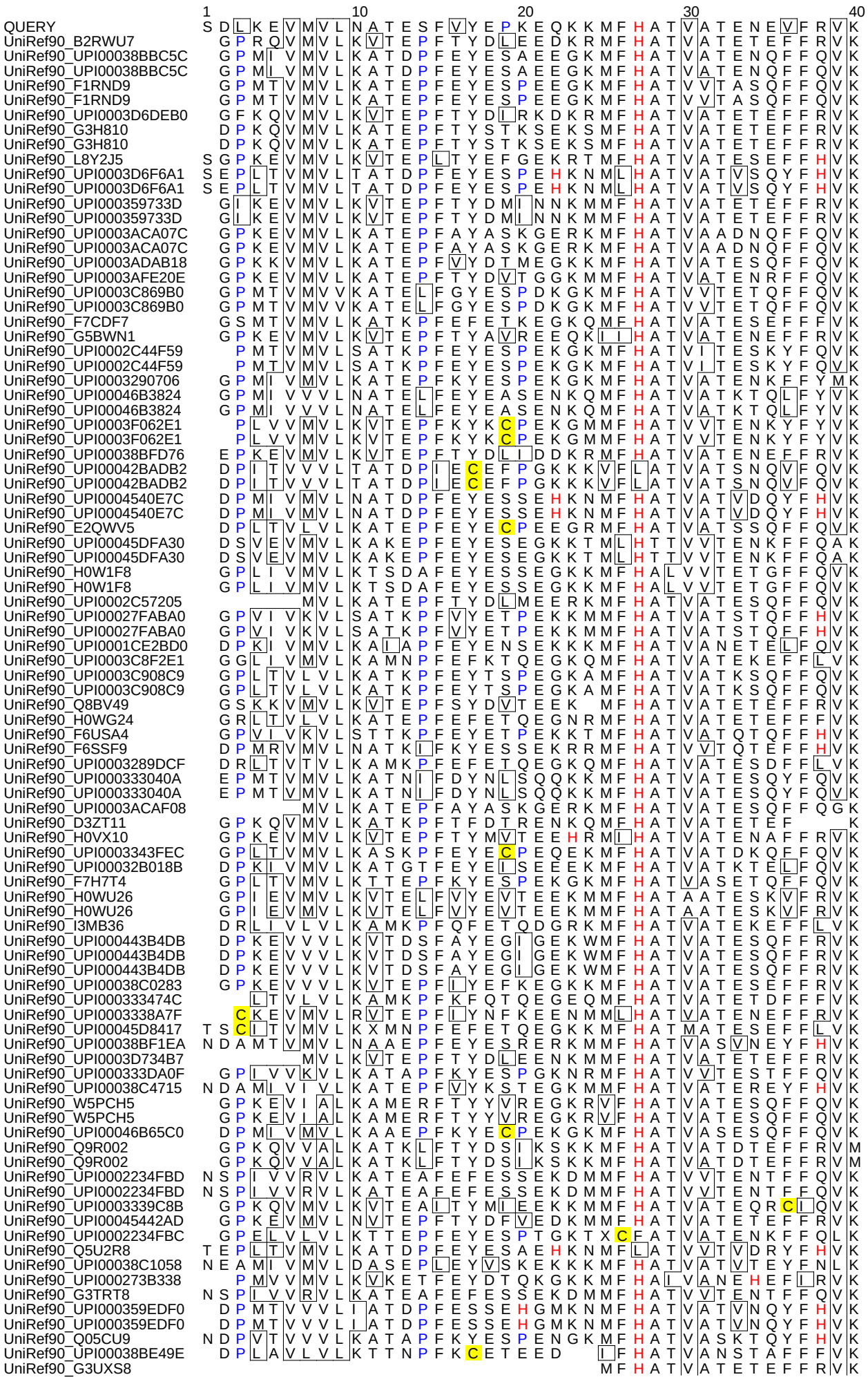
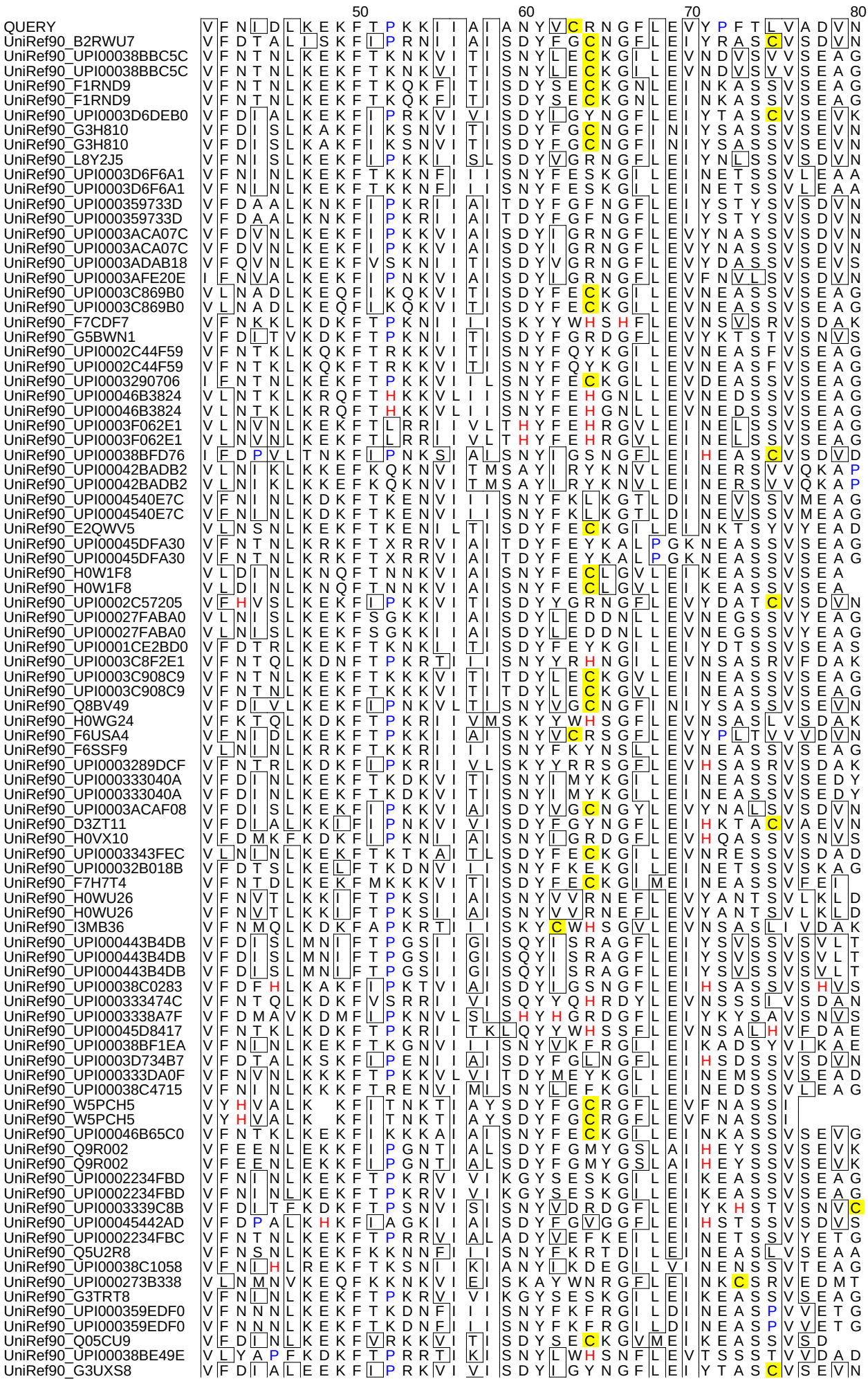
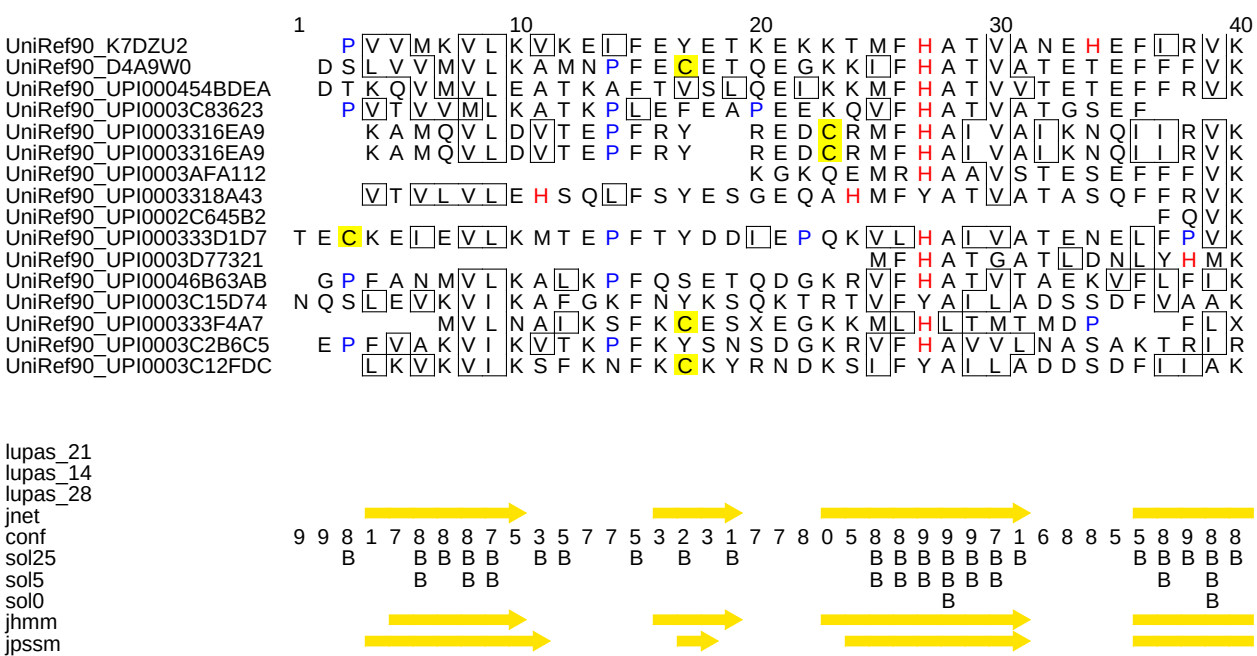
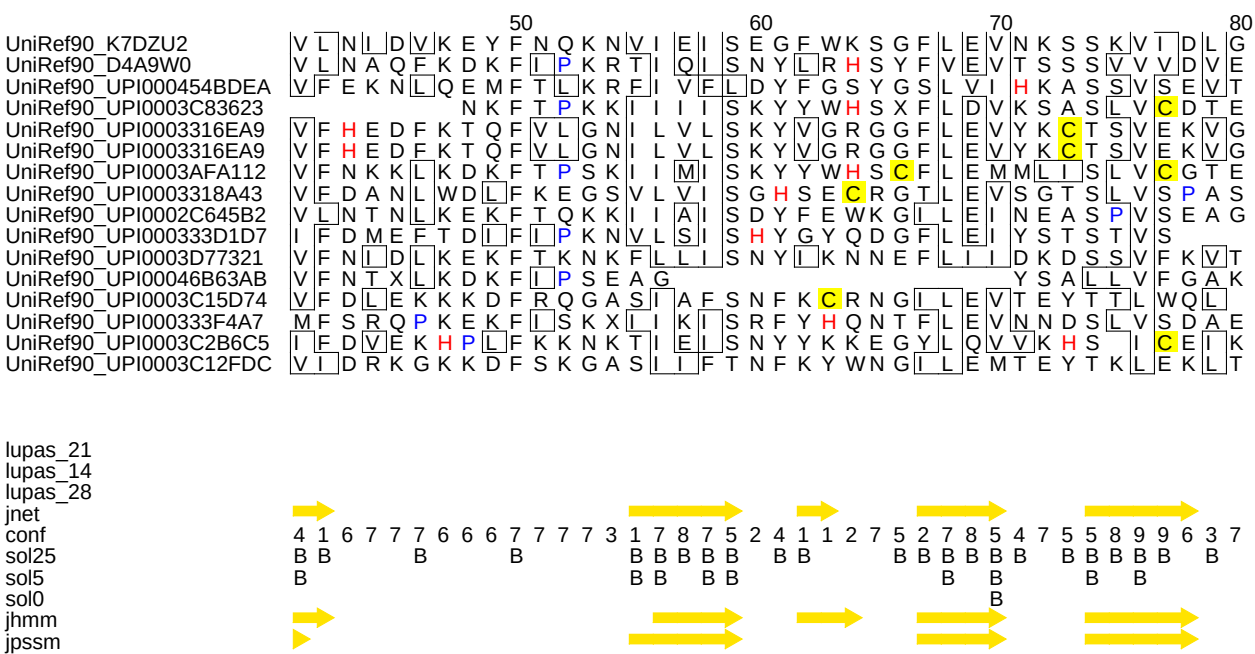
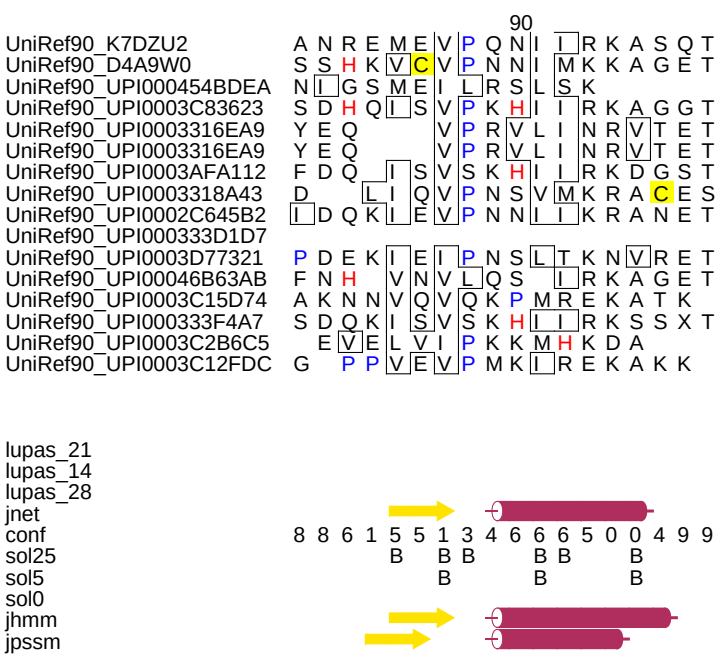

1 10 20 30 40
QUERY S D L K E V M V L N A T E S F V Y E P K E Q K K M F H A T V A T E N E V F R V K
UniRef90_B2RWU7 G P R Q V M V L K V T E P F T Y D L E E D K R M F H A T V A T E T E F F R V K
UniRef90_UPI00038BBC5C G P M I V M V L K A T D P F E Y E S A E E G K M F H A T V A T E N Q F F Q V K
UniRef90_UPI00038BBC5C G P M I V M V L K A T D P F E Y E S A E E G K M F H A T V A T E N Q F F Q V K
UniRef90_F1RND9 G P M T V M V L K A T E P F E Y E S P E E G K M F H A T V V T A S Q F F Q V K
UniRef90_F1RND9 G P M T V M V L K A T E P F E Y E S P E E G K M F H A T V V T A S Q F F Q V K
UniRef90_UPI0003D6DEB0 G F K Q V M V L K V T E P F T Y D I R K D K R M F H A T V A T E T E F F R V K
UniRef90_G3H810 D P K Q V M V L K A T E P F T Y S T K S E K S M F H A T V A T E T E F F R V K
UniRef90_G3H810 D P K Q V M V L K A T E P F T Y S T K S E K S M F H A T V A T E T E F F R V K
UniRef90_L8Y2J5 S G P K E V M V L K V T E P L T Y E F G E K R T M F H A T V A T E S E F F H V K
UniRef90_UPI0003D6F6A1 S E P L T V M V L T A T D P F E Y E S P E H K N M L H A T V A T V S Q Y F H V K
UniRef90_UPI0003D6F6A1 S E P L T V M V L T A T D P F E Y E S P E H K N M L H A T V A T V S Q Y F H V K
UniRef90_UPI000359733D G I K E V M V L K V T E P F T Y D M I N N K M M F H A T V A T E T E F F R V K
UniRef90_UPI000359733D G I K E V M V L K V T E P F T Y D M I N N K M M F H A T V A T E T E F F R V K
UniRef90_UPI0003ACA07C G P K E V M V L K A T E P F A Y A S K G E R K M F H A T V A A D N Q F F Q V K
UniRef90_UPI0003ACA07C G P K E V M V L K A T E P F A Y A S K G E R K M F H A T V A A D N Q F F Q V K
UniRef90_UPI0003ADAB18 G P K K V M V L K A T E P F V Y D T M E G K K M F H A T V A T E S Q F F Q V K
UniRef90_UPI0003AFE20E G P K E V M V L K A T E P F T Y D V T G G K M M F H A T V A T E N R F F Q V K
UniRef90_UPI0003C869B0 G P M T V M V V K A T E L F G Y E S P D K G K M F H A T V V T E T Q F F Q V K
UniRef90_UPI0003C869B0 G P M T V M V V K A T E L F G Y E S P D K G K M F H A T V V T E T Q F F Q V K
UniRef90_F7CDF7 G S M T V M V L K A T K P F E F E T K E G K Q M F H A T V A T E S E F F F V K
UniRef90_G5BWN1 G P K E V M V L K V T E P F T Y A V R E E Q K I I H A T V A T E N E F F R V K
UniRef90_UPI0002C44F59 P M T V M V L S A T K P F E Y E S P E K G K M F H A T V I T E S K Y F Q V K
UniRef90_UPI0002C44F59 P M T V M V L S A T K P F E Y E S P E K G K M F H A T V I T E S K Y F Q V K
UniRef90_UPI0003290706 G P M I V M V L K A T E P F K Y E S P E K G K M F H A T V A T E N K F F Y M K
UniRef90_UPI00046B3824 G P M I V V V L N A T E L F E Y E A S E N K Q M F H A T V A T K T Q L F Y V K
UniRef90_UPI00046B3824 G P M I V V V L N A T E L F E Y E A S E N K Q M F H A T V A T K T Q L F Y V K
UniRef90_UPI0003F062E1 P L V V M V L K V T E P F K Y K C P E K G M M F H A T V V T E N K Y F Y V K
UniRef90_UPI0003F062E1 P L V V M V L K V T E P F K Y K C P E K G M M F H A T V V T E N K Y F Y V K
UniRef90_UPI00038BFD76 E P K E V M V L K V T E P F T Y D L I D D K R M F H A T V A T E N E F F R V K
UniRef90_UPI00042BADB2 D P I T V V V L T A T D P I E C E F P G K K K V F L A T V A T S N Q V F Q V K
UniRef90_UPI00042BADB2 D P I T V V V L T A T D P I E C E F P G K K K V F L A T V A T S N Q V F Q V K
UniRef90_UPI0004540E7C D P M I V M V L N A T D P F E Y E S S E H K N M F H A T V A T V D Q Y F H V K
UniRef90_UPI0004540E7C D P M I V M V L N A T D P F E Y E S S E H K N M F H A T V A T V D Q Y F H V K
UniRef90_E2QWV5 D P L T V L V L K A T E P F E Y E C P E E G R M F H A T V A T S S Q F F Q V K
UniRef90_UPI00045DFA30 D S V E V M V L K A K E P F E Y E S E G K K T M L H T T V V T E N K F F Q A K
UniRef90_UPI00045DFA30 D S V E V M V L K A K E P F E Y E S E G K K T M L H T T V V T E N K F F Q A K
UniRef90_H0W1F8 G P L I V M V L K T S D A F E Y E S S E G K K M F H A L V V T E T G F F Q V K
UniRef90_H0W1F8 G P L I V M V L K T S D A F E Y E S S E G K K M F H A L V V T E T G F F Q V K
UniRef90_UPI0002C57205 M V L K A T E P F T Y D L M E E R K M F H A T V A T E S Q F F Q V K
UniRef90_UPI00027FABA0 G P V I V K V L S A T K P F V Y E T P E K K M M F H A T V A T S T Q F F H V K
UniRef90_UPI00027FABA0 G P V I V K V L S A T K P F V Y E T P E K K M M F H A T V A T S T Q F F H V K
UniRef90_UPI0001CE2BD0 D P K I V M V L K A I A P F E Y E N S E K K K M F H A T V A N E T E L F Q V K
UniRef90_UPI0003C8F2E1 G G L I V M V L K A M N P F E F K T Q E G K Q M F H A T V A T E K E F F L V K
UniRef90_UPI0003C908C9 G P L T V L V L K A T K P F E Y T S P E G K A M F H A T V A T K S Q F F Q V K
UniRef90_UPI0003C908C9 G P L T V L V L K A T K P F E Y T S P E G K A M F H A T V A T K S Q F F Q V K
UniRef90_Q8BV49 G S K K V M V L K V T E P F S Y D V T E E K M F H A T V A T E T E F F R V K
UniRef90_H0WG24 G R L T V L V L K A T E P F E F E T Q E G N R M F H A T V A T E T E F F F V K
UniRef90_F6USA4 G P V I V K V L S T T K P F E Y E T P E K K T M F H A T V A T Q T Q F F H V K
UniRef90_F6SSF9 D P M R V M V L N A T K I F K Y E S S E K R R M F H A T V V T Q T E F F H V K
UniRef90_UPI0003289DCF D R L T V T V L K A M K P F E F E T Q E G K Q M F H A T V A T E S D F F L V K
UniRef90_UPI000333040A E P M T V M V L K A T N I F D Y N L S Q Q K K M F H A T V A T E S Q Y F Q V K
UniRef90_UPI000333040A E P M T V M V L K A T N I F D Y N L S Q Q K K M F H A T V A T E S Q Y F Q V K
UniRef90_UPI0003ACAF08 M V L K A T E P F A Y A S K G E R K M F H A T V A T E S Q F F Q G K
UniRef90_D3ZT11 G P K Q V M V L K A T K P F T F D T R E N K Q M F H A T V A T E T E F K
UniRef90_H0VX10 G P K E V M V L K V T E P F T Y M V T E E K H M I H A T V A T E N A F F R V K
UniRef90_UPI0003343FEC G P L T V M V L K A S K P F E Y E C P E Q E K M F H A T V A T D K Q F F Q V K
UniRef90_UPI00032B018B D P K I V M V L K A T G T F E Y E I S E E E K M F H A T V A T K T E L F Q V K
UniRef90_F7H7T4 G P L T V M V L K T T E P F K Y E S P E K G K M F H A T V A S E T Q F F Q V K
UniRef90_H0WU26 G P I E V M V L K V T E L F V Y E V T E E K M M F H A T A A T E S K V F R V K
UniRef90_H0WU26 G P I E V M V L K V T E L F V Y E V T E E K M M F H A T A A T E S K V F R V K
UniRef90_I3MB36 D R L I V L V L K A M K P F Q F E T Q D G R K M F H A T V A T E K E F F L V K
UniRef90_UPI000443B4DB D P K E V V V L K V T D S F A Y E G I G E K W M F H A T V A T E S Q F F R V K
UniRef90_UPI000443B4DB D P K E V V V L K V T D S F A Y E G I G E K W M F H A T V A T E S Q F F R V K
UniRef90_UPI000443B4DB D P K E V V V L K V T D S F A Y E G I G E K W M F H A T V A T E S Q F F R V K
UniRef90_UPI00038C0283 G P K E V V V L K V T E P F I Y E F K E G K K M F H A T V A T E S E F F R V K
UniRef90_UPI000333474C L T V L V L K A M K P F K F Q T Q E G E Q M F H A T V A T E T D F F F V K
UniRef90_UPI0003338A7F C K E V M V L R V T E P F I Y N F K E E N M M L H A T V A T E N E F F R V K
UniRef90_UPI00045D8417 T S C I T V M V L K X M N P F E F E T Q E G K K M F H A T M A T E S E F F L V K
UniRef90_UPI00038BF1EA N D A M T V M V L N A A E P F E Y E S R E R K M M F H A T V A S V N E Y F H V K
UniRef90_UPI0003D734B7 M V L K V T E P F T Y D L E E N K M M F H A T V A T E T E F F R V K
UniRef90_UPI000333DA0F G P I V V K V L K A T A P F K Y E S P G K N R M F H A T V V T E S T F F Q V K
UniRef90_UPI00038C4715 N D A M I V I V L K A T E P F V Y K S T E G K M M F H A T V A T E R E Y F H V K
UniRef90_W5PCH5 G P K E V I A L K A M E R F T Y Y V R E G K R V F H A T V A T E S Q F F Q V K
UniRef90_W5PCH5 G P K E V I A L K A M E R F T Y Y V R E G K R V F H A T V A T E S Q F F Q V K
UniRef90_UPI00046B65C0 D P M I V M V L K A A E P F K Y E C P E K G K M F H A T V A S E S Q F F Q V K
UniRef90_Q9R002 G P K Q V V A L K A T K L F T Y D S I K S K K M F H A T V A T D T E F F R V M
UniRef90_Q9R002 G P K Q V V A L K A T K L F T Y D S I K S K K M F H A T V A T D T E F F R V M
UniRef90_UPI0002234FBD N S P I V V R V L K A T E A F E F E S S E K D M M F H A T V V T E N T F F Q V K
UniRef90_UPI0002234FBD N S P I V V R V L K A T E A F E F E S S E K D M M F H A T V V T E N T F F Q V K
UniRef90_UPI0003339C8B G P K Q V M V L K V T E A I T Y M I E E K K M M F H A T V A T E Q R C I Q V K
UniRef90_UPI00045442AD G P K E V M V L N V T E P F T Y D F V E D K M M F H A T V A T E T E F F R V K
UniRef90_UPI0002234FBC G P E L V L V L K T T E P F E Y E S P T G K T X C F A T V A T E N K F F Q L K
UniRef90_Q5U2R8 T E P L T V M V L K A T D P F E Y E S A E H K N M F L A T V V T V D R Y F H V K
UniRef90_UPI00038C1058 N E A M I V M V L D A S E P L E Y V S K E K K K M F H A T V A T V T E Y F N L K
UniRef90_UPI000273B338 P M V V M V L K V K E T F E Y D T Q K G K K M F H A I V A N E H E F I R V K
UniRef90_G3TRT8 N S P I V V R V L K A T E A F E F E S S E K D M M F H A T V V T E N T F F Q V K
UniRef90_UPI000359EDF0 D P M T V V V L I A T D P F E S S E H G M K N M F H A T V A T V N Q Y F H V K
UniRef90_UPI000359EDF0 D P M T V V V L I A T D P F E S S E H G M K N M F H A T V A T V N Q Y F H V K
UniRef90_Q05CU9 N D P V T V V V L K A T A P F K Y E S P E N G K M F H A T V A S K T Q Y F H V K
UniRef90_UPI00038BE49E D P L A V L V L K T T N P F K C E T E E D I F H A T V A N S T A F F F V K
UniRef90_G3UXS8 M F H A T V A T E T E F F R V K


50
60
70
80
QUERY
UniRef90_B2RWU7
UniRef90_UPI00038BBC5C
UniRef90_UPI00038BBC5C
UniRef90_F1RND9
UniRef90_F1RND9
UniRef90_UPI0003D6DEB0
UniRef90_G3H810
UniRef90_G3H810
UniRef90_L8Y2J5
UniRef90_UPI0003D6F6A1
UniRef90_UPI0003D6F6A1
UniRef90_UPI000359733D
UniRef90_UPI000359733D
UniRef90_UPI0003ACA07C
UniRef90_UPI0003ACA07C
UniRef90_UPI0003ADAB18
UniRef90_UPI0003AFE20E
UniRef90_UPI0003C869B0
UniRef90_UPI0003C869B0
UniRef90_F7CDF7
UniRef90_G5BWN1
UniRef90_UPI0002C44F59
UniRef90_UPI0002C44F59
UniRef90_UPI0003290706
UniRef90_UPI00046B3824
UniRef90_UPI00046B3824
UniRef90_UPI0003F062E1
UniRef90_UPI0003F062E1
UniRef90_UPI00038BFD76
UniRef90_UPI00042BADB2
UniRef90_UPI00042BADB2
UniRef90_UPI0004540E7C
UniRef90_UPI0004540E7C
UniRef90_E2QWV5
UniRef90_UPI00045DFA30
UniRef90_UPI00045DFA30
UniRef90_H0W1F8
UniRef90_H0W1F8
UniRef90_UPI0002C57205
UniRef90_UPI00027FABA0
UniRef90_UPI00027FABA0
UniRef90_UPI0001CE2BD0
UniRef90_UPI0003C8F2E1
UniRef90_UPI0003C908C9
UniRef90_UPI0003C908C9
UniRef90_Q8BV49
UniRef90_H0WG24
UniRef90_F6USA4
UniRef90_F6SSF9
UniRef90_UPI0003289DCF
UniRef90_UPI000333040A
UniRef90_UPI000333040A
UniRef90_UPI0003ACAF08
UniRef90_D3ZT11
UniRef90_H0VX10
UniRef90_UPI0003343FEC
UniRef90_UPI00032B018B
UniRef90_F7H7T4
UniRef90_H0WU26
UniRef90_H0WU26
UniRef90_I3MB36
UniRef90_UPI000443B4DB
UniRef90_UPI000443B4DB
UniRef90_UPI000443B4DB
UniRef90_UPI00038C0283
UniRef90_UPI000333474C
UniRef90_UPI0003338A7F
UniRef90_UPI00045D8417
UniRef90_UPI00038BF1EA
UniRef90_UPI0003D734B7
UniRef90_UPI000333DA0F
UniRef90_UPI00038C4715
UniRef90_W5PCH5
UniRef90_W5PCH5
UniRef90_UPI00046B65C0
UniRef90_Q9R002
UniRef90_Q9R002
UniRef90_UPI0002234FBD
UniRef90_UPI0002234FBD
UniRef90_UPI0003339C8B
UniRef90_UPI00045442AD
UniRef90_UPI0002234FBC
UniRef90_Q5U2R8
UniRef90_UPI00038C1058
UniRef90_UPI000273B338
UniRef90_G3TRT8
UniRef90_UPI000359EDF0
UniRef90_UPI000359EDF0
UniRef90_Q05CU9
UniRef90_UPI00038BE49E
UniRef90_G3UXS8


1 10 20 30 40
UniRef90_K7DZU2 P V V M K V L K V K E I F E Y E T K E K K T M F H A T V A N E H E F I R V K
UniRef90_D4A9W0 D S L V V M V L K A M N P F E C E T Q E G K K I F H A T V A T E T E F F V K
UniRef90_UPI000454BDEA D T K Q V M V L E A T K A F T V S L Q E I K K M F H A T V V T E T E F F R V K
UniRef90_UPI0003C83623 P V T V V M L K A T K P L E F E A P E E K Q V F H A T V A T G S E F
UniRef90_UPI0003316EA9 K A M Q V L D V T E P F R Y R E D C R M F H A I V A I K N Q I I R V K
UniRef90_UPI0003316EA9 K A M Q V L D V T E P F R Y R E D C R M F H A I V A I K N Q I I R V K
UniRef90_UPI0003AFA112 K G K Q E M R H A A V S T E S E F F F V K
UniRef90_UPI0003318A43 V T V L V L E H S Q L F S Y E S G E Q A H M F Y A T V A T A S Q F F R V K
UniRef90_UPI0002C645B2 F Q V K
UniRef90_UPI000333D1D7 T E C K E I E V L K M T E P F T Y D D I E P Q K V L H A I V A T E N E L F P V K
UniRef90_UPI0003D77321 M F H A T G A T L D N L Y H M K
UniRef90_UPI00046B63AB G P F A N M V L K A L K P F Q S E T Q D G K R V F H A T V T A E K V F L F I K
UniRef90_UPI0003C15D74 N Q S L E V K V I K A F G K F N Y K S Q K T R T V F Y A I L A D S S D F V A A K
UniRef90_UPI000333F4A7 M V L N A I K S F K C E S X E G K K M L H L T M T M D P F L X
UniRef90_UPI0003C2B6C5 E P F V A K V I K V T K P F K Y S N S D G K R V F H A V V L N A S A K T R I R
UniRef90_UPI0003C12FDC L K V K V I K S F K N F K C K Y R N D K S I F Y A I L A D D S D F I I A K
lupas_21
lupas_14
lupas_28
jnet
conf 9 9 8 1 7 8 8 8 7 5 3 5 7 7 5 3 2 3 1 7 7 8 0 5 8 8 9 9 7 1 6 8 8 5 5 8 9 8 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
sol5 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
jhmm
jpssm


50
60
70
80
UniRef90_K7DZU2
UniRef90_D4A9W0
UniRef90_UPI000454BDEA
UniRef90_UPI0003C83623
UniRef90_UPI0003316EA9
UniRef90_UPI0003316EA9
UniRef90_UPI0003AFA112
UniRef90_UPI0003318A43
UniRef90_UPI0002C645B2
UniRef90_UPI000333D1D7
UniRef90_UPI0003D77321
UniRef90_UPI00046B63AB
UniRef90_UPI0003C15D74
UniRef90_UPI000333F4A7
UniRef90_UPI0003C2B6C5
UniRef90_UPI0003C12FDC
lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


90
UniRef90_K7DZU2 A N R E M E V P Q N I I R K A S Q T
UniRef90_D4A9W0 S S H K V C V P N N I M K K A G E T
UniRef90_UPI000454BDEA N I G S M E I L R S L S K
UniRef90_UPI0003C83623 S D H Q I S V P K H I I R K A G G T
UniRef90_UPI0003316EA9 Y E Q V P R V L I N R V T E T
UniRef90_UPI0003316EA9 Y E Q V P R V L I N R V T E T
UniRef90_UPI0003AFA112 F D Q I S V S K H I I R K D G S T
UniRef90_UPI0003318A43 D L I Q V P N S V M K R A C E S
UniRef90_UPI0002C645B2 I D Q K I E V P N N I I K R A N E T
UniRef90_UPI000333D1D7
UniRef90_UPI0003D77321 P D E K I E I P N S L T K N V R E T
UniRef90_UPI00046B63AB F N H V N V L Q S I R K A G E T
UniRef90_UPI0003C15D74 A K N N V Q V Q K P M R E K A T K
UniRef90_UPI000333F4A7 S D Q K I S V S K H I I R K S S X T
UniRef90_UPI0003C2B6C5 E V E L V I P K K M H K D A
UniRef90_UPI0003C12FDC G P P V E V P M K I R E K A K K
lupas_21
lupas_14
lupas_28
jnet
conf 8 8 6 1 5 5 1 3 4 6 6 6 5 0 0 4 9 9
sol25 B B B B B B
sol5 B B B
sol0
jhmm
jpssm