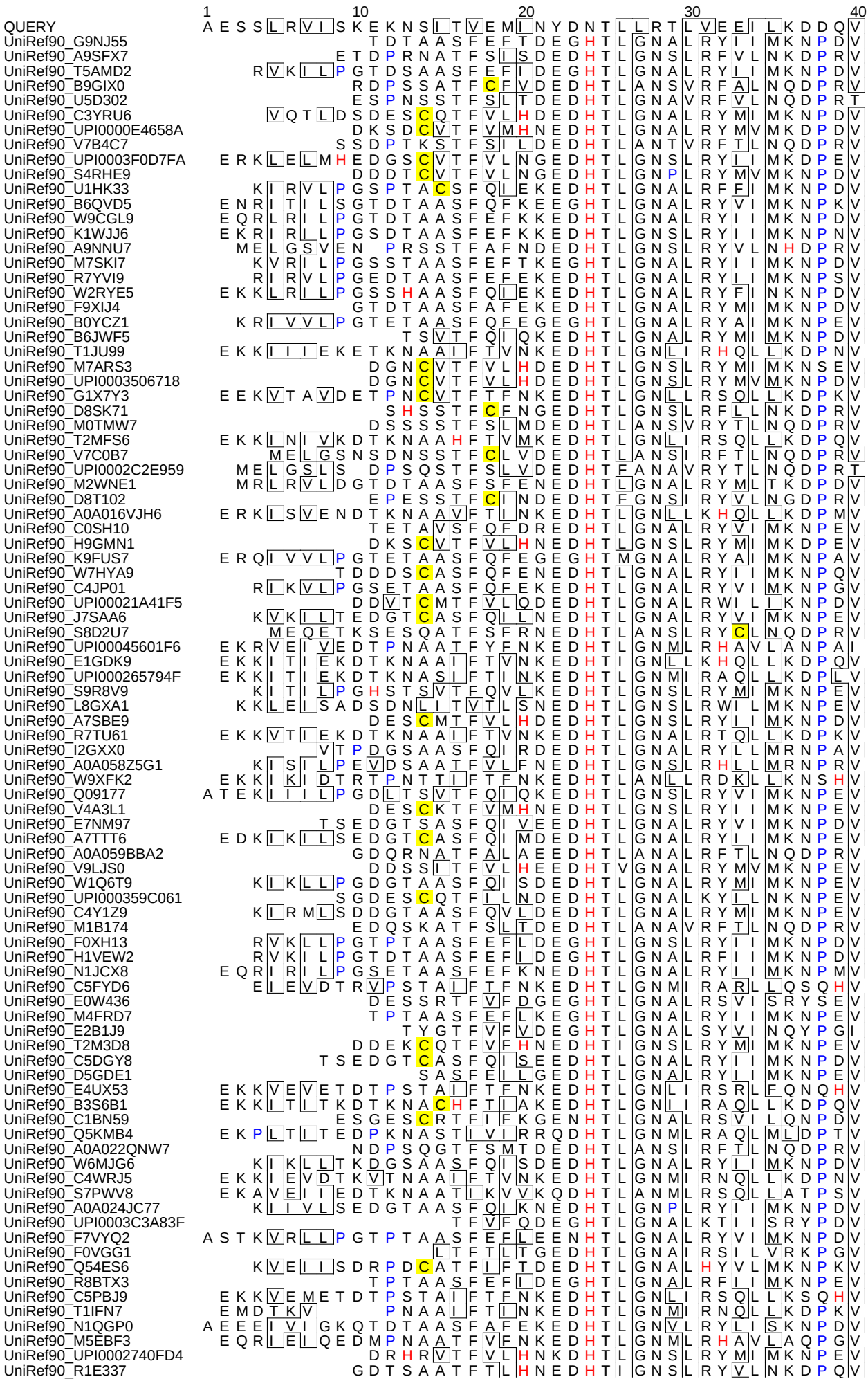
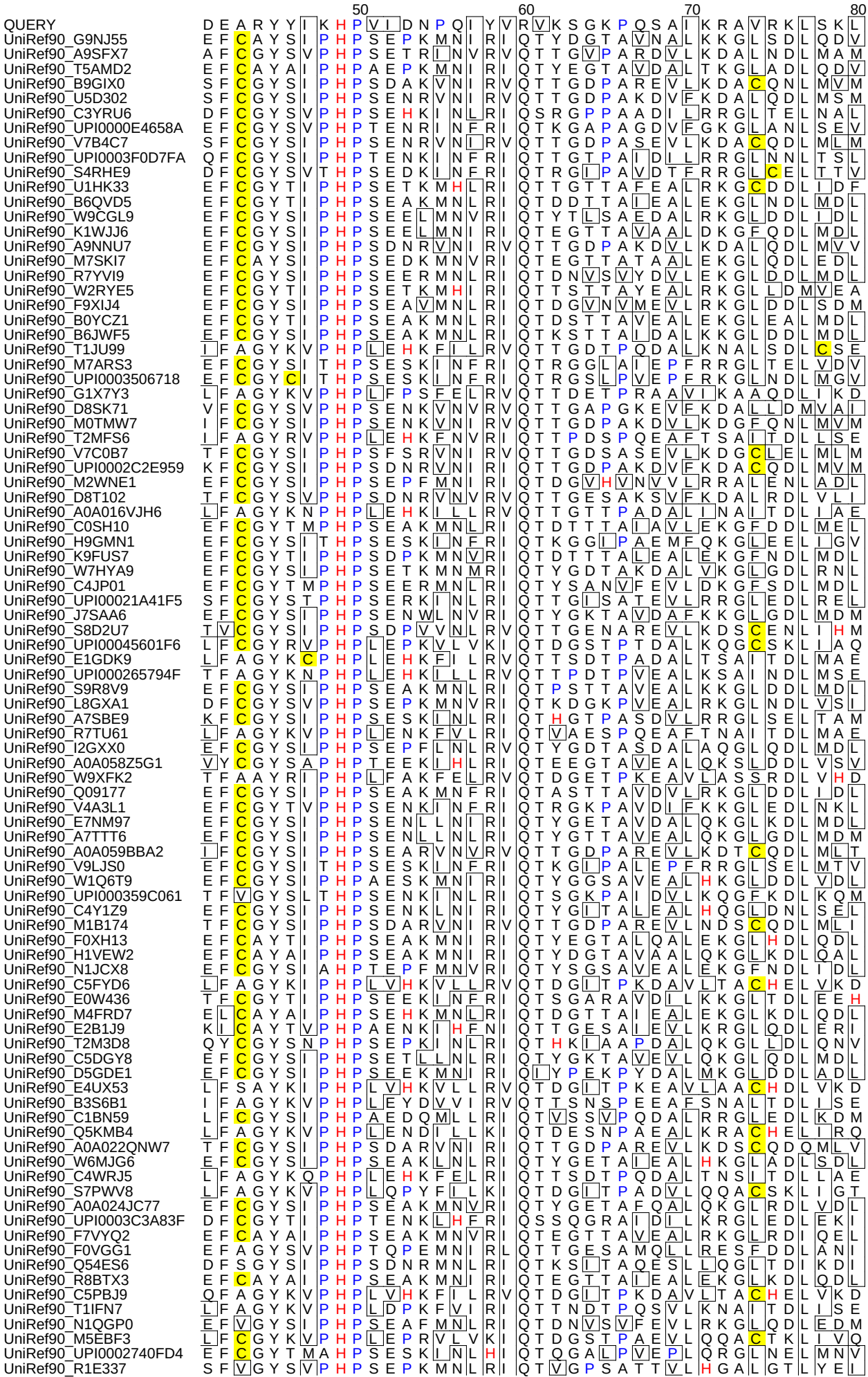
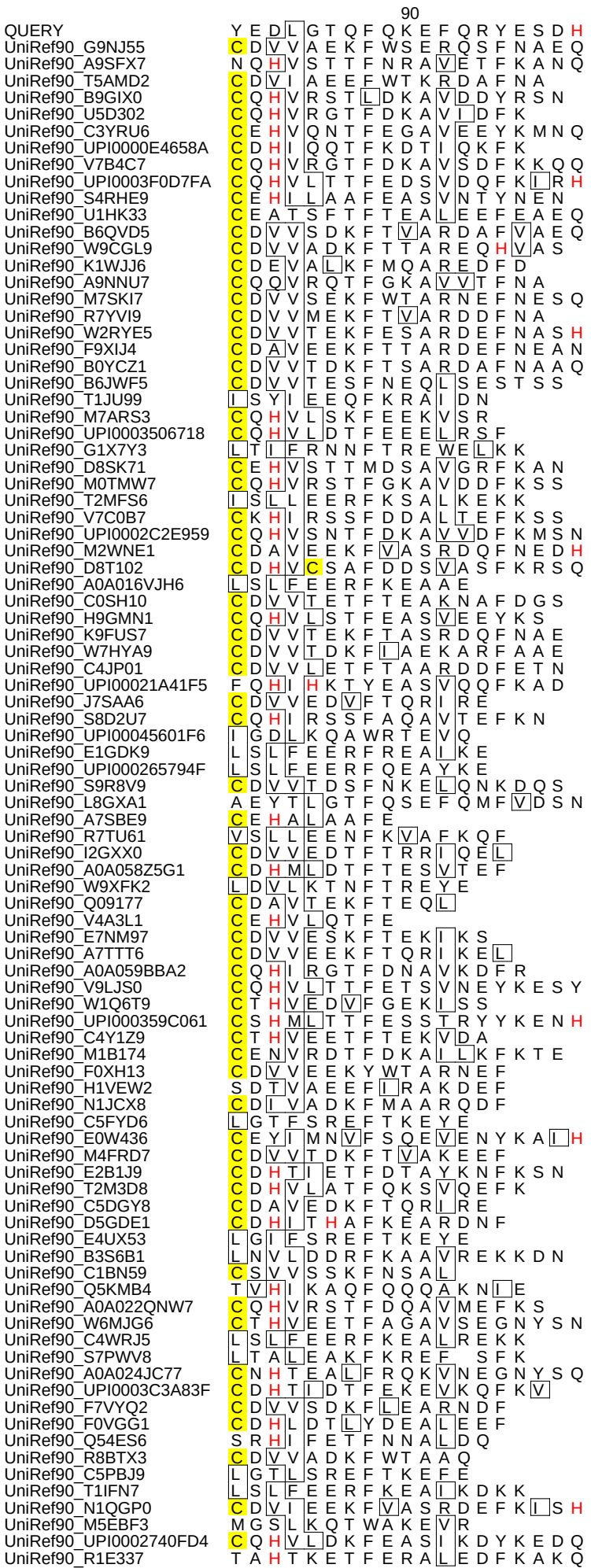
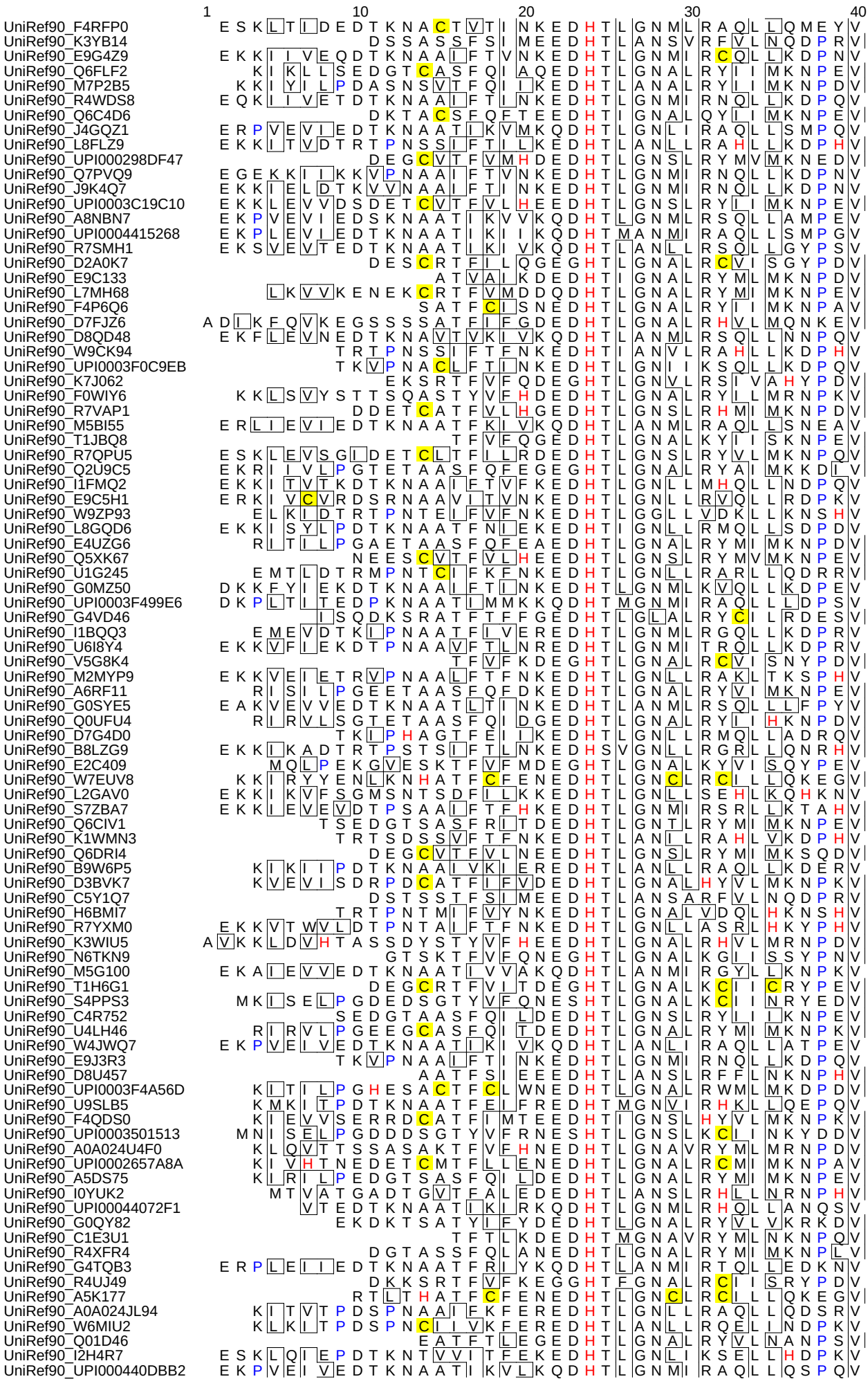
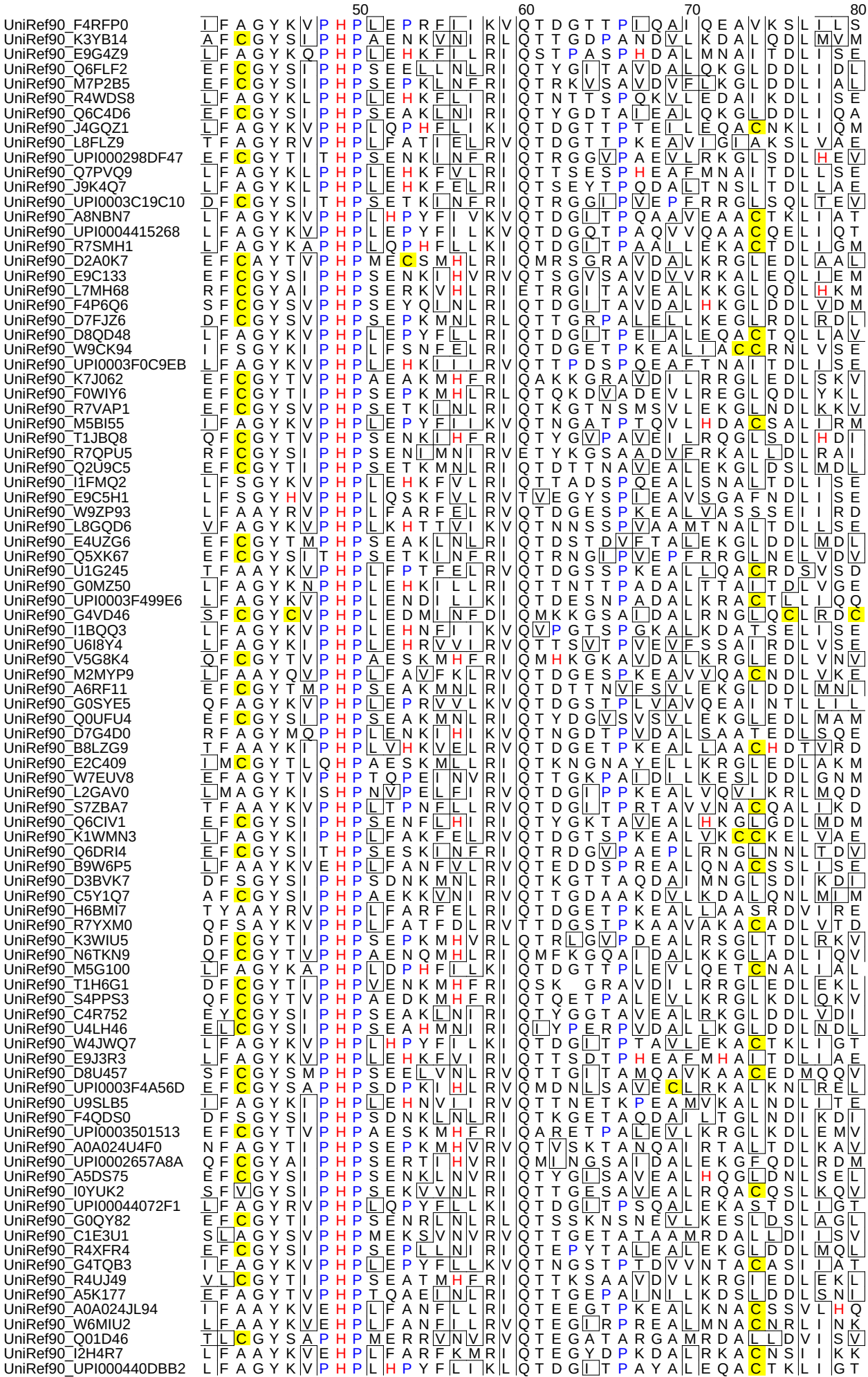

1
10
20
30
40
QUERY
UniRef90_G9NJ55
UniRef90_A9SFX7
UniRef90_T5AMD2
UniRef90_B9GIX0
UniRef90_U5D302
UniRef90_C3YRU6
UniRef90_UPI0000E4658A
UniRef90_V7B4C7
UniRef90_UPI0003F0D7FA
UniRef90_S4RHE9
UniRef90_U1HK33
UniRef90_B6QVD5
UniRef90_W9CGL9
UniRef90_K1WJJ6
UniRef90_A9NNU7
UniRef90_M7SKI7
UniRef90_R7YVI9
UniRef90_W2RYE5
UniRef90_F9XIJ4
UniRef90_B0YCZ1
UniRef90_B6JWF5
UniRef90_T1JU99
UniRef90_M7ARS3
UniRef90_UPI0003506718
UniRef90_G1X7Y3
UniRef90_D8SK71
UniRef90_M0TMW7
UniRef90_T2MFS6
UniRef90_V7C0B7
UniRef90_UPI0002C2E959
UniRef90_M2WNE1
UniRef90_D8T102
UniRef90_A0A016VJH6
UniRef90_C0SH10
UniRef90_H9GMN1
UniRef90_K9FUS7
UniRef90_W7HYA9
UniRef90_C4JP01
UniRef90_UPI00021A41F5
UniRef90_J7SAA6
UniRef90_S8D2U7
UniRef90_UPI00045601F6
UniRef90_E1GDK9
UniRef90_UPI000265794F
UniRef90_S9R8V9
UniRef90_L8GXA1
UniRef90_A7SBE9
UniRef90_R7TU61
UniRef90_I2GXX0
UniRef90_A0A058Z5G1
UniRef90_W9XFK2
UniRef90_Q09177
UniRef90_V4A3L1
UniRef90_E7NM97
UniRef90_A7TTT6
UniRef90_A0A059BBA2
UniRef90_V9LJS0
UniRef90_W1Q6T9
UniRef90_UPI000359C061
UniRef90_C4Y1Z9
UniRef90_M1B174
UniRef90_F0XH13
UniRef90_H1VEW2
UniRef90_N1JCX8
UniRef90_C5FYD6
UniRef90_E0W436
UniRef90_M4FRD7
UniRef90_E2B1J9
UniRef90_T2M3D8
UniRef90_C5DGY8
UniRef90_D5GDE1
UniRef90_E4UX53
UniRef90_B3S6B1
UniRef90_C1BN59
UniRef90_Q5KMB4
UniRef90_A0A022QNW7
UniRef90_W6MJG6
UniRef90_C4WRJ5
UniRef90_S7PWV8
UniRef90_A0A024JC77
UniRef90_UPI0003C3A83F
UniRef90_F7VYQ2
UniRef90_F0VGG1
UniRef90_Q54ES6
UniRef90_R8BTX3
UniRef90_C5PBJ9
UniRef90_T1IFN7
UniRef90_N1QGP0
UniRef90_M5EBF3
UniRef90_UPI0002740FD4
UniRef90_R1E337

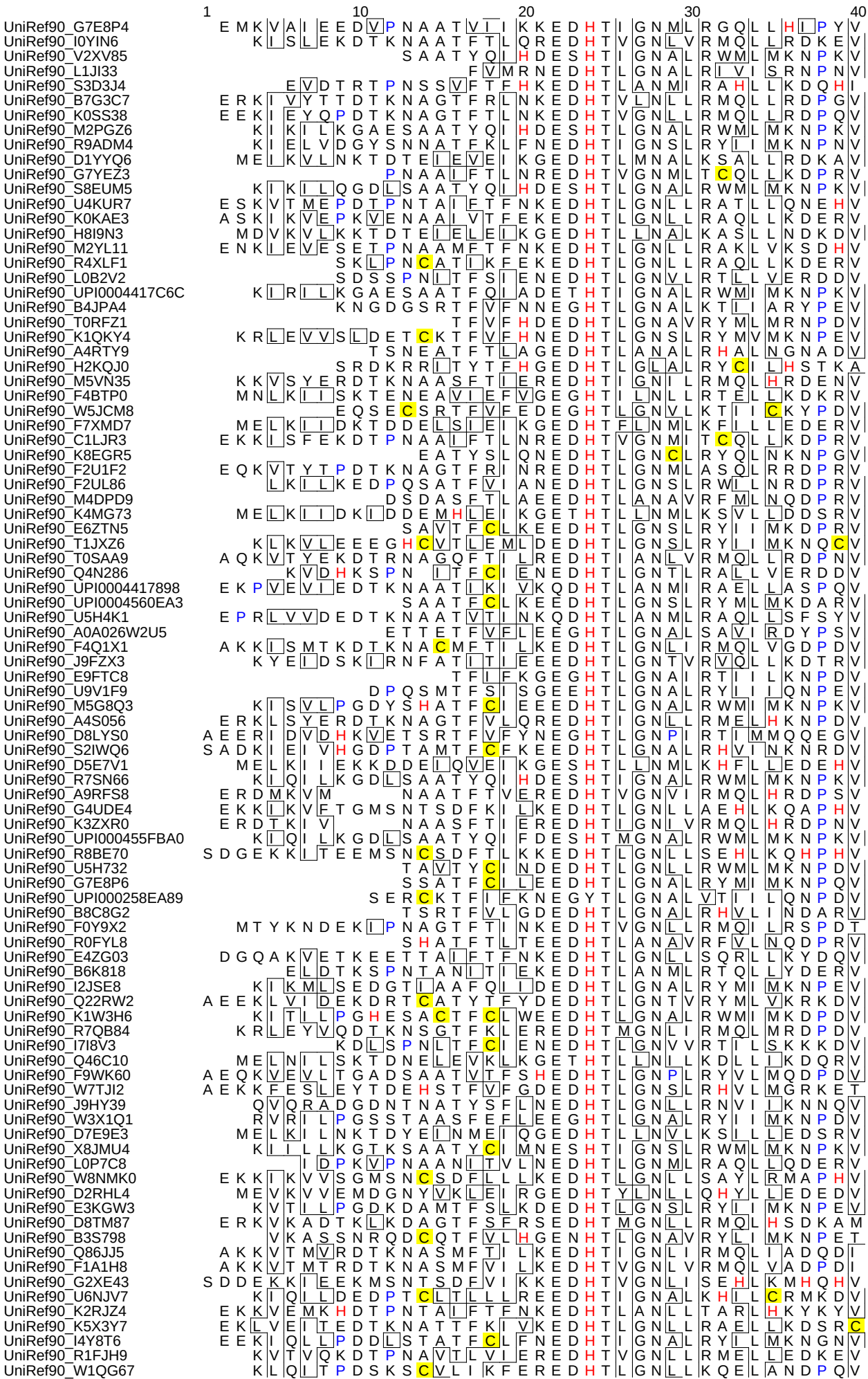

50
60
70
80
QUERY
UniRef90_G9NJ55
UniRef90_A9SFX7
UniRef90_T5AMD2
UniRef90_B9GIX0
UniRef90_U5D302
UniRef90_C3YRU6
UniRef90_UPI0000E4658A
UniRef90_V7B4C7
UniRef90_UPI0003F0D7FA
UniRef90_S4RHE9
UniRef90_U1HK33
UniRef90_B6QVD5
UniRef90_W9CGL9
UniRef90_K1WJJ6
UniRef90_A9NNU7
UniRef90_M7SKI7
UniRef90_R7YVI9
UniRef90_W2RYE5
UniRef90_F9XIJ4
UniRef90_B0YCZ1
UniRef90_B6JWF5
UniRef90_T1JU99
UniRef90_M7ARS3
UniRef90_UPI0003506718
UniRef90_G1X7Y3
UniRef90_D8SK71
UniRef90_M0TMW7
UniRef90_T2MFS6
UniRef90_V7C0B7
UniRef90_UPI0002C2E959
UniRef90_M2WNE1
UniRef90_D8T102
UniRef90_A0A016VJH6
UniRef90_C0SH10
UniRef90_H9GMN1
UniRef90_K9FUS7
UniRef90_W7HYA9
UniRef90_C4JP01
UniRef90_UPI00021A41F5
UniRef90_J7SAA6
UniRef90_S8D2U7
UniRef90_UPI00045601F6
UniRef90_E1GDK9
UniRef90_UPI000265794F
UniRef90_S9R8V9
UniRef90_L8GXA1
UniRef90_A7SBE9
UniRef90_R7TU61
UniRef90_I2GXX0
UniRef90_A0A058Z5G1
UniRef90_W9XFK2
UniRef90_Q09177
UniRef90_V4A3L1
UniRef90_E7NM97
UniRef90_A7TTT6
UniRef90_A0A059BBA2
UniRef90_V9LJS0
UniRef90_W1Q6T9
UniRef90_UPI000359C061
UniRef90_C4Y1Z9
UniRef90_M1B174
UniRef90_F0XH13
UniRef90_H1VEW2
UniRef90_N1JCX8
UniRef90_C5FYD6
UniRef90_E0W436
UniRef90_M4FRD7
UniRef90_E2B1J9
UniRef90_T2M3D8
UniRef90_C5DGY8
UniRef90_D5GDE1
UniRef90_E4UX53
UniRef90_B3S6B1
UniRef90_C1BN59
UniRef90_Q5KMB4
UniRef90_A0A022QNW7
UniRef90_W6MJG6
UniRef90_C4WRJ5
UniRef90_S7PWV8
UniRef90_A0A024JC77
UniRef90_UPI0003C3A83F
UniRef90_F7VYQ2
UniRef90_F0VGG1
UniRef90_Q54ES6
UniRef90_R8BTX3
UniRef90_C5PBJ9
UniRef90_T1IFN7
UniRef90_N1QGP0
UniRef90_M5EBF3
UniRef90_UPI0002740FD4
UniRef90_R1E337

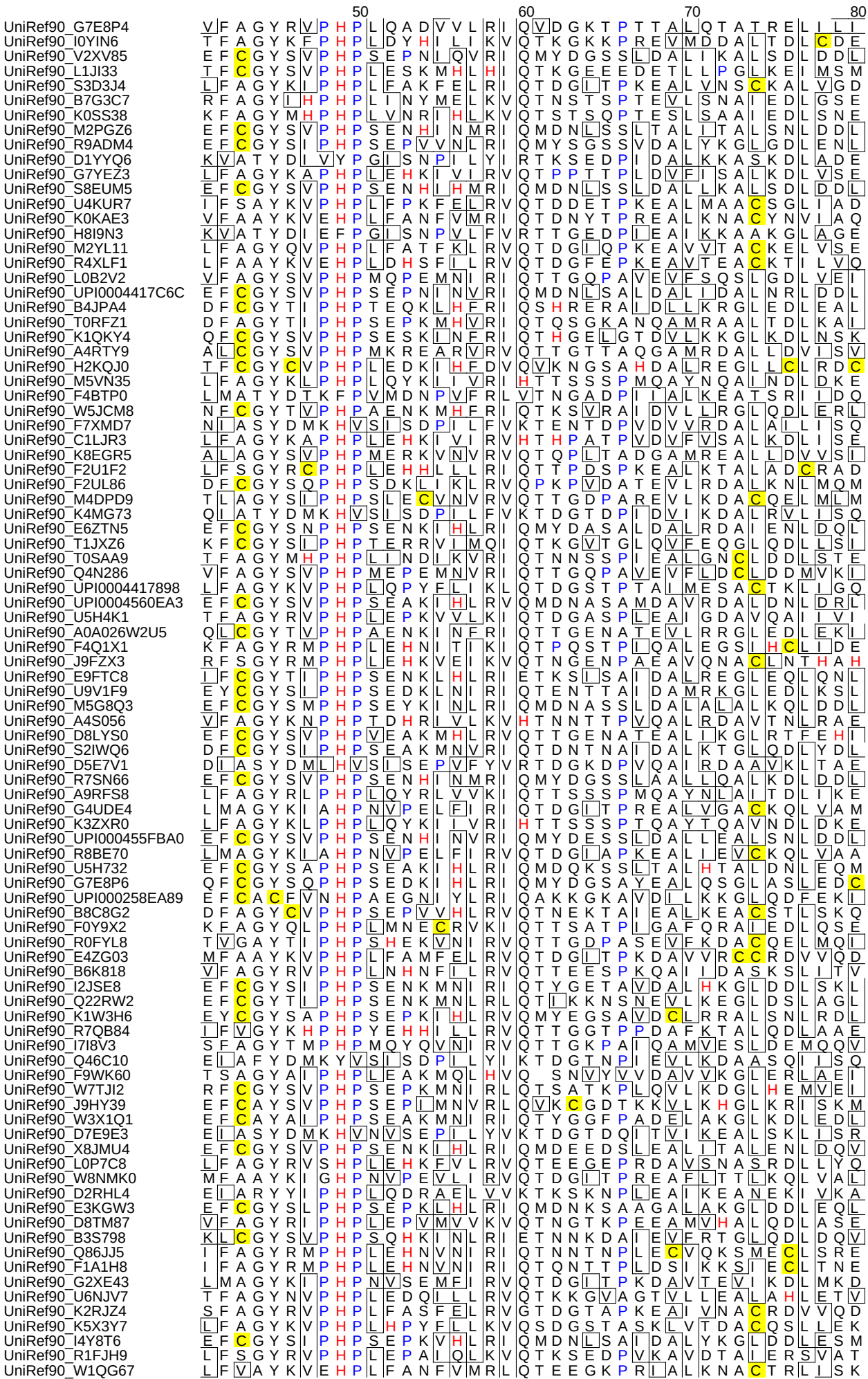

90
QUERY Y E D L G T Q F Q K E F Q R Y E S D H
UniRef90_G9NJ55 C D V V A E K F W S E R Q S F N A E Q
UniRef90_A9SFX7 N Q H V S T T F N R A V E T F K A N Q
UniRef90_T5AMD2 C D V I A E E F W T K R D A F N A
UniRef90_B9GIX0 C Q H V R S T L D K A V D D Y R S N
UniRef90_U5D302 C Q H V R G T F D K A V I D F K
UniRef90_C3YRU6 C E H V Q N T F E G A V E E Y K M N Q
UniRef90_UPI0000E4658A C D H I Q Q T F K D T I Q K F K
UniRef90_V7B4C7 C Q H V R G T F D K A V S D F K K Q Q
UniRef90_UPI0003F0D7FA C Q H V L T T F E D S V D Q F K I R H
UniRef90_S4RHE9 C E H I L A A F E A S V N T Y N E N
UniRef90_U1HK33 C E A T S F T F T E A L E E F E A E Q
UniRef90_B6QVD5 C D V V S D K F T V A R D A F V A E Q
UniRef90_W9CGL9 C D V V A D K F T T A R E Q H V A S
UniRef90_K1WJJ6 C D E V A L K F M Q A R E D F D
UniRef90_A9NNU7 C Q Q V R Q T F G K A V V T F N A
UniRef90_M7SKI7 C D V V S E K F W T A R N E F N E S Q
UniRef90_R7YVI9 C D V V M E K F T V A R D D F N A
UniRef90_W2RYE5 C D V V T E K F E S A R D E F N A S H
UniRef90_F9XIJ4 C D A V E E K F T T A R D E F N E A N
UniRef90_B0YCZ1 C D V V T D K F T S A R D A F N A A Q
UniRef90_B6JWF5 C D V V T E S F N E Q L S E S T S S
UniRef90_T1JU99 I S Y I E E Q F K R A I D N
UniRef90_M7ARS3 C Q H V L S K F E E K V S R
UniRef90_UPI0003506718 C Q H V L D T F E E E L R S F
UniRef90_G1X7Y3 L T I F R N N F T R E W E L K K
UniRef90_D8SK71 C E H V S T T M D S A V G R F K A N
UniRef90_M0TMW7 C Q H V R S T F G K A V D D F K S S
UniRef90_T2MFS6 I S L L E E R F K S A L K E K K
UniRef90_V7C0B7 C K H I R S S F D D A L T E F K S S
UniRef90_UPI0002C2E959 C Q H V S N T F D K A V V D F K M S N
UniRef90_M2WNE1 C D A V E E K F V A S R D Q F N E D H
UniRef90_D8T102 C D H V C S A F D D S V A S F K R S Q
UniRef90_A0A016VJH6 L S L F E E R F K E A A E
UniRef90_C0SH10 C D V V T E T F T E A K N A F D G S
UniRef90_H9GMN1 C Q H V L S T F E A S V E E Y K S
UniRef90_K9FUS7 C D V V T E K F T A S R D Q F N A E
UniRef90_W7HYA9 C D V V T D K F I A E K A R F A A E
UniRef90_C4JP01 C D V V L E T F T A A R D D F E T N
UniRef90_UPI00021A41F5 F Q H I H K T Y E A S V Q Q F K A D
UniRef90_J7SAA6 C D V V E D V F T Q R I R E
UniRef90_S8D2U7 C Q H I R S S F A Q A V T E F K N
UniRef90_UPI00045601F6 I G D L K Q A W R T E V Q
UniRef90_E1GDK9 L S L F E E R F R E A I K E
UniRef90_UPI000265794F L S L F E E R F Q E A Y K E
UniRef90_S9R8V9 C D V V T D S F N K E L Q N K D Q S
UniRef90_L8GXA1 A E Y T L G T F Q S E F Q M F V D S N
UniRef90_A7SBE9 C E H A L A A F E
UniRef90_R7TU61 V S L L E E N F K V A F K Q F
UniRef90_I2GXX0 C D V V E D T F T R R I Q E L
UniRef90_A0A058Z5G1 C D H M L D T F T E S V T E F
UniRef90_W9XFK2 L D V L K T N F T R E Y E
UniRef90_Q09177 C D A V T E K F T E Q L
UniRef90_V4A3L1 C E H V L Q T F E
UniRef90_E7NM97 C D V V E S K F T E K I K S
UniRef90_A7TTT6 C D V V E E K F T Q R I K E L
UniRef90_A0A059BBA2 C Q H I R G T F D N A V K D F R
UniRef90_V9LJS0 C Q H V L T T F E T S V N E Y K E S Y
UniRef90_W1Q6T9 C T H V E D V F G E K I S S
UniRef90_UPI000359C061 C S H M L T T F E S S T R Y Y K E N H
UniRef90_C4Y1Z9 C T H V E E T F T E K V D A
UniRef90_M1B174 C E N V R D T F D K A I L K F K T E
UniRef90_F0XH13 C D V V E E K Y W T A R N E F
UniRef90_H1VEW2 S D T V A E E F I R A K D E F
UniRef90_N1JCX8 C D I V A D K F M A A R Q D F
UniRef90_C5FYD6 L G T F S R E F T K E Y E
UniRef90_E0W436 C E Y I M N V F S Q E V E N Y K A I H
UniRef90_M4FRD7 C D V V T D K F T V A K E E F
UniRef90_E2B1J9 C D H T I E T F D T A Y K N F K S N
UniRef90_T2M3D8 C D H V L A T F Q K S V Q E F K
UniRef90_C5DGY8 C D A V E D K F T Q R I R E
UniRef90_D5GDE1 C D H I T H A F K E A R D N F
UniRef90_E4UX53 L G I F S R E F T K E Y E
UniRef90_B3S6B1 L N V L D D R F K A A V R E K K D N
UniRef90_C1BN59 C S V V S S K F N S A L
UniRef90_Q5KMB4 T V H I K A Q F Q Q Q A K N I E
UniRef90_A0A022QNW7 C Q H V R S T F D Q A V M E F K S
UniRef90_W6MJG6 C T H V E E T F A G A V S E G N Y S N
UniRef90_C4WRJ5 L S L F E E R F K E A L R E K K
UniRef90_S7PWV8 L T A L E A K F K R E F S F K
UniRef90_A0A024JC77 C N H T E A L F R Q K V N E G N Y S Q
UniRef90_UPI0003C3A83F C D H T I D T F E K E V K Q F K V
UniRef90_F7VYQ2 C D V V S D K F L E A R N D F
UniRef90_F0VGG1 C D H L D T L Y D E A L E E F
UniRef90_Q54ES6 S R H I F E T F N N A L D Q
UniRef90_R8BTX3 C D V V A D K F W T A A Q
UniRef90_C5PBJ9 L G T L S R E F T K E F E
UniRef90_T1IFN7 L S L F E E R F K E A I K D K K
UniRef90_N1QGP0 C D V I E E K F V A S R D E F K I S H
UniRef90_M5EBF3 M G S L K Q T W A K E V R
UniRef90_UPI0002740FD4 C Q H V L D K F E A S I K D Y K E D Q
UniRef90_R1E337 T A H T K E T F E R A L E D F K A K Q

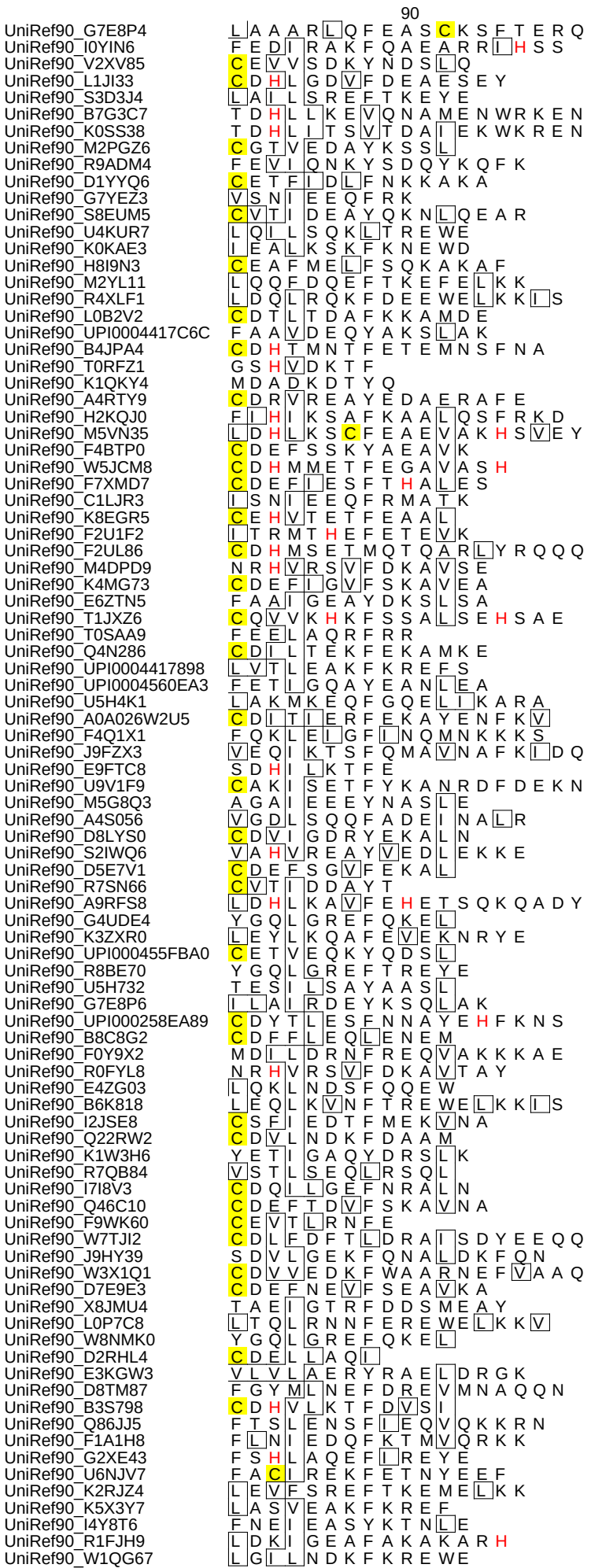

1
10
20
30
40
UniRef90_F4RFP0
UniRef90_K3YB14
UniRef90_E9G4Z9
UniRef90_Q6FLF2
UniRef90_M7P2B5
UniRef90_R4WDS8
UniRef90_Q6C4D6
UniRef90_J4GQZ1
UniRef90_L8FLZ9
UniRef90_UPI000298DF47
UniRef90_Q7PVQ9
UniRef90_J9K4Q7
UniRef90_UPI0003C19C10
UniRef90_A8NBN7
UniRef90_UPI0004415268
UniRef90_R7SMH1
UniRef90_D2A0K7
UniRef90_E9C133
UniRef90_L7MH68
UniRef90_F4P6Q6
UniRef90_D7FJZ6
UniRef90_D8QD48
UniRef90_W9CK94
UniRef90_UPI0003F0C9EB
UniRef90_K7J062
UniRef90_F0WIY6
UniRef90_R7VAP1
UniRef90_M5BI55
UniRef90_T1JBQ8
UniRef90_R7QPU5
UniRef90_Q2U9C5
UniRef90_I1FMQ2
UniRef90_E9C5H1
UniRef90_W9ZP93
UniRef90_L8GQD6
UniRef90_E4UZG6
UniRef90_Q5XK67
UniRef90_U1G245
UniRef90_G0MZ50
UniRef90_UPI0003F499E6
UniRef90_G4VD46
UniRef90_I1BQQ3
UniRef90_U6I8Y4
UniRef90_V5G8K4
UniRef90_M2MYP9
UniRef90_A6RF11
UniRef90_G0SYE5
UniRef90_Q0UFU4
UniRef90_D7G4D0
UniRef90_B8LZG9
UniRef90_E2C409
UniRef90_W7EUV8
UniRef90_L2GAV0
UniRef90_S7ZBA7
UniRef90_Q6CIV1
UniRef90_K1WMN3
UniRef90_Q6DRI4
UniRef90_B9W6P5
UniRef90_D3BVK7
UniRef90_C5Y1Q7
UniRef90_H6BMI7
UniRef90_R7YXM0
UniRef90_K3WIU5
UniRef90_N6TKN9
UniRef90_M5G100
UniRef90_T1H6G1
UniRef90_S4PPS3
UniRef90_C4R752
UniRef90_U4LH46
UniRef90_W4JWQ7
UniRef90_E9J3R3
UniRef90_D8U457
UniRef90_UPI0003F4A56D
UniRef90_U9SLB5
UniRef90_F4QDS0
UniRef90_UPI0003501513
UniRef90_A0A024U4F0
UniRef90_UPI0002657A8A
UniRef90_A5DS75
UniRef90_I0YUK2
UniRef90_UPI00044072F1
UniRef90_G0QY82
UniRef90_C1E3U1
UniRef90_R4XFR4
UniRef90_G4TQB3
UniRef90_R4UJ49
UniRef90_A5K177
UniRef90_A0A024JL94
UniRef90_W6MIU2
UniRef90_Q01D46
UniRef90_I2H4R7
UniRef90_UPI000440DBB2

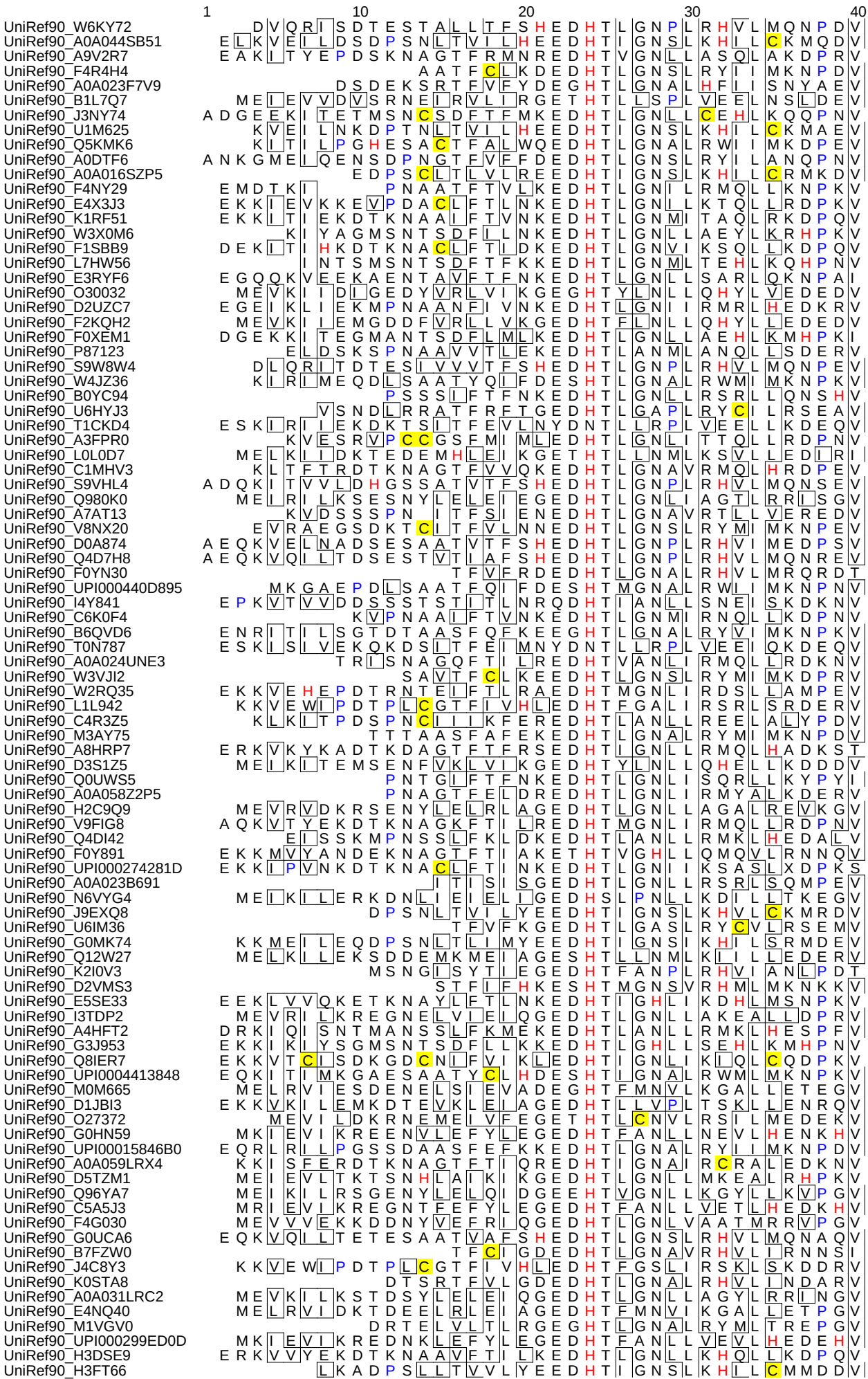

50
60
70
80
UniRef90_F4RFP0
UniRef90_K3YB14
UniRef90_E9G4Z9
UniRef90_Q6FLF2
UniRef90_M7P2B5
UniRef90_R4WDS8
UniRef90_Q6C4D6
UniRef90_J4GQZ1
UniRef90_L8FLZ9
UniRef90_UPI000298DF47
UniRef90_Q7PVQ9
UniRef90_J9K4Q7
UniRef90_UPI0003C19C10
UniRef90_A8NBN7
UniRef90_UPI0004415268
UniRef90_R7SMH1
UniRef90_D2A0K7
UniRef90_E9C133
UniRef90_L7MH68
UniRef90_F4P6Q6
UniRef90_D7FJZ6
UniRef90_D8QD48
UniRef90_W9CK94
UniRef90_UPI0003F0C9EB
UniRef90_K7J062
UniRef90_F0WIY6
UniRef90_R7VAP1
UniRef90_M5BI55
UniRef90_T1JBQ8
UniRef90_R7QPU5
UniRef90_Q2U9C5
UniRef90_I1FMQ2
UniRef90_E9C5H1
UniRef90_W9ZP93
UniRef90_L8GQD6
UniRef90_E4UZG6
UniRef90_Q5XK67
UniRef90_U1G245
UniRef90_G0MZ50
UniRef90_UPI0003F499E6
UniRef90_G4VD46
UniRef90_I1BQQ3
UniRef90_U6I8Y4
UniRef90_V5G8K4
UniRef90_M2MYP9
UniRef90_A6RF11
UniRef90_G0SYE5
UniRef90_Q0UFU4
UniRef90_D7G4D0
UniRef90_B8LZG9
UniRef90_E2C409
UniRef90_W7EUV8
UniRef90_L2GAV0
UniRef90_S7ZBA7
UniRef90_Q6CIV1
UniRef90_K1WMN3
UniRef90_Q6DRI4
UniRef90_B9W6P5
UniRef90_D3BVK7
UniRef90_C5Y1Q7
UniRef90_H6BMI7
UniRef90_R7YXM0
UniRef90_K3WIU5
UniRef90_N6TKN9
UniRef90_M5G100
UniRef90_T1H6G1
UniRef90_S4PPS3
UniRef90_C4R752
UniRef90_U4LH46
UniRef90_W4JWQ7
UniRef90_E9J3R3
UniRef90_D8U457
UniRef90_UPI0003F4A56D
UniRef90_U9SLB5
UniRef90_F4QDS0
UniRef90_UPI0003501513
UniRef90_A0A024U4F0
UniRef90_UPI0002657A8A
UniRef90_A5DS75
UniRef90_I0YUK2
UniRef90_UPI00044072F1
UniRef90_G0QY82
UniRef90_C1E3U1
UniRef90_R4XFR4
UniRef90_G4TQB3
UniRef90_R4UJ49
UniRef90_A5K177
UniRef90_A0A024JL94
UniRef90_W6MIU2
UniRef90_Q01D46
UniRef90_I2H4R7
UniRef90_UPI000440DBB2

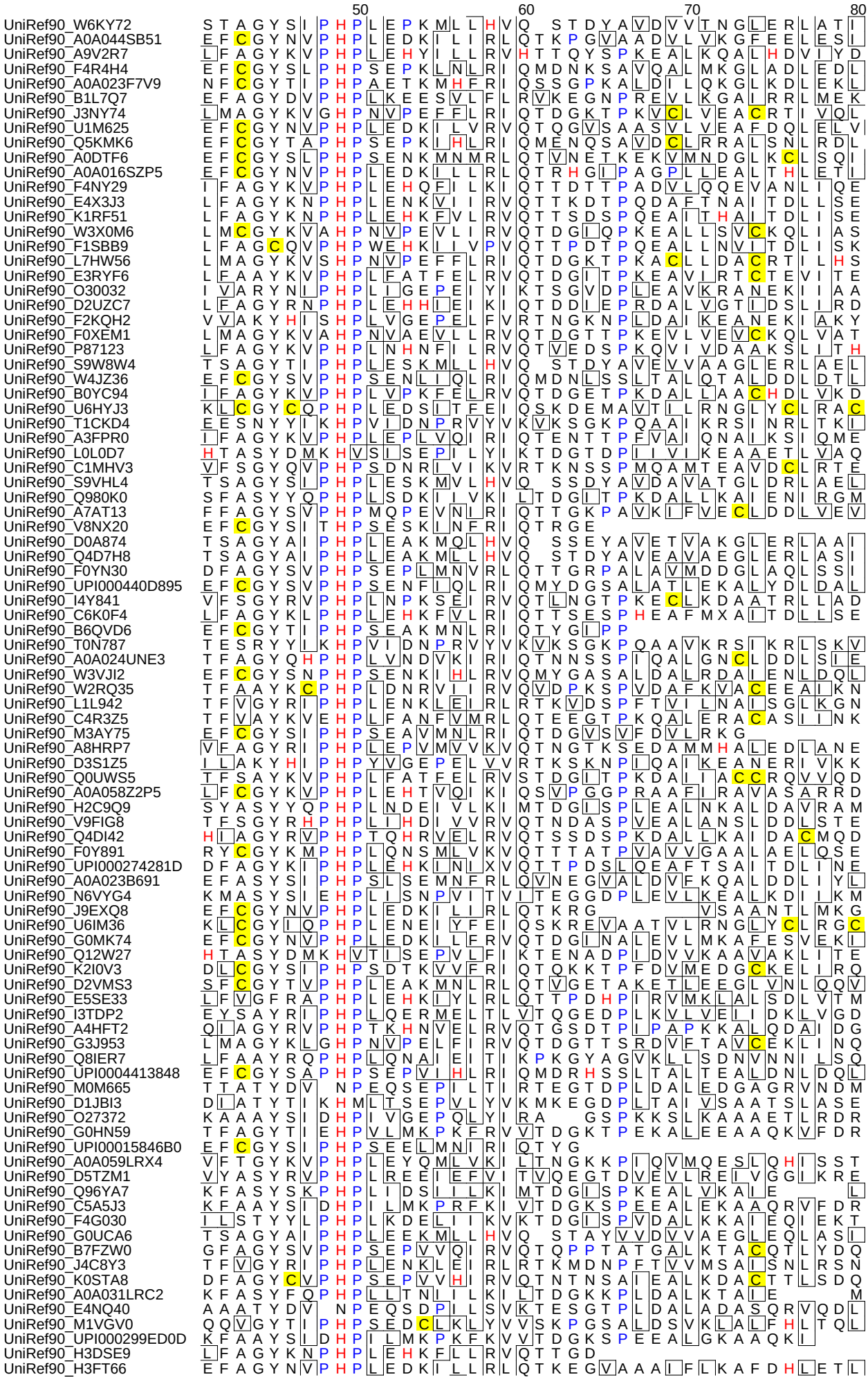
90
UniRef90_F4RFP0 L D K M R N S L Q N E F R V A K A
UniRef90_K3YB14 C Q Y I R G T F D T S V A D F R G N
UniRef90_E9G4Z9 L S L L E E R F R D A V R E K R
UniRef90_Q6FLF2 C D A V K D K F V Q R L Q S
UniRef90_M7P2B5 C D H V A D T F Q K E I R F S N S
UniRef90_R4WDS8 L S L F E E R F K E A I K E K K
UniRef90_Q6C4D6 C D V V K N K F T D A V T D F T S K N
UniRef90_J4GQZ1 M V S L E A K F K R E F S F K D V D
UniRef90_L8FLZ9 L A Q L S R E F T K E F E
UniRef90_UPI000298DF47 C Q H V L N T F E V S L R
UniRef90_Q7PVQ9 L S L F E E R F R E A M K E K K
UniRef90_J9K4Q7 L S L F E E R F K D A L K Q K K D E
UniRef90_UPI0003C19C10 C Q H V L N T F E
UniRef90_A8NBN7 I N T V A Q K F K R E F S Y K D S
UniRef90_UPI0004415268 I S I L T E R F R Q E F T R K E M D
UniRef90_R7SMH1 V A T L E S K F K R E F
UniRef90_D2A0K7 S D H I L D E F T R E K Q N F D S
UniRef90_E9C133 C S H V A G V V Q T E F D
UniRef90_L7MH68 S E H M L K E F E E T V E K H K T
UniRef90_F4P6Q6 T T H V K E S F K D K V K Q
UniRef90_D7FJZ6 C N I L E E R V E R E I
UniRef90_D8QD48 V S V L K A K F E T Q F S Y K Q A E
UniRef90_W9CK94 L E V F S R E F T K E F E
UniRef90_UPI0003F0C9EB L S L L E E C F R V A I K D K Q
UniRef90_K7J062 C D H T I K T F E K A M D E Y N A
UniRef90_F0WIY6 S S H L N E V Y W K A L K A
UniRef90_R7VAP1 S K H V L D T F Q
UniRef90_M5BI55 I S D I K Q Q F T T K F D
UniRef90_T1JBQ8 S D H I E K T F K N S V
UniRef90_R7QPU5 S E H I K E S F T V K V E E Y H T R Q
UniRef90_Q2U9C5 C D V V T D K F T A S R D A F N A S
UniRef90_I1FMQ2 V T K I E T R F K
UniRef90_E9C5H1 M S L L E E R F R T E L N N H Q N P Q
UniRef90_W9ZP93 F E T L K T N F T R E Y E
UniRef90_L8GQD6 F N L L S E R F N S A L E K H Q
UniRef90_E4UZG6 C D V V T E K F V I S R E N F E A S
UniRef90_Q5XK67 C Q H V L N T F E T S I K E Y K
UniRef90_U1G245 L N T L S R E F T K E Y E
UniRef90_G0MZ50 L S L L E R R F D A A I K Q
UniRef90_UPI0003F499E6 L T E V K R Q F S Q Q A Q R I E
UniRef90_G4VD46 F Q H M K H T F I S A M K
UniRef90_I1BQQ3 I N A L K N K F D M E V I R H R T
UniRef90_U6I8Y4 I S S I E E Q F R S T I K
UniRef90_V5G8K4 C D T T L E K F E E E L Q N
UniRef90_M2MYP9 L Q T L D Q E F T K E W E L K K I S Q
UniRef90_A6RF11 C D T V T E T F I E A K N A F
UniRef90_G0SYE5 L G K V R S Q F Q Q E A V R A R A
UniRef90_Q0UFU4 C D V V E E K F K V S R D D F
UniRef90_D7G4D0 M E G L R E V F Q E Q V A A A K
UniRef90_B8LZG9 L G T L S R E F T K E F E
UniRef90_E2C409 C D H T I E T F D K A Y E E Y Q S S Q
UniRef90_W7EUV8 C D I M L N K F N E A L K Q
UniRef90_L2GAV0 F S H L S R E F T R E F E
UniRef90_S7ZBA7 L G I L S R E F T K E Y E
UniRef90_Q6CIV1 C D A V E D R F T Q R I R E
UniRef90_K1WMN3 M E T L S R E F T K E Y E
UniRef90_Q6DRI4 C K H V L Q T F E A R M K E F K
UniRef90_B9W6P5 L D V I K S K F N D E W
UniRef90_D3BVK7 S Q S V D E R I G E E
UniRef90_C5Y1Q7 C Q H V R G T L D N A V A N H R A K N
UniRef90_H6BMI7 L E V I K V K F T R E Y E
UniRef90_R7YXM0 L G K L S Q E F T K E W E
UniRef90_K3WIU5 S S T I S D A Y R K E L K A F N
UniRef90_N6TKN9 C D I T L D K F D E A V V S F N T
UniRef90_M5G100 V G K I D A K F R E Q F Q Q K E
UniRef90_T1H6G1 C D H T V E T F E K E F Q S F
UniRef90_S4PPS3 C D H T I Q S F E K E
UniRef90_C4R752 C D H V E K K F
UniRef90_U4LH46 C G V V R E K F T E A R D A H G K N
UniRef90_W4JWQ7 L A S L E T Q F K R E F S Y K E V E
UniRef90_E9J3R3 L S L F E E R F K
UniRef90_D8U457 C D H M R S T L S K A V A E F Q
UniRef90_UPI0003F4A56D F Q S I D S A Y S K S L Q Q G K
UniRef90_U9SLB5 V G Y L R T K F M E D L G R A R A
UniRef90_F4QDS0 G K H I L E T F N D A V N
UniRef90_UPI0003501513 C D H T I N L F D K E V K R F N
UniRef90_A0A024U4F0 S Q H V D K V F A K E L K S F K K K Q
UniRef90_UPI0002657A8A M E H I H A T F E D T I S A Y K E E
UniRef90_A5DS75 C D V V
UniRef90_I0YUK2 C E H I K A T F Q E E Y R E H
UniRef90_UPI00044072F1 L T T L E T K F R R E F Q
UniRef90_G0QY82 C D V L N D K F V D A L K K H K K N Q
UniRef90_C1E3U1 C D H V H D T F D T A V A D F K A K Q
UniRef90_R4XFR4 C D V M S E T F Q G E L D A I
UniRef90_G4TQB3 V S Q L E K R F E E Q F R D K E F D
UniRef90_R4UJ49 C D H T L T V F Q N E V T Q F K V A N
UniRef90_A5K177 C D I M L N K F D S V V K R
UniRef90_A0A024JL94 L S V I Q R K F K S E W E
UniRef90_W6MIU2 L G S L N D K F K A E W E
UniRef90_Q01D46 C D H V H E S Y E K A
UniRef90_I2H4R7 L G I L K T N F E T E W N
UniRef90_UPI000440DBB2 L A S L E T Q F K R E F S


1
10
20
30
40
UniRef90_G7E8P4
UniRef90_I0YIN6
UniRef90_V2XV85
UniRef90_L1JI33
UniRef90_S3D3J4
UniRef90_B7GC7
UniRef90_K0SS38
UniRef90_M2PGZ6
UniRef90_R9ADM4
UniRef90_D1YYQ6
UniRef90_G7YEZ3
UniRef90_S8EUM5
UniRef90_U4KUR7
UniRef90_K0KAE3
UniRef90_H8I9N3
UniRef90_M2YL11
UniRef90_R4XLF1
UniRef90_L0B2V2
UniRef90_UPI0004417C6C
UniRef90_B4JPA4
UniRef90_T0RFZ1
UniRef90_K1QKY4
UniRef90_A4RTY9
UniRef90_H2KQJ0
UniRef90_M5VN35
UniRef90_F4BTP0
UniRef90_W5JCM8
UniRef90_F7XMD7
UniRef90_C1LJR3
UniRef90_K8EGR5
UniRef90_F2U1F2
UniRef90_F2UL86
UniRef90_M4DPD9
UniRef90_K4MG73
UniRef90_E6ZTN5
UniRef90_T1JXZ6
UniRef90_T0SAA9
UniRef90_Q4N286
UniRef90_UPI0004417898
UniRef90_UPI0004560EA3
UniRef90_U5H4K1
UniRef90_A0A026W2U5
UniRef90_F4Q1X1
UniRef90_J9FZX3
UniRef90_E9FTC8
UniRef90_U9V1F9
UniRef90_M5G8Q3
UniRef90_A4S056
UniRef90_D8LYS0
UniRef90_S2IWQ6
UniRef90_D5E7V1
UniRef90_R7SN66
UniRef90_A9RFS8
UniRef90_G4UDE4
UniRef90_K3ZXR0
UniRef90_UPI000455FBA0
UniRef90_R8BE70
UniRef90_U5H732
UniRef90_G7E8P6
UniRef90_UPI000258EA89
UniRef90_B8C8G2
UniRef90_F0Y9X2
UniRef90_R0FYL8
UniRef90_E4ZG03
UniRef90_B6K818
UniRef90_I2JSE8
UniRef90_Q22RW2
UniRef90_K1W3H6
UniRef90_R7QB84
UniRef90_I7I8V3
UniRef90_Q46C10
UniRef90_F9WK60
UniRef90_W7TJI2
UniRef90_J9HY39
UniRef90_W3X1Q1
UniRef90_D7E9E3
UniRef90_X8JMU4
UniRef90_L0P7C8
UniRef90_W8NMK0
UniRef90_D2RHL4
UniRef90_E3KGW3
UniRef90_D8TM87
UniRef90_B3S798
UniRef90_Q86JJ5
UniRef90_F1A1H8
UniRef90_G2XE43
UniRef90_U6NJV7
UniRef90_K2RJZ4
UniRef90_K5X3Y7
UniRef90_I4Y8T6
UniRef90_R1FJH9
UniRef90_W1QG67

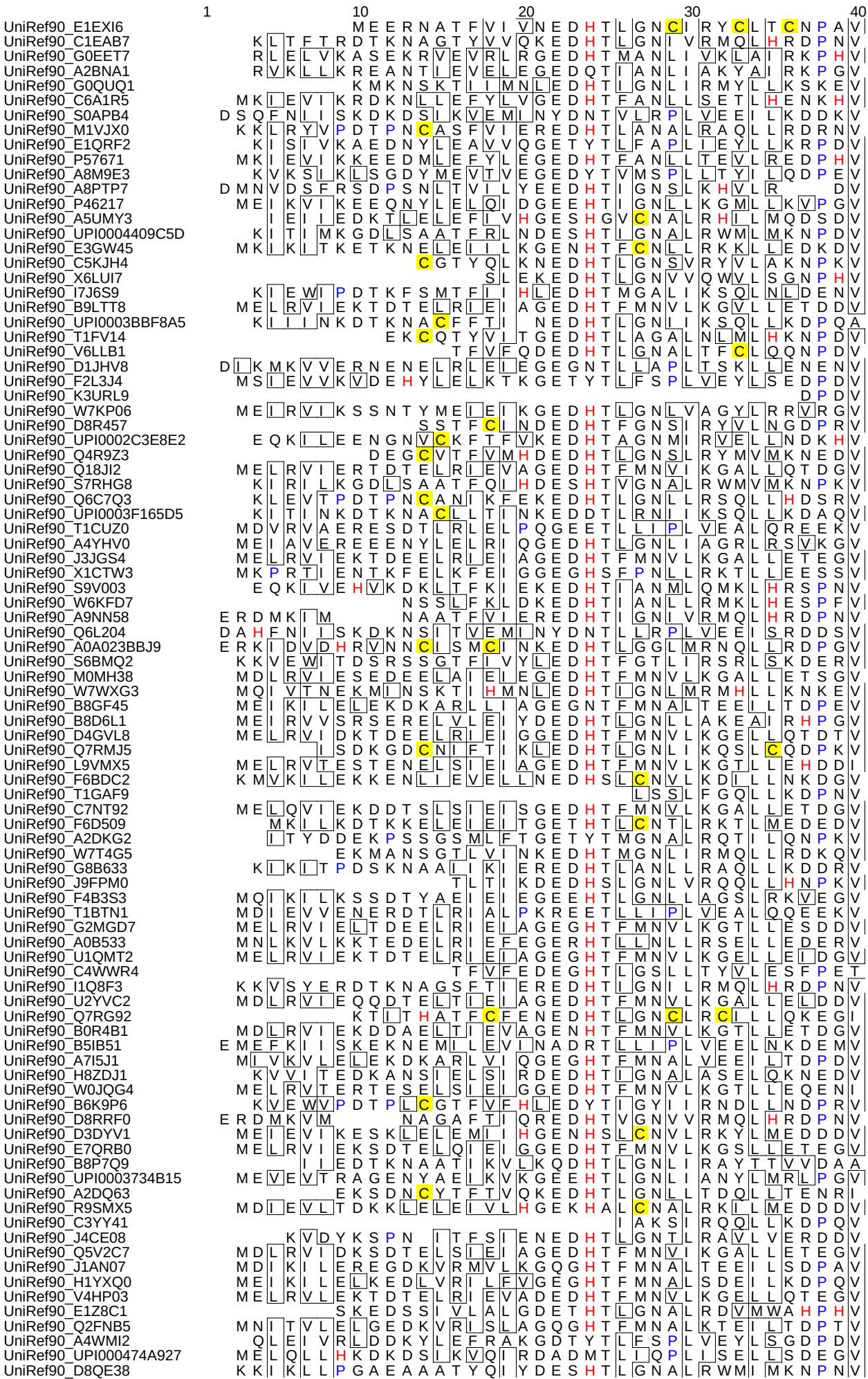

50
60
70
80
UniRef90_G7E8P4
UniRef90_I0YIN6
UniRef90_V2XV85
UniRef90_L1JI33
UniRef90_S3D3J4
UniRef90_B7G3C7
UniRef90_K0SS38
UniRef90_M2PGZ6
UniRef90_R9ADM4
UniRef90_D1YYQ6
UniRef90_G7YEZ3
UniRef90_S8EUM5
UniRef90_U4KUR7
UniRef90_K0KAE3
UniRef90_H8I9N3
UniRef90_M2YL11
UniRef90_R4XLF1
UniRef90_L0B2V2
UniRef90_UPI0004417C6C
UniRef90_B4JPA4
UniRef90_T0RFZ1
UniRef90_K1QKY4
UniRef90_A4RTY9
UniRef90_H2KQJ0
UniRef90_M5VN35
UniRef90_F4BTP0
UniRef90_W5JCM8
UniRef90_F7XMD7
UniRef90_C1LJR3
UniRef90_K8EGR5
UniRef90_F2U1F2
UniRef90_F2UL86
UniRef90_M4DPD9
UniRef90_K4MG73
UniRef90_E6ZTN5
UniRef90_T1JXZ6
UniRef90_T0SAA9
UniRef90_Q4N286
UniRef90_UPI0004417898
UniRef90_UPI0004560EA3
UniRef90_U5H4K1
UniRef90_A0A026W2U5
UniRef90_F4Q1X1
UniRef90_J9FZX3
UniRef90_E9FTC8
UniRef90_U9V1F9
UniRef90_M5G8Q3
UniRef90_A4S056
UniRef90_D8LYS0
UniRef90_S2IWQ6
UniRef90_D5E7V1
UniRef90_R7SN66
UniRef90_A9RFS8
UniRef90_G4UDE4
UniRef90_K3ZXR0
UniRef90_UPI000455FBA0
UniRef90_R8BE70
UniRef90_U5H732
UniRef90_G7E8P6
UniRef90_UPI000258EA89
UniRef90_B8C8G2
UniRef90_F0Y9X2
UniRef90_R0FYL8
UniRef90_E4ZG03
UniRef90_B6K818
UniRef90_I2JSE8
UniRef90_Q22RW2
UniRef90_K1W3H6
UniRef90_R7QB84
UniRef90_I7I8V3
UniRef90_Q46C10
UniRef90_F9WK60
UniRef90_W7TJI2
UniRef90_J9HY39
UniRef90_W3X1Q1
UniRef90_D7E9E3
UniRef90_X8JMU4
UniRef90_L0P7C8
UniRef90_W8NMK0
UniRef90_D2RHL4
UniRef90_E3KGW3
UniRef90_D8TM87
UniRef90_B3S798
UniRef90_Q86JJ5
UniRef90_F1A1H8
UniRef90_G2XE43
UniRef90_U6NJV7
UniRef90_K2RJZ4
UniRef90_K5X3Y7
UniRef90_I4Y8T6
UniRef90_R1FJH9
UniRef90_W1QG67

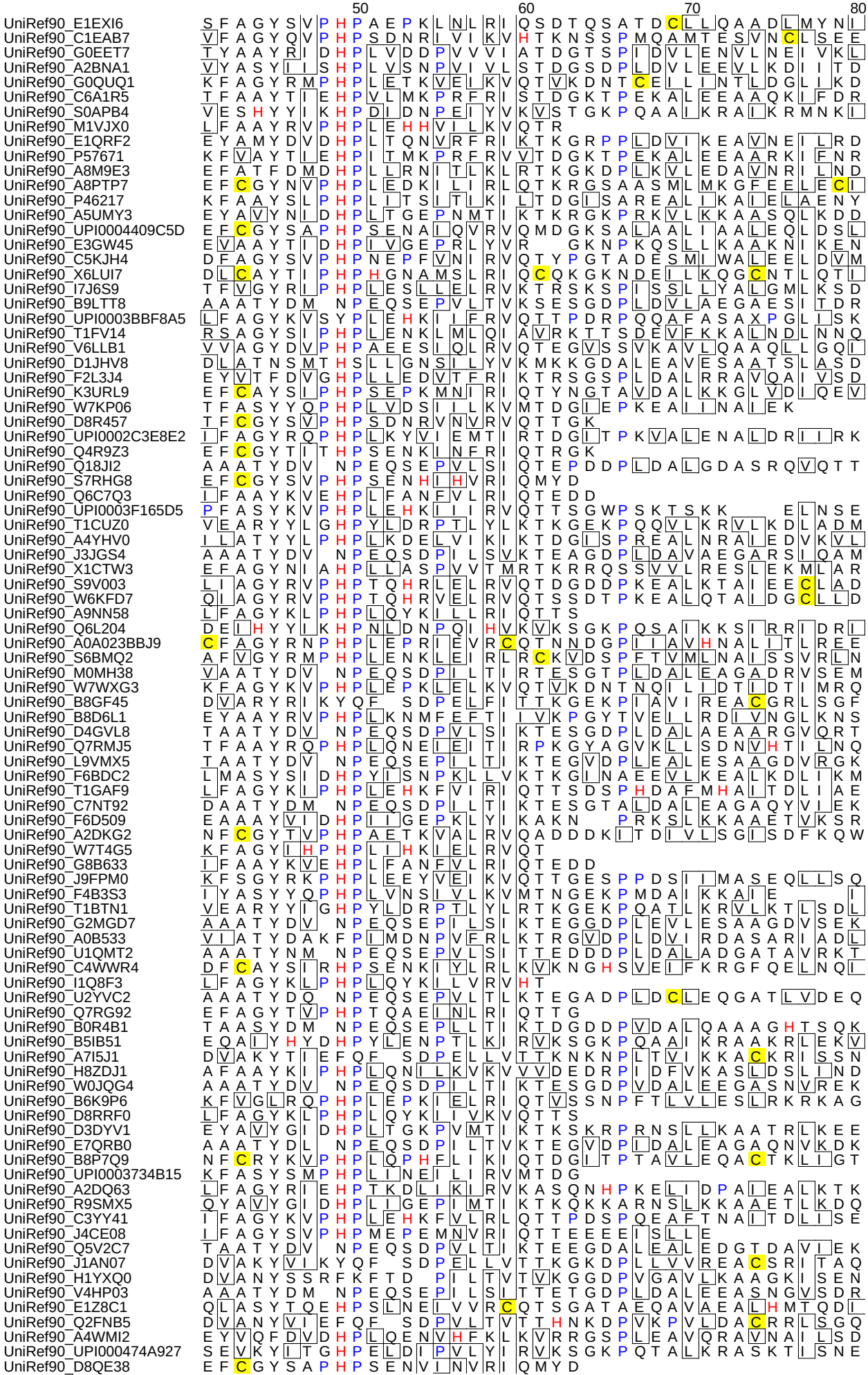

90
UniRef90_G7E8P4 L A A A R L Q F E A S C K S F T E R Q
UniRef90_I0YIN6 F E D I R A K F Q A E A R R I H S S
UniRef90_V2XV85 C E V V S D K Y N D S L Q
UniRef90_L1JI33 C D H L G D V F D E A E S E Y
UniRef90_S3D3J4 L A I L S R E F T K E Y E
UniRef90_B7G3C7 T D H L L K E V Q N A M E N W R K E N
UniRef90_K0SS38 T D H L I T S V T D A I E K W K R E N
UniRef90_M2PGZ6 C G T V E D A Y K S S L
UniRef90_R9ADM4 F E V I Q N K Y S D Q Y K Q F K
UniRef90_D1YYQ6 C E T F I D L F N K K A K A
UniRef90_G7YEZ3 V S N I E E Q F R K
UniRef90_S8EUM5 C V T I D E A Y Q K N L Q E A R
UniRef90_U4KUR7 L Q I L S Q K L T R E W E
UniRef90_K0KAE3 I E A L K S K F K N E W D
UniRef90_H8I9N3 C E A F M E L F S Q K A K A F
UniRef90_M2YL11 L Q Q F D Q E F T K E F E L K K
UniRef90_R4XLF1 L D Q L R Q K F D E E W E L K K I S
UniRef90_L0B2V2 C D T L T D A F K K A M D E
UniRef90_UPI0004417C6C F A A V D E Q Y A K S L A K
UniRef90_B4JPA4 C D H T M N T F E T E M N S F N A
UniRef90_T0RFZ1 G S H V D K T F
UniRef90_K1QKY4 M D A D K D T Y Q
UniRef90_A4RTY9 C D R V R E A Y E D A E R A F E
UniRef90_H2KQJ0 F I H I K S A F K A A L Q S F R K D
UniRef90_M5VN35 L D H L K S C F E A E V A K H S V E Y
UniRef90_F4BTP0 C D E F S S K Y A E A V K
UniRef90_W5JCM8 C D H M M E T F E G A V A S H
UniRef90_F7XMD7 C D E F I E S F T H A L E S
UniRef90_C1LJR3 I S N I E E Q F R M A T K
UniRef90_K8EGR5 C E H V T E T F E A A L
UniRef90_F2U1F2 I T R M T H E F E T E V K
UniRef90_F2UL86 C D H M S E T M Q T Q A R L Y R Q Q Q
UniRef90_M4DPD9 N R H V R S V F D K A V S E
UniRef90_K4MG73 C D E F I G V F S K A V E A
UniRef90_E6ZTN5 F A A I G E A Y D K S L S A
UniRef90_T1JXZ6 C Q V V K H K F S S A L S E H S A E
UniRef90_T0SAA9 F E E L A Q R F R R
UniRef90_Q4N286 C D I L T E K F E K A M K E
UniRef90_UPI0004417898 L V T L E A K F K R E F S
UniRef90_UPI0004560EA3 F E T I G Q A Y E A N L E A
UniRef90_U5H4K1 L A K M K E Q F G Q E L I K A R A
UniRef90_A0A026W2U5 C D I T I E R F E K A Y E N F K V
UniRef90_F4Q1X1 F Q K L E I G F I N Q M N K K K S
UniRef90_J9FZX3 V E Q I K T S F Q M A V N A F K I D Q
UniRef90_E9FTC8 S D H I L K T F E
UniRef90_U9V1F9 C A K I S E T F Y K A N R D F D E K N
UniRef90_M5G8Q3 A G A I E E E Y N A S L E
UniRef90_A4S056 V G D L S Q Q F A D E I N A L R
UniRef90_D8LYS0 C D V I G D R Y E K A L N
UniRef90_S2IWQ6 V A H V R E A Y V E D L E K K E
UniRef90_D5E7V1 C D E F S G V F E K A L
UniRef90_R7SN66 C V T I D D A Y T
UniRef90_A9RFS8 L D H L K A V F E H E T S Q K Q A D Y
UniRef90_G4UDE4 Y G Q L G R E F Q K E L
UniRef90_K3ZXR0 L E Y L K Q A F E V E K N R Y E
UniRef90_UPI000455FBA0 C E T V E Q K Y Q D S L
UniRef90_R8BE70 Y G Q L G R E F T R E Y E
UniRef90_U5H732 T E S I L S A Y A A S L
UniRef90_G7E8P6 I L A I R D E Y K S Q L A K
UniRef90_UPI000258EA89 C D Y T L E S F N N A Y E H F K N S
UniRef90_B8C8G2 C D F F L E Q L E N E M
UniRef90_F0Y9X2 M D I L D R N F R E Q V A K K K A E
UniRef90_R0FYL8 N R H V R S V F D K A V T A Y
UniRef90_E4ZG03 L Q K L N D S F Q Q E W
UniRef90_B6K818 L E Q L K V N F T R E W E L K K I S
UniRef90_I2JSE8 C S F I E D T F M E K V N A
UniRef90_Q22RW2 C D V L N D K F D A A M
UniRef90_K1W3H6 Y E T I G A Q Y D R S L K
UniRef90_R7QB84 V S T L S E Q L R S Q L
UniRef90_I7I8V3 C D Q I L G E F N R A L N
UniRef90_Q46C10 C D E F T D V F S K A V N A
UniRef90_F9WK60 C E V T L R N F E
UniRef90_W7TJI2 C D L F D F T L D R A I S D Y E E Q Q
UniRef90_J9HY39 S D V L G E K F Q N A L D K F Q N
UniRef90_W3X1Q1 C D V V E D K F W A A R N E F V A A Q
UniRef90_D7E9E3 C D E F N E V F S E A V K A
UniRef90_X8JMU4 T A E I G T R F D D S M E A Y
UniRef90_L0P7C8 L T Q L R N N F E R E W E L K K V
UniRef90_W8NMK0 Y G Q L G R E F Q K E L
UniRef90_D2RHL4 C D E L L A Q I
UniRef90_E3KGW3 V L V L A E R Y R A E L D R G K
UniRef90_D8TM87 F G Y M L N E F D R E V M N A Q Q N
UniRef90_B3S798 C D H V L K T F D V S I
UniRef90_Q86JJ5 F T S L E N S F I E Q V Q K K R N
UniRef90_F1A1H8 F L N I E D Q F K T M V Q R K K
UniRef90_G2XE43 F S H L A Q E F I R E Y E
UniRef90_U6NJV7 F A C I R E K F E T N Y E E F
UniRef90_K2RJZ4 L E V F S R E F T K E M E L K K
UniRef90_K5X3Y7 L A S V E A K F K R E F
UniRef90_I4Y8T6 F N E I E A S Y K T N L E
UniRef90_R1FJH9 L D K I G E A F A K A K A R H
UniRef90_W1QG67 L G I L N D K F K R E W E


1
10
20
30
40
UniRef90_W6KY72
UniRef90_A0A044SB51
UniRef90_A9V2R7
UniRef90_F4R4H4
UniRef90_A0A023F7V9
UniRef90_B1L7Q7
UniRef90_J3NY74
UniRef90_U1M625
UniRef90_Q5KMK6
UniRef90_A0DTF6
UniRef90_A0A016SZP5
UniRef90_F4NY29
UniRef90_E4X3J3
UniRef90_K1RF51
UniRef90_W3X0M6
UniRef90_F1SBB9
UniRef90_L7HW56
UniRef90_E3RYF6
UniRef90_O30032
UniRef90_D2UZC7
UniRef90_F2KQH2
UniRef90_F0XEM1
UniRef90_P87123
UniRef90_S9W8W4
UniRef90_W4JZ36
UniRef90_B0YC94
UniRef90_U6HYJ3
UniRef90_T1CKD4
UniRef90_A3FPR0
UniRef90_L0L0D7
UniRef90_C1MHV3
UniRef90_S9VHL4
UniRef90_Q980K0
UniRef90_A7AT13
UniRef90_V8NX20
UniRef90_D0A874
UniRef90_Q4D7H8
UniRef90_F0YN30
UniRef90_UPI000440D895
UniRef90_I4Y841
UniRef90_C6K0F4
UniRef90_B6QVD6
UniRef90_T0N787
UniRef90_A0A024UNE3
UniRef90_W3VJI2
UniRef90_W2RQ35
UniRef90_L1L942
UniRef90_C4R3Z5
UniRef90_M3AY75
UniRef90_A8HRP7
UniRef90_D3S1Z5
UniRef90_Q0UWS5
UniRef90_A0A058Z2P5
UniRef90_H2C9Q9
UniRef90_V9FIG8
UniRef90_Q4DI42
UniRef90_F0Y891
UniRef90_UPI000274281D
UniRef90_A0A023B691
UniRef90_N6VYG4
UniRef90_J9EXQ8
UniRef90_U6IM36
UniRef90_G0MK74
UniRef90_Q12W27
UniRef90_K2I0V3
UniRef90_D2VMS3
UniRef90_E5SE33
UniRef90_I3TDP2
UniRef90_A4HFT2
UniRef90_G3J953
UniRef90_Q8IER7
UniRef90_UPI0004413848
UniRef90_M0M665
UniRef90_D1JBI3
UniRef90_O27372
UniRef90_G0HN59
UniRef90_UPI00015846B0
UniRef90_A0A059LRX4
UniRef90_D5TZM1
UniRef90_Q96YA7
UniRef90_C5A5J3
UniRef90_F4G030
UniRef90_G0UCA6
UniRef90_B7FZW0
UniRef90_J4C8Y3
UniRef90_K0STA8
UniRef90_A0A031LRC2
UniRef90_E4NQ40
UniRef90_M1VGV0
UniRef90_UPI000299ED0D
UniRef90_H3DSE9
UniRef90_H3FT66

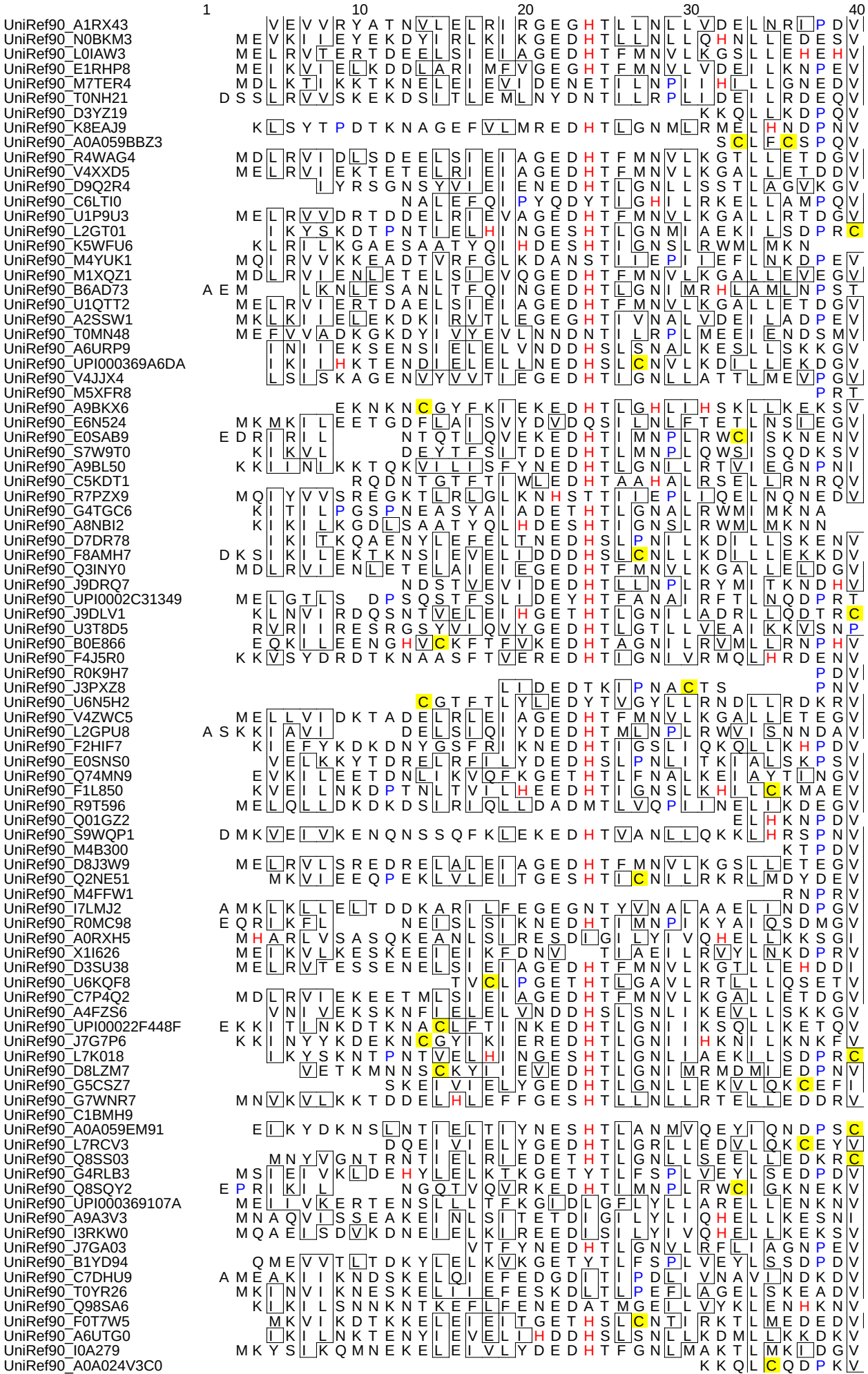

50
60
70
80
UniRef90_W6KY72
UniRef90_A0A044SB51
UniRef90_A9V2R7
UniRef90_F4R4H4
UniRef90_A0A023F7V9
UniRef90_B1L7Q7
UniRef90_J3NY74
UniRef90_U1M625
UniRef90_Q5KMK6
UniRef90_A0DTF6
UniRef90_A0A016SZP5
UniRef90_F4NY29
UniRef90_E4X3J3
UniRef90_K1RF51
UniRef90_W3X0M6
UniRef90_F1SBB9
UniRef90_L7HW56
UniRef90_E3RYF6
UniRef90_O30032
UniRef90_D2UZC7
UniRef90_F2KQH2
UniRef90_F0XEM1
UniRef90_P87123
UniRef90_S9W8W4
UniRef90_W4JZ36
UniRef90_B0YC94
UniRef90_U6HYJ3
UniRef90_T1CKD4
UniRef90_A3FPR0
UniRef90_L0L0D7
UniRef90_C1MHV3
UniRef90_S9VHL4
UniRef90_Q980K0
UniRef90_A7AT13
UniRef90_V8NX20
UniRef90_D0A874
UniRef90_Q4D7H8
UniRef90_F0YN30
UniRef90_UPI000440D895
UniRef90_I4Y841
UniRef90_C6K0F4
UniRef90_B6QVD6
UniRef90_T0N787
UniRef90_A0A024UNE3
UniRef90_W3VJI2
UniRef90_W2RQ35
UniRef90_L1L942
UniRef90_C4R3Z5
UniRef90_M3AY75
UniRef90_A8HRP7
UniRef90_D3S1Z5
UniRef90_Q0UWS5
UniRef90_A0A058Z2P5
UniRef90_H2C9Q9
UniRef90_V9FIG8
UniRef90_Q4DI42
UniRef90_F0Y891
UniRef90_UPI000274281D
UniRef90_A0A023B691
UniRef90_N6VYG4
UniRef90_J9EXQ8
UniRef90_U6IM36
UniRef90_G0MK74
UniRef90_Q12W27
UniRef90_K2I0V3
UniRef90_D2VMS3
UniRef90_E5SE33
UniRef90_I3TDP2
UniRef90_A4HFT2
UniRef90_G3J953
UniRef90_Q8IER7
UniRef90_UPI0004413848
UniRef90_M0M665
UniRef90_D1JBI3
UniRef90_O27372
UniRef90_G0HN59
UniRef90_UPI00015846B0
UniRef90_A0A059LRX4
UniRef90_D5TZM1
UniRef90_Q96YA7
UniRef90_C5A5J3
UniRef90_F4G030
UniRef90_G0UCA6
UniRef90_B7FZW0
UniRef90_J4C8Y3
UniRef90_K0STA8
UniRef90_A0A031LRC2
UniRef90_E4NQ40
UniRef90_M1VGV0
UniRef90_UPI000299ED0D
UniRef90_H3DSE9
UniRef90_H3FT66

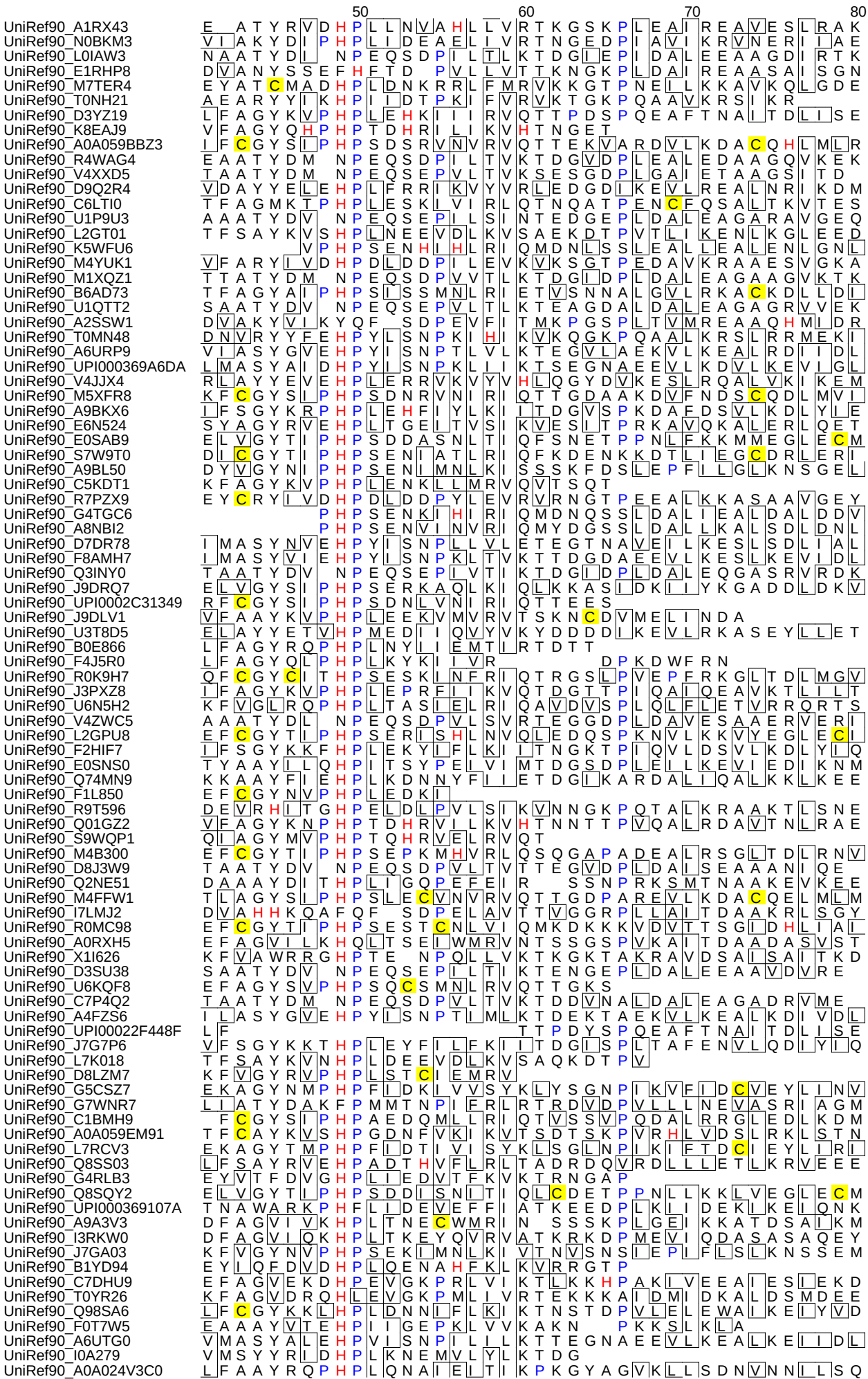
```
                                                
```


1
10
20
30
40
UniRef90_E1EXI6
UniRef90_C1EAB7
UniRef90_G0EET7
UniRef90_A2BNA1
UniRef90_G0QUQ1
UniRef90_C6A1R5
UniRef90_S0APB4
UniRef90_M1VJX0
UniRef90_E1QRF2
UniRef90_P57671
UniRef90_A8M9E3
UniRef90_A8PTP7
UniRef90_P46217
UniRef90_A5UMY3
UniRef90_UPI0004409C5D
UniRef90_E3GW45
UniRef90_C5KJH4
UniRef90_X6LUI7
UniRef90_I7J6S9
UniRef90_B9LTT8
UniRef90_UPI0003BBF8A5
UniRef90_T1FV14
UniRef90_V6LLB1
UniRef90_D1JHV8
UniRef90_F2L3J4
UniRef90_K3URL9
UniRef90_W7KP06
UniRef90_D8R457
UniRef90_UPI0002C3E8E2
UniRef90_Q4R9Z3
UniRef90_Q18JI2
UniRef90_S7RHG8
UniRef90_Q6C7Q3
UniRef90_UPI0003F165D5
UniRef90_T1CUZ0
UniRef90_A4YHV0
UniRef90_J3JGS4
UniRef90_X1CTW3
UniRef90_S9V003
UniRef90_W6KFD7
UniRef90_A9NN58
UniRef90_Q6L204
UniRef90_A0A023BBJ9
UniRef90_S6BMQ2
UniRef90_M0MH38
UniRef90_W7WXG3
UniRef90_B8GF45
UniRef90_B8D6L1
UniRef90_D4GVL8
UniRef90_Q7RMJ5
UniRef90_L9VMX5
UniRef90_F6BDC2
UniRef90_T1GAF9
UniRef90_C7NT92
UniRef90_F6D509
UniRef90_A2DKG2
UniRef90_W7T4G5
UniRef90_G8B633
UniRef90_J9FPM0
UniRef90_F4B3S3
UniRef90_T1BTN1
UniRef90_G2MGD7
UniRef90_A0B533
UniRef90_U1QMT2
UniRef90_C4WWR4
UniRef90_I1Q8F3
UniRef90_U2YVC2
UniRef90_Q7RG92
UniRef90_B0R4B1
UniRef90_B5IB51
UniRef90_A7I5J1
UniRef90_H8ZDJ1
UniRef90_W0JQG4
UniRef90_B6K9P6
UniRef90_D8RRF0
UniRef90_D3DYV1
UniRef90_E7QRB0
UniRef90_B8P7Q9
UniRef90_UPI0003734B15
UniRef90_A2DQ63
UniRef90_R9SMX5
UniRef90_C3YY41
UniRef90_J4CE08
UniRef90_Q5V2C7
UniRef90_J1AN07
UniRef90_H1YXQ0
UniRef90_V4HP03
UniRef90_E1Z8C1
UniRef90_Q2FNB5
UniRef90_A4WMI2
UniRef90_UPI000474A927
UniRef90_D8QE38

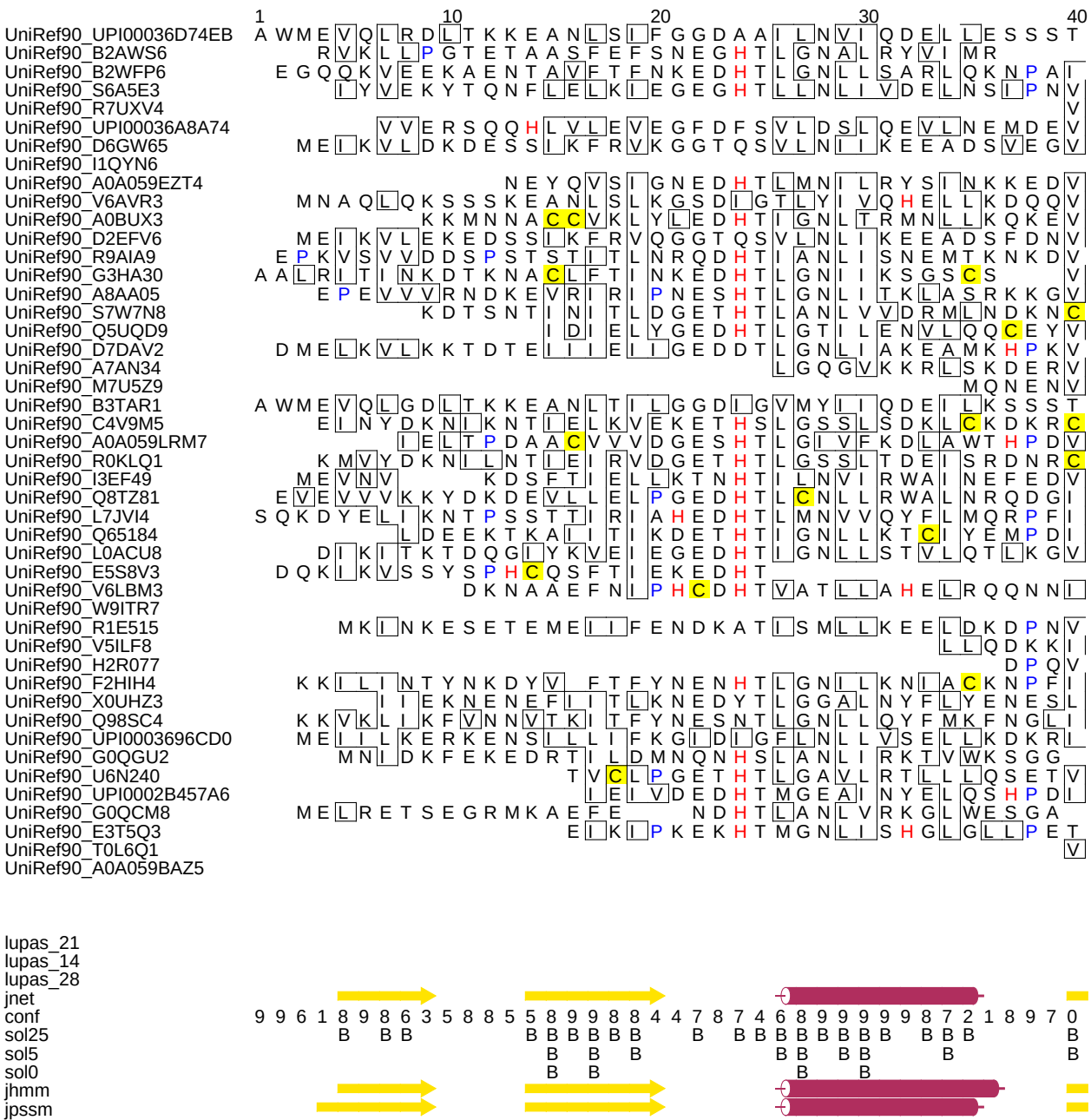

50
60
70
80
UniRef90_E1EXI6
UniRef90_C1EAB7
UniRef90_G0EET7
UniRef90_A2BNA1
UniRef90_G0QUQ1
UniRef90_C6A1R5
UniRef90_S0APB4
UniRef90_M1VJX0
UniRef90_E1QRF2
UniRef90_P57671
UniRef90_A8M9E3
UniRef90_A8PTP7
UniRef90_P46217
UniRef90_A5UMY3
UniRef90_UPI0004409C5D
UniRef90_E3GW45
UniRef90_C5KJH4
UniRef90_X6LUI7
UniRef90_I7J6S9
UniRef90_B9LTT8
UniRef90_UPI0003BBF8A5
UniRef90_T1FV14
UniRef90_V6LLB1
UniRef90_D1JHV8
UniRef90_F2L3J4
UniRef90_K3URL9
UniRef90_W7KP06
UniRef90_D8R457
UniRef90_UPI0002C3E8E2
UniRef90_Q4R9Z3
UniRef90_Q18JI2
UniRef90_S7RHG8
UniRef90_Q6C7Q3
UniRef90_UPI0003F165D5
UniRef90_T1CUZ0
UniRef90_A4YHV0
UniRef90_J3JGS4
UniRef90_X1CTW3
UniRef90_S9V003
UniRef90_W6KFD7
UniRef90_A9NN58
UniRef90_Q6L204
UniRef90_A0A023BBJ9
UniRef90_S6BMQ2
UniRef90_M0MH38
UniRef90_W7WXG3
UniRef90_B8GF45
UniRef90_B8D6L1
UniRef90_D4GVL8
UniRef90_Q7RMJ5
UniRef90_L9VMX5
UniRef90_F6BDC2
UniRef90_T1GAF9
UniRef90_C7NT92
UniRef90_F6D509
UniRef90_A2DKG2
UniRef90_W7T4G5
UniRef90_G8B633
UniRef90_J9FPM0
UniRef90_F4B3S3
UniRef90_T1BTN1
UniRef90_G2MGD7
UniRef90_A0B533
UniRef90_U1QMT2
UniRef90_C4WWR4
UniRef90_I1Q8F3
UniRef90_U2YVC2
UniRef90_Q7RG92
UniRef90_B0R4B1
UniRef90_B5IB51
UniRef90_A7I5J1
UniRef90_H8ZDJ1
UniRef90_W0JQG4
UniRef90_B6K9P6
UniRef90_D8RRF0
UniRef90_D3DYV1
UniRef90_E7QRB0
UniRef90_B8P7Q9
UniRef90_UPI0003734B15
UniRef90_A2DQ63
UniRef90_R9SMX5
UniRef90_C3YY41
UniRef90_J4CE08
UniRef90_Q5V2C7
UniRef90_J1AN07
UniRef90_H1YXQ0
UniRef90_V4HP03
UniRef90_E1Z8C1
UniRef90_Q2FNB5
UniRef90_A4WMI2
UniRef90_UPI000474A927
UniRef90_D8QE38

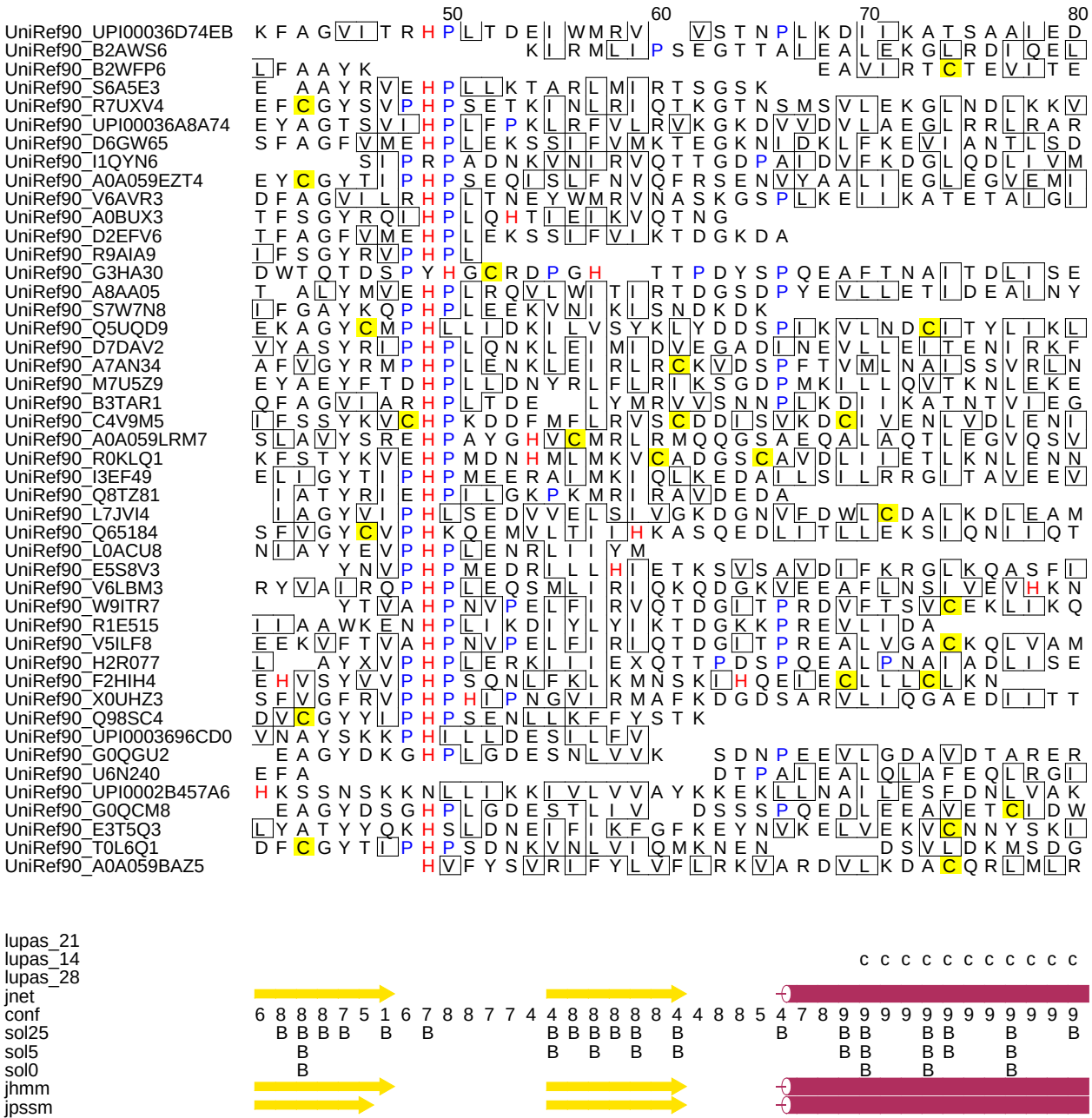
| | |
|---|---|
| UniRef90_E1EXI6 | A S V L R R R L D S S L S S S K N N |
| UniRef90_C1EAB7 | V S R L |
| UniRef90_G0EET7 | C D E F K E K F E K T A S K |
| UniRef90_A2BNA1 | A K K F I E E F D R A L E S |
| UniRef90_G0QUQ1 | I D I I Q Y D F E K Q A K Q |
| UniRef90_C6A1R5 | A K D V L E V W E G V I K K |
| UniRef90_S0APB4 | Y E S L D A E L Q K E L E K F K A S |
| UniRef90_M1VJX0 | |
| UniRef90_E1QRF2 | V E E L E K G F |
| UniRef90_P57671 | A K E V L D A W E K V V K S |
| UniRef90_A8M9E3 | I G E L E G K L |
| UniRef90_A8PTP7 | F A S I R Q K F D S S Y A L Y T T N |
| UniRef90_P46217 | A N L F I D E V K K |
| UniRef90_A5UMY3 | A A D F K K L I E E T L |
| UniRef90_UPI0004409C5D | F A T I D D A Y Q N S I R A |
| UniRef90_E3GW45 | F N E F K K I L E S |
| UniRef90_C5KJH4 | F N T I Q K |
| UniRef90_X6LUI7 | C Q S L K T A Y Q E S L E A Y E E N |
| UniRef90_I7J6S9 | V S N L K N D Y |
| UniRef90_B9LTT8 | T G A L R D A V K A A |
| UniRef90_UPI0003BBF8A5 | L F L L E E K L K T |
| UniRef90_T1FV14 | C Q H I L K T F E V A C E M Y K |
| UniRef90_V6LLB1 | A D D Y L T Q L K D Q M |
| UniRef90_D1JHV8 | F E E F G R K Y R A A I |
| UniRef90_F2L3J4 | L E A L E K S I |
| UniRef90_K3URL9 | C D V V A D E F W T K R E A Y N A E Q |
| UniRef90_W7KP06 | A K E T S A K F D Q E I R |
| UniRef90_D8R457 | |
| UniRef90_UPI0002C3E8E2 | V K L A K E D F D Q A T E N L D |
| UniRef90_Q4R9Z3 | |
| UniRef90_Q18JI2 | V D D F T S A F T A A V |
| UniRef90_S7RHG8 | |
| UniRef90_Q6C7Q3 | |
| UniRef90_UPI0003F165D5 | L E G A L L S L E A Q L Q |
| UniRef90_T1CUZ0 | Y G D L V T D F D K K A D K I R T |
| UniRef90_A4YHV0 | G E S F L D E L E Q |
| UniRef90_J3JGS4 | T D S F R D A F T A A |
| UniRef90_X1CTW3 | T E E F R K K F K Q A V S D |
| UniRef90_S9V003 | L Q E F E A L L R A E A Q A |
| UniRef90_W6KFD7 | L Q T F E E Q L R A D A Q A |
| UniRef90_A9NN58 | |
| UniRef90_Q6L204 | Y N S L I D D L E R E E K R L N V S |
| UniRef90_A0A023BBJ9 | A S N V M D Q |
| UniRef90_S6BMQ2 | I G H L K K V Y L S T L R E |
| UniRef90_M0MH38 | T T T F R D A F Q A A |
| UniRef90_W7WXG3 | V E T M Q D S F L Q Q V R L W E N |
| UniRef90_B8GF45 | C D E L L K D L D A A |
| UniRef90_B8D6L1 | L A E L R R L V E E K V |
| UniRef90_D4GVL8 | A D D F T D A Y R A G I D A |
| UniRef90_Q7RMJ5 | V S T L R E T F |
| UniRef90_L9VMX5 | T T A F R D A F E A A A |
| UniRef90_F6BDC2 | C D E L L Q N I N |
| UniRef90_T1GAF9 | L S L F E E R F K E A I K E K K |
| UniRef90_C7NT92 | A D T F E A A Y E D A A |
| UniRef90_F6D509 | C D E F K N L I E |
| UniRef90_A2DKG2 | C N N T E T E F D N A W S A F Q |
| UniRef90_W7T4G5 | |
| UniRef90_G8B633 | |
| UniRef90_J9FPM0 | M K S L S D S L M K Q A Q |
| UniRef90_F4B3S3 | A E N Y A N K Y L E E I K K I E |
| UniRef90_T1BTN1 | Y G D A L A D F D Q K A E K A R A |
| UniRef90_G2MGD7 | S A D L R A A F D A A A |
| UniRef90_A0B533 | C D E F L R E Y E E A V R |
| UniRef90_U1QMT2 | T D A F K D A F E A A A |
| UniRef90_C4WWR4 | L N H V K K T F N K A I S A Y E |
| UniRef90_I1Q8F3 | |
| UniRef90_U2YVC2 | M N E F R T A F E T A R |
| UniRef90_Q7RG92 | |
| UniRef90_B0R4B1 | L Q S F A D T F E A A V |
| UniRef90_B5IB51 | |
| UniRef90_A7I5J1 | C D D L L K N L S K Q |
| UniRef90_H8ZDJ1 | C E S M L S Q I Y K |
| UniRef90_W0JQG4 | T V S F R N A F E A A V |
| UniRef90_B6K9P6 | L S L L K A R F K A A V |
| UniRef90_D8RRF0 | |
| UniRef90_D3DYV1 | T A E F K E L I E E |
| UniRef90_E7QRB0 | T S A F R E A F T S A |
| UniRef90_B8P7Q9 | M A S L E A K F K R E |
| UniRef90_UPI0003734B15 | |
| UniRef90_A2DQ63 | I A G L Q S S F I S S C Q S F D |
| UniRef90_R9SMX5 | A E E F K S L V E Q |
| UniRef90_C3YY41 | V S L L E E R F K V A V R E K E |
| UniRef90_J4CE08 | |
| UniRef90_Q5V2C7 | A D N F T D A F E A A A |
| UniRef90_J1AN07 | C D D L I E Q V R A K |
| UniRef90_H1YXQ0 | C D Y L K S E I M K A |
| UniRef90_V4HP03 | M T T L Y D E L D A |
| UniRef90_E1Z8C1 | L H H M A D T M D A A V A N W Q Q Q H |
| UniRef90_Q2FNB5 | C E E L L S S L E Q S A K K |
| UniRef90_A4WMI2 | L E E L E K G F |
| UniRef90_UPI000474A927 | Y K E A L D K L D K Q |
| UniRef90_D8QE38 | |


1
10
20
30
40
UniRef90_A1RX43
UniRef90_N0BKM3
UniRef90_L0IAW3
UniRef90_E1RHP8
UniRef90_M7TER4
UniRef90_T0NH21
UniRef90_D3YZ19
UniRef90_K8EAJ9
UniRef90_A0A059BBZ3
UniRef90_R4WAG4
UniRef90_V4XXD5
UniRef90_D9Q2R4
UniRef90_C6LTI0
UniRef90_U1P9U3
UniRef90_L2GT01
UniRef90_K5WFU6
UniRef90_M4YUK1
UniRef90_M1XQZ1
UniRef90_B6AD73
UniRef90_U1QTT2
UniRef90_A2SSW1
UniRef90_T0MN48
UniRef90_A6URP9
UniRef90_UPI000369A6DA
UniRef90_V4JJX4
UniRef90_M5XFR8
UniRef90_A9BKX6
UniRef90_E6N524
UniRef90_E0SAB9
UniRef90_S7W9T0
UniRef90_A9BL50
UniRef90_C5KDT1
UniRef90_R7PZX9
UniRef90_G4TGC6
UniRef90_A8NBI2
UniRef90_D7DR78
UniRef90_F8AMH7
UniRef90_Q3INY0
UniRef90_J9DRQ7
UniRef90_UPI0002C31349
UniRef90_J9DLV1
UniRef90_U3T8D5
UniRef90_B0E866
UniRef90_F4J5R0
UniRef90_R0K9H7
UniRef90_J3PXZ8
UniRef90_U6N5H2
UniRef90_V4ZWC5
UniRef90_L2GPU8
UniRef90_F2HIF7
UniRef90_E0SNS0
UniRef90_Q74MN9
UniRef90_F1L850
UniRef90_R9T596
UniRef90_Q01GZ2
UniRef90_S9WQP1
UniRef90_M4B300
UniRef90_D8J3W9
UniRef90_Q2NE51
UniRef90_M4FFW1
UniRef90_I7LMJ2
UniRef90_R0MC98
UniRef90_A0RXH5
UniRef90_X1I626
UniRef90_D3SU38
UniRef90_U6KQF8
UniRef90_C7P4Q2
UniRef90_A4FZS6
UniRef90_UPI00022F448F
UniRef90_J7G7P6
UniRef90_L7K018
UniRef90_D8LZM7
UniRef90_G5CSZ7
UniRef90_G7WNR7
UniRef90_C1BMH9
UniRef90_A0A059EM91
UniRef90_L7RCV3
UniRef90_Q8SS03
UniRef90_G4RLB3
UniRef90_Q8SQY2
UniRef90_UPI000369107A
UniRef90_A9A3V3
UniRef90_I3RKW0
UniRef90_J7GA03
UniRef90_B1YD94
UniRef90_C7DHU9
UniRef90_T0YR26
UniRef90_Q98SA6
UniRef90_F0T7W5
UniRef90_A6UTG0
UniRef90_I0A279
UniRef90_A0A024V3C0


50
60
70
80
UniRef90_A1RX43
UniRef90_N0BKM3
UniRef90_L0IAW3
UniRef90_E1RHP8
UniRef90_M7TER4
UniRef90_T0NH21
UniRef90_D3YZ19
UniRef90_K8EAJ9
UniRef90_A0A059BBZ3
UniRef90_R4WAG4
UniRef90_V4XXD5
UniRef90_D9Q2R4
UniRef90_C6LTI0
UniRef90_U1P9U3
UniRef90_L2GT01
UniRef90_K5WFU6
UniRef90_M4YUK1
UniRef90_M1XQZ1
UniRef90_B6AD73
UniRef90_U1QTT2
UniRef90_A2SSW1
UniRef90_T0MN48
UniRef90_A6URP9
UniRef90_UPI000369A6DA
UniRef90_V4JJX4
UniRef90_M5XFR8
UniRef90_A9BKX6
UniRef90_E6N524
UniRef90_E0SAB9
UniRef90_S7W9T0
UniRef90_A9BL50
UniRef90_C5KDT1
UniRef90_R7PZX9
UniRef90_G4TGC6
UniRef90_A8NBI2
UniRef90_D7DR78
UniRef90_F8AMH7
UniRef90_Q3INY0
UniRef90_J9DRQ7
UniRef90_UPI0002C31349
UniRef90_J9DLV1
UniRef90_U3T8D5
UniRef90_B0E866
UniRef90_F4J5R0
UniRef90_R0K9H7
UniRef90_J3PXZ8
UniRef90_U6N5H2
UniRef90_V4ZWC5
UniRef90_L2GPU8
UniRef90_F2HIF7
UniRef90_E0SNS0
UniRef90_Q74MN9
UniRef90_F1L850
UniRef90_R9T596
UniRef90_Q01GZ2
UniRef90_S9WQP1
UniRef90_M4B300
UniRef90_D8J3W9
UniRef90_Q2NE51
UniRef90_M4FFW1
UniRef90_I7LMJ2
UniRef90_R0MC98
UniRef90_A0RXH5
UniRef90_X1I626
UniRef90_D3SU38
UniRef90_U6KQF8
UniRef90_C7P4Q2
UniRef90_A4FZS6
UniRef90_UPI00022F448F
UniRef90_J7G7P6
UniRef90_L7K018
UniRef90_D8LZM7
UniRef90_G5CSZ7
UniRef90_G7WNR7
UniRef90_C1BMH9
UniRef90_A0A059EM91
UniRef90_L7RCV3
UniRef90_Q8SS03
UniRef90_G4RLB3
UniRef90_Q8SQY2
UniRef90_UPI000369107A
UniRef90_A9A3V3
UniRef90_I3RKW0
UniRef90_J7GA03
UniRef90_B1YD94
UniRef90_C7DHU9
UniRef90_T0YR26
UniRef90_Q98SA6
UniRef90_F0T7W5
UniRef90_A6UTG0
UniRef90_I0A279
UniRef90_A0A024V3C0

```
UniRef90_A1RX43          L K V V A E S
UniRef90_N0BKM3          C D E I L G S L S S
UniRef90_L0IAW3          A A D F K S A F E A A A
UniRef90_E1RHP8          C T G L I E I L N N S
UniRef90_M7TER4          I K K F G K N F E
UniRef90_T0NH21
UniRef90_D3YZ19          L S L L E E R F R V A I K D K Q
UniRef90_K8EAJ9
UniRef90_A0A059BBZ3      C Q H I R G T F D K A V D D S R T K N
UniRef90_R4WAG4          T T A L S D A V K A A
UniRef90_V4XXD5
UniRef90_D9Q2R4          N E A F R K E F I E Q A K S L G V E
UniRef90_C6LTI0          M E L L K K T F T A A V D N Y D V M H
UniRef90_U1P9U3          M G T L A D D I E T A F A E
UniRef90_L2GT01          L D S L I G Q A K E E W K N
UniRef90_K5WFU6          C D T V E N A Y K Q S L S
UniRef90_M4YUK1          F S
UniRef90_M1XQZ1          T G A F V D A F E S A A
UniRef90_B6AD73          C D T I E M R F D E A I H N F
UniRef90_U1QTT2          A T V F N E A Y Q A
UniRef90_A2SSW1          C D A L L S C L K N
UniRef90_T0MN48          F E N L H G Q Y K K
UniRef90_A6URP9          C S N C L E E L
UniRef90_UPI000369A6DA   C N Q V L E D L
UniRef90_V4JJX4          N E E F R R A F L E K A K E H G V E
UniRef90_M5XFR8          C Q H V R S T F D K A V V D F R M S
UniRef90_A9BKX6          F S Y L E D
UniRef90_E6N524          F K I L D K E L E
UniRef90_E0SAB9            E A I G R K M E S E I E K F E
UniRef90_S7W9T0          I N E M M K Q L E
UniRef90_A9BL50          F V L F G N F F D Y S I E N H
UniRef90_C5KDT1
UniRef90_R7PZX9          F S S I S E
UniRef90_G4TGC6          C T V I D E K Y V D A A K K W D A R H
UniRef90_A8NBI2          C E A V E D A Y L E S L E K F E
UniRef90_D7DR78          C D E
UniRef90_F8AMH7          C N K T L E S L N Q
UniRef90_Q3INY0          T D
UniRef90_J9DRQ7          T E H I L H L I D R N L K T L N I S Q
UniRef90_UPI0002C31349
UniRef90_J9DLV1
UniRef90_U3T8D5          I E D F R K R Y L E A L E S
UniRef90_B0E866
UniRef90_F4J5R0
UniRef90_R0K9H7          C Q H V L N T F E
UniRef90_J3PXZ8          L D K M R N L L Q N E F R L A K T
UniRef90_U6N5H2          L T F L G A L F K A A V D A Y
UniRef90_V4ZWC5
UniRef90_L2GPU8            E V I A A K L L E S I K E V E G S
UniRef90_F2HIF7          F S L L E E E
UniRef90_E0SNS0          A K Q F L A S L N E A L S N
UniRef90_Q74MN9          L L N F K D
UniRef90_F1L850
UniRef90_R9T596          Y K E A L E N L K
UniRef90_Q01GZ2          V S D I A Q Q F A D E I N A I R
UniRef90_S9WQP1
UniRef90_M4B300          S K H I E D A Y R K E L Q A F K
UniRef90_D8J3W9
UniRef90_Q2NE51          A L S F K D A L I K G F E E
UniRef90_M4FFW1          N R H V R S V F H K A
UniRef90_I7LMJ2          A G E L L Q Q M E A
UniRef90_R0MC98          V D R L S E K V N Q N I E
UniRef90_A0RXH5          F G D L E K L F K S K I K
UniRef90_X1I626          L D K V L T D F K K
UniRef90_D3SU38
UniRef90_U6KQF8
UniRef90_C7P4Q2
UniRef90_A4FZS6          C N K T L K E L
UniRef90_UPI00022F448F   L S L L E E R F R V A I K D K Q
UniRef90_J7G7P6          L S Q L E T E T K M E I
UniRef90_L7K018
UniRef90_D8LZM7
UniRef90_G5CSZ7          F E L I
UniRef90_G7WNR7          V E E F E E E F R S A V
UniRef90_C1BMH9          C S V V S S K F N S A L
UniRef90_A0A059EM91      I K D L I E E V N E
UniRef90_L7RCV3          F E L L I N
UniRef90_Q8SS03          T T S L M N Q L K
UniRef90_G4RLB3
UniRef90_Q8SQY2            E A I G A K I A S E I E R S K
UniRef90_UPI000369107A   F L K L K K D I E K I A K
UniRef90_A9A3V3          A D E F K Q L F N S K L K
UniRef90_I3RKW0          S K D L F S M I K A A L K K
UniRef90_J7GA03          A V L T G N F F D L S I E N
UniRef90_B1YD94
UniRef90_C7DHU9          T E T I K K M I S K K
UniRef90_T0YR26          F S D L K S Q L S K K
UniRef90_Q98SA6          L S Y I Q T N L E
UniRef90_F0T7W5
UniRef90_A6UTG0          C N N V M N
UniRef90_I0A279
UniRef90_A0A024V3C0      V A T L K E N F A K K I Q K Y K E S N
```


1
10
20
30
40
UniRef90_UPI00036D74EB
UniRef90_B2AWS6
UniRef90_B2WFP6
UniRef90_S6A5E3
UniRef90_R7UXV4
UniRef90_UPI00036A8A74
UniRef90_D6GW65
UniRef90_I1QYN6
UniRef90_A0A059EZT4
UniRef90_V6AVR3
UniRef90_A0BUX3
UniRef90_D2EFV6
UniRef90_R9AIA9
UniRef90_G3HA30
UniRef90_A8AA05
UniRef90_S7W7N8
UniRef90_Q5UQD9
UniRef90_D7DAV2
UniRef90_A7AN34
UniRef90_M7U5Z9
UniRef90_B3TAR1
UniRef90_C4V9M5
UniRef90_A0A059LRM7
UniRef90_R0KLQ1
UniRef90_I3EF49
UniRef90_Q8TZ81
UniRef90_L7JVI4
UniRef90_Q65184
UniRef90_L0ACU8
UniRef90_E5S8V3
UniRef90_V6LBM3
UniRef90_W9ITR7
UniRef90_R1E515
UniRef90_V5ILF8
UniRef90_H2R077
UniRef90_F2HIH4
UniRef90_X0UHZ3
UniRef90_Q98SC4
UniRef90_UPI0003696CD0
UniRef90_G0QGU2
UniRef90_U6N240
UniRef90_UPI0002B457A6
UniRef90_G0QCM8
UniRef90_E3T5Q3
UniRef90_T0L6Q1
UniRef90_A0A059BAZ5
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


50
60
70
80
UniRef90_UPI00036D74EB
UniRef90_B2AWS6
UniRef90_B2WFP6
UniRef90_S6A5E3
UniRef90_R7UXV4
UniRef90_UPI00036A8A74
UniRef90_D6GW65
UniRef90_I1QYN6
UniRef90_A0A059EZT4
UniRef90_V6AVR3
UniRef90_A0BUX3
UniRef90_D2EFV6
UniRef90_R9AIA9
UniRef90_G3HA30
UniRef90_A8AA05
UniRef90_S7W7N8
UniRef90_Q5UQD9
UniRef90_D7DAV2
UniRef90_A7AN34
UniRef90_M7U5Z9
UniRef90_B3TAR1
UniRef90_C4V9M5
UniRef90_A0A059LRM7
UniRef90_R0KLQ1
UniRef90_I3EF49
UniRef90_Q8TZ81
UniRef90_L7JVI4
UniRef90_Q65184
UniRef90_L0ACU8
UniRef90_E5S8V3
UniRef90_V6LBM3
UniRef90_W9ITR7
UniRef90_R1E515
UniRef90_V5ILF8
UniRef90_H2R077
UniRef90_F2HIH4
UniRef90_X0UHZ3
UniRef90_Q98SC4
UniRef90_UPI0003696CD0
UniRef90_G0QGU2
UniRef90_U6N240
UniRef90_UPI0002B457A6
UniRef90_G0QCM8
UniRef90_E3T5Q3
UniRef90_T0L6Q1
UniRef90_A0A059BAZ5
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

```
                                                  90
UniRef90_UPI00036D74EB   T A E L K K L F V S K I
UniRef90_B2AWS6          C D V V T D K F V A A A D D F E
UniRef90_B2WFP6          L S K L N D S F Q T E W
UniRef90_S6A5E3
UniRef90_R7UXV4          S K H V L D T F Q
UniRef90_UPI00036A8A74   A S E V V G L L S E T L A R A H A
UniRef90_D6GW65          L K E A K K Q I N S Q F K
UniRef90_I1QYN6          C Q H V R G T F D N A V V D F R S
UniRef90_A0A059EZT4      G K R L L E E I E N
UniRef90_V6AVR3          T S E L K K L I H S K L K
UniRef90_A0BUX3
UniRef90_D2EFV6
UniRef90_R9AIA9
UniRef90_G3HA30          L S L L E E R F R V A I K D K Q
UniRef90_A8AA05          L N Q F V R E L E E
UniRef90_S7W7N8
UniRef90_Q5UQD9          Y K Q L A D
UniRef90_D7DAV2          L R E F K K E V E E K L
UniRef90_A7AN34          I G H L K K V Y L S T L R E
UniRef90_M7U5Z9          V D H F H K Q F N E G S K K G K N
UniRef90_B3TAR1          A A E L K K L L V S K I K
UniRef90_C4V9M5          T Q D L I N Q I S N
UniRef90_A0A059LRM7      M E V A G K S M E A A M
UniRef90_R0KLQ1          T Q D L I N Q L Q
UniRef90_I3EF49          F N N L E E K L S T A A
UniRef90_Q8TZ81
UniRef90_L7JVI4          G G G M M E A M I E A
UniRef90_Q65184          F Q I L E K N V D E
UniRef90_L0ACU8
UniRef90_E5S8V3          F E T L K T K V E E A V S K Y K N
UniRef90_V6LBM3          L D G L L E Q L E
UniRef90_W9ITR7          L E M L H Q E F T R E W E
UniRef90_R1E515
UniRef90_V5ILF8          Y G Q L G R E F Q K E L
UniRef90_H2R077          L S L L E E R F R T
UniRef90_F2HIH4
UniRef90_X0UHZ3          F T N I Q N K F K
UniRef90_Q98SC4
UniRef90_UPI0003696CD0
UniRef90_G0QGU2          F Q Q I K G A L
UniRef90_U6N240          C E V L S S K Y Q L A M
UniRef90_UPI0002B457A6   I D K F E N E F G K
UniRef90_G0QCM8          V E E L Q S Q A E N
UniRef90_E3T5Q3          Y K E I E S K F
UniRef90_T0L6Q1          I S Q M R E I F V R I Q F L F N N N N
UniRef90_A0A059BAZ5      C Q H I R G T F D K A V D D F R T K N


lupas_21
lupas_14                 c c c
lupas_28
jnet                     ----------------------------------------
conf                     9 9 9 9 9 9 9 9 9 9 9 9 9 8 6 1 4 9 9
sol25                    B     B B     B     B B     B
sol5                     B     B       B
sol0
jhmm                     ----------------------------------------
jpssm                    ----------------------------------------
```