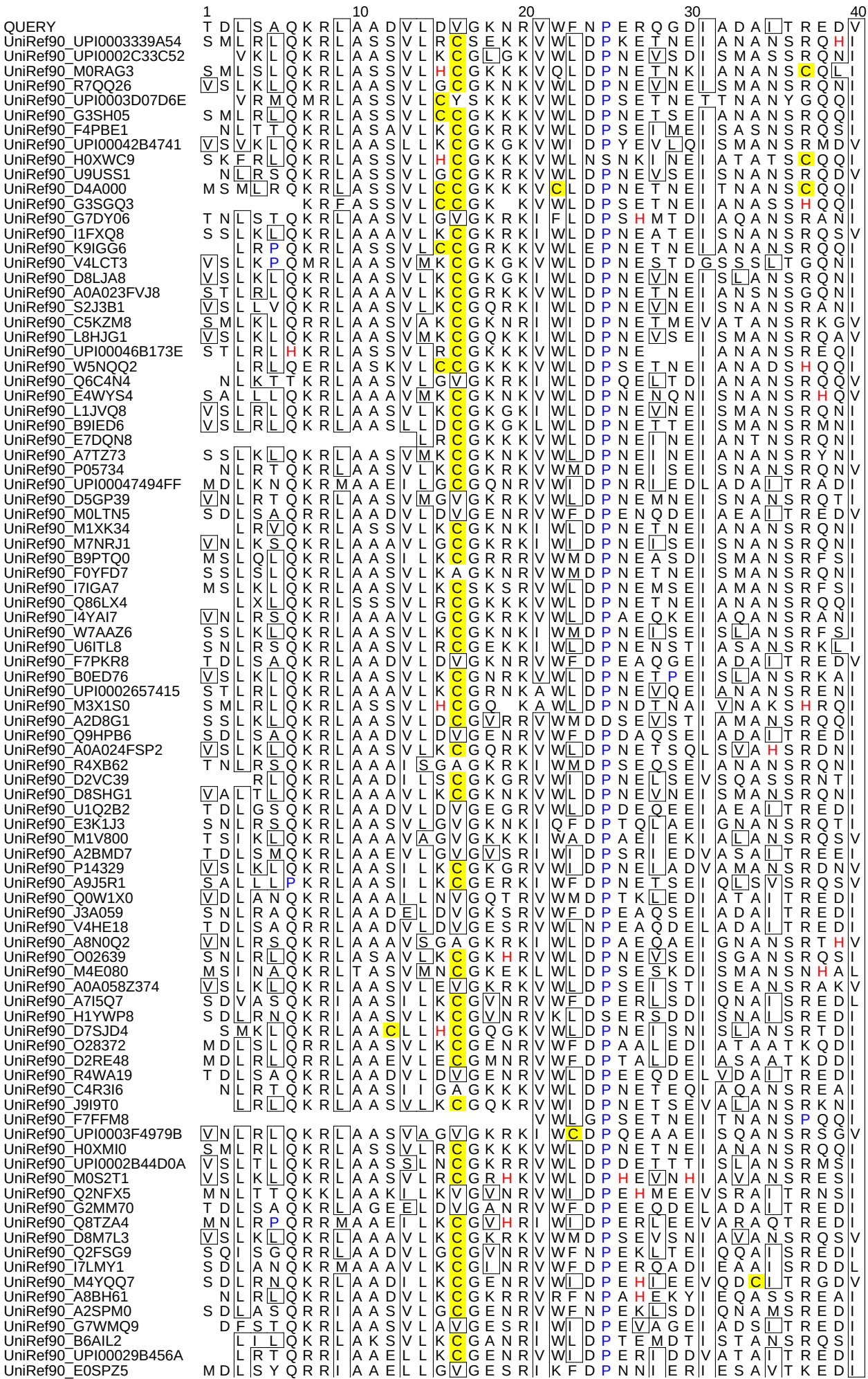
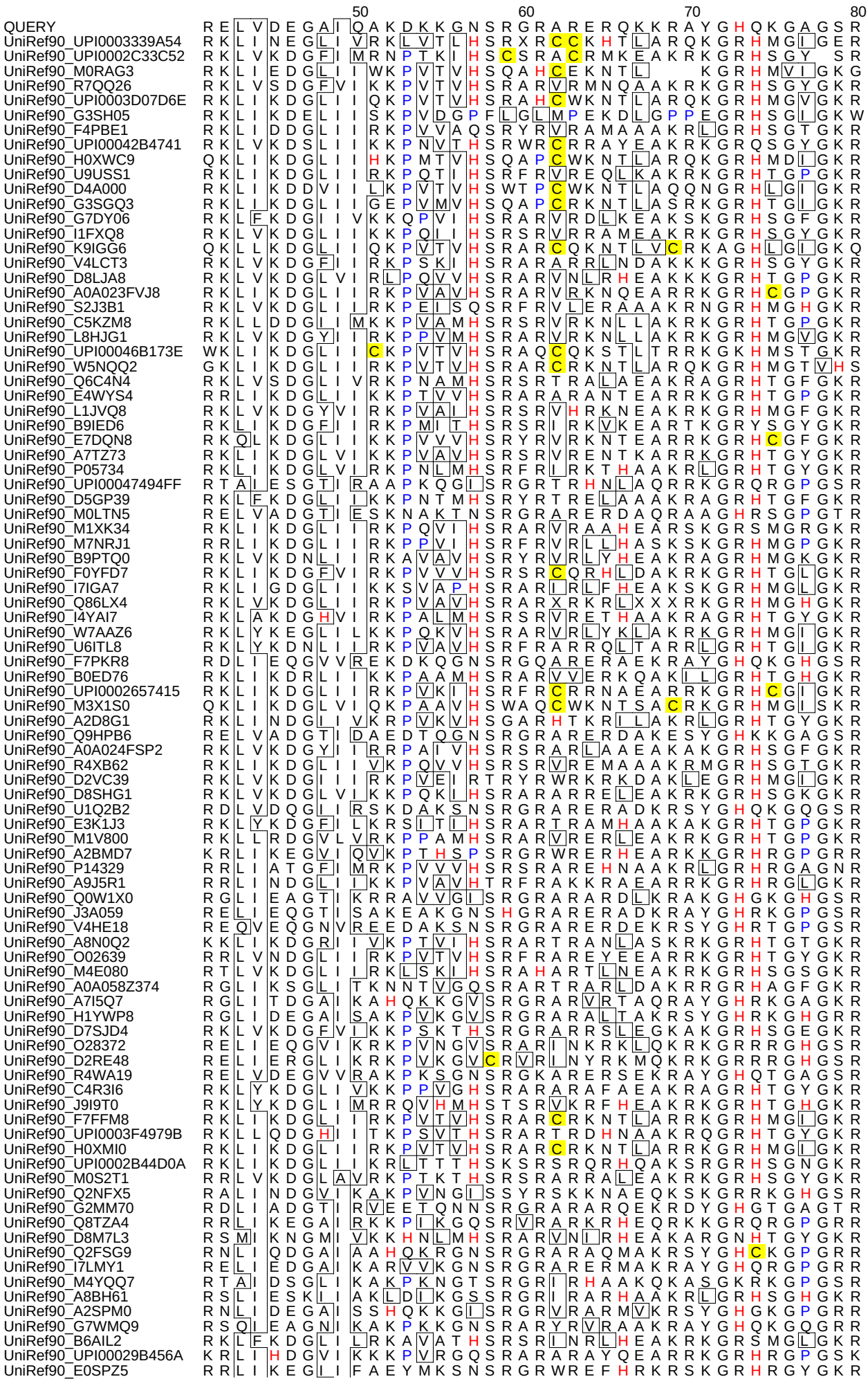
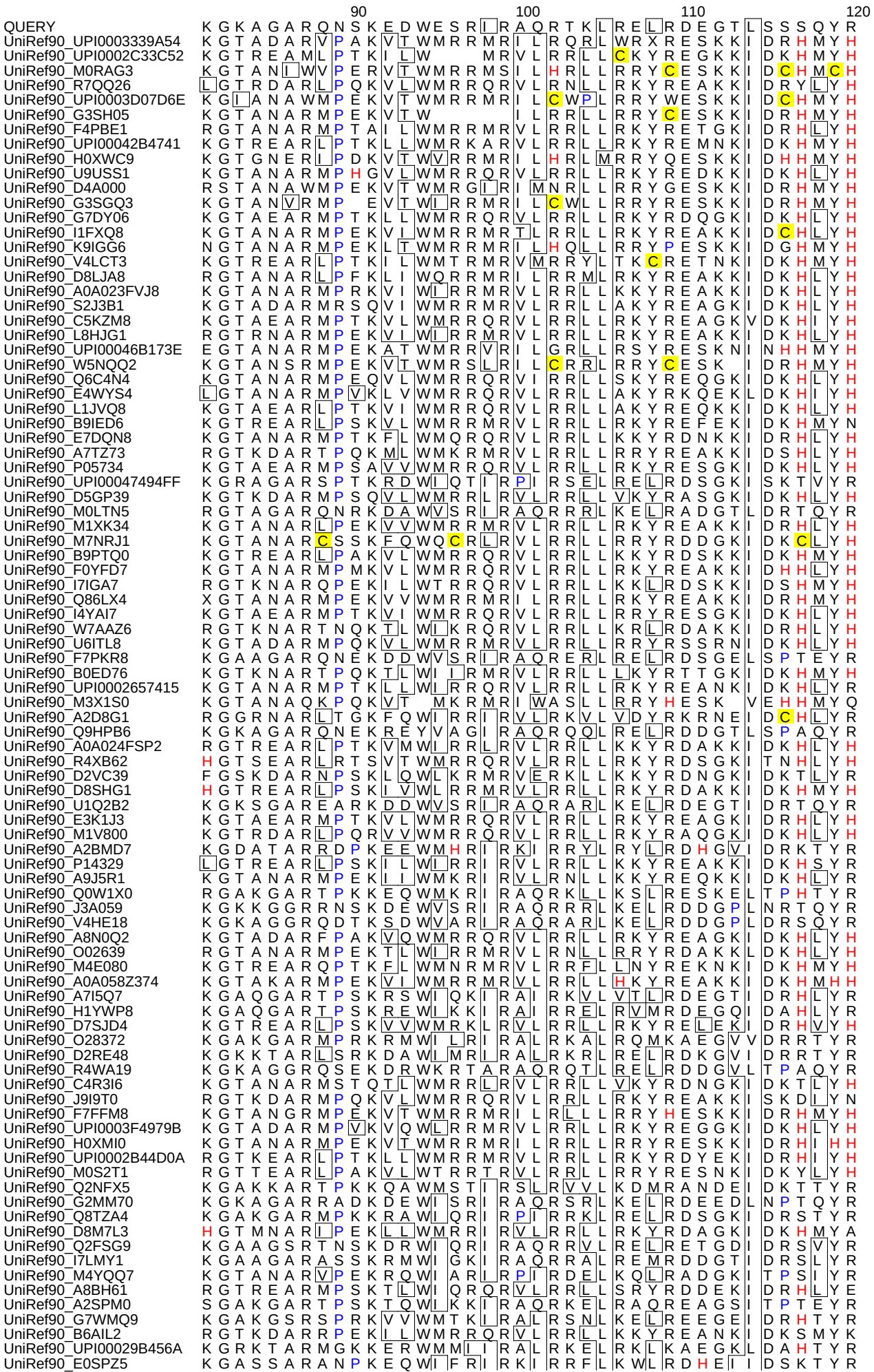
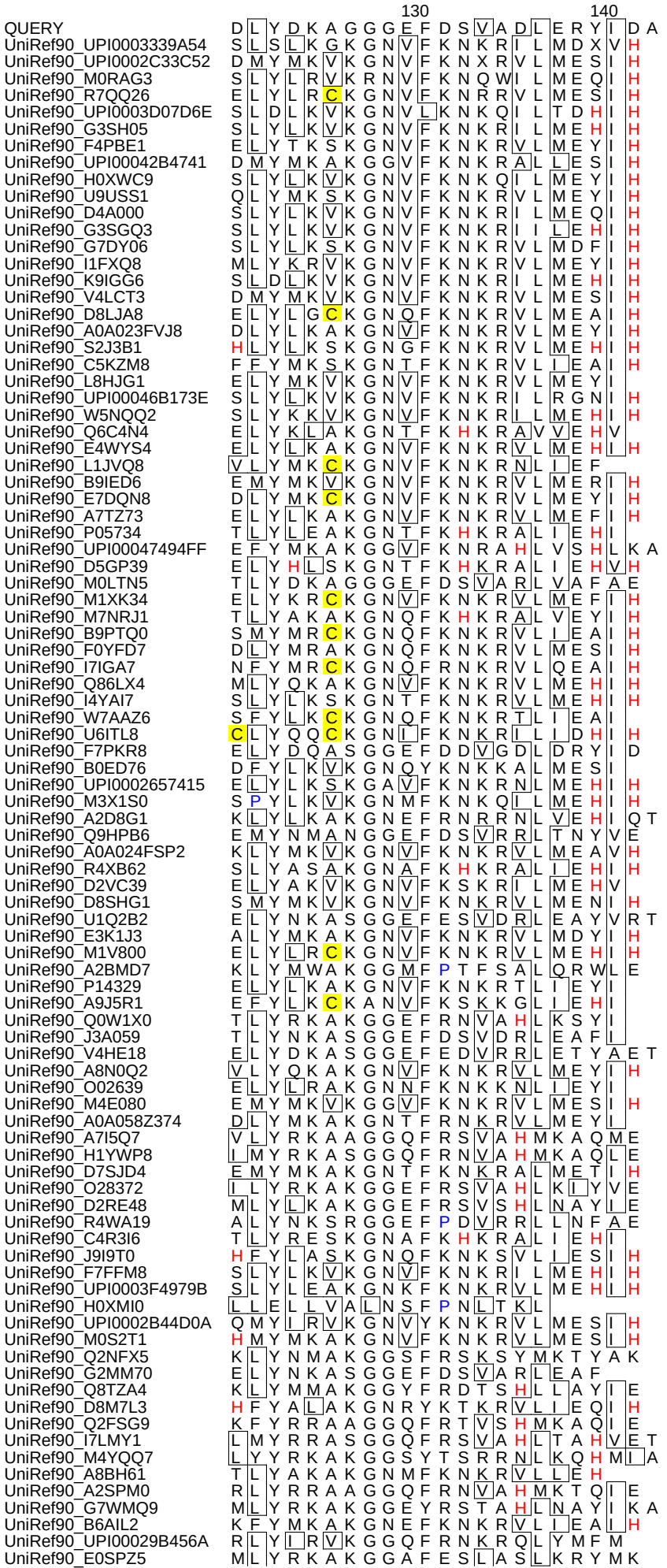
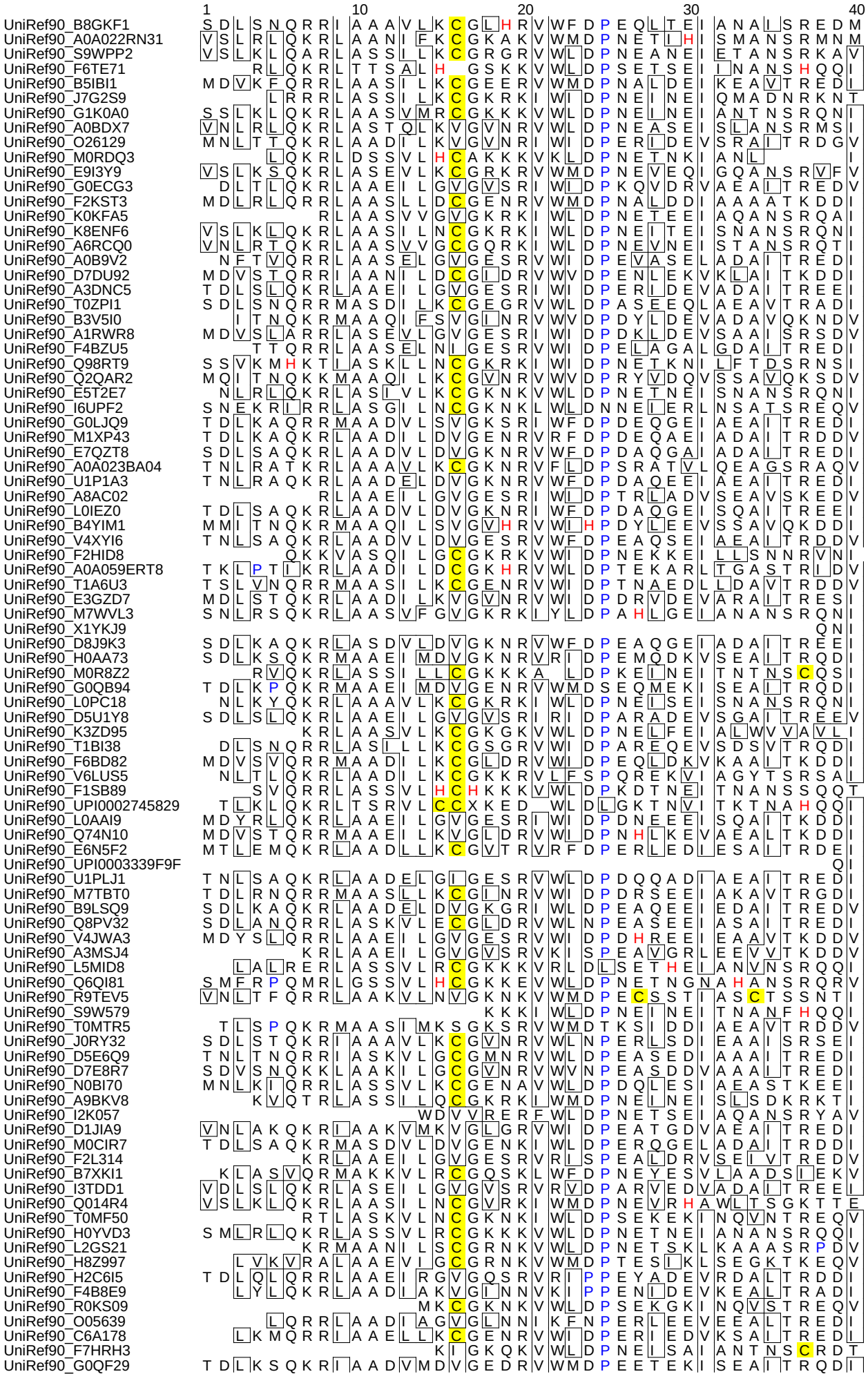
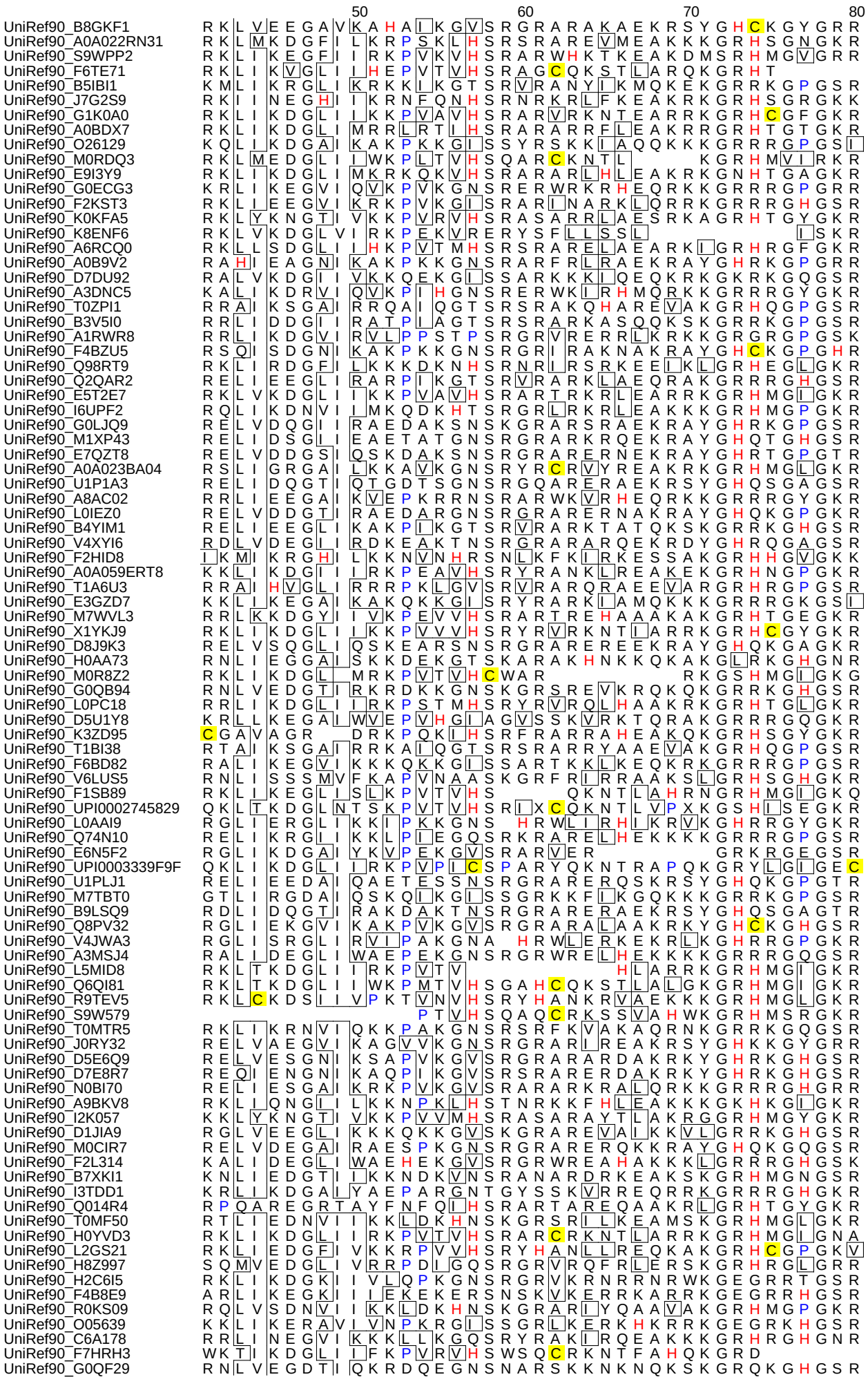

1
10
20
30
40
QUERY
UniRef90_UPI0003339A54
UniRef90_UPI0002C33C52
UniRef90_M0RAG3
UniRef90_R7QQ26
UniRef90_UPI0003D07D6E
UniRef90_G3SH05
UniRef90_F4PBE1
UniRef90_UPI00042B4741
UniRef90_H0XWC9
UniRef90_U9USS1
UniRef90_D4A000
UniRef90_G3SGQ3
UniRef90_G7DY06
UniRef90_I1FXQ8
UniRef90_K9IGG6
UniRef90_V4LCT3
UniRef90_D8LJA8
UniRef90_A0A023FVJ8
UniRef90_S2J3B1
UniRef90_C5KZM8
UniRef90_L8HJG1
UniRef90_UPI00046B173E
UniRef90_W5NQQ2
UniRef90_Q6C4N4
UniRef90_E4WYS4
UniRef90_L1JVQ8
UniRef90_B9IED6
UniRef90_E7DQN8
UniRef90_A7TZ73
UniRef90_P05734
UniRef90_UPI00047494FF
UniRef90_D5GP39
UniRef90_M0LTN5
UniRef90_M1XK34
UniRef90_M7NRJ1
UniRef90_B9PTQ0
UniRef90_F0YFD7
UniRef90_I7IGA7
UniRef90_Q86LX4
UniRef90_I4YAI7
UniRef90_W7AAZ6
UniRef90_U6ITL8
UniRef90_F7PKR8
UniRef90_B0ED76
UniRef90_UPI0002657415
UniRef90_M3X1S0
UniRef90_A2D8G1
UniRef90_Q9HPB6
UniRef90_A0A024FSP2
UniRef90_R4XB62
UniRef90_D2VC39
UniRef90_D8SHG1
UniRef90_U1Q2B2
UniRef90_E3K1J3
UniRef90_M1V800
UniRef90_A2BMD7
UniRef90_P14329
UniRef90_A9J5R1
UniRef90_Q0W1X0
UniRef90_J3A059
UniRef90_V4HE18
UniRef90_A8N0Q2
UniRef90_O02639
UniRef90_M4E080
UniRef90_A0A058Z374
UniRef90_A7I5Q7
UniRef90_H1YWP8
UniRef90_D7SJD4
UniRef90_O28372
UniRef90_D2RE48
UniRef90_R4WA19
UniRef90_C4R3I6
UniRef90_J9I9T0
UniRef90_F7FFM8
UniRef90_UPI0003F4979B
UniRef90_H0XMI0
UniRef90_UPI0002B44D0A
UniRef90_M0S2T1
UniRef90_Q2NFX5
UniRef90_G2MM70
UniRef90_Q8TZA4
UniRef90_D8M7L3
UniRef90_Q2FSG9
UniRef90_I7LMY1
UniRef90_M4YQQ7
UniRef90_A8BH61
UniRef90_A2SPM0
UniRef90_G7WMQ9
UniRef90_B6AIL2
UniRef90_UPI00029B456A
UniRef90_E0SPZ5

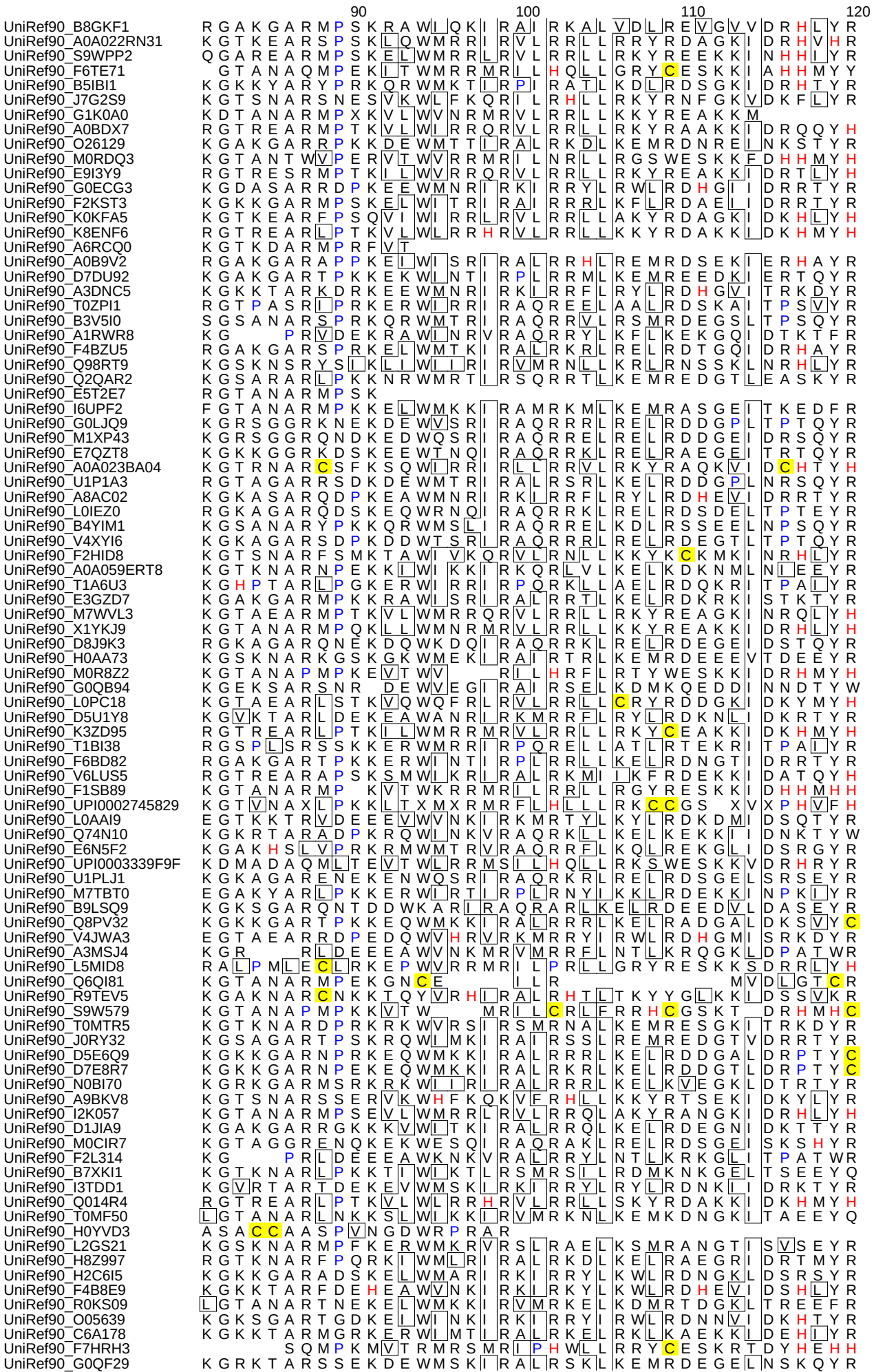

50
60
70
80
QUERY R E L V D E G A I Q A K D K K G N S R G R A R E R Q K K R A Y G H Q K G A G S R
UniRef90_UPI0003339A54 R K L I N E G L I V R K L V T L H S R X R C C K H T L A R Q K G R H M G I G E R
UniRef90_UPI0002C33C52 R K L V K D G F I M R N P T K I H S C S R A C R M K E A K R K G R H S G Y S R
UniRef90_M0RAG3 R K L I E D G L I I W K P V T V H S Q A H C E K N T L K G R H M V I G K G
UniRef90_R7QQ26 R K L V S D G F V I K K P V T V H S R A R V R M N Q A A K R K G R H S G Y G K R
UniRef90_UPI0003D07D6E R K L I K D G L I I Q K P V T V H S R A H C W K N T L A R Q K G R H M G V G K R
UniRef90_G3SH05 R K L I K D E L I I S K P V D G P F L G L M P E K D L G P P E G R H S G I G K W
UniRef90_F4PBE1 R K L I D D G L I I R K P V V A Q S R Y R V R A M A A A K R L G R H S G T G K R
UniRef90_UPI00042B4741 R K L V K D S L I I K K P N V T H S R W R C R R A Y E A K R K G R Q S G Y G K R
UniRef90_H0XWC9 Q K L I K D G L I I H K P M T V H S Q A P C W K N T L A R Q K G R H M D I G K R
UniRef90_U9USS1 R K L I K D G L I I R K P Q T I H S R F R V R E Q L K A K R K G R H T G P G K R
UniRef90_D4A000 R K L I K D D V I I L K P V T V H S W T P C W K N T L A Q Q N G R H L G I G K R
UniRef90_G3SGQ3 R K L I K D G L I I G E P V M V H S Q A P C R K N T L A S R K G R H T G I G K R
UniRef90_G7DY06 R K L F K D G I I V K K Q P V I H S R A R V R D L K E A K S K G R H S G F G K R
UniRef90_I1FXQ8 R K L V K D G L I I K K P Q I I H S R S R V R R A M E A K R K G R H S G Y G K R
UniRef90_K9IGG6 Q K L L K D G L I I Q K P V T V H S R A R C Q K N T L V C R K A G H L G I G K Q
UniRef90_V4LCT3 R K L V K D G F I I R K P S K I H S R A R A R R L N D A K K K G R H S G Y G K R
UniRef90_D8LJA8 R K L V K D G L V I R L P Q V V H S R A R V N L R H E A K K K G R H T G P G K R
UniRef90_A0A023FVJ8 R K L I K D G L I I R K P V A V H S R A R V R K N Q E A R R K G R H C G P G K R
UniRef90_S2J3B1 R K L V K D G L I I R K P E I S Q S R F R V L E R A A A K R N G R H M G H G K R
UniRef90_C5KZM8 R K L L D D G I I M K K P V A M H S R S R V R K N L L A K R K G R H T G P G K R
UniRef90_L8HJG1 R K L V K D G Y I I R K P P V M H S R A R V R K N L L A K R K G R H M G V G K R
UniRef90_UPI00046B173E W K L I K D G L I I C K P V T V H S R A Q C Q K S T L T R R K G K H M S T G K R
UniRef90_W5NQQ2 G K L I K D G L I I R K P V T V H S R A R C R K N T L A R Q K G R H M G T V H S
UniRef90_Q6C4N4 R K L V S D G L I V R K P N A M H S R S R T R A L A E A K R A G R H T G F G K R
UniRef90_E4WYS4 R R L I K D G L I I K K P T V V H S R A R A R A N T E A R R K G R H T G P G K R
UniRef90_L1JVQ8 R K L V K D G Y V I R K P V A L H S R S R V H R K N E A K R K G R H M G F G K R
UniRef90_B9IED6 R K L I K D G F I I R K P M I T H S R S R I R K V K E A R T K G R Y S G Y G K R
UniRef90_E7DQN8 R K Q L K D G L I I K K P V V V H S R Y R V R K N T E A R R K G R H C G F G K R
UniRef90_A7TZ73 R K L I K D G L V I K K P V A V H S R S R V R E N T K A R R K G R H T G Y G K R
UniRef90_P05734 R K L I K D G L V I R K P N L M H S R F R I R K T H A A K R L G R H T G Y G K R
UniRef90_UPI00047494FF R T A I E S G T I R A A P K Q G I S R G R T R H N L A Q R R K G R Q R G P G S R
UniRef90_D5GP39 R K L F K D G L I I K K P N T M H S R Y R T R E L A A A K R A G R H T G F G K R
UniRef90_M0LTN5 R E L V A D G T I E S K N A K T N S R G R A R E R D A Q R A A G H R S G P G T R
UniRef90_M1XK34 R K L I K D G L I I R K P Q V I H S R A R V R A A H E A R S K G R S M G R G K R
UniRef90_M7NRJ1 R R L I K D G L I I R K P P V I H S R F R V R L L H A S K S K G R H M G P G K R
UniRef90_B9PTQ0 R K L V K D N L I I R K A V A V H S R Y R V R L Y H E A K R A G R H M G K G K R
UniRef90_F0YFD7 R K L I K D G F V I R K P V V V H S R S R C Q R H L D A K R K G R H T G L G K R
UniRef90_I7IGA7 R K L I G D G L I I K K S V A P H S R A R I R L F H E A K S K G R H M G L G K R
UniRef90_Q86LX4 R K L V K D G L I I R K P V A V H S R A R X R K R L X X X R K G R H M G H G K R
UniRef90_I4YAI7 R K L A K D G H V I R K P A L M H S R S R V R E T H A A K R A G R H T G Y G K R
UniRef90_W7AAZ6 R K L Y K E G L I L K K P Q K V H S R A R V R L Y K L A K R K G R H M G I G K R
UniRef90_U6ITL8 R K L Y K D N L I I R K P V A V H S R F R A R R Q L T A R R L G R H T G I G K R
UniRef90_F7PKR8 R D L I E Q G V V R E K D K Q G N S R G Q A R E R A E K R A Y G H Q K G H G S R
UniRef90_B0ED76 R K L I K D R L I I K K P A A M H S R A R V V E R K Q A K I L G R H T G H G K R
UniRef90_UPI0002657415 R K L I K D G L I I R K P V K I H S R F R C R R N A E A R R K G R H C G I G K R
UniRef90_M3X1S0 Q K L I K D G L V I Q K P A A V H S W A Q C W K N T S A C R K G R H M G I S K R
UniRef90_A2D8G1 R K L I N D G I I V K R P V K V H S G A R H T K R I L A K R L G R H T G Y G K R
UniRef90_Q9HPB6 R E L V A D G T I D A E D T Q G N S R G R A R E R D A K E S Y G H K K G A G S R
UniRef90_A0A024FSP2 R K L V K D G Y I I R R P A I V H S R S R A R L A A E A K A K G R H S G F G K R
UniRef90_R4XB62 R K L I K D G L I I V K P Q V V H S R S R V R E M A A A K R M G R H S G T G K R
UniRef90_D2VC39 R K L V K D G I I I R K P V E I R T R Y R W R K R K D A K L E G R H M G I G K R
UniRef90_D8SHG1 R K L V K D G L V I K K P Q K I H S R A R A R R E L E A K R K G R H S G K G K R
UniRef90_U1Q2B2 R D L V D Q G I I R S K D A K S N S R G R A R E R A D K R S Y G H Q K G Q G S R
UniRef90_E3K1J3 R K L Y K D G F I L K R S I T I H S R A R T R A M H A A K A K G R H T G P G K R
UniRef90_M1V800 R K L L R D G V L V R K P P A M H S R A R V R E R L E A K R K G R H T G P G K R
UniRef90_A2BMD7 K R L I K E G V I Q V K P T H S P S R G R W R E R H E A R K K G R H R G P G R R
UniRef90_P14329 R R L I A T G F I M R K P V V V H S R S R A R E H N A A K R L G R H R G A G N R
UniRef90_A9J5R1 R R L I N D G L I I K K P V A V H T R F R A K K R A E A R R K G R H R G L G K R
UniRef90_Q0W1X0 R G L I E A G T I K R R A V V G I S R G R A R A R D L K R A K G H G K G H G S R
UniRef90_J3A059 R E L I E Q G T I S A K E A K G N S H G R A R E R A D K R A Y G H R K G P G S R
UniRef90_V4HE18 R E Q V E Q G N V R E E D A K S N S R G R A R E R D E K R S Y G H R T G P G S R
UniRef90_A8N0Q2 K K L I K D G R I I V K P T V I H S R A R T R A N L A S K R K G R H T G T G K R
UniRef90_O02639 R R L V N D G L I I R K P V T V H S R F R A R E Y E E A R R K G R H T G Y G K R
UniRef90_M4E080 R T L V K D G L I I R K L S K I H S R A H A R T L N E A K R K G R H S G S G K R
UniRef90_A0A058Z374 R G L I K S G L I T K N N T V G Q S R A R T R A R L D A K R R G R H A G F G K R
UniRef90_A7I5Q7 R G L I T D G A I K A H Q K K G V S R G R A R V R T A Q R A Y G H R K G A G K R
UniRef90_H1YWP8 R G L I D E G A I S A K P V K G V S R G R A R A L T A K R S Y G H R K G H G R R
UniRef90_D7SJD4 R K L V K D G F V I K K P S K T H S R G R A R R S L E G K A K G R H S G E G K R
UniRef90_O28372 R E L I E Q G V I K R K P V N G V S R A R I N K R K L Q K R K G R R R G H G S R
UniRef90_D2RE48 R E L I E R G L I K R K P V K G V C R V R I N Y R K M Q K R K G R R R G H G S R
UniRef90_R4WA19 R E L V D E G V V R A K P K S G N S R G K A R E R S E K R A Y G H Q T G A G S R
UniRef90_C4R3I6 R K L Y K D G L I V K K P P V G H S R A R A F A E A K R A G R H T G Y G K R
UniRef90_J9I9T0 R K L Y K D G L I M R R Q V H M H S T S R V K R F H E A K R K G R H T G H G K R
UniRef90_F7FFM8 R K L I K D G L I I R K P V T V H S R A R C R K N T L A R R K G R H M G I G K R
UniRef90_UPI0003F4979B R K L L Q D G H I I T K P S V T H S R A R T R D H N A A K R Q G R H T G Y G K R
UniRef90_H0XMI0 R K L I K D G L I I R K P V T V H S R A R C R K N T L A R R K G R H M G I G K R
UniRef90_UPI0002B44D0A R K L I K D G L I I K R L T T T H S K S R S R Q R H Q A K S R G R H S G N G K R
UniRef90_M0S2T1 R R L V K D G L A V R K P T K T H S R S R A R R A L E A K R K G R H S G Y G K R
UniRef90_Q2NFX5 R A L I N D G V I K A K P V N G I S S Y R S K K N A E Q K S K G R R K G H G S R
UniRef90_G2MM70 R D L I A D G T I R V E E T Q N N S R G R A R A R Q E K R D Y G H G T G A G T R
UniRef90_Q8TZA4 R R L I K E G A I R K K P I K G Q S R V R A R K R H E Q R K K G R Q R G P G R R
UniRef90_D8M7L3 R S M I K N G M I V K K H N L M H S R A R V N I R H E A K A R G N H T G Y G K R
UniRef90_Q2FSG9 R N L I Q D G A I A A H Q K R G N S R G R A R A Q M A K R S Y G H C K G P G R R
UniRef90_I7LMY1 R E L I E D G A I K A R V V K G N S R G R A R E R M A K R A Y G H Q R G P G R R
UniRef90_M4YQQ7 R T A I D S G L I K A K P K N G T S R G R I R H A A K Q K A S G K R K G P G S R
UniRef90_A8BH61 R S L I E S K I I A K L D I K G S S R G R I R A R H A A K R L G R H S G H G K R
UniRef90_A2SPM0 R N L I D E G A I S S H Q K K G I S R G R V R A R M V K R S Y G H G K G P G R R
UniRef90_G7WMQ9 R S Q I E A G N I K A K P K K G N S R A R Y R V R A A K R A Y G H Q K G Q G R R
UniRef90_B6AIL2 R K L F K D G L I L R K A V A T H S R S R I N R L H E A K R K G R S M G L G K R
UniRef90_UPI00029B456A K R L I H D G V I K K K P V R G Q S R A R A R A Y Q E A R R K G R H R G P G S K
UniRef90_E0SPZ5 R R L I K E G I I F A E Y M K S N S R G R W R E F H R K R S K G R H R G Y G K R

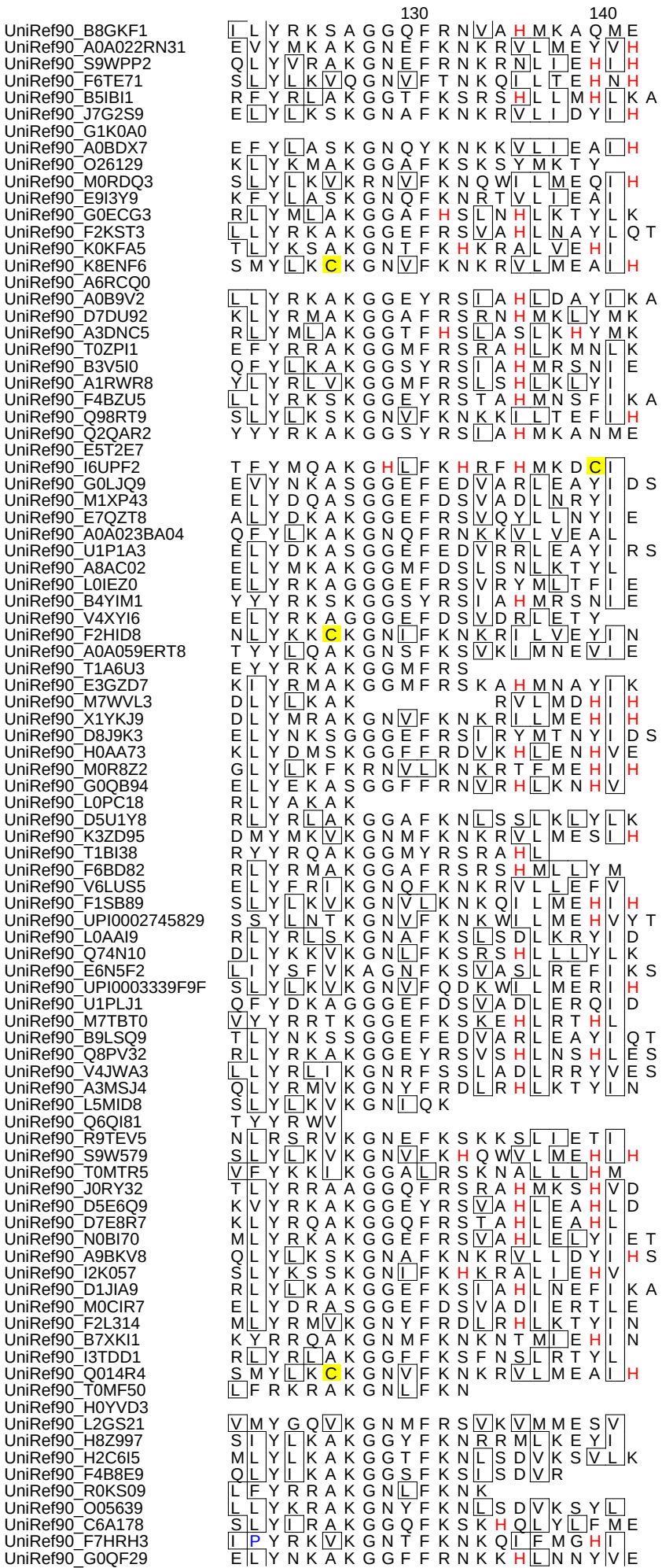

90
100
110
120
QUERY K G K A G A R Q N S K E D W E S R I R A Q R T K L R E L R D E G T L S S S Q Y R
UniRef90_UPI0003339A54 K G T A D A R V P A K V T W M R R M R I L R Q R L W R X R E S K K I D R H M Y H
UniRef90_UPI0002C33C52 K G T R E A M L P T K I L W M R V L R R L L C K Y R E G K K I D K H M Y H
UniRef90_M0RAG3 K G T A N I W V P E R V T W M R R M S I L H R L L R R Y C E S K K I D C H M C H
UniRef90_R7QQ26 L G T R D A R L P Q K V L W M R R Q R V L R N L L R K Y R E A K K I D R Y L Y H
UniRef90_UPI0003D07D6E K G I A N A W M P E K V T W M R R M R I L C W P L R R Y W E S K K I D C H M Y H
UniRef90_G3SH05 K G T A N A R M P E K V T W I L R R L L R R Y C E S K K I D R H M Y H
UniRef90_F4PBE1 R G T A N A R M P T A I L W M R R M R V L R R L L R K Y R E T G K I D R H L Y H
UniRef90_UPI00042B4741 K G T R E A R L P T K L L W M R K A R V L R R L L R K Y R E M N K I D K H M Y H
UniRef90_H0XWC9 K G T G N E R I P D K V T W V R R M R I L H R L M R R Y Q E S K K I D H H M Y H
UniRef90_U9USS1 K G T A N A R M P H G V L W M R R Q R V L R R L L R K Y R E D K K I D K H L Y H
UniRef90_D4A000 R S T A N A W M P E K V T W M R G I R I M N R L L R R Y G E S K K I D R H M Y H
UniRef90_G3SGQ3 K G T A N V R M P E V T W I R R M R I L C W L L R R Y R E S K K I D R H M Y H
UniRef90_G7DY06 K G T A E A R M P T K L L W M R R Q R V L R R L L R K Y R D Q G K I D K H L Y H
UniRef90_I1FXQ8 K G T A N A R M P E K V I W M R R M R T L R R L L R K Y R E A K K I D C H L Y H
UniRef90_K9IGG6 N G T A N A R M P E K L T W M R R M R I L H Q L L R R Y P E S K K I D G H M Y H
UniRef90_V4LCT3 K G T R E A R L P T K I L W M T R M R V M R R Y L T K C R E T N K I D K H M Y H
UniRef90_D8LJA8 R G T A N A R L P F K L I W Q R R M R I L R R M L R K Y R E A K K I D K H L Y H
UniRef90_A0A023FVJ8 K G T A N A R M P R K V I W I R R M R V L R R L L K K Y R E A K K I D K H L Y H
UniRef90_S2J3B1 K G T A D A R M R S Q V I W M R R M R V L R R L L A K Y R E A G K I D K H L Y H
UniRef90_C5KZM8 K G T A E A R M P T K V L W M R R Q R V L R R L L R K Y R E A G K V D K H I Y H
UniRef90_L8HJG1 R G T R N A R M P E K V I W I R R M R V L R R L L R K Y R E A K K I D K H L Y H
UniRef90_UPI00046B173E E G T A N A R M P E K A T W M R R V R I L G R L L R S Y R E S K N I N H H M Y H
UniRef90_W5NQQ2 K G T A N S R M P E K V T W M R S L R I L C R R L R R Y C E S K I D R H M Y H
UniRef90_Q6C4N4 K G T A N A R M P E Q V L W M R R Q R V I R R L L S K Y R E Q G K I D K H L Y H
UniRef90_E4WYS4 L G T A N A R M P V K L V W M R R Q R V L R R L L A K Y R K Q E K L D K H I Y H
UniRef90_L1JVQ8 K G T A E A R L P T K V I W M R R Q R V L R R L L A K Y R E Q K K I D K H L Y H
UniRef90_B9IED6 K G T R E A R L P S K V L W M R R M R V L R R L L R K Y R E F E K I D K H M Y N
UniRef90_E7DQN8 K G T A N A R M P T K F L W M Q R Q R V L R R L L K K Y R D N K K I D R H L Y H
UniRef90_A7TZ73 R G T K D A R T P Q K M L W M K R M R V L R R L L R R Y R E A K K I D S H L Y H
UniRef90_P05734 K G T A E A R M P S A V V W M R R Q R V L R R L L R K Y R E S G K I D K H L Y H
UniRef90_UPI00047494FF K G R A G A R S P T K R D W I Q T I R P I R S E L R E L R D S G K I S K T V Y R
UniRef90_D5GP39 K G T K D A R M P S Q V L W M R R L R V L R R L L V K Y R A S G K I D K H L Y H
UniRef90_M0LTN5 R G T A G A R Q N R K D A W V S R I R A Q R R R L K E L R A D G T L D R T Q Y R
UniRef90_M1XK34 K G T A N A R L P E K V V W M R R M R V L R R L L R K Y R E A K K I D R H L Y H
UniRef90_M7NRJ1 K G T A N A R C S S K F Q W Q C R L R V L R R L L R R Y R D D G K I D K C L Y H
UniRef90_B9PTQ0 K G T R E A R L P A K V L W M R R Q R V L R R L L K K Y R D S K K I D K H M Y H
UniRef90_F0YFD7 K G T A N A R M P M K V L W M R R Q R V L R R L L R K Y R E A K K I D H H L Y H
UniRef90_I7IGA7 R G T K N A R Q P E K I L W T R R Q R V L R R L L K K L R D S K K I D S H M Y H
UniRef90_Q86LX4 X G T A N A R M P E K V V W M R R M R I L R R L L R K Y R E A K K I D R H M Y H
UniRef90_I4YAI7 K G T A E A R M P T K V I W M R R Q R V L R R L L R R Y R E S G K I D K H L Y H
UniRef90_W7AAZ6 R G T K N A R T N Q K T L W I K R Q R V L R R L L K R L R D A K K I D R H L Y H
UniRef90_U6ITL8 K G T A D A R M P Q K V L W M R R M R V L R R L L R R Y R S S R N I D K H L Y H
UniRef90_F7PKR8 K G A A G A R Q N E K D D W V S R I R A Q R E R L R E L R D S G E L S P T E Y R
UniRef90_B0ED76 K G T K N A R T P Q K T L W I I R M R V L R R L L L K Y R T T G K I D K H M Y H
UniRef90_UPI0002657415 K G T A N A R M P T K L L W I R R Q R V L R R L L R K Y R E A N K I D K H L Y R
UniRef90_M3X1S0 K G T A N A Q K P Q K V T M K R M R I W A S L L R R Y H E S K V E H H M Y Q
UniRef90_A2D8G1 R G G R N A R L T G K F Q W I R R I R V L R K V L V D Y R K R N E I D C H L Y R
UniRef90_Q9HPB6 K G K A G A R Q N E K R E Y V A G I R A Q R Q Q L R E L R D D G T L S P A Q Y R
UniRef90_A0A024FSP2 R G T R E A R L P T K V M W I R R L R V L R R L L K K Y R D A K K I D K H L Y H
UniRef90_R4XB62 H G T S E A R L R T S V T W M R R Q R V L R R L L R K Y R D S G K I T N H L Y H
UniRef90_D2VC39 F G S K D A R N P S K L Q W L K R M R V E R K L L K K Y R D N G K I D K T L Y R
UniRef90_D8SHG1 H G T R E A R L P S K I V W L R R M R V L R R L L R K Y R D A K K I D K H M Y H
UniRef90_U1Q2B2 K G K S G A R E A R K D D W V S R I R A Q R A R L K E L R D E G T I D R T Q Y R
UniRef90_E3K1J3 K G T A E A R M P T K V L W M R R Q R V L R R L L R K Y R E A G K I D R H L Y H
UniRef90_M1V800 K G T R D A R L P Q R V V W M R R Q R V L R R L L R K Y R A Q G K I D K H L Y H
UniRef90_A2BMD7 K G D A T A R R D P K E E W M H R I R K I R R Y L R Y L R D H G V I D R K T Y R
UniRef90_P14329 L G T R E A R L P S K I L W I R R I R V L R R L L K K Y R E A K K I D K H S Y R
UniRef90_A9J5R1 K G T A N A R M P E K I I W M K R I R V L R N L L K K Y R E Q K K I D K H L Y R
UniRef90_Q0W1X0 R G A K G A R T P K K E Q W M K R I R A Q R K L L K S L R E S K E L T P H T Y R
UniRef90_J3A059 K G K K G G R R N S K D E W V S R I R A Q R R R L K E L R D D G P L N R T Q Y R
UniRef90_V4HE18 K G K A G G R Q D T K S D W V A R I R A Q R A R L K E L R D D G P L D R S Q Y R
UniRef90_A8N0Q2 K G T A D A R F P A K V Q W M R R Q R V L R R L L R K Y R E A G K I D K H L Y H
UniRef90_O02639 R G T A N A R M P E K T L W I R R M R V L R N L L R R Y R D A K K L D K H L Y H
UniRef90_M4E080 K G T R E A R Q P T K F L W M N R M R V L R R F L L N Y R E K N K I D K H M Y H
UniRef90_A0A058Z374 K G T A K A R M P E K V I W M R R M R V L R R L L H K Y R E A K K I D K H M H H
UniRef90_A7I5Q7 K G A Q G A R T P S K R S W I Q K I R A I R K V L V T L R D E G T I D R H L Y R
UniRef90_H1YWP8 K G A Q G A R T P S K R E W I K K I R A I R R E L R V M R D E G Q I D A H L Y R
UniRef90_D7SJD4 K G T R E A R L P S K V V W M R K L R V L R R L L R K Y R E L E K I D R H V Y H
UniRef90_O28372 K G A K G A R M P R K R M W I L R I R A L R K A L R Q M K A E G V V D R R T Y R
UniRef90_D2RE48 K G K K T A R L S R K D A W I M R I R A L R K R L R E L R D K G V I D R R T Y R
UniRef90_R4WA19 K G K A G G R Q S E K D R W K R T A R A Q R Q T L R E L R D D G V L T P A Q Y R
UniRef90_C4R3I6 K G T A N A R M S T Q T L W M R R L R V L R R L L V K Y R D N G K I D K T L Y H
UniRef90_J9I9T0 R G T K D A R M P Q K V L W M R R Q R V L R R L L R K Y R E A K K I S K D I Y N
UniRef90_F7FFM8 K G T A N G R M P E K V T W M R R M R I L R L L L R R Y H E S K K I D R H M Y H
UniRef90_UPI0003F4979B K G T A D A R M P V K V Q W L R R M R V L R R L L R K Y R E G G K I D K H L Y H
UniRef90_H0XMI0 K G T A N A R M P E K V T W M R R M R I L R R L L R R Y R E S K K I D R H I H H
UniRef90_UPI0002B44D0A R G T K E A R L P T K L L W M R R M R V L R R L L R K Y R D Y E K I D R H I Y H
UniRef90_M0S2T1 R G T T E A R L P A K V L W T R R T R V L R R L L R R Y R E S N K I D K Y L Y H
UniRef90_Q2NFX5 K G A K K A R T P K K Q A W M S T I R S L R V V L K D M R A N D E I D K T T Y R
UniRef90_G2MM70 K G K A G A R R A D K D E W I S R I R A Q R S R L K E L R D E E D L N P T Q Y R
UniRef90_Q8TZA4 K G A K G A R M P K K R A W I Q R I R P I R R K L R E L R D S G K I D R S T Y R
UniRef90_D8M7L3 H G T M N A R I P E K L L W M R R I R V L R R L L R K Y R D A G K I D K H M Y A
UniRef90_Q2FSG9 K G A A G S R T N S K D R W I Q R I R A Q R R V L R E L R E T G D I D R S V Y R
UniRef90_I7LMY1 K G A A G A R A S S K R M W I G K I R A Q R R A L R E M R D D G T I D R S L Y R
UniRef90_M4YQQ7 K G T A N A R V P E K R Q W I A R I R P I R D E L K Q L R A D G K I T P S I Y R
UniRef90_A8BH61 R G T R E A R M P S K T L W I Q R Q R V L R R L L S R Y R D D E K I D R H L Y E
UniRef90_A2SPM0 S G A K G A R T P S K T Q W I K K I R A Q R K E L R A Q R E A G S I T P T E Y R
UniRef90_G7WMQ9 K G A K G S R S P R K V V W M T K I R A L R S N L K E L R E E G E I D R H T Y R
UniRef90_B6AIL2 R G T K D A R R P E K I L W M R R Q R V L R R L L K K Y R E A N K I D K S M Y K
UniRef90_UPI00029B456A K G R K T A R M G K K E R W M M I I R A L R K E L R K L K A E G K L D A H T Y R
UniRef90_E0SPZ5 K G A S S A R A N P K E Q W I F R I R K I R R F L K W L R D H E I I D S K T Y R

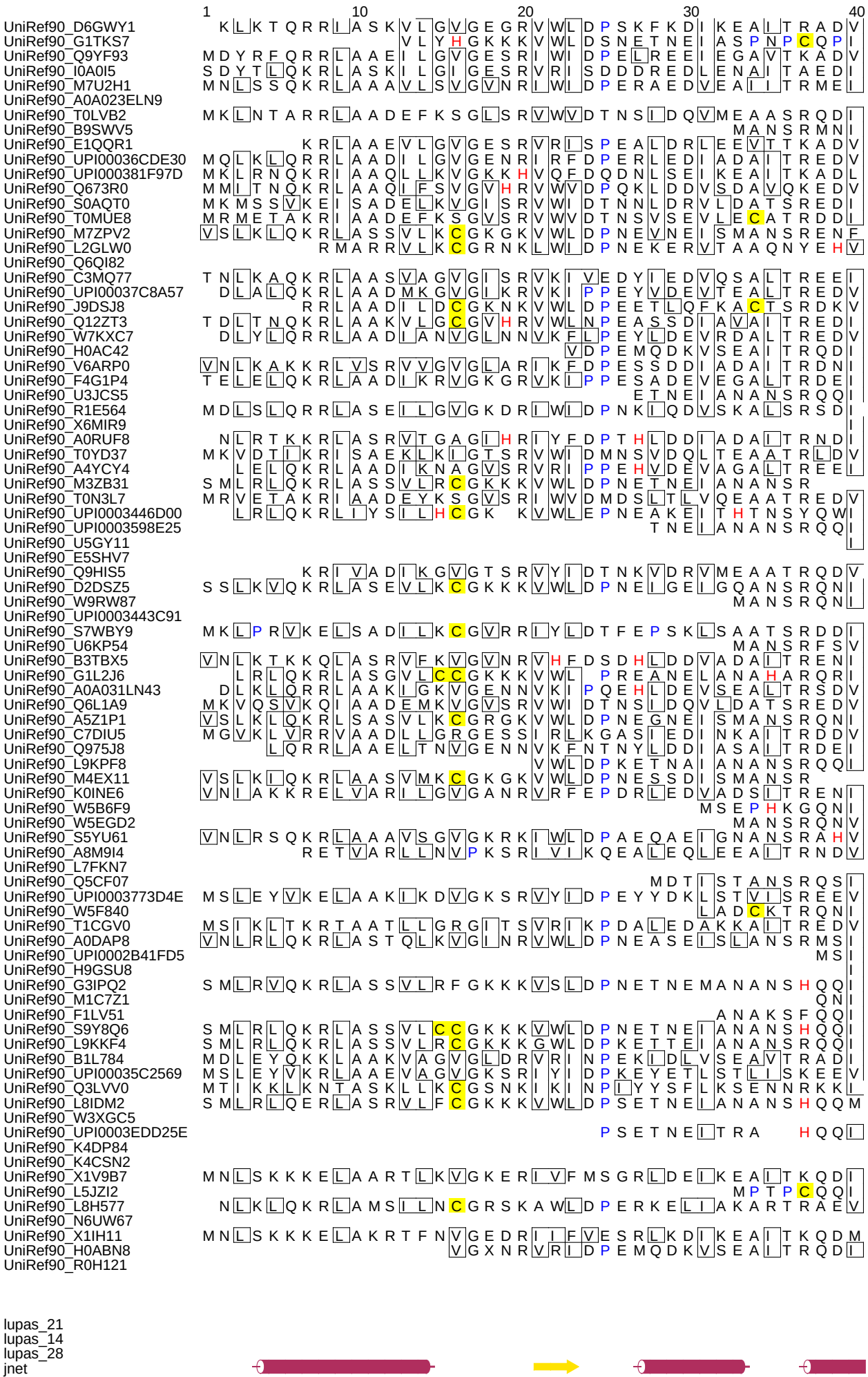

130
140
QUERY D L Y D K A G G G E F D S V A D L E R Y I D A
UniRef90_UPI0003339A54 S L S L K G K G N V F K N K R I L M D X V H
UniRef90_UPI0002C33C52 D M Y M K V K G N V F K N X R V L M E S I H
UniRef90_M0RAG3 S L Y L R V K R N V F K N Q W I L M E Q I H
UniRef90_R7QQ26 E L Y L R C K G N V F K N R R V L M E S I H
UniRef90_UPI0003D07D6E S L D L K V K G N V L K N K Q I L T D H I H
UniRef90_G3SH05 S L Y L K V K G N V F K N K R I L M E H I H
UniRef90_F4PBE1 E L Y T K S K G N V F K N K R V L M E Y I H
UniRef90_UPI00042B4741 D M Y M K A K G G V F K N K R A L L E S I H
UniRef90_H0XWC9 S L Y L K V K G N V F K N K Q I L M E Y I H
UniRef90_U9USS1 Q L Y M K S K G N V F K N K R V L M E Y I H
UniRef90_D4A000 S L Y L K V K G N V F K N K R I L M E Q I H
UniRef90_G3SGQ3 S L Y L K V K G N V F K N K R I I L E H I H
UniRef90_G7DY06 S L Y L K S K G N V F K N K R V L M D F I H
UniRef90_I1FXQ8 M L Y K R V K G N V F K N K R V L M E Y I H
UniRef90_K9IGG6 S L D L K V K G N V F K N K R I L M E H I H
UniRef90_V4LCT3 D M Y M K V K G N V F K N K R V L M E S I H
UniRef90_D8LJA8 E L Y L G C K G N Q F K N K R V L M E A I H
UniRef90_A0A023FVJ8 D L Y L K A K G N V F K N K R V L M E Y I H
UniRef90_S2J3B1 H L Y L K S K G N G F K N K R V L M E H I H
UniRef90_C5KZM8 F F Y M K S K G N T F K N K R V L I E A I H
UniRef90_L8HJG1 E L Y M K V K G N V F K N K R V L M E Y I
UniRef90_UPI00046B173E S L Y L K V K G N V F K N K R I L R G N I H
UniRef90_W5NQQ2 S L Y K K V K G N V F K N K R I L M E H I H
UniRef90_Q6C4N4 E L Y K L A K G N T F K H K R A V V E H V
UniRef90_E4WYS4 E L Y L K A K G N V F K N K R V L M E H I H
UniRef90_L1JVQ8 V L Y M K C K G N V F K N K R N L I E F
UniRef90_B9IED6 E M Y M K V K G N V F K N K R V L M E R I H
UniRef90_E7DQN8 D L Y M K C K G N V F K N K R V L M E Y I H
UniRef90_A7TZ73 E L Y L K A K G N V F K N K R V L M E F I H
UniRef90_P05734 T L Y L E A K G N T F K H K R A L I E H I
UniRef90_UPI00047494FF E F Y M K A K G G V F K N R A H L V S H L K A
UniRef90_D5GP39 E L Y H L S K G N T F K H K R A L I E H V H
UniRef90_M0LTN5 T L Y D K A G G G E F D S V A R L V A F A E
UniRef90_M1XK34 E L Y K R C K G N V F K N K R V L M E F I H
UniRef90_M7NRJ1 T L Y A K A K G N Q F K H K R A L V E Y I H
UniRef90_B9PTQ0 S M Y M R C K G N Q F K N K R V L I E A I H
UniRef90_F0YFD7 D L Y M R A K G N Q F K N K R V L M E S I H
UniRef90_I7IGA7 N F Y M R C K G N Q F R N K R V L Q E A I H
UniRef90_Q86LX4 M L Y Q K A K G N V F K N K R V L M E H I H
UniRef90_I4YAI7 S L Y L K S K G N T F K N K R V L M E H I H
UniRef90_W7AAZ6 S F Y L K C K G N Q F K N K R T L I E A I
UniRef90_U6ITL8 C L Y Q Q C K G N I F K N K R I L I D H I H
UniRef90_F7PKR8 E L Y D Q A S G G E F D D V G D L D R Y I D
UniRef90_B0ED76 D F Y L K V K G N Q Y K N K K A L M E S I
UniRef90_UPI0002657415 E L Y L K S K G A V F K N K R N L M E H I H
UniRef90_M3X1S0 S P Y L K V K G N M F K N K Q I L M E H I H
UniRef90_A2D8G1 K L Y L K A K G N E F R N R R N L V E H I Q T
UniRef90_Q9HPB6 E M Y N M A N G G E F D S V R R L T N Y V E
UniRef90_A0A024FSP2 K L Y M K V K G N V F K N K R V L M E A V H
UniRef90_R4XB62 S L Y A S A K G N A F K H K R A L I E H I H
UniRef90_D2VC39 E L Y A K V K G N V F K S K R I L M E H V
UniRef90_D8SHG1 S M Y M K V K G N V F K N K R V L M E N I H
UniRef90_U1Q2B2 E L Y N K A S G G E F E S V D R L E A Y V R T
UniRef90_E3K1J3 A L Y M K A K G N V F K N K R V L M D Y I H
UniRef90_M1V800 E L Y L R C K G N V F K N K R V L M E H I H
UniRef90_A2BMD7 K L Y M W A K G G M F P T F S A L Q R W L E
UniRef90_P14329 E L Y L K A K G N V F K N K R T L I E Y I
UniRef90_A9J5R1 E F Y L K C K A N V F K S K K G L I E H I
UniRef90_Q0W1X0 T L Y R K A K G G E F R N V A H L K S Y I
UniRef90_J3A059 T L Y N K A S G G E F D S V D R L E A F I
UniRef90_V4HE18 E L Y D K A S G G E F E D V R R L E T Y A E T
UniRef90_A8N0Q2 V L Y Q K A K G N V F K N K R V L M E Y I H
UniRef90_O02639 E L Y L R A K G N N F K N K K N L I E Y I
UniRef90_M4E080 E M Y M K V K G G V F K N K R V L M E S I H
UniRef90_A0A058Z374 D L Y M K A K G N T F R N K R V L M E Y I
UniRef90_A7I5Q7 V L Y R K A A G G Q F R S V A H M K A Q M E
UniRef90_H1YWP8 I M Y R K A S G G Q F R N V A H M K A Q L E
UniRef90_D7SJD4 E M Y M K A K G N T F K N K R A L M E T I H
UniRef90_O28372 I L Y R K A K G G E F R S V A H L K I Y V E
UniRef90_D2RE48 M L Y L K A K G G E F R S V S H L N A Y I E
UniRef90_R4WA19 A L Y N K S R G G E F P D V R R L L N F A E
UniRef90_C4R3I6 T L Y R E S K G N A F K H K R A L I E H I
UniRef90_J9I9T0 H F Y L A S K G N Q F K N K S V L I E S I H
UniRef90_F7FFM8 S L Y L K V K G N V F K N K R I L M E H I H
UniRef90_UPI0003F4979B S L Y L E A K G N K F K N K R V L M E H I H
UniRef90_H0XMI0 L L E L L V A L N S F P N L T K L
UniRef90_UPI0002B44D0A Q M Y I R V K G N V Y K N K R V L M E S I H
UniRef90_M0S2T1 H M Y M K A K G N V F K N K R V L M E S I H
UniRef90_Q2NFX5 K L Y N M A K G G S F R S K S Y M K T Y A K
UniRef90_G2MM70 E L Y N K A S G G E F D S V A R L E A F
UniRef90_Q8TZA4 K L Y M M A K G G Y F R D T S H L L A Y I E
UniRef90_D8M7L3 H F Y A L A K G N R Y K T K R V L I E Q I H
UniRef90_Q2FSG9 K F Y R R A A G G Q F R T V S H M K A Q I E
UniRef90_I7LMY1 L M Y R R A S G G Q F R S V A H L T A H V E T
UniRef90_M4YQQ7 L Y Y R K A K G G S Y T S R R N L K Q H M I A
UniRef90_A8BH61 T L Y A K A K G N M F K N K R V L L E H
UniRef90_A2SPM0 R L Y R R A A G G Q F R N V A H M K T Q I E
UniRef90_G7WMQ9 M L Y R K A K G G E Y R S T A H L N A Y I K A
UniRef90_B6AIL2 K F Y M K A K G N E F K N K R V L I E A I H
UniRef90_UPI00029B456A R L Y I R V K G G Q F R N K R Q L Y M F M
UniRef90_E0SPZ5 M L Y R K A K G G A F E S L A S L K R Y M K

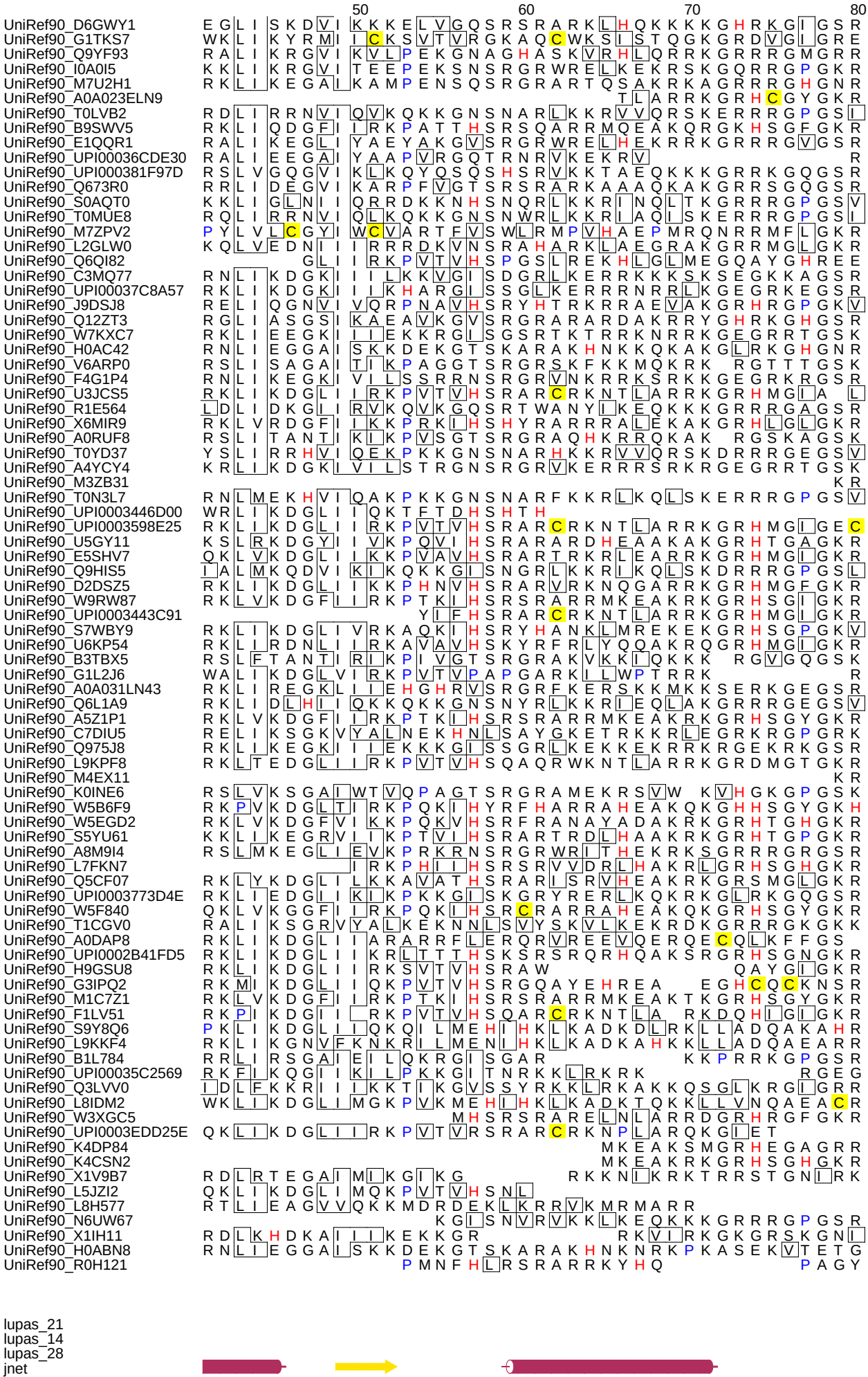

1
10
20
30
40
UniRef90_B8GKF1
UniRef90_A0A022RN31
UniRef90_S9WPP2
UniRef90_F6TE71
UniRef90_B5IBI1
UniRef90_J7G2S9
UniRef90_G1K0A0
UniRef90_A0BDX7
UniRef90_O26129
UniRef90_M0RDQ3
UniRef90_E9I3Y9
UniRef90_G0ECG3
UniRef90_F2KST3
UniRef90_K0KFA5
UniRef90_K8ENF6
UniRef90_A6RCQ0
UniRef90_A0B9V2
UniRef90_D7DU92
UniRef90_A3DNC5
UniRef90_T0ZPI1
UniRef90_B3V5I0
UniRef90_A1RWR8
UniRef90_F4BZU5
UniRef90_Q98RT9
UniRef90_Q2QAR2
UniRef90_E5T2E7
UniRef90_I6UPF2
UniRef90_G0LJQ9
UniRef90_M1XP43
UniRef90_E7QZT8
UniRef90_A0A023BA04
UniRef90_U1P1A3
UniRef90_A8AC02
UniRef90_L0IEZ0
UniRef90_B4YIM1
UniRef90_V4XYI6
UniRef90_F2HID8
UniRef90_A0A059ERT8
UniRef90_T1A6U3
UniRef90_E3GZD7
UniRef90_M7WVL3
UniRef90_X1YKJ9
UniRef90_D8J9K3
UniRef90_H0AA73
UniRef90_M0R8Z2
UniRef90_G0QB94
UniRef90_L0PC18
UniRef90_D5U1Y8
UniRef90_K3ZD95
UniRef90_T1BI38
UniRef90_F6BD82
UniRef90_V6LUS5
UniRef90_F1SB89
UniRef90_UPI0002745829
UniRef90_L0AAI9
UniRef90_Q74N10
UniRef90_E6N5F2
UniRef90_UPI0003339F9F
UniRef90_U1PLJ1
UniRef90_M7TBT0
UniRef90_B9LSQ9
UniRef90_Q8PV32
UniRef90_V4JWA3
UniRef90_A3MSJ4
UniRef90_L5MID8
UniRef90_Q6QI81
UniRef90_R9TEV5
UniRef90_S9W579
UniRef90_T0MTR5
UniRef90_J0RY32
UniRef90_D5E6Q9
UniRef90_D7E8R7
UniRef90_N0BI70
UniRef90_A9BKV8
UniRef90_I2K057
UniRef90_D1JIA9
UniRef90_M0CIR7
UniRef90_F2L314
UniRef90_B7XKI1
UniRef90_I3TDD1
UniRef90_Q014R4
UniRef90_T0MF50
UniRef90_H0YVD3
UniRef90_L2GS21
UniRef90_H8Z997
UniRef90_H2C6I5
UniRef90_F4B8E9
UniRef90_R0KS09
UniRef90_O05639
UniRef90_C6A178
UniRef90_F7HRH3
UniRef90_G0QF29

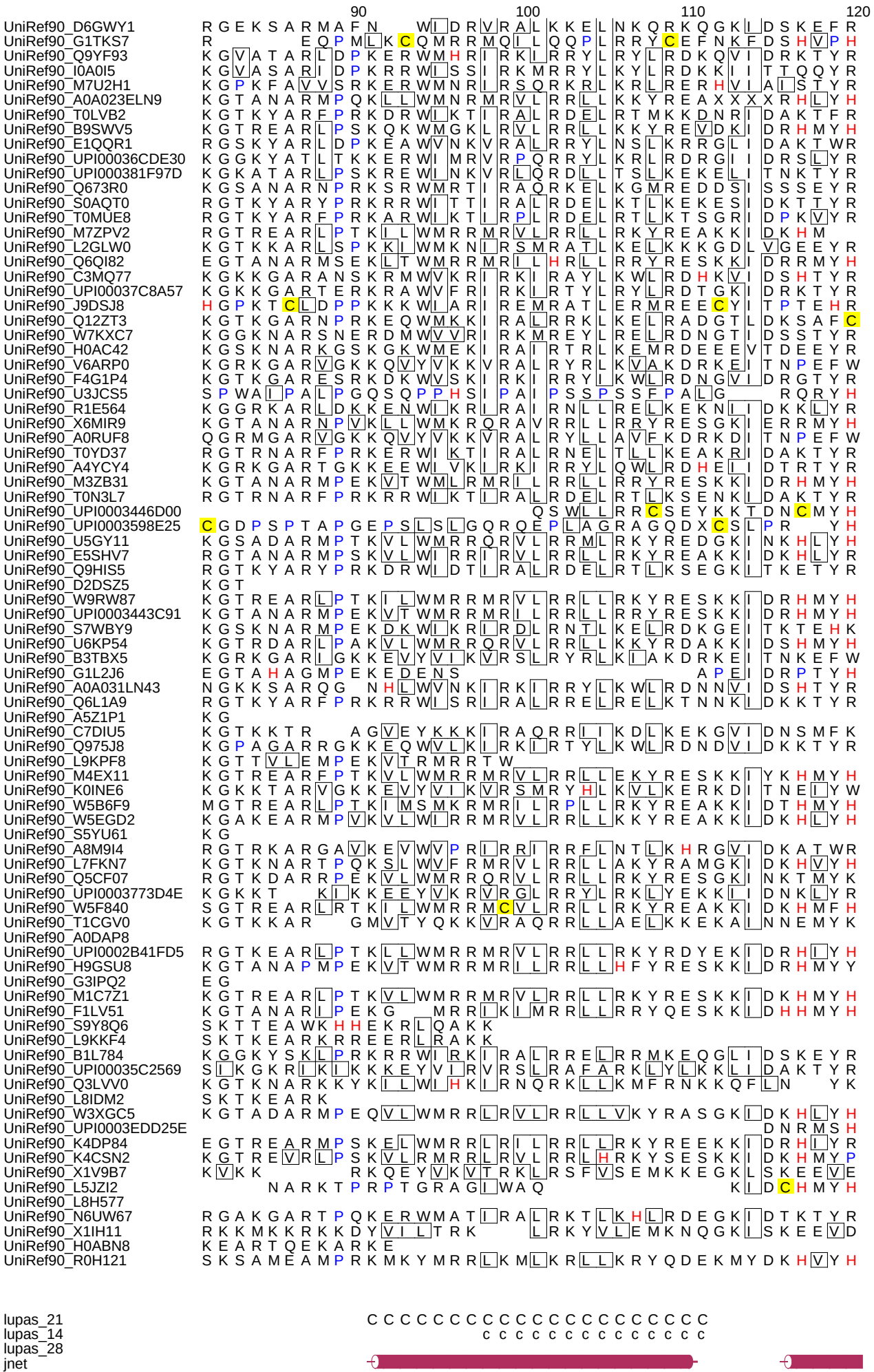

50
60
70
80
UniRef90_B8GKF1
UniRef90_A0A022RN31
UniRef90_S9WPP2
UniRef90_F6TE71
UniRef90_B5IBI1
UniRef90_J7G2S9
UniRef90_G1K0A0
UniRef90_A0BDX7
UniRef90_O26129
UniRef90_M0RDQ3
UniRef90_E9I3Y9
UniRef90_G0ECG3
UniRef90_F2KST3
UniRef90_K0KFA5
UniRef90_K8ENF6
UniRef90_A6RCQ0
UniRef90_A0B9V2
UniRef90_D7DU92
UniRef90_A3DNC5
UniRef90_T0ZPI1
UniRef90_B3V5I0
UniRef90_A1RWR8
UniRef90_F4BZU5
UniRef90_Q98RT9
UniRef90_Q2QAR2
UniRef90_E5T2E7
UniRef90_I6UPF2
UniRef90_G0LJQ9
UniRef90_M1XP43
UniRef90_E7QZT8
UniRef90_A0A023BA04
UniRef90_U1P1A3
UniRef90_A8AC02
UniRef90_L0IEZ0
UniRef90_B4YIM1
UniRef90_V4XYI6
UniRef90_F2HID8
UniRef90_A0A059ERT8
UniRef90_T1A6U3
UniRef90_E3GZD7
UniRef90_M7WVL3
UniRef90_X1YKJ9
UniRef90_D8J9K3
UniRef90_H0AA73
UniRef90_M0R8Z2
UniRef90_G0QB94
UniRef90_L0PC18
UniRef90_D5U1Y8
UniRef90_K3ZD95
UniRef90_T1BI38
UniRef90_F6BD82
UniRef90_V6LUS5
UniRef90_F1SB89
UniRef90_UPI0002745829
UniRef90_L0AAI9
UniRef90_Q74N10
UniRef90_E6N5F2
UniRef90_UPI0003339F9F
UniRef90_U1PLJ1
UniRef90_M7TBT0
UniRef90_B9LSQ9
UniRef90_Q8PV32
UniRef90_V4JWA3
UniRef90_A3MSJ4
UniRef90_L5MID8
UniRef90_Q6QI81
UniRef90_R9TEV5
UniRef90_S9W579
UniRef90_T0MTR5
UniRef90_J0RY32
UniRef90_D5E6Q9
UniRef90_D7E8R7
UniRef90_N0BI70
UniRef90_A9BKV8
UniRef90_I2K057
UniRef90_D1JIA9
UniRef90_M0CIR7
UniRef90_F2L314
UniRef90_B7XKI1
UniRef90_I3TDD1
UniRef90_Q014R4
UniRef90_T0MF50
UniRef90_H0YVD3
UniRef90_L2GS21
UniRef90_H8Z997
UniRef90_H2C6I5
UniRef90_F4B8E9
UniRef90_R0KS09
UniRef90_O05639
UniRef90_C6A178
UniRef90_F7HRH3
UniRef90_G0QF29


90
100
110
120
UniRef90_B8GKF1
UniRef90_A0A022RN31
UniRef90_S9WPP2
UniRef90_F6TE71
UniRef90_B5IBI1
UniRef90_J7G2S9
UniRef90_G1K0A0
UniRef90_A0BDX7
UniRef90_O26129
UniRef90_M0RDQ3
UniRef90_E9I3Y9
UniRef90_G0ECG3
UniRef90_F2KST3
UniRef90_K0KFA5
UniRef90_K8ENF6
UniRef90_A6RCQ0
UniRef90_A0B9V2
UniRef90_D7DU92
UniRef90_A3DNC5
UniRef90_T0ZPI1
UniRef90_B3V5I0
UniRef90_A1RWR8
UniRef90_F4BZU5
UniRef90_Q98RT9
UniRef90_Q2QAR2
UniRef90_E5T2E7
UniRef90_I6UPF2
UniRef90_G0LJQ9
UniRef90_M1XP43
UniRef90_E7QZT8
UniRef90_A0A023BA04
UniRef90_U1P1A3
UniRef90_A8AC02
UniRef90_L0IEZ0
UniRef90_B4YIM1
UniRef90_V4XYI6
UniRef90_F2HID8
UniRef90_A0A059ERT8
UniRef90_T1A6U3
UniRef90_E3GZD7
UniRef90_M7WVL3
UniRef90_X1YKJ9
UniRef90_D8J9K3
UniRef90_H0AA73
UniRef90_M0R8Z2
UniRef90_G0QB94
UniRef90_L0PC18
UniRef90_D5U1Y8
UniRef90_K3ZD95
UniRef90_T1BI38
UniRef90_F6BD82
UniRef90_V6LUS5
UniRef90_F1SB89
UniRef90_UPI0002745829
UniRef90_L0AAI9
UniRef90_Q74N10
UniRef90_E6N5F2
UniRef90_UPI0003339F9F
UniRef90_U1PLJ1
UniRef90_M7TBT0
UniRef90_B9LSQ9
UniRef90_Q8PV32
UniRef90_V4JWA3
UniRef90_A3MSJ4
UniRef90_L5MID8
UniRef90_Q6QI81
UniRef90_R9TEV5
UniRef90_S9W579
UniRef90_T0MTR5
UniRef90_J0RY32
UniRef90_D5E6Q9
UniRef90_D7E8R7
UniRef90_N0BI70
UniRef90_A9BKV8
UniRef90_I2K057
UniRef90_D1JIA9
UniRef90_M0CIR7
UniRef90_F2L314
UniRef90_B7XKI1
UniRef90_I3TDD1
UniRef90_Q014R4
UniRef90_T0MF50
UniRef90_H0YVD3
UniRef90_L2GS21
UniRef90_H8Z997
UniRef90_H2C6I5
UniRef90_F4B8E9
UniRef90_R0KS09
UniRef90_O05639
UniRef90_C6A178
UniRef90_F7HRH3
UniRef90_G0QF29


130
140
UniRef90_B8GKF1 I L Y R K S A G G Q F R N V A H M K A Q M E
UniRef90_A0A022RN31 E V Y M K A K G N E F K N K R V L M E Y V H
UniRef90_S9WPP2 Q L Y V R A K G N E F R N K R N L I E H I H
UniRef90_F6TE71 S L Y L K V Q G N V F T N K Q I L T E H N H
UniRef90_B5IBI1 R F Y R L A K G G T F K S R S H L L M H L K A
UniRef90_J7G2S9 E L Y L K S K G N A F K N K R V L I D Y I H
UniRef90_G1K0A0
UniRef90_A0BDX7 E F Y L A S K G N Q Y K N K K V L I E A I H
UniRef90_O26129 K L Y K M A K G G A F K S K S Y M K T Y
UniRef90_M0RDQ3 S L Y L K V K R N V F K N Q W I L M E Q I H
UniRef90_E9I3Y9 K F Y L A S K G N Q F K N R T V L I E A I
UniRef90_G0ECG3 R L Y M L A K G G A F H S L N H L K T Y L K
UniRef90_F2KST3 L L Y R K A K G G E F R S V A H L N A Y L Q T
UniRef90_K0KFA5 T L Y K S A K G N T F K H K R A L V E H I
UniRef90_K8ENF6 S M Y L K C K G N V F K N K R V L M E A I H
UniRef90_A6RCQ0
UniRef90_A0B9V2 L L Y R K A K G G E Y R S I A H L D A Y I K A
UniRef90_D7DU92 K L Y R M A K G G A F R S R N H M K L Y M K
UniRef90_A3DNC5 R L Y M L A K G G T F H S L A S L K H Y M K
UniRef90_T0ZPI1 E F Y R R A K G G M F R S R A H L K M N L K
UniRef90_B3V5I0 Q F Y L K A K G G S Y R S I A H M R S N I E
UniRef90_A1RWR8 Y L Y R L V K G G M F R S L S H L K L Y I
UniRef90_F4BZU5 L L Y R K S K G G E Y R S T A H M N S F I K A
UniRef90_Q98RT9 S L Y L K S K G N V F K N K K I L T E F I H
UniRef90_Q2QAR2 Y Y Y R K A K G G S Y R S I A H M K A N M E
UniRef90_E5T2E7
UniRef90_I6UPF2 T F Y M Q A K G H L F K H R F H M K D C I
UniRef90_G0LJQ9 E V Y N K A S G G E F E D V A R L E A Y I D S
UniRef90_M1XP43 E L Y D Q A S G G E F D S V A D L N R Y I
UniRef90_E7QZT8 A L Y D K A K G G E F R S V Q Y L L N Y I E
UniRef90_A0A023BA04 Q F Y L K A K G N Q F R N K K V L V E A L
UniRef90_U1P1A3 E L Y D K A S G G E F E D V R R L E A Y I R S
UniRef90_A8AC02 E L Y M K A K G G M F D S L S N L K T Y L
UniRef90_L0IEZ0 E L Y R K A G G G E F R S V R Y M L T F I E
UniRef90_B4YIM1 Y Y Y R K S K G G S Y R S I A H M R S N I E
UniRef90_V4XYI6 E L Y R K A G G G E F D S V D R L E T Y
UniRef90_F2HID8 N L Y K K C K G N I F K N K R I L V E Y I N
UniRef90_A0A059ERT8 T Y Y L Q A K G N S F K S V K I M N E V I E
UniRef90_T1A6U3 E Y Y R K A K G G M F R S
UniRef90_E3GZD7 K I Y R M A K G G M F R S K A H M N A Y I K
UniRef90_M7WVL3 D L Y L K A K R V L M D H I H
UniRef90_X1YKJ9 D L Y M R A K G N V F K N K R I L M E H I H
UniRef90_D8J9K3 E L Y N K S G G G E F R S I R Y M T N Y I D S
UniRef90_H0AA73 K L Y D M S K G G F F R D V K H L E N H V E
UniRef90_M0R8Z2 G L Y L K F K R N V L K N K R T F M E H I H
UniRef90_G0QB94 E L Y E K A S G G F F R N V R H L K N H V
UniRef90_L0PC18 R L Y A K A K
UniRef90_D5U1Y8 R L Y R L A K G G A F K N L S S L K L Y L K
UniRef90_K3ZD95 D M Y M K V K G N M F K N K R V L M E S I H
UniRef90_T1BI38 R Y Y R Q A K G G M Y R S R A H L
UniRef90_F6BD82 R L Y R M A K G G A F R S R S H M L L Y M
UniRef90_V6LUS5 E L Y F R I K G N Q F K N K R V L L E F V
UniRef90_F1SB89 S L Y L K V K G N V L K N K Q I L M E H I H
UniRef90_UPI0002745829 S S Y L N T K G N V F K N K W I L M E H V Y T
UniRef90_L0AAI9 R L Y R L S K G N A F K S L S D L K R Y I D
UniRef90_Q74N10 D L Y K K V K G N L F K S R S H L L L Y L K
UniRef90_E6N5F2 L I Y S F V K A G N F K S V A S L R E F I K S
UniRef90_UPI0003339F9F S L Y L K V K G N V F Q D K W I L M E R I H
UniRef90_U1PLJ1 Q F Y D K A G G G E F D S V A D L E R Q I D
UniRef90_M7TBT0 V Y Y R R T K G G E F K S K E H L R T H L
UniRef90_B9LSQ9 T L Y N K S S G G E F E D V A R L E A Y I Q T
UniRef90_Q8PV32 R L Y R K A K G G E Y R S V S H L N S H L E S
UniRef90_V4JWA3 L L Y R L I K G N R F S S L A D L R R Y V E S
UniRef90_A3MSJ4 Q L Y R M V K G N Y F R D L R H L K T Y I N
UniRef90_L5MID8 S L Y L K V K G N I Q K
UniRef90_Q6QI81 T Y Y R W V
UniRef90_R9TEV5 N L R S R V K G N E F K S K K S L I E T I
UniRef90_S9W579 S L Y L K V K G N V F K H Q W V L M E H I H
UniRef90_T0MTR5 V F Y K K I K G G A L R S K N A L L L H M
UniRef90_J0RY32 T L Y R R A A G G Q F R S R A H M K S H V D
UniRef90_D5E6Q9 K V Y R K A K G G E Y R S V A H L E A H L D
UniRef90_D7E8R7 K L Y R Q A K G G Q F R S T A H L E A H L
UniRef90_N0BI70 M L Y R K A K G G E F R S V A H L E L Y I E T
UniRef90_A9BKV8 Q L Y L K S K G N A F K N K R V L L D Y I H S
UniRef90_I2K057 S L Y K S S K G N I F K H K R A L I E H V
UniRef90_D1JIA9 R L Y L K A K G G E F K S I A H L N E F I K A
UniRef90_M0CIR7 E L Y D R A S G G E F D S V A D I E R T L E
UniRef90_F2L314 M L Y R M V K G N Y F R D L R H L K T Y I N
UniRef90_B7XKI1 K Y R R Q A K G N M F K N K N T M I E H I N
UniRef90_I3TDD1 R L Y R L A K G G F F K S F N S L R T Y L
UniRef90_Q014R4 S M Y L K C K G N V F K N K R V L M E A I H
UniRef90_T0MF50 L F R K R A K G N L F K N
UniRef90_H0YVD3
UniRef90_L2GS21 V M Y G Q V K G N M F R S V K V M M E S V
UniRef90_H8Z997 S I Y L K A K G G Y F K N R R M L K E Y I
UniRef90_H2C6I5 M L Y L K A K G G T F K N L S D V K S V L K
UniRef90_F4B8E9 Q L Y I K A K G G S F K S I S D V R
UniRef90_R0KS09 L F Y R R A K G N L F K N K
UniRef90_O05639 L L Y K R A K G N Y F K N L S D V K S Y L
UniRef90_C6A178 S L Y I R A K G G Q F K S K H Q L Y L F M E
UniRef90_F7HRH3 I P Y R K V K G N T F K N K Q I F M G H I
UniRef90_G0QF29 E L Y N K A K G G F F R N K K H L N N Y V E

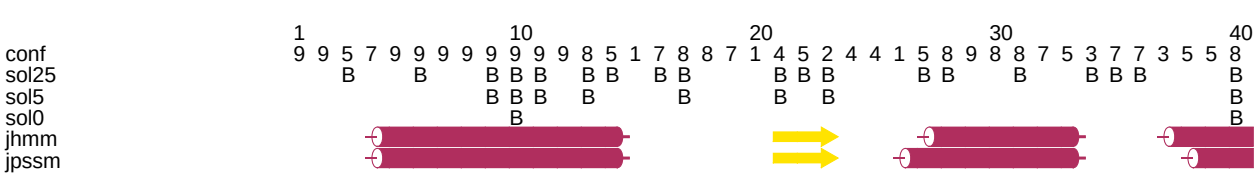

1
10
20
30
40
UniRef90_D6GWY1
UniRef90_G1TKS7
UniRef90_Q9YF93
UniRef90_I0A0I5
UniRef90_M7U2H1
UniRef90_A0A023ELN9
UniRef90_T0LVB2
UniRef90_B9SWV5
UniRef90_E1QQR1
UniRef90_UPI00036CDE30
UniRef90_UPI000381F97D
UniRef90_Q673R0
UniRef90_S0AQT0
UniRef90_T0MUE8
UniRef90_M7ZPV2
UniRef90_L2GLW0
UniRef90_Q6QI82
UniRef90_C3MQ77
UniRef90_UPI00037C8A57
UniRef90_J9DSJ8
UniRef90_Q12ZT3
UniRef90_W7KXC7
UniRef90_H0AC42
UniRef90_V6ARP0
UniRef90_F4G1P4
UniRef90_U3JCS5
UniRef90_R1E564
UniRef90_X6MIR9
UniRef90_A0RUF8
UniRef90_T0YD37
UniRef90_A4YCY4
UniRef90_M3ZB31
UniRef90_T0N3L7
UniRef90_UPI0003446D00
UniRef90_UPI0003598E25
UniRef90_U5GY11
UniRef90_E5SHV7
UniRef90_Q9HIS5
UniRef90_D2DSZ5
UniRef90_W9RW87
UniRef90_UPI0003443C91
UniRef90_S7WBY9
UniRef90_U6KP54
UniRef90_B3TBX5
UniRef90_G1L2J6
UniRef90_A0A031LN43
UniRef90_Q6L1A9
UniRef90_A5Z1P1
UniRef90_C7DIU5
UniRef90_Q975J8
UniRef90_L9KPF8
UniRef90_M4EX11
UniRef90_K0INE6
UniRef90_W5B6F9
UniRef90_W5EGD2
UniRef90_S5YU61
UniRef90_A8M9I4
UniRef90_L7FKN7
UniRef90_Q5CF07
UniRef90_UPI0003773D4E
UniRef90_W5F840
UniRef90_T1CGV0
UniRef90_A0DAP8
UniRef90_UPI0002B41FD5
UniRef90_H9GSU8
UniRef90_G3IPQ2
UniRef90_M1C7Z1
UniRef90_F1LV51
UniRef90_S9Y8Q6
UniRef90_L9KKF4
UniRef90_B1L784
UniRef90_UPI00035C2569
UniRef90_Q3LVV0
UniRef90_L8IDM2
UniRef90_W3XGC5
UniRef90_UPI0003EDD25E
UniRef90_K4DP84
UniRef90_K4CSN2
UniRef90_X1V9B7
UniRef90_L5JZI2
UniRef90_L8H577
UniRef90_N6UW67
UniRef90_X1IH11
UniRef90_H0ABN8
UniRef90_R0H121
lupas_21
lupas_14
lupas_28
jnet

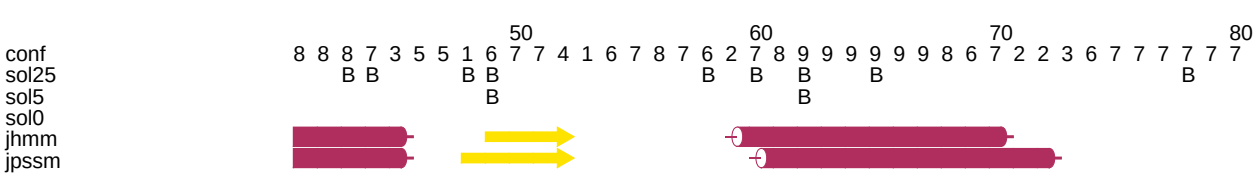

50
60
70
80
UniRef90_D6GWY1
UniRef90_G1TKS7
UniRef90_Q9YF93
UniRef90_I0A0I5
UniRef90_M7U2H1
UniRef90_A0A023ELN9
UniRef90_T0LVB2
UniRef90_B9SWV5
UniRef90_E1QQR1
UniRef90_UPI00036CDE30
UniRef90_UPI000381F97D
UniRef90_Q673R0
UniRef90_S0AQT0
UniRef90_T0MUE8
UniRef90_M7ZPV2
UniRef90_L2GLW0
UniRef90_Q6QI82
UniRef90_C3MQ77
UniRef90_UPI00037C8A57
UniRef90_J9DSJ8
UniRef90_Q12ZT3
UniRef90_W7KXC7
UniRef90_H0AC42
UniRef90_V6ARP0
UniRef90_F4G1P4
UniRef90_U3JCS5
UniRef90_R1E564
UniRef90_X6MIR9
UniRef90_A0RUF8
UniRef90_T0YD37
UniRef90_A4YCY4
UniRef90_M3ZB31
UniRef90_T0N3L7
UniRef90_UPI0003446D00
UniRef90_UPI0003598E25
UniRef90_U5GY11
UniRef90_E5SHV7
UniRef90_Q9HIS5
UniRef90_D2DSZ5
UniRef90_W9RW87
UniRef90_UPI0003443C91
UniRef90_S7WBY9
UniRef90_U6KP54
UniRef90_B3TBX5
UniRef90_G1L2J6
UniRef90_A0A031LN43
UniRef90_Q6L1A9
UniRef90_A5Z1P1
UniRef90_C7DIU5
UniRef90_Q975J8
UniRef90_L9KPF8
UniRef90_M4EX11
UniRef90_K0INE6
UniRef90_W5B6F9
UniRef90_W5EGD2
UniRef90_S5YU61
UniRef90_A8M9I4
UniRef90_L7FKN7
UniRef90_Q5CF07
UniRef90_UPI0003773D4E
UniRef90_W5F840
UniRef90_T1CGV0
UniRef90_A0DAP8
UniRef90_UPI0002B41FD5
UniRef90_H9GSU8
UniRef90_G3IPQ2
UniRef90_M1C7Z1
UniRef90_F1LV51
UniRef90_S9Y8Q6
UniRef90_L9KKF4
UniRef90_B1L784
UniRef90_UPI00035C2569
UniRef90_Q3LVV0
UniRef90_L8IDM2
UniRef90_W3XGC5
UniRef90_UPI0003EDD25E
UniRef90_K4DP84
UniRef90_K4CSN2
UniRef90_X1V9B7
UniRef90_L5JZI2
UniRef90_L8H577
UniRef90_N6UW67
UniRef90_X1IH11
UniRef90_H0ABN8
UniRef90_R0H121
lupas_21
lupas_14
lupas_28
jnet

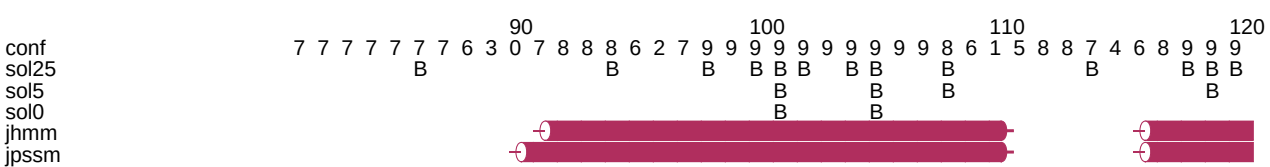

90
100
110
120
UniRef90_D6GWY1
UniRef90_G1TKS7
UniRef90_Q9YF93
UniRef90_I0A0I5
UniRef90_M7U2H1
UniRef90_A0A023ELN9
UniRef90_T0LVB2
UniRef90_B9SWV5
UniRef90_E1QQR1
UniRef90_UPI00036CDE30
UniRef90_UPI000381F97D
UniRef90_Q673R0
UniRef90_S0AQT0
UniRef90_T0MUE8
UniRef90_M7ZPV2
UniRef90_L2GLW0
UniRef90_Q6QI82
UniRef90_C3MQ77
UniRef90_UPI00037C8A57
UniRef90_J9DSJ8
UniRef90_Q12ZT3
UniRef90_W7KXC7
UniRef90_H0AC42
UniRef90_V6ARP0
UniRef90_F4G1P4
UniRef90_U3JCS5
UniRef90_R1E564
UniRef90_X6MIR9
UniRef90_A0RUF8
UniRef90_T0YD37
UniRef90_A4YCY4
UniRef90_M3ZB31
UniRef90_T0N3L7
UniRef90_UPI0003446D00
UniRef90_UPI0003598E25
UniRef90_U5GY11
UniRef90_E5SHV7
UniRef90_Q9HIS5
UniRef90_D2DSZ5
UniRef90_W9RW87
UniRef90_UPI0003443C91
UniRef90_S7WBY9
UniRef90_U6KP54
UniRef90_B3TBX5
UniRef90_G1L2J6
UniRef90_A0A031LN43
UniRef90_Q6L1A9
UniRef90_A5Z1P1
UniRef90_C7DIU5
UniRef90_Q975J8
UniRef90_L9KPF8
UniRef90_M4EX11
UniRef90_K0INE6
UniRef90_W5B6F9
UniRef90_W5EGD2
UniRef90_S5YU61
UniRef90_A8M9I4
UniRef90_L7FKN7
UniRef90_Q5CF07
UniRef90_UPI0003773D4E
UniRef90_W5F840
UniRef90_T1CGV0
UniRef90_A0DAP8
UniRef90_UPI0002B41FD5
UniRef90_H9GSU8
UniRef90_G3IPQ2
UniRef90_M1C7Z1
UniRef90_F1LV51
UniRef90_S9Y8Q6
UniRef90_L9KKF4
UniRef90_B1L784
UniRef90_UPI00035C2569
UniRef90_Q3LVV0
UniRef90_L8IDM2
UniRef90_W3XGC5
UniRef90_UPI0003EDD25E
UniRef90_K4DP84
UniRef90_K4CSN2
UniRef90_X1V9B7
UniRef90_L5JZI2
UniRef90_L8H577
UniRef90_N6UW67
UniRef90_X1IH11
UniRef90_H0ABN8
UniRef90_R0H121
lupas_21
lupas_14
lupas_28
jnet

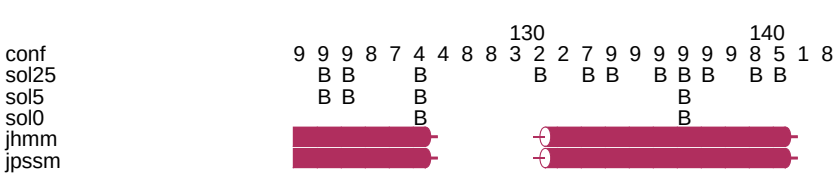
```
                                                  130                                                 140
UniRef90_D6GWY1          E L Y R K I K G N T F H S V N H M R N Y I E
UniRef90_G1TKS7          I L Y L K V K G N V F K K K W I L M E N N H
UniRef90_Q9YF93          R L Y M L A K G G T F R D L A S L K R Y M
UniRef90_I0A0I5          R Y Y K L A K G G A F S S L S V L R M H I E
UniRef90_M7U2H1          N L Y R K A K G G E F R S V A E L E R Y I
UniRef90_A0A023ELN9      D L Y M R A K G N V F K N K R I L M E H I H
UniRef90_T0LVB2          K F Y V Q V K G G N I H S R A Q L V Q H M K S
UniRef90_B9SWV5          Y M Y I K V K G N A F R N K R V L M E S I H
UniRef90_E1QQR1          E L Y L Q V K G G R F D S V S S L R A Y L I S
UniRef90_UPI00036CDE30   K L Y L Q V K A G R F K S I A D I R N
UniRef90_UPI000381F97D   E M R L K V K G G F F R T R K H I S L Y L K
UniRef90_Q673R0          Y Y Y R K A K G G S Y R S I A H M R S N M E
UniRef90_S0AQT0          K Y Y R T I K S G S F S S R A Q L V S H L K T
UniRef90_T0MUE8          K Y Y R V I K G G S V R S R A Q L R T Q L K A
UniRef90_M7ZPV2              Y L K V K G N M F K N K L V L M E S I
UniRef90_L2GLW0          M Y Y V Q A K G N L F K N K N V M L D A I
UniRef90_Q6QI82          S L D L K V K G N V F K N K W S L V D H I H
UniRef90_C3MQ77          E L Y L K A K G G N Y K G V S D V R N
UniRef90_UPI00037C8A57   K L Y L E S K A G V F K S L R D V K
UniRef90_J9DSJ8          K L Y M Q A K G N L F K N N K V L I E Y I E
UniRef90_Q12ZT3          K A Y R K A K G G E Y K N L A H M E T H L N
UniRef90_W7KXC7          L F Y R K A K G G T F K S L A D L R N
UniRef90_H0AC42          K L Y D M S K G G F F R D V K H L E N
UniRef90_V6ARP0          N L Y R K V G G N T V R N I A H L R T L I D
UniRef90_F4G1P4          M L Y M K S K G G T F K S L S D V K
UniRef90_U3JCS5          S L Y L K V K G N V F K N K R I L M E H I H
UniRef90_R1E564          D L Y K R A K S N E F K S K R A I L I Y L K
UniRef90_X6MIR9          R L Y L K A K G N A F K N R A N L I E L S H
UniRef90_A0RUF8          A L Y K K V G G N T V R N K A H L
UniRef90_T0YD37          Q Y Y R M I K G G S I K S R A Q L R M H L K
UniRef90_A4YCY4          T L Y I K A K G G T F K N L N D V K T L L K
UniRef90_M3ZB31          S L Y L K V K G N V F K N K Q I L M E H I H
UniRef90_T0N3L7          K Y Y R I V K G G T I K S R A Q L R S Q I
UniRef90_UPI0003446D00   S L Y L K V K E N V F K N K L I F M K H I H
UniRef90_UPI0003598E25   S L Y L K V K G N V F K N K R I L M E H I H
UniRef90_U5GY11          E L Y L K A K G N V F K N K R V L M D H I H
UniRef90_E5SHV7          D L Y L K A K G N T F K N K R V L M E Y I
UniRef90_Q9HIS5          K Y Y R F I K S G S I R S R S Q L L S H L K S
UniRef90_D2DSZ5
UniRef90_W9RW87          D M Y M K V K G N V F K N K R V L M E S I H
UniRef90_UPI0003443C91   S L Y L K V K G N V F K N K R I L M E H I H
UniRef90_S7WBY9          M Y Y Q K T K G N G Y K N S A A L M G A I K
UniRef90_U6KP54          K L Y V R C K G N Q F K N K R V L I E A I H
UniRef90_B3TBX5          A L Y K K I G G N T V R N I A H L R T L I D
UniRef90_G1L2J6          S L H P K A K D Y V F A N E W I L V E H I
UniRef90_A0A031LN43      Q M Y K K S K G G A Y N N L N E V R A Q L
UniRef90_Q6L1A9          R Y Y R I I K S G S F V S R A Q L R N H I Q A
UniRef90_A5Z1P1
UniRef90_C7DIU5          Q F Y R L V K G G T F Q T K V S L I N H I K
UniRef90_Q975J8          L A Y R K A K G N S F R N L S D V K N Y L K
UniRef90_L9KPF8
UniRef90_M4EX11          D M Y M R V K G N V F K N K R V L M E S I H
UniRef90_K0INE6          Q L Y K K V N G G Q V R S L A H L R E L V K
UniRef90_W5B6F9          D M Y L K V
UniRef90_W5EGD2          Q L Y L K S K G N E F K N K
UniRef90_S5YU61
UniRef90_A8M9I4          N L Y R M A K G G Y F E S L A H L R T Y M
UniRef90_L7FKN7          D F Y M M V K G N Q F K N K K A L A E A I
UniRef90_Q5CF07          Q F Y L K S K G N Q Y K N K R V L I E A I H
UniRef90_UPI0003773D4E   K L R K Y V K A G V I T T K S K I R A Y I E S
UniRef90_W5F840          D M Y L K V K
UniRef90_T1CGV0          K F Y A L V K G G S F Q T K M T L I N H I K S
UniRef90_A0DAP8
UniRef90_UPI0002B41FD5   Q M Y I R V K G N V Y K N K R V L M E S I H
UniRef90_H9GSU8          S L Y L K V K G N V F K N K Q I L M E H I H
UniRef90_G3IPQ2
UniRef90_M1C7Z1          D M Y M K V K
UniRef90_F1LV51          S L S L K V K G N N   K T K R I L I K Q I H
UniRef90_S9Y8Q6
UniRef90_L9KKF4
UniRef90_B1L784          E L Y   A K L S S F N S V S Q L R A H V
UniRef90_UPI00035C2569   T I R N Y I K A G V I D S K A K I K S F I
UniRef90_Q3LVV0          I L F S K I K G N F F S S T K H L L E H M K
UniRef90_L8IDM2
UniRef90_W3XGC5          E L Y H S S K G N A F K H K R A L V E H I H
UniRef90_UPI0003EDD25E   S L Y L K G K G Y V F T N K R I L V E H I H
UniRef90_K4DP84          E L Y V K A K G N V F R N K R N L M E H I H
UniRef90_K4CSN2          D M Y M K V K G N V F K N K R V L M E
UniRef90_X1V9B7          E I R K K I R N R L F K S K A H L K E Y I
UniRef90_L5JZI2          G L Y L K V K G N V F K N K Q I L V E H I H
UniRef90_L8H577
UniRef90_N6UW67          K L Y R M A K G G A F R S R A H L F L Y M K
UniRef90_X1IH11          D I R K K I R N K I F R S K S H L K E Y I
UniRef90_H0ABN8
UniRef90_R0H121          D M F M K V K G           K R V L I E S M H
```

lupas_21
lupas_14
lupas_28
jnet


1 10 20 30 40
conf 1 9 9 5 7 9 9 9 9 9 9 9 8 5 1 7 8 8 7 1 4 5 2 4 4 1 5 8 9 8 8 7 5 3 7 7 3 5 5 8
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 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 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 B B B
jhmm
jpssm


50
60
70
80
conf 8 8 8 7 3 5 5 1 6 7 7 4 1 6 7 8 7 6 2 7 8 9 9 9 9 9 9 8 6 7 2 2 3 6 7 7 7 7 7 7
sol25 B B B B B B B B B B B
sol5 B B
sol0
jhmm
jpssm


90
100
110
120
conf 7 7 7 7 7 7 7 6 3 0 7 8 8 8 6 2 7 9 9 9 9 9 9 9 9 9 8 6 1 5 8 8 7 4 6 8 9 9 9
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 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 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 B B B B B B B B B B
jhmm
jpssm


130
140
conf 9 9 9 8 7 4 4 8 8 3 2 2 7 9 9 9 9 9 9 8 5 1 8
sol25 B B B B B B B B B B B
sol5 B B B B
sol0 B B
jhmm
jpssm