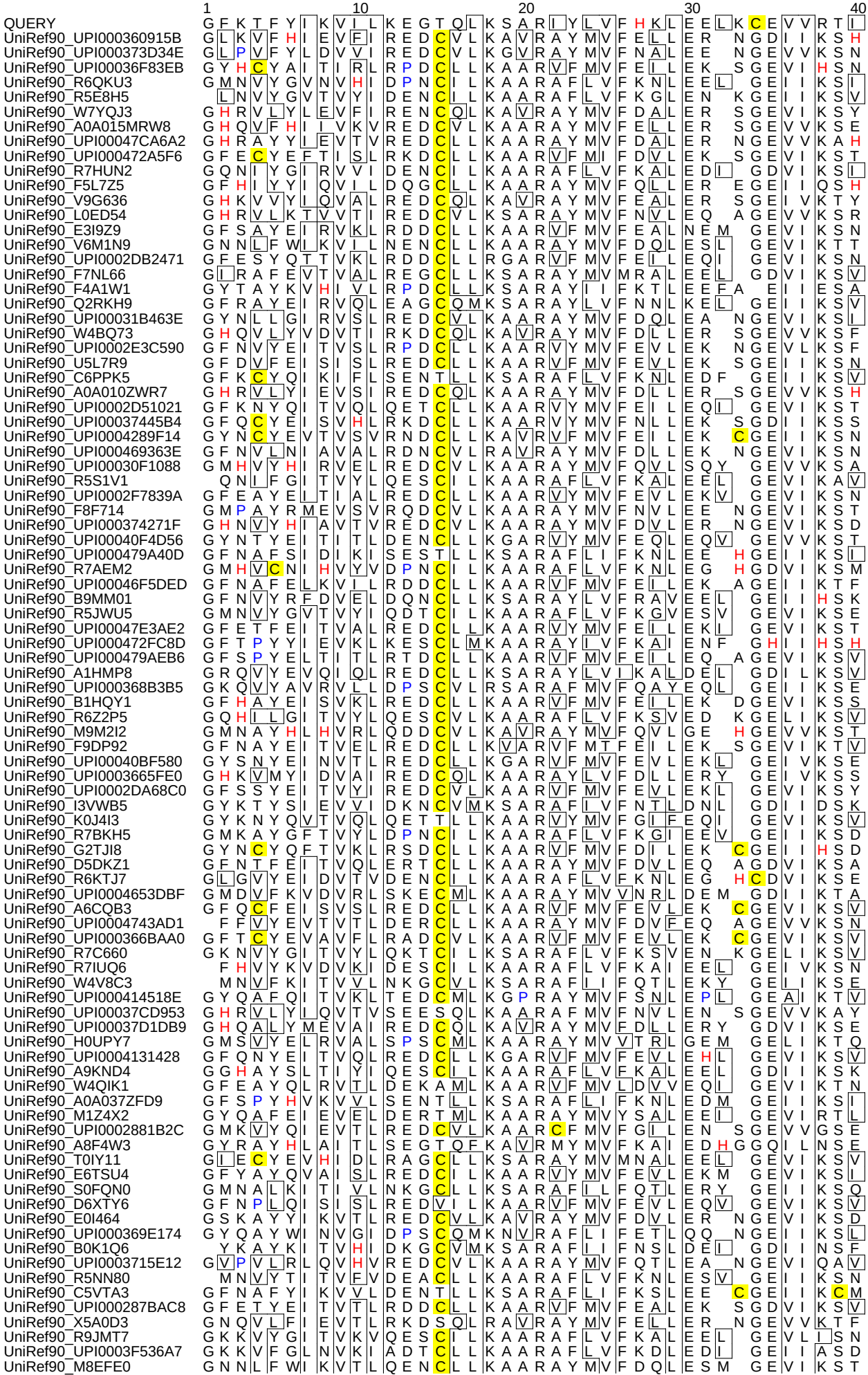
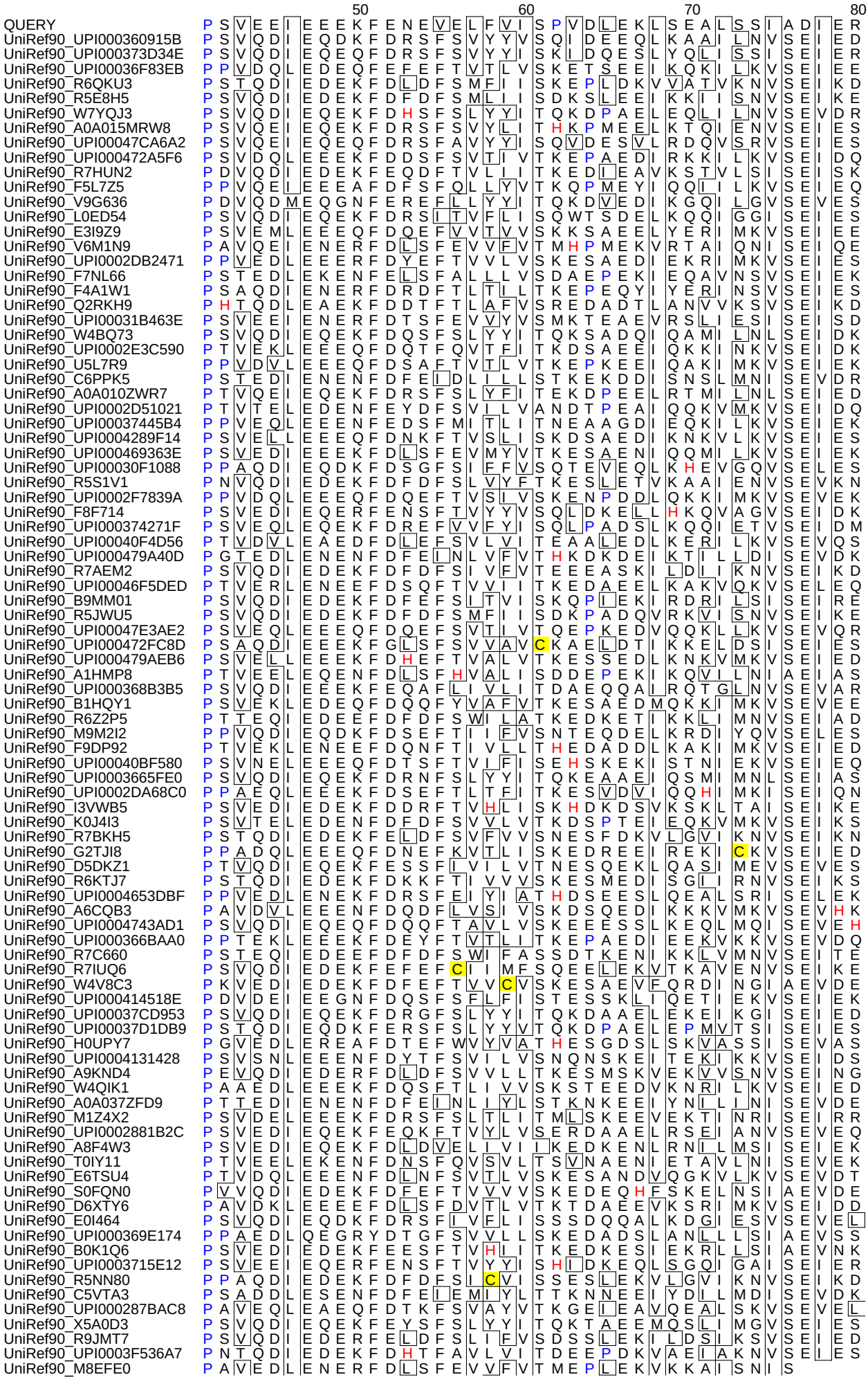
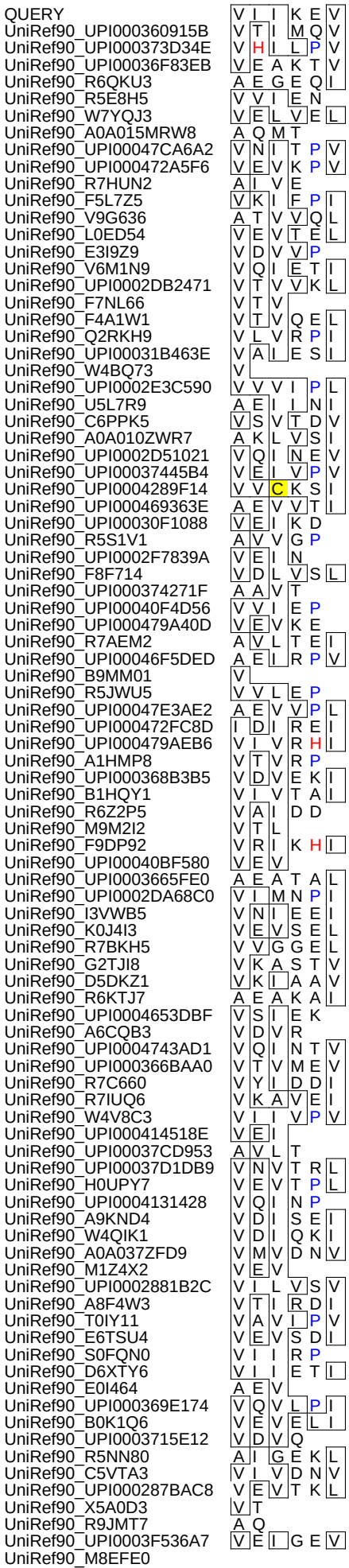
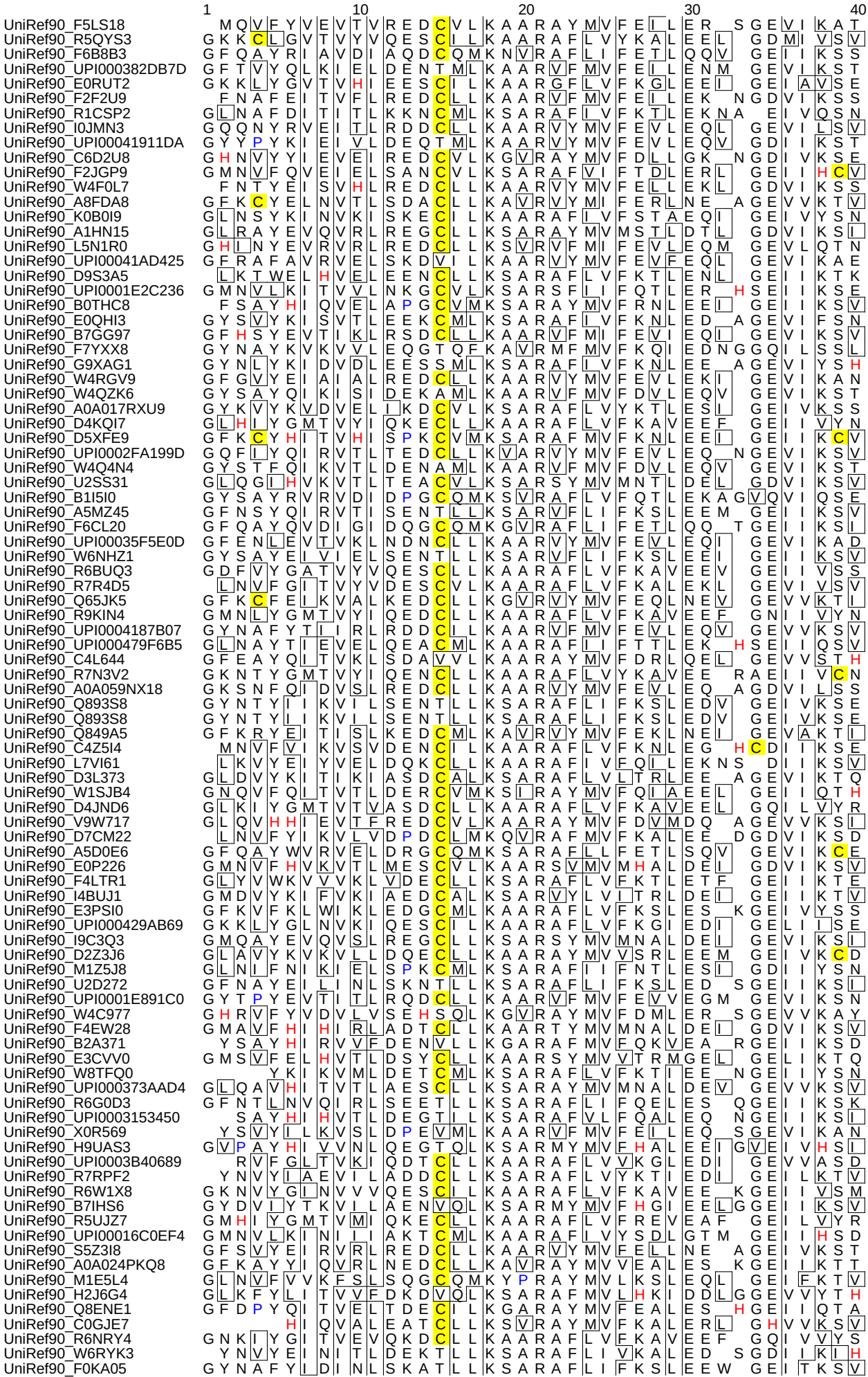
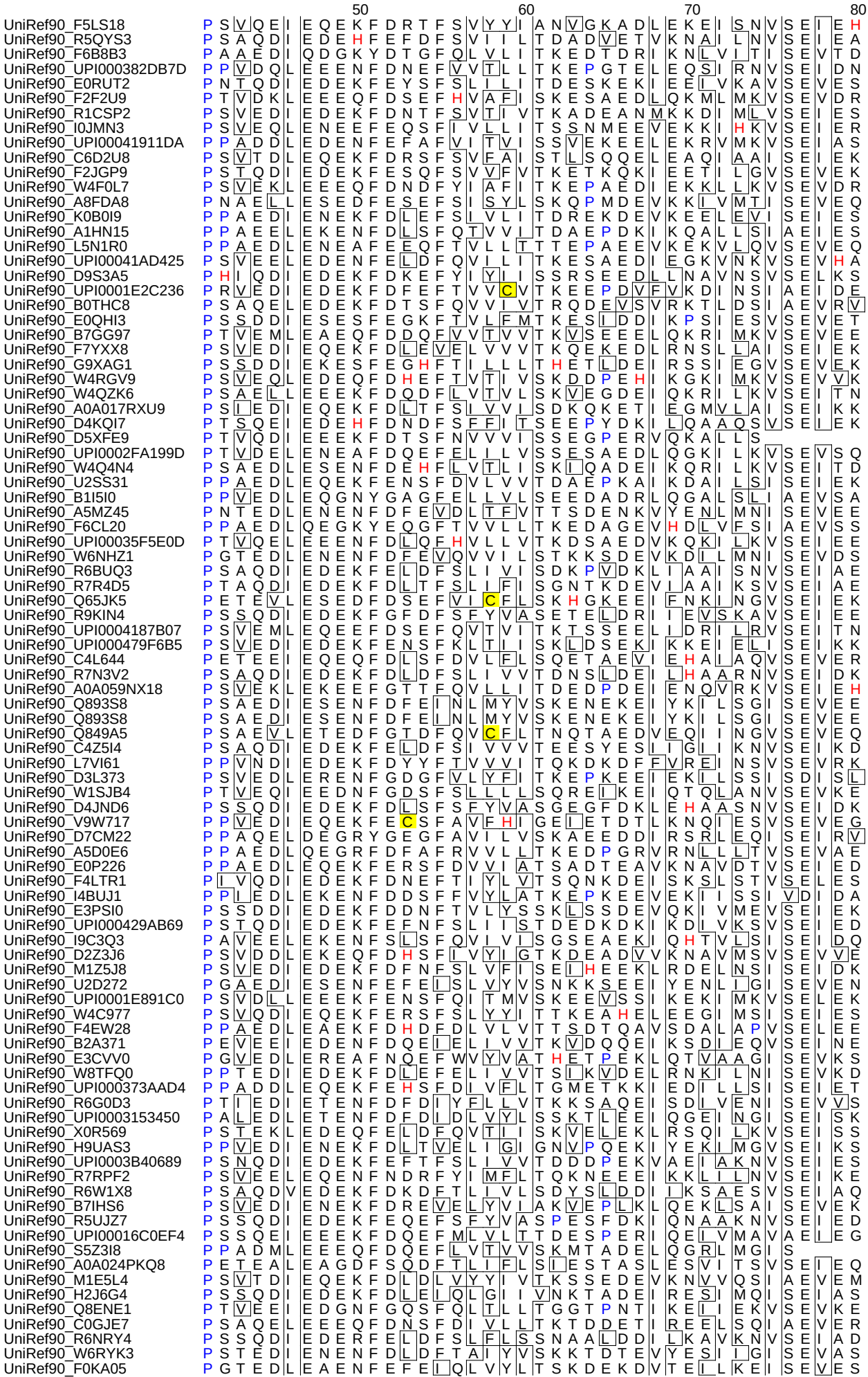
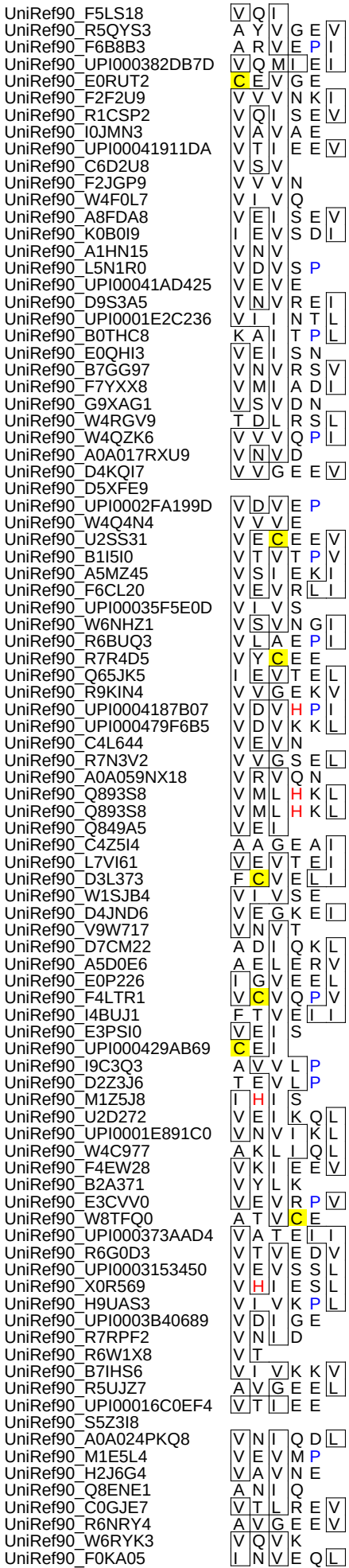

1
10
20
30
40
QUERY
UniRef90_UPI000360915B
UniRef90_UPI000373D34E
UniRef90_UPI00036F83EB
UniRef90_R6QKU3
UniRef90_R5E8H5
UniRef90_W7YQJ3
UniRef90_A0A015MRW8
UniRef90_UPI00047CA6A2
UniRef90_UPI000472A5F6
UniRef90_R7HUN2
UniRef90_F5L7Z5
UniRef90_V9G636
UniRef90_L0ED54
UniRef90_E3I9Z9
UniRef90_V6M1N9
UniRef90_UPI0002DB2471
UniRef90_F7NL66
UniRef90_F4A1W1
UniRef90_Q2RKH9
UniRef90_UPI00031B463E
UniRef90_W4BQ73
UniRef90_UPI0002E3C590
UniRef90_U5L7R9
UniRef90_C6PPK5
UniRef90_A0A010ZWR7
UniRef90_UPI0002D51021
UniRef90_UPI00037445B4
UniRef90_UPI0004289F14
UniRef90_UPI000469363E
UniRef90_UPI00030F1088
UniRef90_R5S1V1
UniRef90_UPI0002F7839A
UniRef90_F8F714
UniRef90_UPI000374271F
UniRef90_UPI00040F4D56
UniRef90_UPI000479A40D
UniRef90_R7AEM2
UniRef90_UPI00046F5DED
UniRef90_B9MM01
UniRef90_R5JWU5
UniRef90_UPI00047E3AE2
UniRef90_UPI000472FC8D
UniRef90_UPI000479AEB6
UniRef90_A1HMP8
UniRef90_UPI000368B3B5
UniRef90_B1HQY1
UniRef90_R6Z2P5
UniRef90_M9M2I2
UniRef90_F9DP92
UniRef90_UPI00040BF580
UniRef90_UPI0003665FE0
UniRef90_UPI0002DA68C0
UniRef90_I3VWB5
UniRef90_K0J4I3
UniRef90_R7BKH5
UniRef90_G2TJI8
UniRef90_D5DKZ1
UniRef90_R6KTJ7
UniRef90_UPI0004653DBF
UniRef90_A6CQB3
UniRef90_UPI0004743AD1
UniRef90_UPI000366BAA0
UniRef90_R7C660
UniRef90_R7IUQ6
UniRef90_W4V8C3
UniRef90_UPI000414518E
UniRef90_UPI00037CD953
UniRef90_UPI00037D1DB9
UniRef90_H0UPY7
UniRef90_UPI0004131428
UniRef90_A9KND4
UniRef90_W4QIK1
UniRef90_A0A037ZFD9
UniRef90_M1Z4X2
UniRef90_UPI0002881B2C
UniRef90_A8F4W3
UniRef90_T0IY11
UniRef90_E6TSU4
UniRef90_S0FQN0
UniRef90_D6XTY6
UniRef90_E0I464
UniRef90_UPI000369E174
UniRef90_B0K1Q6
UniRef90_UPI0003715E12
UniRef90_R5NN80
UniRef90_C5VTA3
UniRef90_UPI000287BAC8
UniRef90_X5A0D3
UniRef90_R9JMT7
UniRef90_UPI0003F536A7
UniRef90_M8EFE0

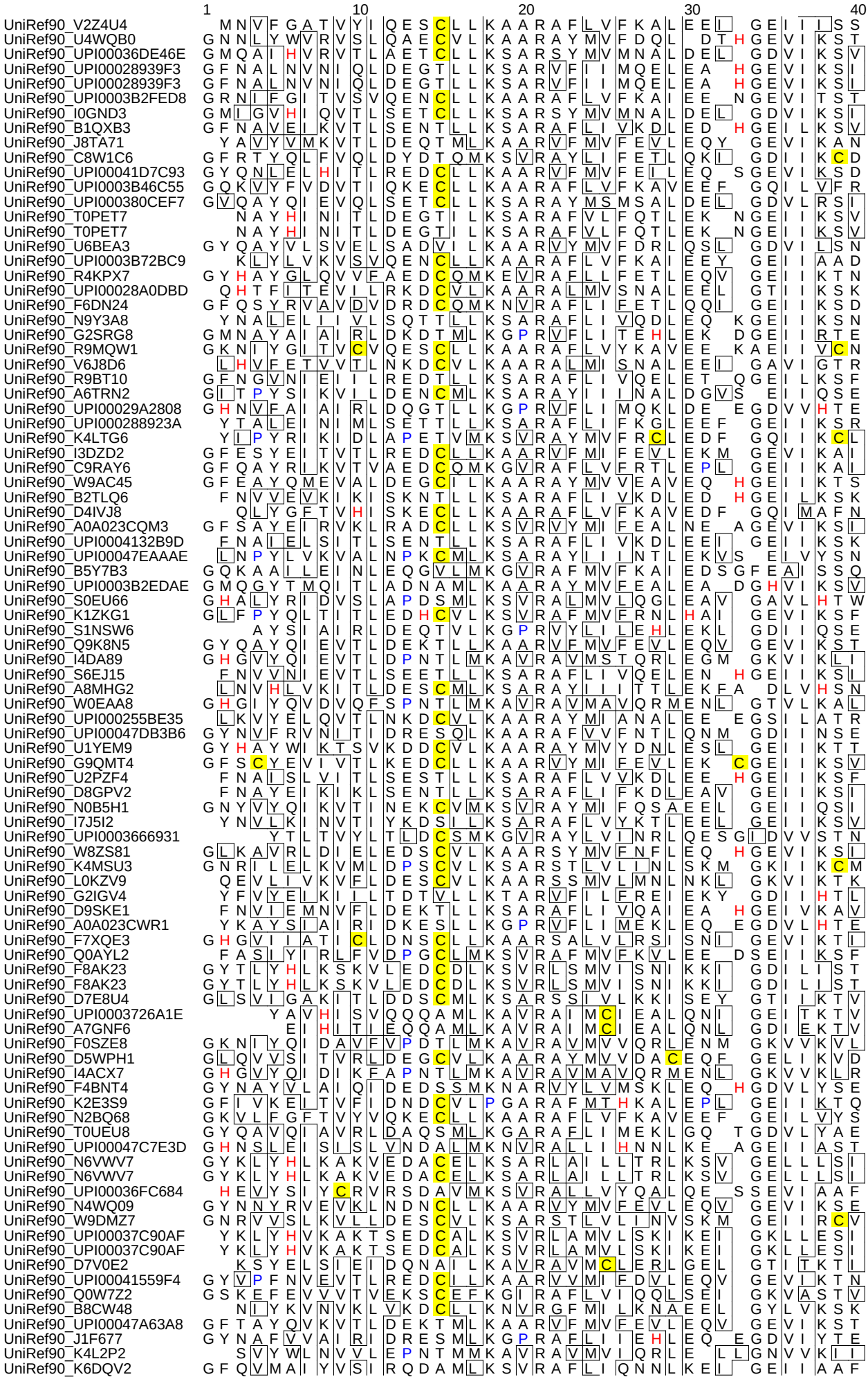

50
60
70
80
QUERY P S V E E I E E E K F E N E V E L F V I S P V D L E K L S E A L S S I A D I E R
UniRef90_UPI000360915B P S V Q D I E Q D K F D R S F S V Y Y V S Q I D E E Q L K A A I L N V S E I E D
UniRef90_UPI000373D34E P S V Q D I E Q E Q F D R S F S V Y Y I S K I D Q E S L Y Q L I S S I S E I E R
UniRef90_UPI00036F83EB P P V D Q L E D E Q F E F E F T V T L V S K E T S E E I K Q K I L K V S E I E E
UniRef90_R6QKU3 P S T Q D I E D E K F D L D F S M F I I S K E P L D K V V A T V K N V S E I K D
UniRef90_R5E8H5 P S V Q D I E D E K F D F D F S M L I I S D K S L E E I K K I I S N V S E I K E
UniRef90_W7YQJ3 P S V Q D I E Q E K F D H S F S L Y Y I T Q K D P A E L E Q L I L N V S E V D R
UniRef90_A0A015MRW8 P S V Q E I E Q E K F D R S F S V Y L I T H K P M E E L K T Q I E N V S E I E S
UniRef90_UPI00047CA6A2 P S V Q E I E Q E Q F D R S F A V Y Y I S Q V D E S V L R D Q V S R V S E I E S
UniRef90_UPI000472A5F6 P S V D Q L E E E K F D D S F S V T I V T K E P A E D I R K K I L K V S E I D Q
UniRef90_R7HUN2 P D V Q D I E D E K F E Q D F T V L I I T K E D I E A V K S T V L S I S E I S K
UniRef90_F5L7Z5 P P V Q E I E E E A F D F S F Q L L Y V T K Q P M E Y I Q Q I I L K V S E I E Q
UniRef90_V9G636 P D V Q D M E Q G N F E R E F L L Y Y I T Q K D V E D I K G Q I L G V S E V E S
UniRef90_L0ED54 P S V Q D I E Q E K F D R S I T V F L I S Q W T S D E L K Q Q I G G I S E I E S
UniRef90_E3I9Z9 P S V E M L E E E Q F D Q E F V V T V V S K K S A E E L Y E R I M K V S E I E E
UniRef90_V6M1N9 P A V Q E I E N E R F D L S F E V V F V T M H P M E K V R T A I Q N I S E I Q E
UniRef90_UPI0002DB2471 P P V E D L E E E R F D Y E F T V V L V S K E S A E D I E K R I M K V S E I E S
UniRef90_F7NL66 P S T E D L E K E N F E L S F A L L L V S D A E P E K I E Q A V N S V S E I E K
UniRef90_F4A1W1 P S A Q D I E N E R F D R D F T L T I L T K E P E Q Y I Y E R I N S V S E I E S
UniRef90_Q2RKH9 P H T Q D L E A E K F D D T F T L A F V S R E D A D T L A N V V K S V S E I K D
UniRef90_UPI00031B463E P S V E E I E N E R F D T S F E V V Y V S M K T E A E V R S L I E S I S E I S D
UniRef90_W4BQ73 P S V Q D I E Q E K F D Q S F S L Y Y I T Q K S A D Q I Q A M I L N L S E I D K
UniRef90_UPI0002E3C590 P T V E K L E E E Q F D Q T F Q V T F I T K D S A E E I Q K K I N K V S E I D K
UniRef90_U5L7R9 P P V D V L E E E Q F D S A F T V T L V T K E P K E E I Q A K I M K V S E I E K
UniRef90_C6PPK5 P S T E D I E N E N F D F E I D L I L L S T K E K D D I S N S L M N I S E V D R
UniRef90_A0A010ZWR7 P T V Q E I E Q E K F D R S F S L Y F I T E K D P E E L R T M I L N L S E I E D
UniRef90_UPI0002D51021 P T V T E L E D E N F E Y D F S V I L V A N D T P E A I Q Q K V M K V S E I D Q
UniRef90_UPI00037445B4 P P V E Q L E E E N F E D S F M I T L I T N E A A G D I E Q K I L K V S E I E K
UniRef90_UPI0004289F14 P S V E L L E E E Q F D N K F T V S L I S K D S A E D I K N K V L K V S E I E S
UniRef90_UPI000469363E P S V E D I E E E K F D L S F E V M Y V T K E S A E N I Q Q M I L K V S E I E K
UniRef90_UPI00030F1088 P P A Q D I E Q D K F D S G F S I F F V S Q T E V E Q L K H E V G Q V S E L E S
UniRef90_R5S1V1 P N V Q D I E D E K F D F D F S L V Y F T K E S L E T V K A A I E N V S E V K N
UniRef90_UPI0002F7839A P P V D Q L E E E Q F D Q E F T V S I V S K E N P D D L Q K K I M K V S E V E K
UniRef90_F8F714 P S V E D I E Q E R F E N S F T V Y Y V S Q L D K E L L H K Q V A G V S E I D K
UniRef90_UPI000374271F P S V E Q L E Q E K F D R E F V V F Y I S Q L P A D S L K Q Q I E T V S E I D M
UniRef90_UPI00040F4D56 P T V D V L E A E D F D L E F S V L V I T E A A L E D L K E R I L K V S E V Q S
UniRef90_UPI000479A40D P G T E D L E N E N F D F E I N L V F V T H K D K D E I K T I L L D I S E V D K
UniRef90_R7AEM2 P S V Q D I E D E K F D F D F S I V F V T E E E A S K I L D I I K N V S E I K D
UniRef90_UPI00046F5DED P T V E R L E N E E F D S Q F T V V I I T K E D A E E L K A K V Q K V S E L E Q
UniRef90_B9MM01 P S V Q D I E D E K F D F E F S I T V I S K Q P I E K I R D R I L S I S E I R E
UniRef90_R5JWU5 P S V Q D I E D E K F D F D F S M F I I S D K P A D Q V R K V I S N V S E I K E
UniRef90_UPI00047E3AE2 P S V E Q L E E E Q F D Q E F S V T I V T Q E P K E D V Q Q K L L K V S E V Q R
UniRef90_UPI000472FC8D P S A Q D I E E E K F G L S F S V V A V C K A E L D T I K K E L D S I S E I E S
UniRef90_UPI000479AEB6 P S V E L L E E E K F D H E F T V A L V T K E S S E D L K N K V M K V S E I E D
UniRef90_A1HMP8 P T V E E L E Q E N F D L S F H V A L I S D D E P E K I K Q V I L N I A E I A S
UniRef90_UPI000368B3B5 P S V Q D I E E E K F E Q A F L I V L I T D A E Q Q A I R Q T G L N V S E V A R
UniRef90_B1HQY1 P S V E K L E D E Q F D Q Q F Y V A F V T K E S A E D M Q K K I M K V S E V E E
UniRef90_R6Z2P5 P T T E Q I E D E E F D F D F S W I L A T K E D K E T I K K L I M N V S E I A D
UniRef90_M9M2I2 P P V Q D I E Q D K F D S E F T I I F V S N T E Q D E L K R D I Y Q V S E L E S
UniRef90_F9DP92 P T V E K L E N E E F D Q N F T I V L L T H E D A D D L K A K I M K V S E I E D
UniRef90_UPI00040BF580 P S V N E L E E E Q F D T S F T V I F I S E H S K E K I S T N I E K V S E I E Q
UniRef90_UPI0003665FE0 P S V Q D I E Q E K F D R N F S L Y Y I T Q K E A A E I Q S M I M N L S E I A S
UniRef90_UPI0002DA68C0 P P A E Q L E E E K F D S E F T L T F I T K E S V D V I Q Q H I M K I S E I Q N
UniRef90_I3VWB5 P S V E D I E D E K F D D R F T V H L I S K H D K D S V K S K L T A I S E I K E
UniRef90_K0J4I3 P S V T E L E D E N F D F D F S V V L V T K D S P T E I E Q K V M K V S E I K S
UniRef90_R7BKH5 P S T Q D I E D E K F E L D F S V F V V S N E S F D K V L G V I K N V S E I K N
UniRef90_G2TJI8 P P A D Q L E E E Q F D N E F K V T L I S K E D R E E I R E K I C K V S E I E D
UniRef90_D5DKZ1 P T V Q D I E Q E K F E S S F I V I L V T N E S Q E K L Q A S I M E V S E V E S
UniRef90_R6KTJ7 P S T Q D I E D E K F D K K F T I V V V S K E S M E D I S G I I R N V S E I K S
UniRef90_UPI0004653DBF P P V E D L E N E K F D R S F E I Y I A T H D S E E S L Q E A L S R I S E L E K
UniRef90_A6CQB3 P A V D V L E E E N F D Q D F L V S I V S K D S Q E D I K K K V M K V S E V H K
UniRef90_UPI0004743AD1 P S V Q D I E Q E Q F D Q Q F T A V L V S K E E E S S L K E Q L M Q I S E V E H
UniRef90_UPI000366BAA0 P P T E K L E E E K F D E Y F T V T L I T K E P A E D I E E K V K K V S E V D Q
UniRef90_R7C660 P S T E Q I E D E E F D F D F S W I F A S S D T K E N I K K L V M N V S E I T E
UniRef90_R7IUQ6 P S V Q D I E D E K F E F E F C I I M F S Q E E L E K V T K A V E N V S E I K E
UniRef90_W4V8C3 P K V E D I E D E K F D F E F T V V C V S K E S A E V F Q R D I N G I A E V D E
UniRef90_UPI000414518E P D V D E I E E G N F D Q S F S F L F I S T E S S K L I Q E T I E K V S E I E K
UniRef90_UPI00037CD953 P S V Q D I E Q E K F D R G F S L Y Y I T Q K D A A E L E K E I K G I S E I E D
UniRef90_UPI00037D1DB9 P S T Q D I E Q D K F E R S F S L Y Y V T Q K D P A E L E P M V T S I S E I E S
UniRef90_H0UPY7 P G V E D L E R E A F D T E F W V Y V A T H E S G D S L S K V A S S I S E V A S
UniRef90_UPI0004131428 P S V S N L E E E N F D Y T F S V I L V S N Q N S K E I T E K I K K V S E I D S
UniRef90_A9KND4 P E V Q D I E D E R F D L D F S V V L L T K E S M S K V E K V V S N V S E I N G
UniRef90_W4QIK1 P A A E D L E E E K F D Q S F T L I V V S K S T E E D V K N R I L K V S E I E D
UniRef90_A0A037ZFD9 P T T E D I E N E N F D F E I N L I Y L S T K N K E E I Y N I L I N I S E V D E
UniRef90_M1Z4X2 P S V D E L E E E K F D R S F S L T L I T M L S K E E V E K T I N R I S E I R R
UniRef90_UPI0002881B2C P S V E D I E Q E K F E Q K F T V Y L V S E R D A A E L R S E I A N V S E V E Q
UniRef90_A8F4W3 P S V E D I E Q E K F D L D V E L I V I I K E D K E N L R N I L M S I S E I E K
UniRef90_T0IY11 P T V E E L E K E N F D N S F Q V S V L T S V N A E N I E T A V L N I S E V E K
UniRef90_E6TSU4 P T V D Q L E E E N F D L N F S V T L V S K E S A N D V Q G K V L K V S E V D T
UniRef90_S0FQN0 P V V Q D I E D E K F D F E F T V V V V S K E D E Q H F S K E L N S I A E V D E
UniRef90_D6XTY6 P A V D K L E E E E F D L S F D V T L V T K T D A E E V K S R I M K V S E I D D
UniRef90_E0I464 P S V Q D I E Q D K F D R S F I V F L I S S S D Q Q A L K D G I E S V S E V E L
UniRef90_UPI000369E174 P P A E D L Q E G R Y D T G F S V V L L S K E D A D S L A N L L L S I A E V S S
UniRef90_B0K1Q6 P S V E D I E D E K F E E S F T V H I I T K E D K E S I E K R L L S I A E V N K
UniRef90_UPI0003715E12 P S V E E I E Q E R F E N S F T V Y Y I S H I D K E Q L S G Q I G A I S E I E R
UniRef90_R5NN80 P P A Q D I E D E K F D F D F S I C V I S S E S L E K V L G V I K N V S E I K D
UniRef90_C5VTA3 P S A D D L E S E N F D F E I E M I Y L T T K N N E E I Y D I L M D I S E V D K
UniRef90_UPI000287BAC8 P A V E Q L E A E Q F D T K F S V A Y V T K G E I E A V Q E A L S K V S E V E L
UniRef90_X5A0D3 P S V Q D I E Q E K F E Y S F S L Y Y I T Q K T A E E M Q S L I M G V S E I E S
UniRef90_R9JMT7 P S V Q D I E D E R F E L D F S L I F V S D S S L E K I L D S I K S V S E I E D
UniRef90_UPI0003F536A7 P N T Q D I E D E K F D H T F A V L V I T D E E P D K V A E I A K N V S E I E S
UniRef90_M8EFE0 P A V E D L E N E R F D L S F E V V F V T M E P L E K V K K A I S N I S

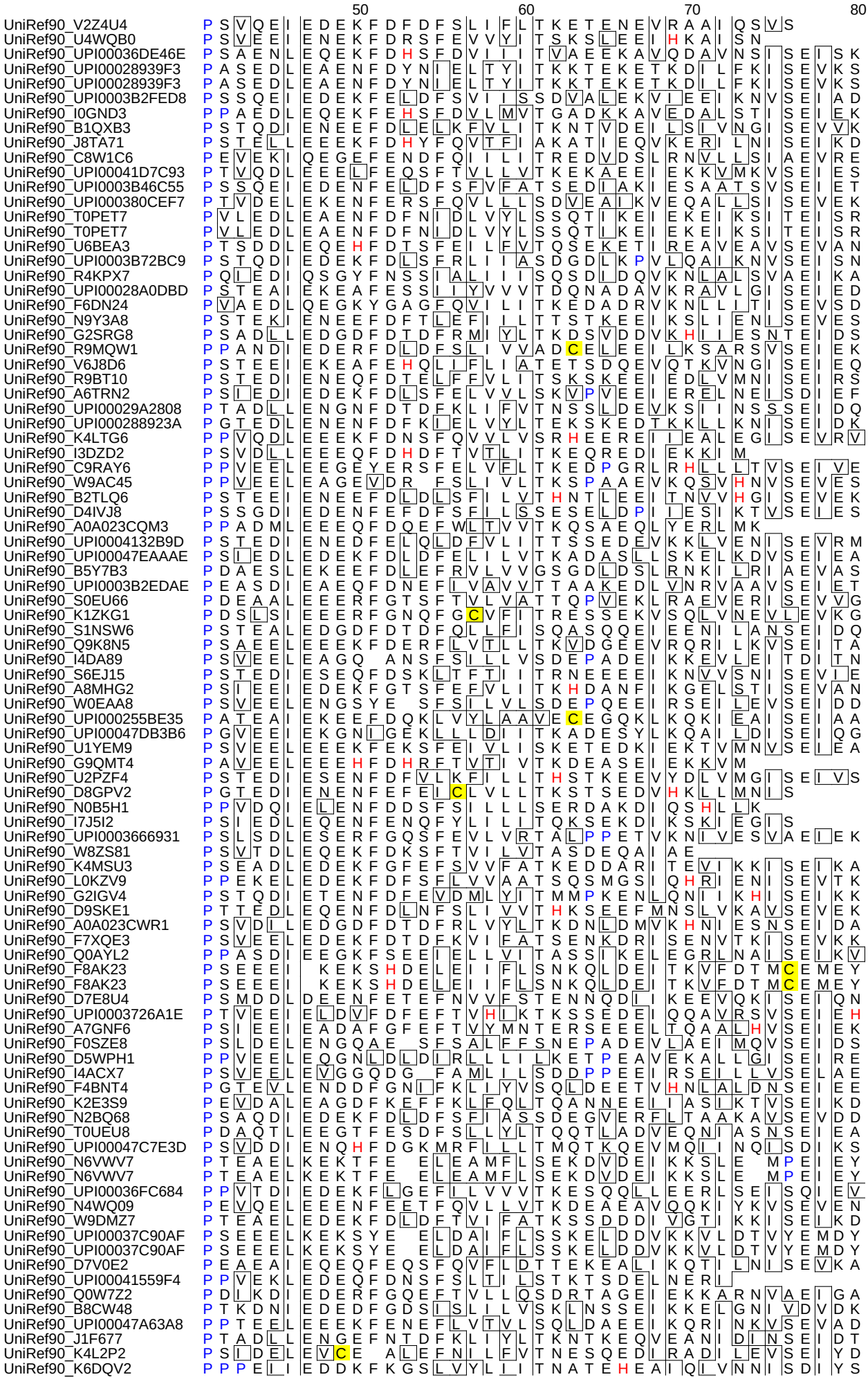

QUERY V I I K E V
UniRef90_UPI000360915B V T I M Q V
UniRef90_UPI000373D34E V H I L P V
UniRef90_UPI00036F83EB V E A K T V
UniRef90_R6QKU3 A E G E Q I
UniRef90_R5E8H5 V V I E N
UniRef90_W7YQJ3 V E L V E L
UniRef90_A0A015MRW8 A Q M T
UniRef90_UPI00047CA6A2 V N I T P V
UniRef90_UPI000472A5F6 V E V K P V
UniRef90_R7HUN2 A I V E
UniRef90_F5L7Z5 V K I F P I
UniRef90_V9G636 A T V V Q L
UniRef90_L0ED54 V E V T E L
UniRef90_E3I9Z9 V D V V P
UniRef90_V6M1N9 V Q I E T I
UniRef90_UPI0002DB2471 V T V V K L
UniRef90_F7NL66 V T V
UniRef90_F4A1W1 V T V Q E L
UniRef90_Q2RKH9 V L V R P I
UniRef90_UPI00031B463E V A I E S I
UniRef90_W4BQ73 V
UniRef90_UPI0002E3C590 V V V I P L
UniRef90_U5L7R9 A E I I N I
UniRef90_C6PPK5 V S V T D V
UniRef90_A0A010ZWR7 A K L V S I
UniRef90_UPI0002D51021 V Q I N E V
UniRef90_UPI00037445B4 V E I V P V
UniRef90_UPI0004289F14 V V C K S I
UniRef90_UPI000469363E A E V V T I
UniRef90_UPI00030F1088 V E I K D
UniRef90_R5S1V1 A V V G P
UniRef90_UPI0002F7839A V E I N
UniRef90_F8F714 V D L V S L
UniRef90_UPI000374271F A A V T
UniRef90_UPI00040F4D56 V V I E P
UniRef90_UPI000479A40D V E V K E
UniRef90_R7AEM2 A V L T E I
UniRef90_UPI00046F5DED A E I R P V
UniRef90_B9MM01 V
UniRef90_R5JWU5 V V L E P
UniRef90_UPI00047E3AE2 A E V V P L
UniRef90_UPI000472FC8D I D I R E I
UniRef90_UPI000479AEB6 V I V R H I
UniRef90_A1HMP8 V T V R P
UniRef90_UPI000368B3B5 V D V E K I
UniRef90_B1HQY1 V I V T A I
UniRef90_R6Z2P5 V A I D D
UniRef90_M9M2I2 V T L
UniRef90_F9DP92 V R I K H I
UniRef90_UPI00040BF580 V E V
UniRef90_UPI0003665FE0 A E A T A L
UniRef90_UPI0002DA68C0 V I M N P I
UniRef90_I3VWB5 V N I E E I
UniRef90_K0J4I3 V E V S E L
UniRef90_R7BKH5 V V G G E L
UniRef90_G2TJI8 V K A S T V
UniRef90_D5DKZ1 V K I A A V
UniRef90_R6KTJ7 A E A K A I
UniRef90_UPI0004653DBF V S I E K
UniRef90_A6CQB3 V D V R
UniRef90_UPI0004743AD1 V Q I N T V
UniRef90_UPI000366BAA0 V T V M E V
UniRef90_R7C660 V Y I D D I
UniRef90_R7IUQ6 V K A V E I
UniRef90_W4V8C3 V I I V P V
UniRef90_UPI000414518E V E I
UniRef90_UPI00037CD953 A V L T
UniRef90_UPI00037D1DB9 V N V T R L
UniRef90_H0UPY7 V E V T P L
UniRef90_UPI0004131428 V Q I N P
UniRef90_A9KND4 V D I S E I
UniRef90_W4QIK1 V D I Q K I
UniRef90_A0A037ZFD9 V M V D N V
UniRef90_M1Z4X2 V E V
UniRef90_UPI0002881B2C V I L V S V
UniRef90_A8F4W3 V T I R D I
UniRef90_T0IY11 V A V I P V
UniRef90_E6TSU4 V E V S D I
UniRef90_S0FQN0 V I I R P
UniRef90_D6XTY6 V I I E T I
UniRef90_E0I464 A E V
UniRef90_UPI000369E174 V Q V L P I
UniRef90_B0K1Q6 V E V E L I
UniRef90_UPI0003715E12 V D V Q
UniRef90_R5NN80 A I G E K L
UniRef90_C5VTA3 V I V D N V
UniRef90_UPI000287BAC8 V E V T K L
UniRef90_X5A0D3 V T
UniRef90_R9JMT7 A Q
UniRef90_UPI0003F536A7 V E I G E V
UniRef90_M8EFE0

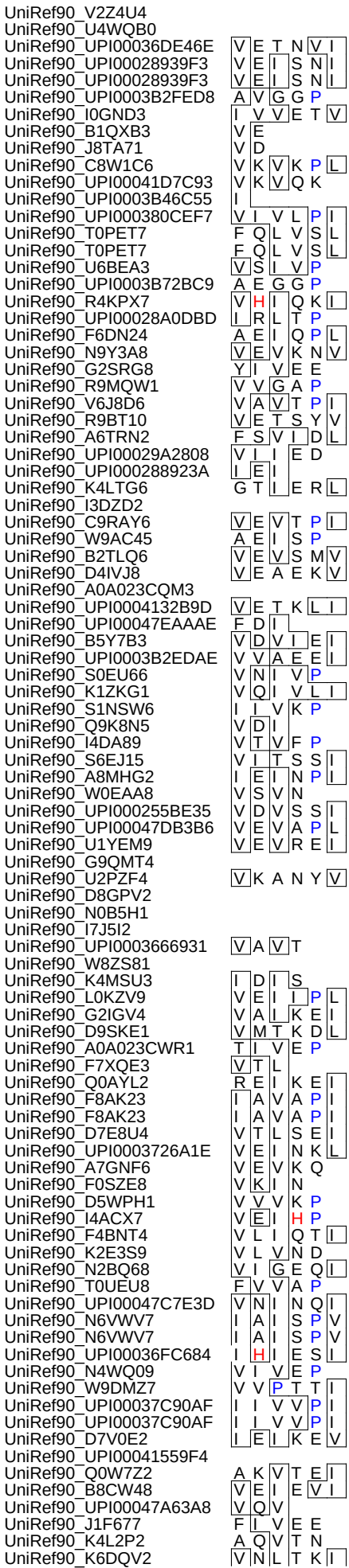

1
10
20
30
40
UniRef90_F5LS18
UniRef90_R5QYS3
UniRef90_F6B8B3
UniRef90_UPI000382DB7D
UniRef90_E0RUT2
UniRef90_F2F2U9
UniRef90_R1CSP2
UniRef90_I0JMN3
UniRef90_UPI00041911DA
UniRef90_C6D2U8
UniRef90_F2JGP9
UniRef90_W4F0L7
UniRef90_A8FDA8
UniRef90_K0B0I9
UniRef90_A1HN15
UniRef90_L5N1R0
UniRef90_UPI00041AD425
UniRef90_D9S3A5
UniRef90_UPI0001E2C236
UniRef90_B0THC8
UniRef90_E0QHI3
UniRef90_B7GG97
UniRef90_F7YXX8
UniRef90_G9XAG1
UniRef90_W4RGV9
UniRef90_W4QZK6
UniRef90_A0A017RXU9
UniRef90_D4KQI7
UniRef90_D5XFE9
UniRef90_UPI0002FA199D
UniRef90_W4Q4N4
UniRef90_U2SS31
UniRef90_B1I5I0
UniRef90_A5MZ45
UniRef90_F6CL20
UniRef90_UPI00035F5E0D
UniRef90_W6NHZ1
UniRef90_R6BUQ3
UniRef90_R7R4D5
UniRef90_Q65JK5
UniRef90_R9KIN4
UniRef90_UPI0004187B07
UniRef90_UPI000479F6B5
UniRef90_C4L644
UniRef90_R7N3V2
UniRef90_A0A059NX18
UniRef90_Q893S8
UniRef90_Q893S8
UniRef90_Q849A5
UniRef90_C4Z5I4
UniRef90_L7VI61
UniRef90_D3L373
UniRef90_W1SJB4
UniRef90_D4JND6
UniRef90_V9W717
UniRef90_D7CM22
UniRef90_A5D0E6
UniRef90_E0P226
UniRef90_F4LTR1
UniRef90_I4BUJ1
UniRef90_E3PSI0
UniRef90_UPI000429AB69
UniRef90_I9C3Q3
UniRef90_D2Z3J6
UniRef90_M1Z5J8
UniRef90_U2D272
UniRef90_UPI0001E891C0
UniRef90_W4C977
UniRef90_F4EW28
UniRef90_B2A371
UniRef90_E3CVV0
UniRef90_W8TFQ0
UniRef90_UPI000373AAD4
UniRef90_R6G0D3
UniRef90_UPI0003153450
UniRef90_X0R569
UniRef90_H9UAS3
UniRef90_UPI0003B40689
UniRef90_R7RPF2
UniRef90_R6W1X8
UniRef90_B7IHS6
UniRef90_R5UJZ7
UniRef90_UPI00016C0EF4
UniRef90_S5Z3I8
UniRef90_A0A024PKQ8
UniRef90_M1E5L4
UniRef90_H2J6G4
UniRef90_Q8ENE1
UniRef90_C0GJE7
UniRef90_R6NRY4
UniRef90_W6RYK3
UniRef90_F0KA05

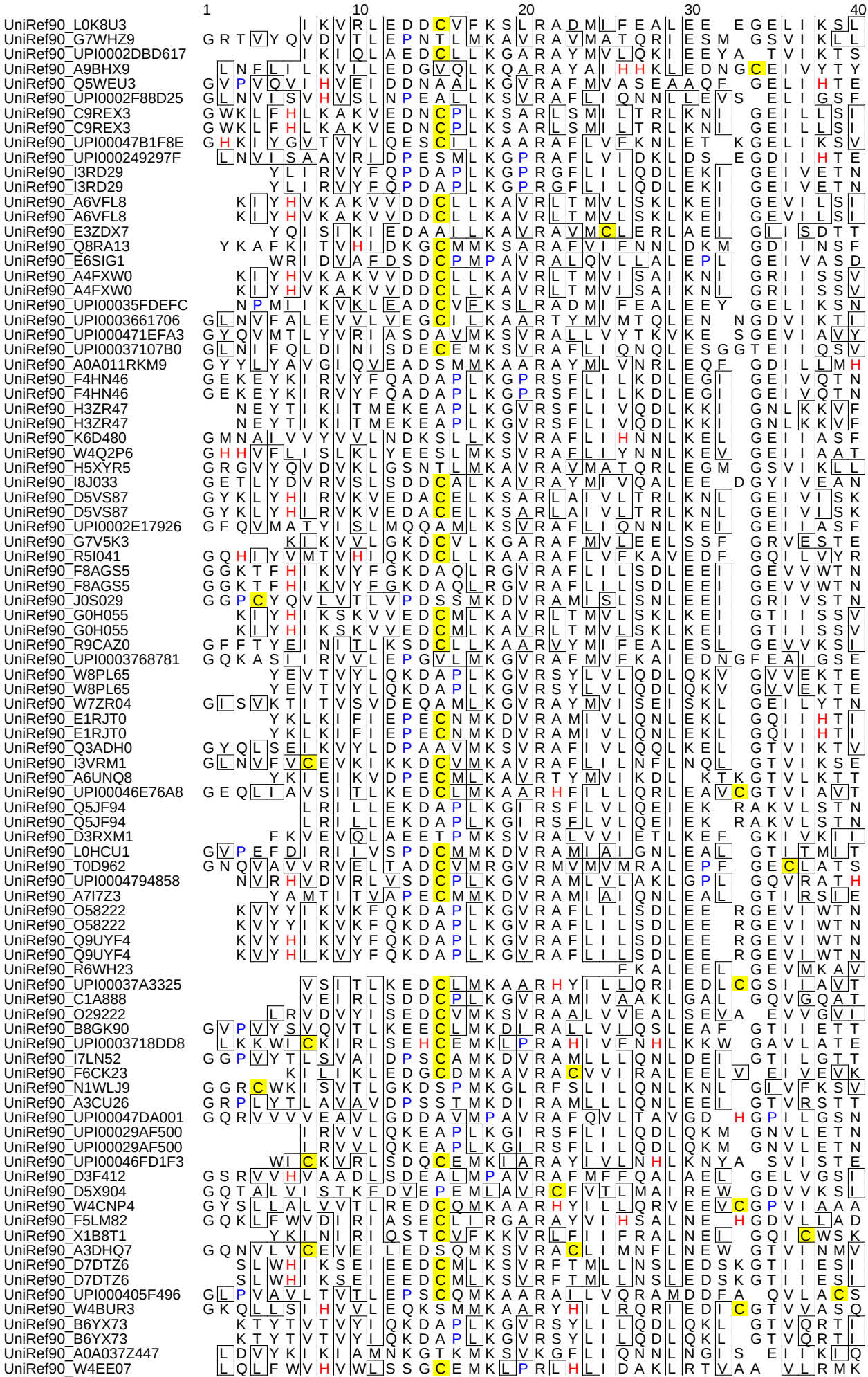

50
60
70
80
UniRef90_F5LS18
UniRef90_R5QYS3
UniRef90_F6B8B3
UniRef90_UPI000382DB7D
UniRef90_E0RUT2
UniRef90_F2F2U9
UniRef90_R1CSP2
UniRef90_I0JMN3
UniRef90_UPI00041911DA
UniRef90_C6D2U8
UniRef90_F2JGP9
UniRef90_W4F0L7
UniRef90_A8FDA8
UniRef90_K0B0I9
UniRef90_A1HN15
UniRef90_L5N1R0
UniRef90_UPI00041AD425
UniRef90_D9S3A5
UniRef90_UPI0001E2C236
UniRef90_B0THC8
UniRef90_E0QHI3
UniRef90_B7GG97
UniRef90_F7YXX8
UniRef90_G9XAG1
UniRef90_W4RGV9
UniRef90_W4QZK6
UniRef90_A0A017RXU9
UniRef90_D4KQI7
UniRef90_D5XFE9
UniRef90_UPI0002FA199D
UniRef90_W4Q4N4
UniRef90_U2SS31
UniRef90_B1I5I0
UniRef90_A5MZ45
UniRef90_F6CL20
UniRef90_UPI00035F5E0D
UniRef90_W6NHZ1
UniRef90_R6BUQ3
UniRef90_R7R4D5
UniRef90_Q65JK5
UniRef90_R9KIN4
UniRef90_UPI0004187B07
UniRef90_UPI000479F6B5
UniRef90_C4L644
UniRef90_R7N3V2
UniRef90_A0A059NX18
UniRef90_Q893S8
UniRef90_Q893S8
UniRef90_Q849A5
UniRef90_C4Z5I4
UniRef90_L7VI61
UniRef90_D3L373
UniRef90_W1SJB4
UniRef90_D4JND6
UniRef90_V9W717
UniRef90_D7CM22
UniRef90_A5D0E6
UniRef90_E0P226
UniRef90_F4LTR1
UniRef90_I4BUJ1
UniRef90_E3PSI0
UniRef90_UPI000429AB69
UniRef90_I9C3Q3
UniRef90_D2Z3J6
UniRef90_M1Z5J8
UniRef90_U2D272
UniRef90_UPI0001E891C0
UniRef90_W4C977
UniRef90_F4EW28
UniRef90_B2A371
UniRef90_E3CVV0
UniRef90_W8TFQ0
UniRef90_UPI000373AAD4
UniRef90_R6G0D3
UniRef90_UPI0003153450
UniRef90_X0R569
UniRef90_H9UAS3
UniRef90_UPI0003B40689
UniRef90_R7RPF2
UniRef90_R6W1X8
UniRef90_B7IHS6
UniRef90_R5UJZ7
UniRef90_UPI00016C0EF4
UniRef90_S5Z3I8
UniRef90_A0A024PKQ8
UniRef90_M1E5L4
UniRef90_H2J6G4
UniRef90_Q8ENE1
UniRef90_C0GJE7
UniRef90_R6NRY4
UniRef90_W6RYK3
UniRef90_F0KA05

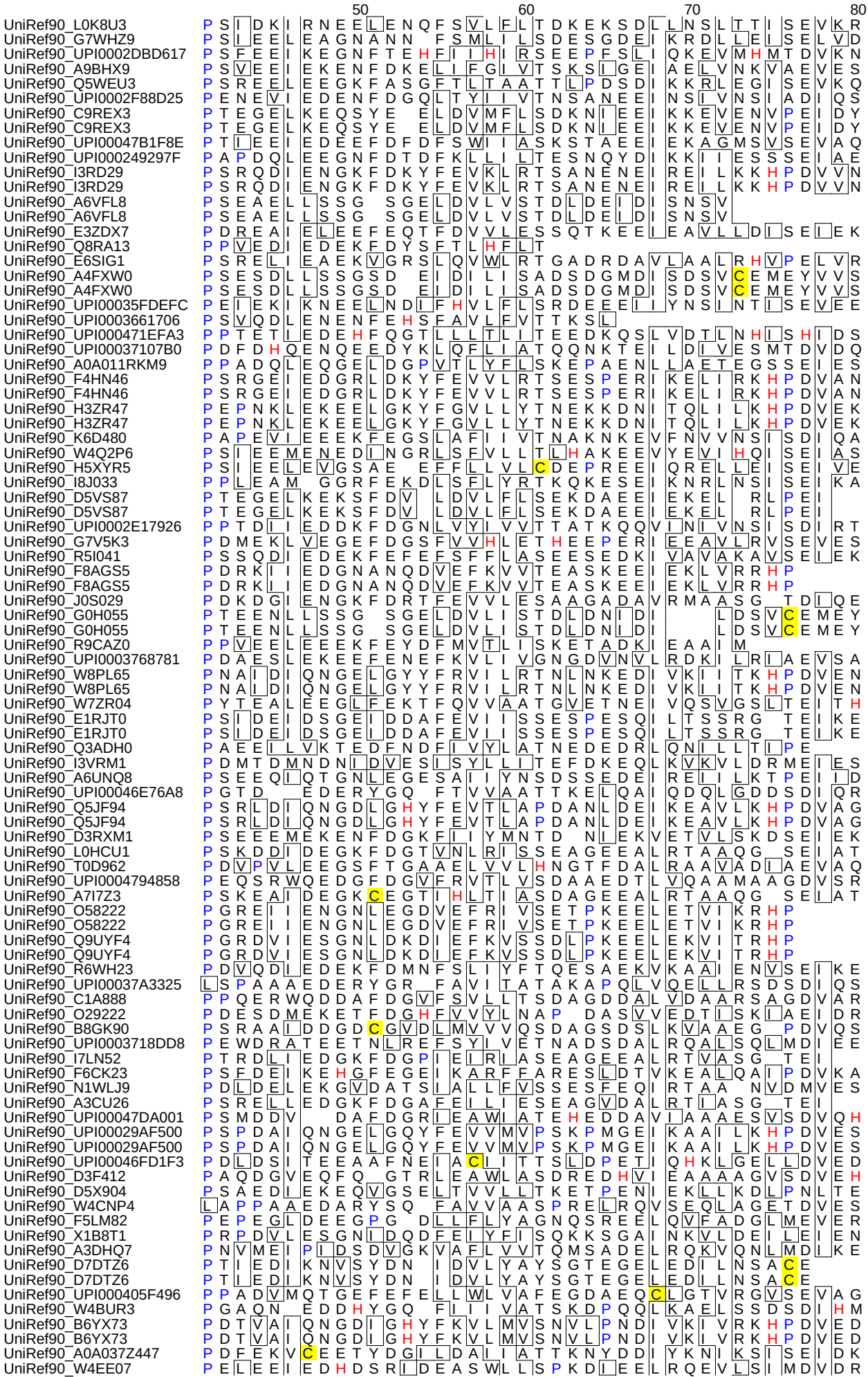

UniRef90_F5LS18 V Q I
UniRef90_R5QYS3 A Y V G E V
UniRef90_F6B8B3 A R V E P I
UniRef90_UPI000382DB7D V Q M I E I
UniRef90_E0RUT2 C E V G E
UniRef90_F2F2U9 V V V N K I
UniRef90_R1CSP2 V Q I S E V
UniRef90_I0JMN3 V A V A E
UniRef90_UPI00041911DA V T I E E V
UniRef90_C6D2U8 V S V
UniRef90_F2JGP9 V V V N
UniRef90_W4F0L7 V I V Q
UniRef90_A8FDA8 V E I S E V
UniRef90_K0B0I9 I E V S D I
UniRef90_A1HN15 V N V
UniRef90_L5N1R0 V D V S P
UniRef90_UPI00041AD425 V E V E
UniRef90_D9S3A5 V N V R E I
UniRef90_UPI0001E2C236 V I I N T L
UniRef90_B0THC8 K A I T P L
UniRef90_E0QHI3 V E I S N
UniRef90_B7GG97 V N V R S V
UniRef90_F7YXX8 V M I A D I
UniRef90_G9XAG1 V S V D N
UniRef90_W4RGV9 T D L R S L
UniRef90_W4QZK6 V V V Q P I
UniRef90_A0A017RXU9 V N V D
UniRef90_D4KQI7 V V G E E V
UniRef90_D5XFE9
UniRef90_UPI0002FA199D V D V E P
UniRef90_W4Q4N4 V V V E
UniRef90_U2SS31 V E C E E V
UniRef90_B1I5I0 V T V T P V
UniRef90_A5MZ45 V S I E K I
UniRef90_F6CL20 V E V R L I
UniRef90_UPI00035F5E0D V I V S
UniRef90_W6NHZ1 V S V N G I
UniRef90_R6BUQ3 V L A E P I
UniRef90_R7R4D5 V Y C E E
UniRef90_Q65JK5 I E V T E L
UniRef90_R9KIN4 V V G E K V
UniRef90_UPI0004187B07 V D V H P I
UniRef90_UPI000479F6B5 V D V K K L
UniRef90_C4L644 V E V N
UniRef90_R7N3V2 V V G S E L
UniRef90_A0A059NX18 V R V Q N
UniRef90_Q893S8 V M L H K L
UniRef90_Q893S8 V M L H K L
UniRef90_Q849A5 V E I
UniRef90_C4Z5I4 A A G E A I
UniRef90_L7VI61 V E V T E I
UniRef90_D3L373 F C V E L I
UniRef90_W1SJB4 V I V S E
UniRef90_D4JND6 V E G K E I
UniRef90_V9W717 V N V T
UniRef90_D7CM22 A D I Q K L
UniRef90_A5D0E6 A E L E R V
UniRef90_E0P226 I G V E E L
UniRef90_F4LTR1 V C V Q P V
UniRef90_I4BUJ1 F T V E I I
UniRef90_E3PSI0 V E I S
UniRef90_UPI000429AB69 C E I
UniRef90_I9C3Q3 A V V L P
UniRef90_D2Z3J6 T E V L P
UniRef90_M1Z5J8 I H I S
UniRef90_U2D272 V E I K Q L
UniRef90_UPI0001E891C0 V N V I K L
UniRef90_W4C977 A K L I Q L
UniRef90_F4EW28 V K I E E V
UniRef90_B2A371 V Y L K
UniRef90_E3CVV0 V E V R P V
UniRef90_W8TFQ0 A T V C E
UniRef90_UPI000373AAD4 V A T E I I
UniRef90_R6G0D3 V T V E D V
UniRef90_UPI0003153450 V E V S S L
UniRef90_X0R569 V H I E S L
UniRef90_H9UAS3 V I V K P L
UniRef90_UPI0003B40689 V D I G E
UniRef90_R7RPF2 V N I D
UniRef90_R6W1X8 V T
UniRef90_B7IHS6 V I V K K V
UniRef90_R5UJZ7 A V G E E L
UniRef90_UPI00016C0EF4 V T I E E
UniRef90_S5Z3I8
UniRef90_A0A024PKQ8 V N I Q D L
UniRef90_M1E5L4 V E V M P
UniRef90_H2J6G4 V A V N E
UniRef90_Q8ENE1 A N I Q
UniRef90_C0GJE7 V T L R E V
UniRef90_R6NRY4 A V G E E V
UniRef90_W6RYK3 V Q V K
UniRef90_F0KA05 I N V E Q L

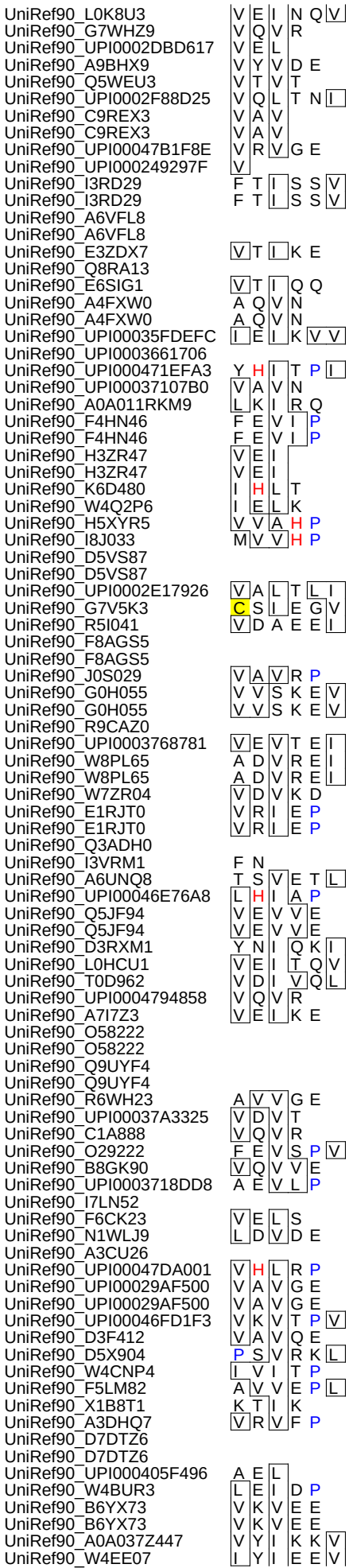

1
10
20
30
40
UniRef90_V2Z4U4
UniRef90_U4WQB0
UniRef90_UPI00036DE46E
UniRef90_UPI00028939F3
UniRef90_UPI00028939F3
UniRef90_UPI0003B2FED8
UniRef90_I0GND3
UniRef90_B1QXB3
UniRef90_J8TA71
UniRef90_C8W1C6
UniRef90_UPI00041D7C93
UniRef90_UPI0003B46C55
UniRef90_UPI000380CEF7
UniRef90_T0PET7
UniRef90_T0PET7
UniRef90_U6BEA3
UniRef90_UPI0003B72BC9
UniRef90_R4KPX7
UniRef90_UPI00028A0DBD
UniRef90_F6DN24
UniRef90_N9Y3A8
UniRef90_G2SRG8
UniRef90_R9MQW1
UniRef90_V6J8D6
UniRef90_R9BT10
UniRef90_A6TRN2
UniRef90_UPI00029A2808
UniRef90_UPI000288923A
UniRef90_K4LTG6
UniRef90_I3DZD2
UniRef90_C9RAY6
UniRef90_W9AC45
UniRef90_B2TLQ6
UniRef90_D4IVJ8
UniRef90_A0A023CQM3
UniRef90_UPI0004132B9D
UniRef90_UPI00047EAAAE
UniRef90_B5Y7B3
UniRef90_UPI0003B2EDAE
UniRef90_S0EU66
UniRef90_K1ZKG1
UniRef90_S1NSW6
UniRef90_Q9K8N5
UniRef90_I4DA89
UniRef90_S6EJ15
UniRef90_A8MHG2
UniRef90_W0EAA8
UniRef90_UPI000255BE35
UniRef90_UPI00047DB3B6
UniRef90_U1YEM9
UniRef90_G9QMT4
UniRef90_U2PZF4
UniRef90_D8GPV2
UniRef90_N0B5H1
UniRef90_I7J5I2
UniRef90_UPI0003666931
UniRef90_W8ZS81
UniRef90_K4MSU3
UniRef90_L0KZV9
UniRef90_G2IGV4
UniRef90_D9SKE1
UniRef90_A0A023CWR1
UniRef90_F7XQE3
UniRef90_Q0AYL2
UniRef90_F8AK23
UniRef90_F8AK23
UniRef90_D7E8U4
UniRef90_UPI0003726A1E
UniRef90_A7GNF6
UniRef90_F0SZE8
UniRef90_D5WPH1
UniRef90_I4ACX7
UniRef90_F4BNT4
UniRef90_K2E3S9
UniRef90_N2BQ68
UniRef90_T0UEU8
UniRef90_UPI00047C7E3D
UniRef90_N6VWV7
UniRef90_N6VWV7
UniRef90_UPI00036FC684
UniRef90_N4WQ09
UniRef90_W9DMZ7
UniRef90_UPI00037C90AF
UniRef90_UPI00037C90AF
UniRef90_D7V0E2
UniRef90_UPI00041559F4
UniRef90_Q0W7Z2
UniRef90_B8CW48
UniRef90_UPI00047A63A8
UniRef90_J1F677
UniRef90_K4L2P2
UniRef90_K6DQV2

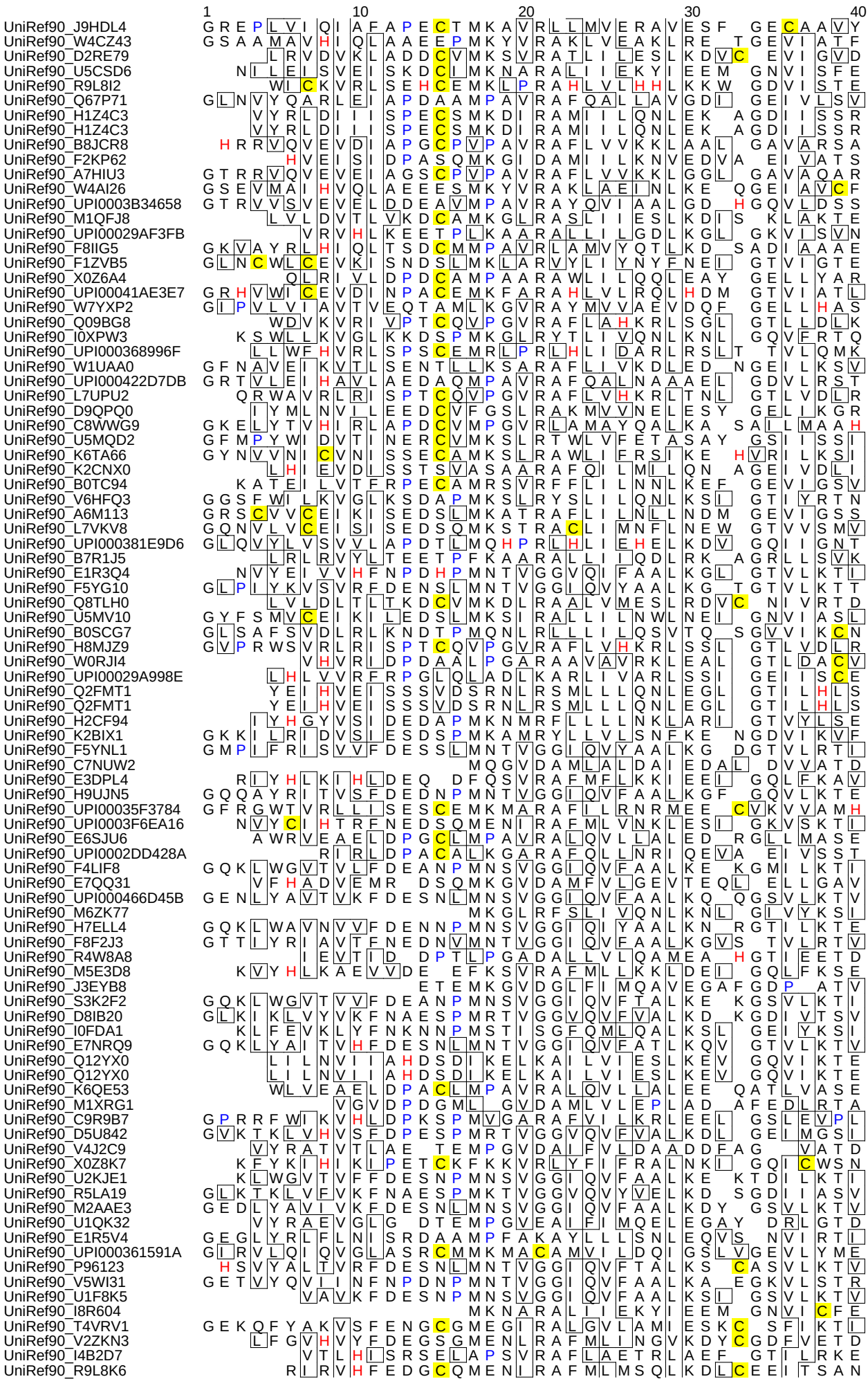

50
60
70
80
UniRef90_V2Z4U4
UniRef90_U4WQB0
UniRef90_UPI00036DE46E
UniRef90_UPI00028939F3
UniRef90_UPI00028939F3
UniRef90_UPI0003B2FED8
UniRef90_I0GND3
UniRef90_B1QXB3
UniRef90_J8TA71
UniRef90_C8W1C6
UniRef90_UPI00041D7C93
UniRef90_UPI0003B46C55
UniRef90_UPI000380CEF7
UniRef90_T0PET7
UniRef90_T0PET7
UniRef90_U6BEA3
UniRef90_UPI0003B72BC9
UniRef90_R4KPX7
UniRef90_UPI00028A0DBD
UniRef90_F6DN24
UniRef90_N9Y3A8
UniRef90_G2SRG8
UniRef90_R9MQW1
UniRef90_V6J8D6
UniRef90_R9BT10
UniRef90_A6TRN2
UniRef90_UPI00029A2808
UniRef90_UPI000288923A
UniRef90_K4LTG6
UniRef90_I3DZD2
UniRef90_C9RAY6
UniRef90_W9AC45
UniRef90_B2TLQ6
UniRef90_D4IVJ8
UniRef90_A0A023CQM3
UniRef90_UPI0004132B9D
UniRef90_UPI00047EAAAE
UniRef90_B5Y7B3
UniRef90_UPI0003B2EDAE
UniRef90_S0EU66
UniRef90_K1ZKG1
UniRef90_S1NSW6
UniRef90_Q9K8N5
UniRef90_I4DA89
UniRef90_S6EJ15
UniRef90_A8MHG2
UniRef90_W0EAA8
UniRef90_UPI000255BE35
UniRef90_UPI00047DB3B6
UniRef90_U1YEM9
UniRef90_G9QMT4
UniRef90_U2PZF4
UniRef90_D8GPV2
UniRef90_N0B5H1
UniRef90_I7J5I2
UniRef90_UPI0003666931
UniRef90_W8ZS81
UniRef90_K4MSU3
UniRef90_L0KZV9
UniRef90_G2IGV4
UniRef90_D9SKE1
UniRef90_A0A023CWR1
UniRef90_F7XQE3
UniRef90_Q0AYL2
UniRef90_F8AK23
UniRef90_F8AK23
UniRef90_D7E8U4
UniRef90_UPI0003726A1E
UniRef90_A7GNF6
UniRef90_F0SZE8
UniRef90_D5WPH1
UniRef90_I4ACX7
UniRef90_F4BNT4
UniRef90_K2E3S9
UniRef90_N2BQ68
UniRef90_T0UEU8
UniRef90_UPI00047C7E3D
UniRef90_N6VWV7
UniRef90_N6VWV7
UniRef90_UPI00036FC684
UniRef90_N4WQ09
UniRef90_W9DMZ7
UniRef90_UPI00037C90AF
UniRef90_UPI00037C90AF
UniRef90_D7V0E2
UniRef90_UPI00041559F4
UniRef90_Q0W7Z2
UniRef90_B8CW48
UniRef90_UPI00047A63A8
UniRef90_J1F677
UniRef90_K4L2P2
UniRef90_K6DQV2

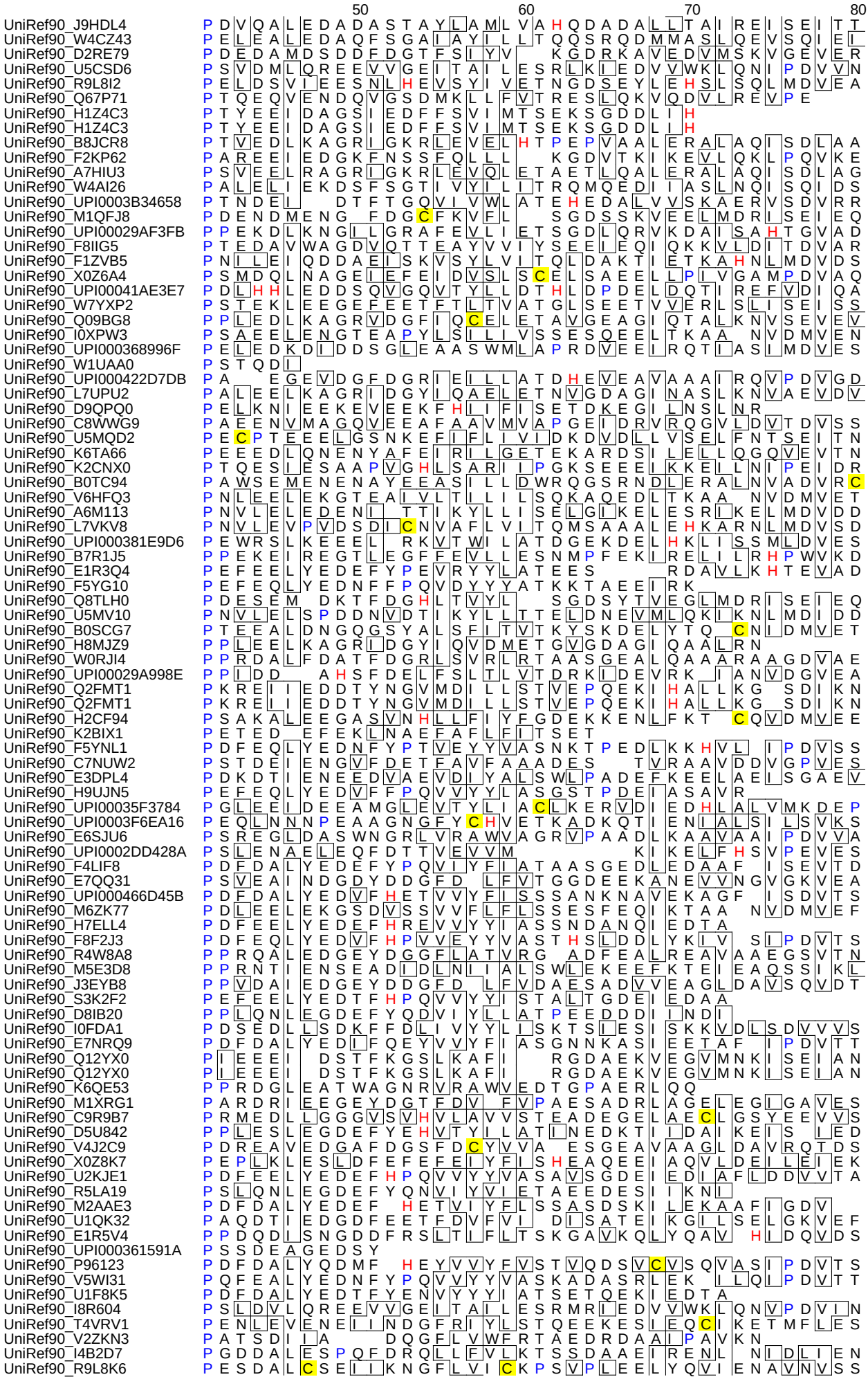

UniRef90_V2Z4U4
UniRef90_U4WQB0
UniRef90_UPI00036DE46E V E T N V I
UniRef90_UPI00028939F3 V E I S N I
UniRef90_UPI00028939F3 V E I S N I
UniRef90_UPI0003B2FED8 A V G G P
UniRef90_I0GND3 I V V E T V
UniRef90_B1QXB3 V E
UniRef90_J8TA71 V D
UniRef90_C8W1C6 V K V K P L
UniRef90_UPI00041D7C93 V K V Q K
UniRef90_UPI0003B46C55 I
UniRef90_UPI000380CEF7 V I V L P I
UniRef90_T0PET7 F Q L V S L
UniRef90_T0PET7 F Q L V S L
UniRef90_U6BEA3 V S I V P
UniRef90_UPI0003B72BC9 A E G G P
UniRef90_R4KPX7 V H I Q K I
UniRef90_UPI00028A0DBD I R L T P
UniRef90_F6DN24 A E I Q P L
UniRef90_N9Y3A8 V E V K N V
UniRef90_G2SRG8 Y I V E E
UniRef90_R9MQW1 V V G A P
UniRef90_V6J8D6 V A V T P I
UniRef90_R9BT10 V E T S Y V
UniRef90_A6TRN2 F S V I D L
UniRef90_UPI00029A2808 V I I E D
UniRef90_UPI000288923A I E I
UniRef90_K4LTG6 G T I E R L
UniRef90_I3DZD2
UniRef90_C9RAY6 V E V T P I
UniRef90_W9AC45 A E I S P
UniRef90_B2TLQ6 V E V S M V
UniRef90_D4IVJ8 V E A E K V
UniRef90_A0A023CQM3
UniRef90_UPI0004132B9D V E T K L I
UniRef90_UPI00047EAAAE F D I
UniRef90_B5Y7B3 V D V I E I
UniRef90_UPI0003B2EDAE V V A E E I
UniRef90_S0EU66 V N I V P
UniRef90_K1ZKG1 V Q I V L I
UniRef90_S1NSW6 I I V K P
UniRef90_Q9K8N5 V D I
UniRef90_I4DA89 V T V F P
UniRef90_S6EJ15 V I T S S I
UniRef90_A8MHG2 I E I N P I
UniRef90_W0EAA8 V S V N
UniRef90_UPI000255BE35 V D V S S I
UniRef90_UPI00047DB3B6 V E V A P L
UniRef90_U1YEM9 V E V R E I
UniRef90_G9QMT4
UniRef90_U2PZF4 V K A N Y V
UniRef90_D8GPV2
UniRef90_N0B5H1
UniRef90_I7J5I2
UniRef90_UPI0003666931 V A V T
UniRef90_W8ZS81
UniRef90_K4MSU3 I D I S
UniRef90_L0KZV9 V E I I P L
UniRef90_G2IGV4 V A I K E I
UniRef90_D9SKE1 V M T K D L
UniRef90_A0A023CWR1 T I V E P
UniRef90_F7XQE3 V T L
UniRef90_Q0AYL2 R E I K E I
UniRef90_F8AK23 I A V A P I
UniRef90_F8AK23 I A V A P I
UniRef90_D7E8U4 V T L S E I
UniRef90_UPI0003726A1E V E I N K L
UniRef90_A7GNF6 V E V K Q
UniRef90_F0SZE8 V K I N
UniRef90_D5WPH1 V V V K P
UniRef90_I4ACX7 V E I H P
UniRef90_F4BNT4 V L I Q T I
UniRef90_K2E3S9 V L V N D
UniRef90_N2BQ68 V I G E Q I
UniRef90_T0UEU8 F V V A P
UniRef90_UPI00047C7E3D V N I N Q I
UniRef90_N6VWV7 I A I S P V
UniRef90_N6VWV7 I A I S P V
UniRef90_UPI00036FC684 I H I E S I
UniRef90_N4WQ09 V I V E P
UniRef90_W9DMZ7 V V P T T I
UniRef90_UPI00037C90AF I I V V P I
UniRef90_UPI00037C90AF I I V V P I
UniRef90_D7V0E2 I E I K E V
UniRef90_UPI00041559F4
UniRef90_Q0W7Z2 A K V T E I
UniRef90_B8CW48 V E I E V I
UniRef90_UPI00047A63A8 V Q V
UniRef90_J1F677 F I V E E
UniRef90_K4L2P2 A Q V T N
UniRef90_K6DQV2 V N L T K I

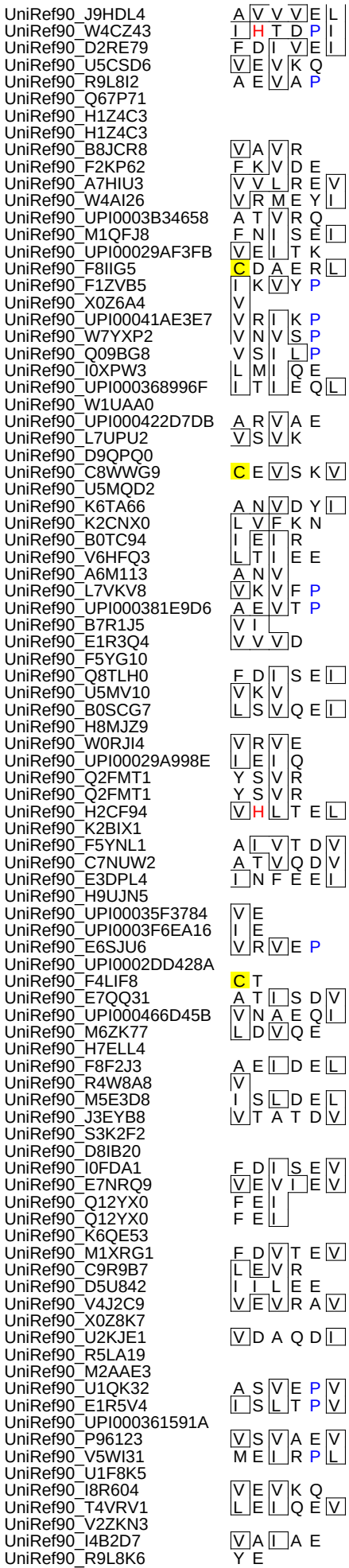

1
10
20
30
40
UniRef90_L0K8U3
UniRef90_G7WHZ9
UniRef90_UPI0002DBD617
UniRef90_A9BHX9
UniRef90_Q5WEU3
UniRef90_UPI0002F88D25
UniRef90_C9REX3
UniRef90_C9REX3
UniRef90_UPI00047B1F8E
UniRef90_UPI000249297F
UniRef90_I3RD29
UniRef90_I3RD29
UniRef90_A6VFL8
UniRef90_A6VFL8
UniRef90_E3ZDX7
UniRef90_Q8RA13
UniRef90_E6SIG1
UniRef90_A4FXW0
UniRef90_A4FXW0
UniRef90_UPI00035FDEFC
UniRef90_UPI0003661706
UniRef90_UPI000471EFA3
UniRef90_UPI00037107B0
UniRef90_A0A011RKM9
UniRef90_F4HN46
UniRef90_F4HN46
UniRef90_H3ZR47
UniRef90_H3ZR47
UniRef90_K6D480
UniRef90_W4Q2P6
UniRef90_H5XYR5
UniRef90_I8J033
UniRef90_D5VS87
UniRef90_D5VS87
UniRef90_UPI0002E17926
UniRef90_G7V5K3
UniRef90_R5I041
UniRef90_F8AGS5
UniRef90_F8AGS5
UniRef90_J0S029
UniRef90_G0H055
UniRef90_G0H055
UniRef90_R9CAZ0
UniRef90_UPI0003768781
UniRef90_W8PL65
UniRef90_W8PL65
UniRef90_W7ZR04
UniRef90_E1RJT0
UniRef90_E1RJT0
UniRef90_Q3ADH0
UniRef90_I3VRM1
UniRef90_A6UNQ8
UniRef90_UPI00046E76A8
UniRef90_Q5JF94
UniRef90_Q5JF94
UniRef90_D3RXM1
UniRef90_L0HCU1
UniRef90_T0D962
UniRef90_UPI0004794858
UniRef90_A7I7Z3
UniRef90_O58222
UniRef90_O58222
UniRef90_Q9UYF4
UniRef90_Q9UYF4
UniRef90_R6WH23
UniRef90_UPI00037A3325
UniRef90_C1A888
UniRef90_O29222
UniRef90_B8GK90
UniRef90_UPI0003718DD8
UniRef90_I7LN52
UniRef90_F6CK23
UniRef90_N1WLJ9
UniRef90_A3CU26
UniRef90_UPI00047DA001
UniRef90_UPI00029AF500
UniRef90_UPI00029AF500
UniRef90_UPI00046FD1F3
UniRef90_D3F412
UniRef90_D5X904
UniRef90_W4CNP4
UniRef90_F5LM82
UniRef90_X1B8T1
UniRef90_A3DHQ7
UniRef90_D7DTZ6
UniRef90_D7DTZ6
UniRef90_UPI000405F496
UniRef90_W4BUR3
UniRef90_B6YX73
UniRef90_B6YX73
UniRef90_A0A037Z447
UniRef90_W4EE07

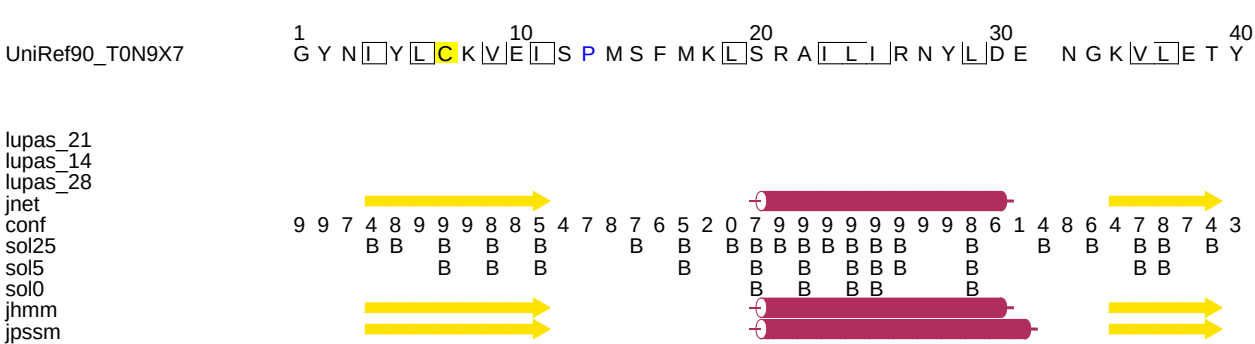

50
60
70
80
UniRef90_L0K8U3
UniRef90_G7WHZ9
UniRef90_UPI0002DBD617
UniRef90_A9BHX9
UniRef90_Q5WEU3
UniRef90_UPI0002F88D25
UniRef90_C9REX3
UniRef90_C9REX3
UniRef90_UPI00047B1F8E
UniRef90_UPI000249297F
UniRef90_I3RD29
UniRef90_I3RD29
UniRef90_A6VFL8
UniRef90_A6VFL8
UniRef90_E3ZDX7
UniRef90_Q8RA13
UniRef90_E6SIG1
UniRef90_A4FXW0
UniRef90_A4FXW0
UniRef90_UPI00035FDEFC
UniRef90_UPI0003661706
UniRef90_UPI000471EFA3
UniRef90_UPI00037107B0
UniRef90_A0A011RKM9
UniRef90_F4HN46
UniRef90_F4HN46
UniRef90_H3ZR47
UniRef90_H3ZR47
UniRef90_K6D480
UniRef90_W4Q2P6
UniRef90_H5XYR5
UniRef90_I8J033
UniRef90_D5VS87
UniRef90_D5VS87
UniRef90_UPI0002E17926
UniRef90_G7V5K3
UniRef90_R5I041
UniRef90_F8AGS5
UniRef90_F8AGS5
UniRef90_J0S029
UniRef90_G0H055
UniRef90_G0H055
UniRef90_R9CAZ0
UniRef90_UPI0003768781
UniRef90_W8PL65
UniRef90_W8PL65
UniRef90_W7ZR04
UniRef90_E1RJT0
UniRef90_E1RJT0
UniRef90_Q3ADH0
UniRef90_I3VRM1
UniRef90_A6UNQ8
UniRef90_UPI00046E76A8
UniRef90_Q5JF94
UniRef90_Q5JF94
UniRef90_D3RXM1
UniRef90_L0HCU1
UniRef90_T0D962
UniRef90_UPI0004794858
UniRef90_A7I7Z3
UniRef90_O58222
UniRef90_O58222
UniRef90_Q9UYF4
UniRef90_Q9UYF4
UniRef90_R6WH23
UniRef90_UPI00037A3325
UniRef90_C1A888
UniRef90_O29222
UniRef90_B8GK90
UniRef90_UPI0003718DD8
UniRef90_I7LN52
UniRef90_F6CK23
UniRef90_N1WLJ9
UniRef90_A3CU26
UniRef90_UPI00047DA001
UniRef90_UPI00029AF500
UniRef90_UPI00029AF500
UniRef90_UPI00046FD1F3
UniRef90_D3F412
UniRef90_D5X904
UniRef90_W4CNP4
UniRef90_F5LM82
UniRef90_X1B8T1
UniRef90_A3DHQ7
UniRef90_D7DTZ6
UniRef90_D7DTZ6
UniRef90_UPI000405F496
UniRef90_W4BUR3
UniRef90_B6YX73
UniRef90_B6YX73
UniRef90_A0A037Z447
UniRef90_W4EE07

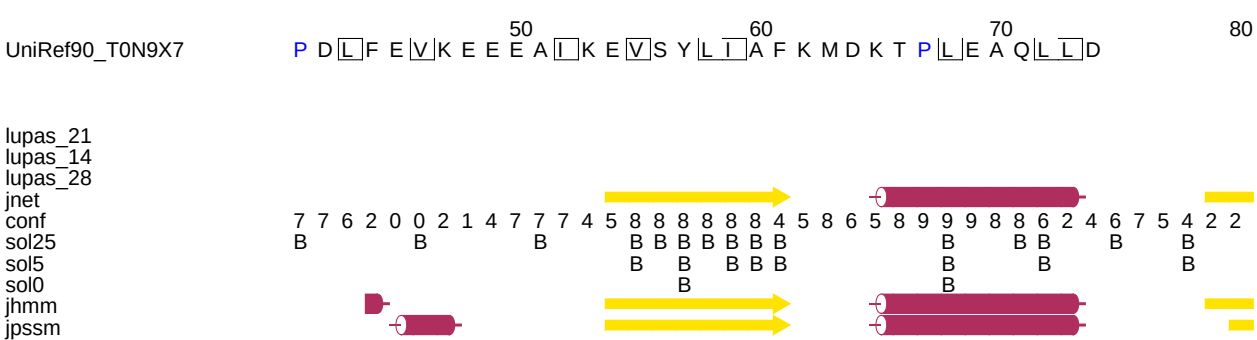

UniRef90_L0K8U3 V E I N Q V
UniRef90_G7WHZ9 V Q V R
UniRef90_UPI0002DBD617 V E L
UniRef90_A9BHX9 V Y V D E
UniRef90_Q5WEU3 V T V T
UniRef90_UPI0002F88D25 V Q L T N I
UniRef90_C9REX3 V A V
UniRef90_C9REX3 V A V
UniRef90_UPI00047B1F8E V R V G E
UniRef90_UPI000249297F V
UniRef90_I3RD29 F T I S S V
UniRef90_I3RD29 F T I S S V
UniRef90_A6VFL8
UniRef90_A6VFL8
UniRef90_E3ZDX7 V T I K E
UniRef90_Q8RA13
UniRef90_E6SIG1 V T I Q Q
UniRef90_A4FXW0 A Q V N
UniRef90_A4FXW0 A Q V N
UniRef90_UPI00035FDEFC I E I K V V
UniRef90_UPI0003661706
UniRef90_UPI000471EFA3 Y H I T P I
UniRef90_UPI00037107B0 V A V N
UniRef90_A0A011RKM9 L K I R Q
UniRef90_F4HN46 F E V I P
UniRef90_F4HN46 F E V I P
UniRef90_H3ZR47 V E I
UniRef90_H3ZR47 V E I
UniRef90_K6D480 I H L T
UniRef90_W4Q2P6 I E L K
UniRef90_H5XYR5 V V A H P
UniRef90_I8J033 M V V H P
UniRef90_D5VS87
UniRef90_D5VS87
UniRef90_UPI0002E17926 V A L T L I
UniRef90_G7V5K3 C S I E G V
UniRef90_R5I041 V D A E E I
UniRef90_F8AGS5
UniRef90_F8AGS5
UniRef90_J0S029 V A V R P
UniRef90_G0H055 V V S K E V
UniRef90_G0H055 V V S K E V
UniRef90_R9CAZ0
UniRef90_UPI0003768781 V E V T E I
UniRef90_W8PL65 A D V R E I
UniRef90_W8PL65 A D V R E I
UniRef90_W7ZR04 V D V K D
UniRef90_E1RJT0 V R I E P
UniRef90_E1RJT0 V R I E P
UniRef90_Q3ADH0
UniRef90_I3VRM1 F N
UniRef90_A6UNQ8 T S V E T L
UniRef90_UPI00046E76A8 L H I A P
UniRef90_Q5JF94 V E V V E
UniRef90_Q5JF94 V E V V E
UniRef90_D3RXM1 Y N I Q K I
UniRef90_L0HCU1 V E I T Q V
UniRef90_T0D962 V D I V Q L
UniRef90_UPI0004794858 V Q V R
UniRef90_A7I7Z3 V E I K E
UniRef90_O58222
UniRef90_O58222
UniRef90_Q9UYF4
UniRef90_Q9UYF4
UniRef90_R6WH23 A V V G E
UniRef90_UPI00037A3325 V D V T
UniRef90_C1A888 V Q V R
UniRef90_O29222 F E V S P V
UniRef90_B8GK90 V Q V V E
UniRef90_UPI0003718DD8 A E V L P
UniRef90_I7LN52
UniRef90_F6CK23 V E L S
UniRef90_N1WLJ9 L D V D E
UniRef90_A3CU26
UniRef90_UPI00047DA001 V H L R P
UniRef90_UPI00029AF500 V A V G E
UniRef90_UPI00029AF500 V A V G E
UniRef90_UPI00046FD1F3 V K V T P V
UniRef90_D3F412 V A V Q E
UniRef90_D5X904 P S V R K L
UniRef90_W4CNP4 I V I T P
UniRef90_F5LM82 A V V E P L
UniRef90_X1B8T1 K T I K
UniRef90_A3DHQ7 V R V F P
UniRef90_D7DTZ6
UniRef90_D7DTZ6
UniRef90_UPI000405F496 A E L
UniRef90_W4BUR3 L E I D P
UniRef90_B6YX73 V K V E E
UniRef90_B6YX73 V K V E E
UniRef90_A0A037Z447 V Y I K K V
UniRef90_W4EE07 I Y I E E V


1
10
20
30
40
UniRef90_J9HDL4
UniRef90_W4CZ43
UniRef90_D2RE79
UniRef90_U5CSD6
UniRef90_R9L8I2
UniRef90_Q67P71
UniRef90_H1Z4C3
UniRef90_H1Z4C3
UniRef90_B8JCR8
UniRef90_F2KP62
UniRef90_A7HIU3
UniRef90_W4AI26
UniRef90_UPI0003B34658
UniRef90_M1QFJ8
UniRef90_UPI00029AF3FB
UniRef90_F8IIG5
UniRef90_F1ZVB5
UniRef90_X0Z6A4
UniRef90_UPI00041AE3E7
UniRef90_W7YXP2
UniRef90_Q09BG8
UniRef90_I0XPW3
UniRef90_UPI000368996F
UniRef90_W1UAA0
UniRef90_UPI000422D7DB
UniRef90_L7UPU2
UniRef90_D9QPQ0
UniRef90_C8WWG9
UniRef90_U5MQD2
UniRef90_K6TA66
UniRef90_K2CNX0
UniRef90_B0TC94
UniRef90_V6HFQ3
UniRef90_A6M113
UniRef90_L7VKV8
UniRef90_UPI000381E9D6
UniRef90_B7R1J5
UniRef90_E1R3Q4
UniRef90_F5YG10
UniRef90_Q8TLH0
UniRef90_U5MV10
UniRef90_B0SCG7
UniRef90_H8MJZ9
UniRef90_W0RJI4
UniRef90_UPI00029A998E
UniRef90_Q2FMT1
UniRef90_Q2FMT1
UniRef90_H2CF94
UniRef90_K2BIX1
UniRef90_F5YNL1
UniRef90_C7NUW2
UniRef90_E3DPL4
UniRef90_H9UJN5
UniRef90_UPI00035F3784
UniRef90_UPI0003F6EA16
UniRef90_E6SJU6
UniRef90_UPI0002DD428A
UniRef90_F4LIF8
UniRef90_E7QQ31
UniRef90_UPI000466D45B
UniRef90_M6ZK77
UniRef90_H7ELL4
UniRef90_F8F2J3
UniRef90_R4W8A8
UniRef90_M5E3D8
UniRef90_J3EYB8
UniRef90_S3K2F2
UniRef90_D8IB20
UniRef90_I0FDA1
UniRef90_E7NRQ9
UniRef90_Q12YX0
UniRef90_Q12YX0
UniRef90_K6QE53
UniRef90_M1XRG1
UniRef90_C9R9B7
UniRef90_D5U842
UniRef90_V4J2C9
UniRef90_X0Z8K7
UniRef90_U2KJE1
UniRef90_R5LA19
UniRef90_M2AAE3
UniRef90_U1QK32
UniRef90_E1R5V4
UniRef90_UPI000361591A
UniRef90_P96123
UniRef90_V5WI31
UniRef90_U1F8K5
UniRef90_I8R604
UniRef90_T4VRV1
UniRef90_V2ZKN3
UniRef90_I4B2D7
UniRef90_R9L8K6


50
60
70
80
UniRef90_J9HDL4
UniRef90_W4CZ43
UniRef90_D2RE79
UniRef90_U5CSD6
UniRef90_R9L8I2
UniRef90_Q67P71
UniRef90_H1Z4C3
UniRef90_H1Z4C3
UniRef90_B8JCR8
UniRef90_F2KP62
UniRef90_A7HIU3
UniRef90_W4AI26
UniRef90_UPI0003B34658
UniRef90_M1QFJ8
UniRef90_UPI00029AF3FB
UniRef90_F8IIG5
UniRef90_F1ZVB5
UniRef90_X0Z6A4
UniRef90_UPI00041AE3E7
UniRef90_W7YXP2
UniRef90_Q09BG8
UniRef90_I0XPW3
UniRef90_UPI000368996F
UniRef90_W1UAA0
UniRef90_UPI000422D7DB
UniRef90_L7UPU2
UniRef90_D9QPQ0
UniRef90_C8WWG9
UniRef90_U5MQD2
UniRef90_K6TA66
UniRef90_K2CNX0
UniRef90_B0TC94
UniRef90_V6HFQ3
UniRef90_A6M113
UniRef90_L7VKV8
UniRef90_UPI000381E9D6
UniRef90_B7R1J5
UniRef90_E1R3Q4
UniRef90_F5YG10
UniRef90_Q8TLH0
UniRef90_U5MV10
UniRef90_B0SCG7
UniRef90_H8MJZ9
UniRef90_W0RJI4
UniRef90_UPI00029A998E
UniRef90_Q2FMT1
UniRef90_Q2FMT1
UniRef90_H2CF94
UniRef90_K2BIX1
UniRef90_F5YNL1
UniRef90_C7NUW2
UniRef90_E3DPL4
UniRef90_H9UJN5
UniRef90_UPI00035F3784
UniRef90_UPI0003F6EA16
UniRef90_E6SJU6
UniRef90_UPI0002DD428A
UniRef90_F4LIF8
UniRef90_E7QQ31
UniRef90_UPI000466D45B
UniRef90_M6ZK77
UniRef90_H7ELL4
UniRef90_F8F2J3
UniRef90_R4W8A8
UniRef90_M5E3D8
UniRef90_J3EYB8
UniRef90_S3K2F2
UniRef90_D8IB20
UniRef90_I0FDA1
UniRef90_E7NRQ9
UniRef90_Q12YX0
UniRef90_Q12YX0
UniRef90_K6QE53
UniRef90_M1XRG1
UniRef90_C9R9B7
UniRef90_D5U842
UniRef90_V4J2C9
UniRef90_X0Z8K7
UniRef90_U2KJE1
UniRef90_R5LA19
UniRef90_M2AAE3
UniRef90_U1QK32
UniRef90_E1R5V4
UniRef90_UPI000361591A
UniRef90_P96123
UniRef90_V5WI31
UniRef90_U1F8K5
UniRef90_I8R604
UniRef90_T4VRV1
UniRef90_V2ZKN3
UniRef90_I4B2D7
UniRef90_R9L8K6


UniRef90_J9HDL4 A V V V E L
UniRef90_W4CZ43 I H T D P I
UniRef90_D2RE79 F D I V E I
UniRef90_U5CSD6 V E V K Q
UniRef90_R9L8I2 A E V A P
UniRef90_Q67P71
UniRef90_H1Z4C3
UniRef90_H1Z4C3
UniRef90_B8JCR8 V A V R
UniRef90_F2KP62 F K V D E
UniRef90_A7HIU3 V V L R E V
UniRef90_W4AI26 V R M E Y I
UniRef90_UPI0003B34658 A T V R Q
UniRef90_M1QFJ8 F N I S E I
UniRef90_UPI00029AF3FB V E I T K
UniRef90_F8IIG5 C D A E R L
UniRef90_F1ZVB5 I K V Y P
UniRef90_X0Z6A4 V
UniRef90_UPI00041AE3E7 V R I K P
UniRef90_W7YXP2 V N V S P
UniRef90_Q09BG8 V S I L P
UniRef90_I0XPW3 L M I Q E
UniRef90_UPI000368996F I T I E Q L
UniRef90_W1UAA0
UniRef90_UPI000422D7DB A R V A E
UniRef90_L7UPU2 V S V K
UniRef90_D9QPQ0
UniRef90_C8WWG9 C E V S K V
UniRef90_U5MQD2
UniRef90_K6TA66 A N V D Y I
UniRef90_K2CNX0 L V F K N
UniRef90_B0TC94 I E I R
UniRef90_V6HFQ3 L T I E E
UniRef90_A6M113 A N V
UniRef90_L7VKV8 V K V F P
UniRef90_UPI000381E9D6 A E V T P
UniRef90_B7R1J5 V I
UniRef90_E1R3Q4 V V V D
UniRef90_F5YG10
UniRef90_Q8TLH0 F D I S E I
UniRef90_U5MV10 V K V
UniRef90_B0SCG7 L S V Q E I
UniRef90_H8MJZ9
UniRef90_W0RJI4 V R V E
UniRef90_UPI00029A998E I E I Q
UniRef90_Q2FMT1 Y S V R
UniRef90_Q2FMT1 Y S V R
UniRef90_H2CF94 V H L T E L
UniRef90_K2BIX1
UniRef90_F5YNL1 A I V T D V
UniRef90_C7NUW2 A T V Q D V
UniRef90_E3DPL4 I N F E E I
UniRef90_H9UJN5
UniRef90_UPI00035F3784 V E
UniRef90_UPI0003F6EA16 I E
UniRef90_E6SJU6 V R V E P
UniRef90_UPI0002DD428A
UniRef90_F4LIF8 C T
UniRef90_E7QQ31 A T I S D V
UniRef90_UPI000466D45B V N A E Q I
UniRef90_M6ZK77 L D V Q E
UniRef90_H7ELL4
UniRef90_F8F2J3 A E I D E L
UniRef90_R4W8A8 V
UniRef90_M5E3D8 I S L D E L
UniRef90_J3EYB8 V T A T D V
UniRef90_S3K2F2
UniRef90_D8IB20
UniRef90_I0FDA1 F D I S E V
UniRef90_E7NRQ9 V E V I E V
UniRef90_Q12YX0 F E I
UniRef90_Q12YX0 F E I
UniRef90_K6QE53
UniRef90_M1XRG1 F D V T E V
UniRef90_C9R9B7 L E V R
UniRef90_D5U842 I I L E E
UniRef90_V4J2C9 V E V R A V
UniRef90_X0Z8K7
UniRef90_U2KJE1 V D A Q D I
UniRef90_R5LA19
UniRef90_M2AAE3
UniRef90_U1QK32 A S V E P V
UniRef90_E1R5V4 I S L T P V
UniRef90_UPI000361591A
UniRef90_P96123 V S V A E V
UniRef90_V5WI31 M E I R P L
UniRef90_U1F8K5
UniRef90_I8R604 V E V K Q
UniRef90_T4VRV1 L E I Q E V
UniRef90_V2ZKN3
UniRef90_I4B2D7 V A I A E
UniRef90_R9L8K6 Y E


1 10 20 30 40
UniRef90_T0N9X7 G Y N I Y L C K V E I S P M S F M K L S R A I L I R N Y L D E N G K V L E T Y
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 7 4 8 9 9 8 5 4 7 8 7 6 5 2 0 7 9 9 9 9 9 9 9 8 6 1 4 8 6 4 7 8 7 4 3
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 B B B B
sol5 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 B B
sol0 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 B B
jhmm
jpssm


50
60
70
80
UniRef90_T0N9X7
P D L F E V K E E E A I K E V S Y L I A F K M D K T P L E A Q L L D
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

UniRef90_T0N9X7

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

5 7 6 1 7 9
B B