A G I D I K G K Y A L S V K
UniRef90_F8ANF2 I N S E I A R K I K V D C K G K Y A L S V K
UniRef90_D5U3D4 E R S D I A K K L E L K D K G R Y V V K I
UniRef90_D2EF28 E K S K I A E A M N I G K N G K Y A I S V
UniRef90_X1BTB9 T N S E M A S Y L K I H F P G K Y A L R V R
UniRef90_D6GUH5 E K S A I A K E I N I G K N G R Y A I T V
UniRef90_N6VNL3 N K S E I A K K M G I T V K G E Y A L K V R
UniRef90_A5UJM3 E E S E L A N E L N I D L A G E Y C L R V R


1
10
20
30
40
UniRef90_A6UTP8
UniRef90_UPI000381271C
UniRef90_D9PM38
UniRef90_C7DHS3
UniRef90_B5I9Y9
UniRef90_B3T547
UniRef90_U3TEB9
UniRef90_T0ZM17
UniRef90_M1IU86
UniRef90_L0KVX6
UniRef90_F6BDL0
UniRef90_T1A7I3
UniRef90_R1G9R4
UniRef90_D7DRA2
UniRef90_C3MR00
UniRef90_L0A9U4
UniRef90_A0A031LMK4
UniRef90_A4YIX6
UniRef90_UPI00035D331C
UniRef90_Q8TVE0
UniRef90_UPI000369458E
UniRef90_V4LRW7
UniRef90_UPI00035F454B
UniRef90_Q74NE2
UniRef90_T0LBM1
UniRef90_A8A8L5
UniRef90_X1VRH5
UniRef90_F1A3F8
UniRef90_C4R0E6
UniRef90_J9J598
UniRef90_R9P1B3
UniRef90_A0A023BD16
UniRef90_D3BNN0
UniRef90_K0KHB0
UniRef90_J4C2N5
UniRef90_Q54NF2
UniRef90_G4MNF7
UniRef90_M2LQL4
UniRef90_B2B7U3
UniRef90_M4FV29
UniRef90_Q4I5W5
UniRef90_B8MBS0
UniRef90_U6IJ92
UniRef90_B9PKI4
UniRef90_W6MY05
UniRef90_A8Q344
UniRef90_L0B000
UniRef90_B5RSL5
UniRef90_N4VCU0
UniRef90_L2GNE3
UniRef90_M7U0W1
UniRef90_D5GCT6
UniRef90_Q4N8C8
UniRef90_H6BYJ6
UniRef90_K2S2K8
UniRef90_Q6FMX1
UniRef90_R1CP98
UniRef90_K1VRT3
UniRef90_D2VP11
UniRef90_D8QLM5
UniRef90_Q4YU95
UniRef90_UPI0002C2E54D
UniRef90_D7G3E5
UniRef90_W3X366
UniRef90_B6AHA6
UniRef90_A0A024JB86
UniRef90_F4S3T6
UniRef90_A7AWE9
UniRef90_U6HKW5
UniRef90_C4Y0R1
UniRef90_N1Q1C6
UniRef90_A0A058ZBA0
UniRef90_W7TQJ1
UniRef90_N1JI21
UniRef90_B6HND1
UniRef90_M7XJG0
UniRef90_C1E040
UniRef90_P81205
UniRef90_C5KBW4
UniRef90_C5MJ24
UniRef90_A8NG15
UniRef90_F9XKP8
UniRef90_U6KNA6
UniRef90_U5H3C6
UniRef90_B3S4E4
UniRef90_L1JF52
UniRef90_B6JVR7
UniRef90_A9UT62
UniRef90_L8WPD0
UniRef90_F4PUM7
UniRef90_W7IFC1
UniRef90_UPI000441084A


50
60
UniRef90_A6UTP8 K E S E I A K K A R I D I K G K Y S L S V K
UniRef90_UPI000381271C E K S E I A K K I E I K S K G E Y C I K V R
UniRef90_D9PM38 K N S D I A K K I G V E K E G E Y A I K V
UniRef90_C7DHS3 E N S E V A K K L G I K I S S T Y A L N I K
UniRef90_B5I9Y9 D K S K I A E A M G A D N G E Y A L R V R
UniRef90_B3T547 R R S E I A Q R L N I S Q P G S Y A L K V
UniRef90_U3TEB9 E N S V I A R E L G I D K P V R K A I
UniRef90_T0ZM17 K N S I I A K R A A I N D Q G I Y A I K V R
UniRef90_M1IU86 E K S E V G Q M F G A T T P W R Y A I I V K
UniRef90_L0KVX6 E N S E I A Q K M E I K V A D R Y A L K V R
UniRef90_F6BDL0 L K S E I A K K A K I D V K G K F A L S A K
UniRef90_T1A7I3 E K S E I A K K L G V S I N S T F A I D I K
UniRef90_R1G9R4 E N S E F S K K L N L K E G K W A I R V
UniRef90_D7DRA2 V N S E V A K I A Q K D I K G K Y A L S V K
UniRef90_C3MR00 E S E V A K I T E A P K P W K Y A I I I K
UniRef90_L0A9U4 D S E I A K E L K F N K K G T Y A I K V
UniRef90_A0A031LMK4 E K S E L A N L I E A K K P W R Y A I N L K
UniRef90_A4YIX6 E K S E L A E T L G E S K P W R Y A I N V K
UniRef90_UPI00035D331C E K S I I A K K A G I N Q V G E Y A I K V R
UniRef90_Q8TVE0 E S Q T A D R L N A K I P G K Y A L R V
UniRef90_UPI000369458E K S Y V A Q L M G V Q K P W R Y A V K V K
UniRef90_V4LRW7 N S E L A K R L K I S Y K G T F A I K V
UniRef90_UPI00035F454B K E S R I A Q T L K I S E N P K Y A L K V
UniRef90_Q74NE2 E K S E V A K V A G I D K E G K F A I K I
UniRef90_T0LBM1 T R S M I G K K A G I S T S G E Y A I K V R
UniRef90_A8A8L5 D S E L V G K V E Y L K E P G R Y A V E V
UniRef90_X1VRH5 E K S E I A K K L N I K D K G N F A I K T R
UniRef90_F1A3F8 G Q S W I A R R M E K K V P G L Y A L S
UniRef90_C4R0E6 E H S W V A K W L R V D Q P G L Y A V R V
UniRef90_J9J598 K E S W V A K W N N F T K P G L Y A I
UniRef90_R9P1B3 E E S W V A K W Q R I E K P G L Y A V K V
UniRef90_A0A023BD16 E I S W V A R Y N D I S V P G A Y A I N
UniRef90_D3BNN0 N E S W I A R K Q G L D V P G C Y A L N
UniRef90_K0KHB0 D K S W V A K W L R V N T P G L Y A V K V
UniRef90_J4C2N5 E K S W S A K Y N N L I I P G C Y A I S V
UniRef90_Q54NF2 K E S W I A R R L Q F E V P G L Y A L S
UniRef90_G4MNF7 T K S W V A K R L D G Y V R G V Y A I K V
UniRef90_M2LQL4 E A S W V A K R L Q G Y V P G T Y A V K V
UniRef90_B2B7U3 T K S W I A K R L D G Y V R G T Y A N K V
UniRef90_M4FV29 A K S W V A K R L D G Y V K G V Y A I K V
UniRef90_Q4I5W5 T K S W I A K R L D S Y V P G M Y A I K V
UniRef90_B8MBS0 R Q S W V A Q R L E G Y V P G T Y A I K V
UniRef90_U6IJ92 S Q S W V A K W I N T D K P G V Y A M S V
UniRef90_B9PKI4 M S S W V A R H N K L T E P G C Y A V S V
UniRef90_W6MY05 G E S W V A K W L R I E T P G L Y A V K V
UniRef90_A8Q344 E E S W V A K W Q R I E K V G L Y A V K V
UniRef90_L0B000 Q K S W S A R Y N N L S I P G C Y A I S V
UniRef90_B5RSL5 S S S W V S K W L R I D Q P G L Y A V K V
UniRef90_N4VCU0 N R S W V A K W Q R L D V K G V Y A I K V
UniRef90_L2GNE3 R S S W V A K W Q R V N Q P G V Y A M T V
UniRef90_M7U0W1 K K S W I A K W Q R V D V R G C Y A T K V
UniRef90_D5GCT6 K N S W V A K R L D G Y R K G V Y A V K V
UniRef90_Q4N8C8 Q K S W S A R Y N N L S I P G C Y A I S V
UniRef90_H6BYJ6 K A S W V A K W Q R L T V P G I Y A V K V
UniRef90_K2S2K8 S Q S W V A K R L D A Y V P G M Y A T K V
UniRef90_Q6FMX1 T K S W V A K W L S V D I P G M Y A V K V
UniRef90_R1CP98 D E S W V A R W Q G I T V P G C Y A L R V R
UniRef90_K1VRT3 E E S W V A R W Q R I D K K G L Y A V R V
UniRef90_D2VP11 Q K S W V A R Y Q N L K V E G V Y A I T V
UniRef90_D8QLM5 E Q S W V A R W Q R T A K Q G M Y A V R V K
UniRef90_Q4YU95 T K S W I A Q Y N D L S K P G F Y A L Q V
UniRef90_UPI0002C2E54D D K S W A A K W L R I S V P G C Y T L A V
UniRef90_D7G3E5 E S S W V G K W Q R I S E P G M Y A I E V
UniRef90_W3X366 A K S W V A K R L D T Y V Q G V Y A T K V
UniRef90_B6AHA6 E L S W V A R Y N R I T T P G C Y A V S V
UniRef90_A0A024JB86 K N S W V A K W L R V D E D G L Y A V K V K
UniRef90_F4S3T6 D Q S W V A K W Q R I N E P G V Y A I R I
UniRef90_A7AWE9 Q K S W A A R Y N S L V I P G C Y A I S V
UniRef90_U6HKW5 P E S W V A R W L R I D K P G V Y A M S V
UniRef90_C4Y0R1 N K S W V A R W L R I D V A G L Y A V K V
UniRef90_N1Q1C6 T T S W V A R W Q R V Y V P G I Y A V Q V
UniRef90_A0A058ZBA0 N V S W V A K W K N I P A N G L Y A L E I
UniRef90_W7TQJ1 E D S W S A K W Q G A R R P G L Y A L Q V
UniRef90_N1JI21 S K S W V A K W Q R L D V K G V Y A T K V
UniRef90_B6HND1 A A S W V A R W Q R L D V P G T Y A T K V
UniRef90_M7XJG0 E E S W V A K R N D K H V P G V Y A V R V
UniRef90_C1E040 K S S W T A K R L G K M V P G C Y A L E I
UniRef90_P81205 S R S W V A R W M S I D I P G M Y A V K I
UniRef90_C5KBW4 S R S W V A R Q L K L S T A G M Y A V
UniRef90_C5MJ24 K G S W V A R W L R I E Q P G L Y A V K V
UniRef90_A8NG15 D N S W V A R W Q R T S K R G M Y A V R V K
UniRef90_F9XKP8 N T S W V A K R L E G Y V P G M Y A V K V
UniRef90_U6KNA6 Q G S W V A R H N K L T E P G C Y A I K V
UniRef90_U5H3C6 R E S W V A K W Q R N D K P G V Y A V R V
UniRef90_B3S4E4 K N S W V A R W Q G I D T R G C Y A I S V
UniRef90_L1JF52 Q H S W V S R W L D K Q K P G C Y A L E V
UniRef90_B6JVR7 T E S W V A R W Q R I D T P G M Y A T R V
UniRef90_A9UT62 S D S W V A K W Q G N D V P G C Y A L R
UniRef90_L8WPD0 E D S W V G R W Q R V H K K G M Y A V R V
UniRef90_F4PUM7 N E S W V A R K Q H I K V P G C Y A L S I K
UniRef90_W7IFC1 T E S W I A K W L R L D K P G V Y A T K V
UniRef90_UPI000441084A D Q S W V A R W Q R T A K P G M Y A I Q V


1 10 20 30 40
UniRef90_K0TRL8 K G L R A C M R C G I V K T E Q G C E N C G N S E T T A F F E G Q V A V A D P
UniRef90_G8BGN1 T E R A C M L C G I I Q P Q D G C P N C E G D C T S P S F E G L V A M G D D
UniRef90_I0YXV3 A C I S C H L V K T L D Q C E N C G F E C T T V A F Q G M V S V I D P
UniRef90_S3DAA5 H R N L R A C M V C A I V R T K H G C P N C G S P D T S Q V F E G L I A L A D P
UniRef90_V9D976 R T R A C M V C S I V Q S D Q E C P N C E G E C T S Q V F E G L I A L N D P
UniRef90_UPI0002658DBC R A C M L C S L V F E D M G C E N C G N R E T S T R F D G I I A L M Q P
UniRef90_F2SPT1 R A C M V C S I V Q M N E G C P N C G N S E T S Q V F E G L V A L A D E
UniRef90_I4Y5U1 H S K F R A C L M C S Y L Q E G K E C P N C G S S E T S G Q Y D G I V A L T Q P
UniRef90_W9X5G8 R T R A C M V C S I V Q S R N G C P N C N S Q D T S Q V F E G L I A M G D P
UniRef90_A0A059ELE5 K K L R A C L S C S L L K S S T S C E N C P S E Y T S D N Y K G I I F I N D S
UniRef90_M2Y229 K L R A C M V C G L V K T F N Q C E N C P S T V T T S L F S G L V S V T R P
UniRef90_UPI0003F48F97 R A C L V C G I L Q T P D G C P N C G N A D T S A L Y D G V I A M M Q P
UniRef90_L0PF16 R A C L L C G I V L P S E G C P N C E S E C T S P I Y E G I L A V M Q P
UniRef90_B8BTE9 K G V R A C M R C G I I K T L D Q C E N C P F L D M A G N F E G Q V A V M D P
UniRef90_E3L9Q2 K L R A C M V C S F V Q S A A Q C P N C G S V E T S G T F D G T V A M M N P
UniRef90_S8B652 R A C M V C S V V Q M R D G C P N C G N N D T S Q V F E G L I A I Q D P
UniRef90_Q4D6U3 G Y L A C R Q C R L I L T E D G C S V C G S R D T T A D F S N F V G L I A P
UniRef90_G3ASH1 S E R A C M L C G I I Q P F K K C P N C E S D C T S P S F E G T V A L A D N
UniRef90_D8QX48 R A C L R C R L V K T Y D Q C E N C K F E C T T V N F S G L I S S M D P
UniRef90_W4KEX8 R A C L L C S I V Q T P N G C P N C G S P D T T T Y Y D G I I A V I D P
UniRef90_J9JBA2 K L R A C I Y C K L V L N Q E Q C P N C P E S E T T D N Y E S L I S L V L P
UniRef90_G1XDC1 R A C M V C A V V L T R K G C P N C H G S D L S P I Y E G C I S I D K P
UniRef90_E0V9I1 R A C L V C S L I K T M D Q C D N C D E D C T S S N F D G M I A L M S P
UniRef90_R0MHD6 K L R A C K I C S Q L K P S N G C E N C P D E I L S N K F K G M I G L V D P
UniRef90_V2XHB0 R A C L L C S V I Q T S K G C P N C E S T C T T V Y F D G V I G V T D P
UniRef90_M3B8X8 R A C L V C S F T Q Q K S G C P N C N N T D T S E V F E G L V T V N D T
UniRef90_A4VDJ6 A C T N C Y F I L T Q E Q C P N C D V S S N T A K F T G I T C I T D P
UniRef90_G4TR62 R A C L V C T I I Q T K K G C P N C G N T D T T A Q F D G M T A L M N P
UniRef90_E4X6W5 R A C L I C S M I F E R Q G C D N C G N R D L S S S F T G M I G M M T P
UniRef90_T1JYI1 R A C L L C S L V F E V D G C D N C G N R E T S S N F D G M I G V T Q P
UniRef90_J9JZA6 R A C L V C S L I F E I D G C D N C N N R D T S S N F D G M V A L M S P
UniRef90_U4LJH0 R A C M I C S Y V Q T F Q K C P N C G P E A T S P V F E G L V A L R D P
UniRef90_H2ZEU0 R A C L L C S L I F E Y D G C E N C G N R D T S S S F D G L I S M M A P
UniRef90_B7XH90 K A C V N C R I L L S K D Q C P N C S S I D T S S Y Y K G Q I I Y L N T
UniRef90_M0RRS4 R A C L R C R L V K T Y D Q C E N C P F N C T T P N F T G I I S V M D P
UniRef90_G7E5P1 K Q R A C L S C S L I L T K S G C P N C P F Q C T T G T F E G V V A S V K P
UniRef90_R4FMM6 T A R A C L V C S L I F E F D G C D N C D E D C T S S N F D G M I A L M S P
UniRef90_G0U3J1 G Y L A C R Q C R L V L T E K Q C G V C G T G P T T A E F A N F V G L I A P
UniRef90_U5EZE9 R A C L V C S L V F E M D G C E N C D F D C T S N N F D G M I A V M S P
UniRef90_R7YIC0 R A C M V C S I V L L Q N G C P N C D S E C T S Q V Y E G L I M M A Q P
UniRef90_E5A0C8 H M R A C M V C S I V R T Q Q G C P N C E D D C T S Q V F E G L I T V A D T
UniRef90_U1LYD3 R A C L L C S M I F E Q D G C D N C E S E C T S S N F D G M I A V I I P
UniRef90_S8DRJ1 K Q L R A C L L C S I I Q T P A G C P N C E E A C T T T H F D G V I A V I D P
UniRef90_B7FXW7 K A V R A C K R C G I L K T P E Q C E N C P F L H M A D D Y E G Q A A V M D P
UniRef90_A0A024UTR3 R A C M I C S L V K T E S G C D N C G F L N M Q D N F E G M I A M M Q P
UniRef90_W1QAC6 R A C M L C G L V Q S N E G C P N C E S E C T S P T F E G L V A T H G D
UniRef90_M7NTY2 R A C L L C G I I L S S Q G C P N C A S E D T S P I Y E G V L A V M Q P
UniRef90_M5GC06 R A C L L C S I V Q T K S G C P N C E S E C T T T A F D G I I A M I N P
UniRef90_M5X4B4 R A C L R C R L V K T Y D Q C E N C P S D C T T P N F N G I I S M M D P
UniRef90_B3L262 N M Q E R A C L S C R L L R T E N G C S N C K F D C T T E N F N G F M A I T T P
UniRef90_M4CP69 R A C L R C R L V K T Y D Q C E N C P F D V T T P N F N G T I S M M D P
UniRef90_A0E5Y1 K A C Q Q C G M V L T V E Q C P N S C N A S Q T K L F S G M I C V L K P
UniRef90_E5SAC8 R A C L V C S M I F E S Q G C D N C H D R D T S A N F D G M I F L T D P
UniRef90_E3RX25 R A C M V C S V V R T Q Q Q C P N C G N P E T S Q V F D G L I S V S D T
UniRef90_A4RSX5 K G S R A C L Y C K L V Q T D N G C G N C G D K D T T S N Y S G M V S L L D G
UniRef90_C3YDJ1 R A C L L C S L I K T I D Q C D N C G N K D L S S N F D G V V S M M S P
UniRef90_J3PNQ6 K L R A C M V C S F V Q S K I G C P N C E E E C T S G T F D G T V A M M N P
UniRef90_A9P049 R A C L R C R L I K T E T G C E N C P A F N T T S N F S G I I S C M D P
UniRef90_K3WRG9 R A C M T C S L I K T D T G C E N C A F L Q M A D N F E G M I A M M Q P
UniRef90_W5JFX8 R A C L S C S L V F E N D G C D N C E D D C T S N N F D G M I A V M S P
UniRef90_M3DBK1 R A C L V C S F V Q S K T G C P N C N S S D T S E V F E G L V T V N D T
UniRef90_W1P6X7 R A C L R C R L V K T Y D Q C E N C K D H E T T P N F N G I I S C M D P
UniRef90_Q0CAD0 R E G C P N C G N D T S Q V F E G L I T L R D P
UniRef90_I1GSC7 R A C L R C R L V K T E N G C E N C P F N C T T A N F T G I I S L M D P
UniRef90_S4AA79 A C M I C S L L F E A N G C E N C N T A L T T K N F E G M V A L M K P
UniRef90_W2RVV9 R A C L L C S V V L S Y N S C P N C E D E M T S Q V F E G L I T L H D P
UniRef90_E1ZI13 C E N C P Y L N D R E R V Y D C T T S D F K G M V S V V D P
UniRef90_T0L673 K L K C C K L C S K I S S Q K G C D N C D S N I V S N K F K G M I G L V E P
UniRef90_F6VDP4 R A C L L C S L V F E Y D G C D N C D S D C T S S S F D G I I A M M S P
UniRef90_T0Q1V9 R A C M I C S L V K T E S G C D N C A T D C T T A Y F E G M I A M M Q P
UniRef90_A8I2N9 N K T L V C C Y V C R L I K S D Q G C D N C R N E D F T T N F S G M I S I M D P
UniRef90_UPI0004408E8A R A C L L C S I I Q S P N G C P N C Q S Q D T T T H F E G V I A A I D S
UniRef90_F0Y7M1 Q D G C E N C P A S C T T A S F D G V V A M M K P
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 7 1 3 2 1 0 3 3 5 0 1 1 7 7 7 7 6 5 4 6 6 7 7 7 7 7 7 7 3 3 7 8 8 8 8 7 4 0 8
sol25 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


50
60
UniRef90_K0TRL8 Q D S W T A K W L R V D L P G V Y A I S I
UniRef90_G8BGN1 K E S W V A R W L R I D V P G L Y A V K I
UniRef90_I0YXV3 A S S W C A K W L H L S K P G C Y A L S V
UniRef90_S3DAA5 S K S W V A K R L D G Y V K G V Y A T K V
UniRef90_V9D976 K T S W V A R W Q R L T E Q G I Y A V K V
UniRef90_UPI0002658DBC E D S W V A K W Q R L T L P G M Y A I S V
UniRef90_F2SPT1 R A S W V A Q R L D G Y V P G T Y A V K V
UniRef90_I4Y5U1 K G S W V G K W Q R V N E K G L Y A V R V
UniRef90_W9X5G8 K T S W V A R W Q R L T V P G V Y A V K V
UniRef90_A0A059ELE5 N K S W V A K W Q R I K V N G R Y A I I V
UniRef90_M2Y229 L D S W V A K W Q R V S V P G C Y A I A V R
UniRef90_UPI0003F48F97 E E S W V A K W Q R I D K K G L Y A V R V
UniRef90_L0PF16 T E S W V A K W Q R I N V G G I Y A V R V
UniRef90_B8BTE9 S E S W T A K W I R I D L P G V Y A I S V
UniRef90_E3L9Q2 K E S W V A K W Q R I S C P G L Y A I R I
UniRef90_S8B652 A V S W V A R W Q R L D V A G T Y A T K V
UniRef90_Q4D6U3 E K S W V A R M I G
UniRef90_G3ASH1 K E S W V A R W L R I D A P G L Y A V K V
UniRef90_D8QX48 T G S W A A R W L R I T V P G C Y A L A V
UniRef90_W4KEX8 E T S W V A R W Q R T S K R G I Y A V R V K
UniRef90_J9JBA2 L K S W V A Q W M R N C I P G I Y A M A V R
UniRef90_G1XDC1 T E S W I A K W L R L D K P G V Y A T K V
UniRef90_E0V9I1 E D S W V A K W Q R I N V K G V Y A I S V
UniRef90_R0MHD6 E K S W V A K R I N E N K K G L Y A M T V
UniRef90_V2XHB0 E N S W V A K W Q R T S V R G M Y A V R V K
UniRef90_M3B8X8 N T S W V A K W L R I Q V A G I Y A V K V
UniRef90_A4VDJ6 A K S W I V K R K D V K V P G A Y A V N I
UniRef90_G4TR62 K E S W V A K R V D I S V R G I Y A V R
UniRef90_E4X6W5 D Q S W V A K W Q R I D K P G M Y A I S V
UniRef90_T1JYI1 D E S W A A K W L R I P K P G I Y A V S V
UniRef90_J9JZA6 E D S W V A R W Q K I N T K G I Y A I S V
UniRef90_U4LJH0 V K S W V A R W Q R V E E K G V Y A V K V
UniRef90_H2ZEU0 D E S W V A K W Q R I K K P G C Y A I S V
UniRef90_B7XH90 K K S W I A R W Q K N T E N G F Y A I S V
UniRef90_M0RRS4 S R S W A A R W L R I Y I P G C Y T L A V
UniRef90_G7E5P1 Q E S W V A K F S R I E I P G A Y A L R
UniRef90_R4FMM6 E D S W V A K W Q R V S T K G I Y A I S V
UniRef90_G0U3J1 E K S W I A R L I G K T D N G V F A
UniRef90_U5EZE9 E D S W V C K W Q R I T V K G I Y A I S V
UniRef90_R7YIC0 Q D S W V A K W Q R V Y V P G V Y A T K V
UniRef90_E5A0C8 K R S W V A Q R L E G Y V P G V Y A T Q V
UniRef90_U1LYD3 E D S W V C K W Q K I S R K G M Y A I S V
UniRef90_S8DRJ1 E R S W V A T W Q R I K V R G M Y G V R V K
UniRef90_B7FXW7 R D S W A A K W I R V D L P G V Y A I T V
UniRef90_A0A024UTR3 K E S W V A K R I G K F V P G I Y A V A V
UniRef90_W1QAC6 Q G S W V A R W L R I E V P G L Y A V R V
UniRef90_M7NTY2 T E S W V A K W Q R I N V G G V Y A I R V
UniRef90_M5GC06 D E S W V A Q R T E K Y V K G V Y A I R V
UniRef90_M5X4B4 T R S W A G R W L R I G K P G V Y T L A V
UniRef90_B3L262 T K S W M A Q Y N D L S K P G F Y A L Q V
UniRef90_M4CP69 R R S W A A R W L R I G K P G C Y A L A V
UniRef90_A0E5Y1 S Q S W V I R K L G N P K P G L Y A I D V
UniRef90_E5SAC8 D D S W V G R W Q M I S K K G I Y A I S V
UniRef90_E3RX25 S R S W V A Q R L E G Y R P G V Y A T Q V
UniRef90_A4RSX5 R A S W V G K W L R L D V P G C Y A L S
UniRef90_C3YDJ1 D D S W V A K W Q R I N K P G C Y A I S
UniRef90_J3PNQ6 K E S W V A K W Q R I N C P G L Y A I R I
UniRef90_A9P049 T R S W S A R W L R I S V P G C Y T L A V
UniRef90_K3WRG9 K E S W V A K W Q R I V I P G I Y A V S V
UniRef90_W5JFX8 D D S W V C K W Q R I N T K G I Y A I S V
UniRef90_M3DBK1 S T G W V S R W L R I Q V P G V Y A T K V
UniRef90_W1P6X7 T K S W A A R W L R I S K P G C Y T L A V
UniRef90_Q0CAD0 A T S W V A Q R L D S Y V P G T Y A V K V
UniRef90_I1GSC7 S R S W A A R W L R I A K P G C Y T L A V
UniRef90_S4AA79 D V S W T G R W Q S I S K P G L Y A V G V
UniRef90_W2RVV9 A T S W V A K R L S G Y K P G I Y A T K V
UniRef90_E1ZI13 K T S W C A K W L H L R K P G C Y A L S V
UniRef90_T0L673 D K S W V A K W Q R I N K K G L Y A L T V
UniRef90_F6VDP4 E D S W V S K W Q R V S K P G V Y A V S V
UniRef90_T0Q1V9 R E S W V A K W R R I G V P G I Y A V S V
UniRef90_A8I2N9 K S S W A C K W L G K Y V P G S Y A M A V
UniRef90_UPI0004408E8A E A S W V A R W Q R T S K R G M Y A V R V K
UniRef90_F0Y7M1 E E S W I A R W E G I N L P G C Y A M K
lupas_21
lupas_14
lupas_28
jnet
conf 7 5 4 7 7 7 7 7 6 1 5 8 8 8 6 1 7 8 8 3 6 9
sol25 B B B B B B B B B
sol5 B B B B
sol0
jhmm
jpssm