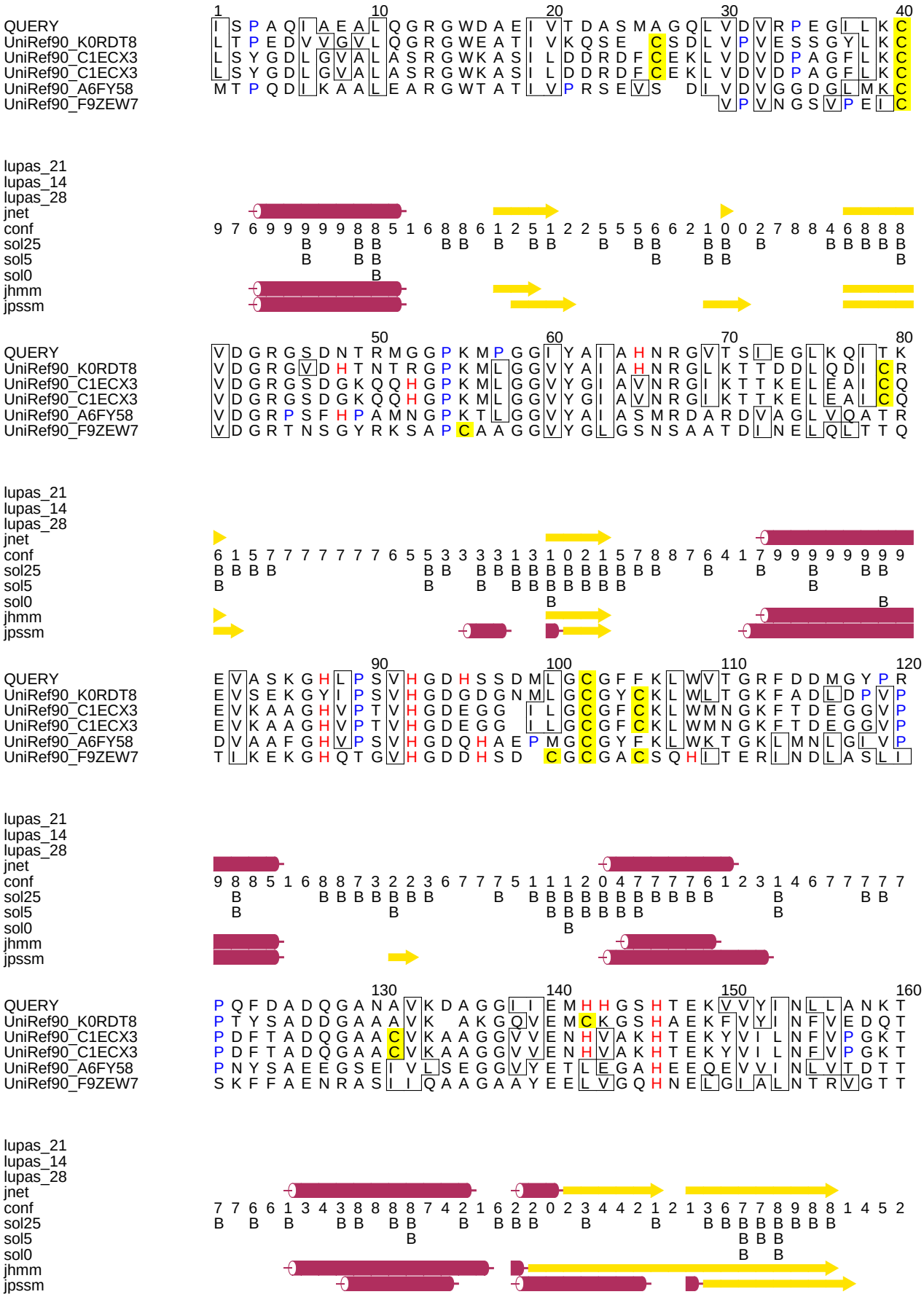
1 10 20 30 40
QUERY I S P A Q I A E A L Q G R G W D A E I V T D A S M A G Q L V D V R P E G I L K C
UniRef90_K0RDT8 L T P E D V V G V L Q G R G W E A T I V K Q S E C S D L V P V E S S G Y L K C
UniRef90_C1ECX3 L S Y G D L G V A L A S R G W K A S I L D D R D F C E K L V D V D P A G F L K C
UniRef90_C1ECX3 L S Y G D L G V A L A S R G W K A S I L D D R D F C E K L V D V D P A G F L K C
UniRef90_A6FY58 M T P Q D I K A A L E A R G W T A T I V P R S E V S D I V D V G G D G L M K C
UniRef90_F9ZEW7 V P V N G S V P E I C
lupas_21
lupas_14
lupas_28
jnet
conf 9 7 6 9 9 9 9 9 8 8 5 1 6 8 8 6 1 2 5 1 2 2 5 5 5 6 6 2 1 0 0 2 7 8 8 4 6 8 8 8
sol25 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
sol0 B
jhmm
jpssm
50 60 70 80
QUERY V D G R G S D N T R M G G P K M P G G I Y A I A H N R G V T S I E G L K Q I T K
UniRef90_K0RDT8 V D G R G V D H T N T R G P K M L G G V Y A I A H N R G L K T T D D L Q D I C R
UniRef90_C1ECX3 V D G R G S D G K Q Q H G P K M L G G V Y G I A V N R G I K T T K E L E A I C Q
UniRef90_C1ECX3 V D G R G S D G K Q Q H G P K M L G G V Y G I A V N R G I K T T K E L E A I C Q
UniRef90_A6FY58 V D G R P S F H P A M N G P K T L G G V Y A I A S M R D A R D V A G L V Q A T R
UniRef90_F9ZEW7 V D G R T N S G Y R K S A P C A A G G V Y G L G S N S A A T D I N E L Q L T T Q
lupas_21
lupas_14
lupas_28
jnet
conf 6 1 5 7 7 7 7 7 7 7 6 5 5 3 3 3 3 1 3 1 0 2 1 5 7 8 8 7 6 4 1 7 9 9 9 9 9 9 9 9
sol25 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
sol0 B B
jhmm
jpssm
90 100 110 120
QUERY E V A S K G H L P S V H G D H S S D M L G C G F F K L W V T G R F D D M G Y P R
UniRef90_K0RDT8 E V S E K G Y I P S V H G D G D G N M L G C G Y C K L W L T G K F A D L D P V P
UniRef90_C1ECX3 E V K A A G H V P T V H G D E G G I L G C G F C K L W M N G K F T D E G G V P
UniRef90_C1ECX3 E V K A A G H V P T V H G D E G G I L G C G F C K L W M N G K F T D E G G V P
UniRef90_A6FY58 D V A A F G H V P S V H G D Q H A E P M G C G Y F K L W K T G K L M N L G I V P
UniRef90_F9ZEW7 T I K E K G H Q T G V H G D D H S D C G C G A C S Q H I T E R I N D L A S L I
lupas_21
lupas_14
lupas_28
jnet
conf 9 8 8 5 1 6 8 8 7 3 2 2 3 6 7 7 7 5 1 1 1 2 0 4 7 7 7 7 6 1 2 3 1 4 6 7 7 7 7 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
sol5 B B B B B B B B B B B B
sol0 B
jhmm
jpssm
130 140 150 160
QUERY P Q F D A D Q G A N A V K D A G G I I E M H H G S H T E K V V Y I N L L A N K T
UniRef90_K0RDT8 P T Y S A D D G A A A V K A K G Q V E M C K G S H A E K F V Y I N F V E D Q T
UniRef90_C1ECX3 P D F T A D Q G A A C V K A A G G V V E N H V A K H T E K Y V I L N F V P G K T
UniRef90_C1ECX3 P D F T A D Q G A A C V K A A G G V V E N H V A K H T E K Y V I L N F V P G K T
UniRef90_A6FY58 P N Y S A E E G S E I V L S E G G V Y E T L E G A H E E Q E V V I N L V T D T T
UniRef90_F9ZEW7 S K F F A E N R A S I I Q A A G A A Y E E L V G Q H N E L G I A L N T R V G T T
lupas_21
lupas_14
lupas_28
jnet
conf 7 7 6 6 1 3 4 3 8 8 8 8 7 4 2 1 6 2 2 0 2 3 4 4 2 1 2 1 3 6 7 7 8 9 8 8 1 4 5 2
sol25 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
sol0 B B
jhmm
jpssm

```
                                    170                 180                 190                 200
QUERY              L E P N E N D Q R F I V D G W A A D K F G L D V P K F L I A A A A T V E M L G G
UniRef90_K0RDT8    I E P N H D D Q K F V V D A W A A M K F D L D V P S Y L V T A A A T V E R L G G
UniRef90_C1ECX3    F V P N G K D Q R F I V D C W A L G K F N L D I T K Y A L T A A A T V E K L N C
UniRef90_C1ECX3    F V P N G K D Q R F I V D C W A L G K F N L D I T K Y A L T A A A T V E K L N C
UniRef90_A6FY58    F E P S R E S Q R F V V D A W I T D K F N I D A G R Y L T V A A K T V E L L S D
UniRef90_F9ZEW7    V D R S A I R S K F V V D A W A
```

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

```
QUERY              P K N A K I V V P
UniRef90_K0RDT8    P K I A K L V V P
UniRef90_C1ECX3    P WK A Y I V T P
UniRef90_C1ECX3    P WK A Y I V T P
UniRef90_A6FY58    V R K A R I I V
UniRef90_F9ZEW7
```

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