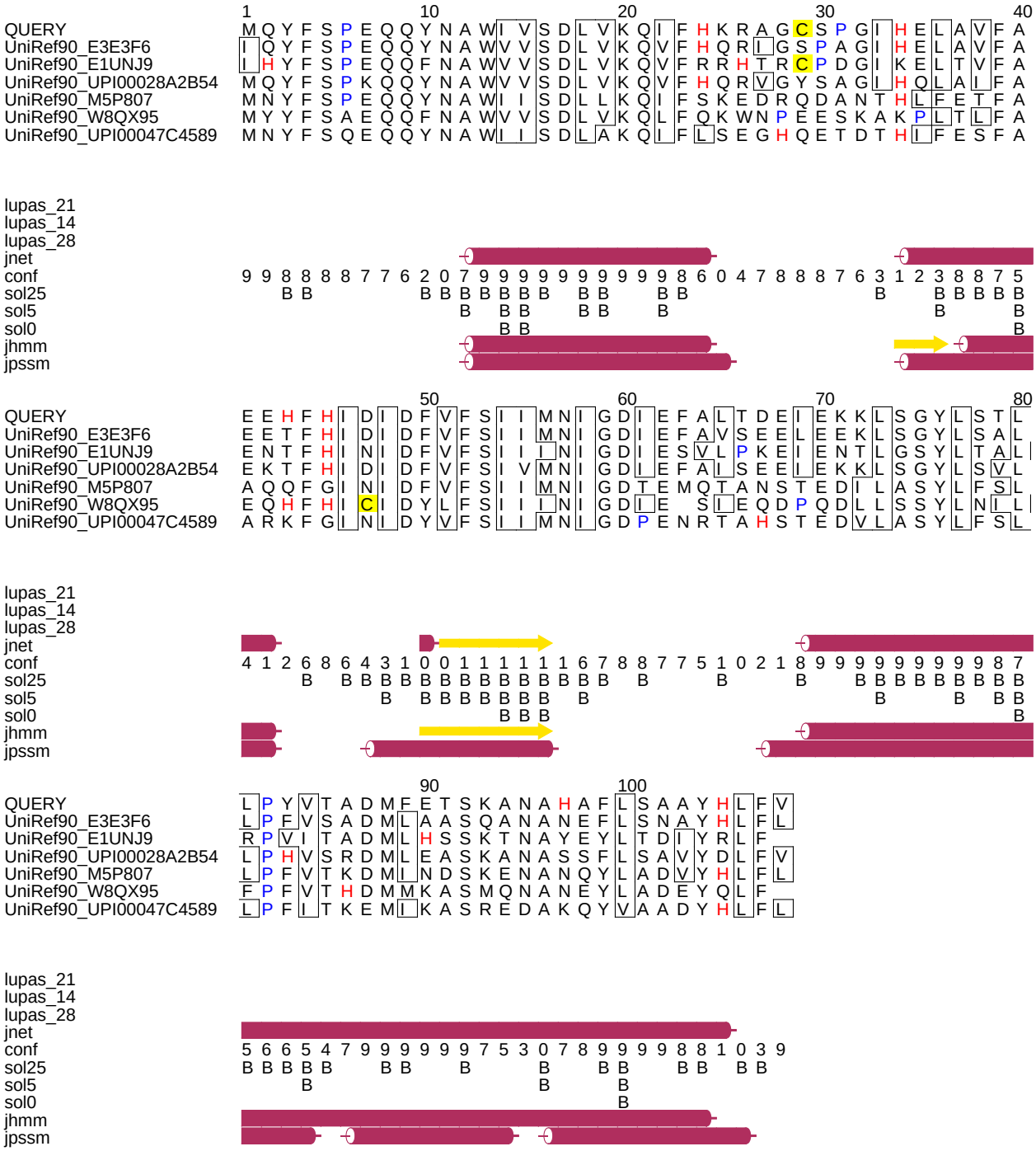

```
                                  1                   10                  20                  30                  40
QUERY                             M Q Y F S P E Q Q Y N A W I V S D L V K Q I F H K R A G C S P G I H E L A V F A
UniRef90_E3E3F6                   I Q Y F S P E Q Q Y N A W V V S D L V K Q V F H Q R I G S P A G I H E L A V F A
UniRef90_E1UNJ9                   I H Y F S P E Q Q F N A W V V S D L V K Q V F R R H T R C P D G I K E L T V F A
UniRef90_UPI00028A2B54            M Q Y F S P K Q Q Y N A W V V S D L V K Q V F H Q R V G Y S A G I H Q L A I F A
UniRef90_M5P807                   M N Y F S P E Q Q Y N A W I I S D L L K Q I F S K E D R Q D A N T H L F E T F A
UniRef90_W8QX95                   M Y Y F S A E Q Q F N A W V V S D L V K Q L F Q K W N P E E S K A K P L T L F A
UniRef90_UPI00047C4589            M N Y F S Q E Q Q Y N A W I I S D L A K Q I F L S E G H Q E T D T H I F E S F A

lupas_21
lupas_14
lupas_28
jnet
conf                              9 9 8 8 8 8 7 7 6 2 0 7 9 9 9 9 9 9 9 9 9 8 6 0 4 7 8 8 8 7 6 3 1 2 3 8 8 7 5
sol25                                 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
sol0                                                        B B                                               B
jhmm
jpssm

                                                  50                  60                  70                  80
QUERY                             E E H F H I D I D F V F S I I M N I G D I E F A L T D E I E K K L S G Y L S T L
UniRef90_E3E3F6                   E E T F H I D I D F V F S I I M N I G D I E F A V S E E L E E K L S G Y L S A L
UniRef90_E1UNJ9                   E N T F H I N I D F V F S I I I N I G D I E S V L P K E I E N T L G S Y L T A L
UniRef90_UPI00028A2B54            E K T F H I D I D F V F S I V M N I G D I E F A I S E E I E K K L S G Y L S V L
UniRef90_M5P807                   A Q Q F G I N I D F V F S I I M N I G D T E M Q T A N S T E D I L A S Y L F S L
UniRef90_W8QX95                   E Q H F H I C I D Y L F S I I I N I G D I E   S I E Q D P Q D L L S S Y L N I L
UniRef90_UPI00047C4589            A R K F G I N I D Y V F S I I M N I G D P E N R T A H S T E D V L A S Y L F S L

lupas_21
lupas_14
lupas_28
jnet
conf                              4 1 2 6 8 6 4 3 1 0 0 1 1 1 1 1 1 6 7 8 8 7 7 5 1 0 2 1 8 9 9 9 9 9 9 9 9 8 7
sol25                                 B   B B B B B B B B B B B B B   B       B       B     B B B B B B B B B
sol5                                          B   B B B B B B B   B                         B       B   B B
sol0                                                    B B B                                             B
jhmm
jpssm

                                                  90                  100
QUERY                             L P Y V T A D M F E T S K A N A H A F L S A A Y H L F V
UniRef90_E3E3F6                   L P F V S A D M L A A S Q A N A N E F L S N A Y H L F L
UniRef90_E1UNJ9                   R P V I T A D M L H S S K T N A Y E Y L T D I Y R L F
UniRef90_UPI00028A2B54            L P H V S R D M L E A S K A N A S S F L S A V Y D L F V
UniRef90_M5P807                   L P F V T K D M I N D S K E N A N Q Y L A D V Y H L F L
UniRef90_W8QX95                   F P F V T H D M M K A S M Q N A N E Y L A D E Y Q L F
UniRef90_UPI00047C4589            L P F I T K E M I K A S R E D A K Q Y V A A D Y H L F L

lupas_21
lupas_14
lupas_28
jnet
conf                              5 6 6 5 4 7 9 9 9 9 9 9 7 5 3 0 7 8 9 9 9 9 8 8 1 0 3 9
sol25                             B B B B B     B B     B       B     B B     B B   B B
sol5                                  B                         B       B
sol0                                                                B
jhmm
jpssm
```