

A, *Nematostella*

JPRED

QUERY : APTTPSAVHGEEDKNKPHRKHEERERHHGRHGNSKKHRKHDEEDEPENEDFFGEPRSPAT : QUERY
UniRef90_A7RTM2 : APTTPSAVHGEEDKNKPHRKHEERERHHGRHGNSKKHRKHDEEDEPENEDFFGEPRSPAT :
1-----11-----21-----31-----41-----51----- :
OrigSeq : APTTPSAVHGEEDKNKPHRKHEERERHHGRHGNSKKHRKHDEEDEPENEDFFGEPRSPAT : OrigSeq

Jnet : -----HHHHHH----- : Jnet
jhmm : ----- : jhmm
jpssm : -----HHHHHHHHHH----- : jpssm

Lupas 14 : ----- : Lupas 14
Lupas 21 : ----- : Lupas 21
Lupas 28 : ----- : Lupas 28

Jnet_25 : -----B-B-----BB----- : Jnet_25
Jnet_5 : ----- : Jnet_5
Jnet_0 : ----- : Jnet_0
Jnet Rel : 9988877777777777650000000005777765535677776454221146777888 : Jnet Rel

PSIPRED

AA: Target sequence

Conf : 9988885137645799651258887520688996201467888887632234589999999
Pred : CCCCCCCCCCCCCCCCCCCCCC H H H H H H H H C
AA : A P T T P S A V H G E E D K N K P H R K H E E R E R H H G R H G N S K K H R K H D E E D E P E N E R D F F G E P R S P A

B, *Caenorhabditis e.*

JPRED

QUERY : SSSSTSSEDEDEDKNIKELRVDIEPIIDEPASFYRHDKLIQSPEVERSASSVFQP : QUERY
UniRef90_Q10651 : -----KNIKELRVDIEPIIDEPASFYRHDKLIQSPEVERSASSVFQP :
1-----11-----21-----31-----41-----51----- :
OrigSeq : SSSSTSSEDEDEDKNIKELRVDIEPIIDEPASFYRHDKLIQSPEVERSASSVFQP : OrigSeq

Jnet : -----HEEEE----- : Jnet
jhmm : -----HHEEEEE-----H----- : jhmm
jpssm : -----HHHHH-----HHH----- : jpssm

Lupas 14 : ----- : Lupas 14
Lupas 21 : ----- : Lupas 21
Lupas 28 : ----- : Lupas 28

Jnet_25 : -----B--B-B-B--BB--B-BB-B--BB--B--B--BB-- : Jnet_25
Jnet_5 : -----B----- : Jnet_5
Jnet_0 : ----- : Jnet_0
Jnet Rel : 99888777765565400000002330001466523345056677665667763478 : Jnet Rel

PSIPRED

Conf : 9888888888885566304100000003203358853100022456924441245554479
Pred : C C C C C C C C C C H H H H C C C C H H C C C C C C C C C C H H C C C C C C H H H H H C C C C C C C
AA : S S S S T S S E S D E D E D K N I K E L R V D I E P I I D E P A S F Y R H D K L I Q S P E V E R S A S S V F Q P

C, *Apis*

JPRED

QUERY : LRTEQAQQEESDSINDNKDIQQQPEQPAAMHSEGLVRAAHS�THDISHSEPGYSVRREMYHRESRS : QUERY
UniRef90_UPI00015B49D1 : -----HSEGLIRAHSMTHDVSHSEPSYSVRREYHRESR- :
1-----11-----21-----31-----41-----51-----61----- :
OrigSeq : LRTEQAQQEESDSINDNKDIQQQPEQPAAMHSEGLVRAAHS�THDISHSEPGYSVRREMYHRESRS : OrigSeq

Jnet : -----HHHHH-----HHHHHHHH-----HHHHHHHH----- : Jnet
jhmm : -----HHHHH-----HHHHHHH-----EEEEHHHH----- : jhmm
jpssm : -----HHHHHH-----HHHHHHHHHH-----HHHHHHHH----- : jpssm

Lupas 14 : ----- : Lupas 14
Lupas 21 : ----- : Lupas 21
Lupas 28 : ----- : Lupas 28

Jnet_25 : -----B-----B-----BB-B-B-BBB-BB--B--B-----B-B--BB----- : Jnet_25
Jnet_5 : -----BB-B--B--B----- : Jnet_5
Jnet_0 : -----B----- : Jnet_0
Jnet Rel : 99736776404677776543234356654564166665300036788776630000867621799 : Jnet Rel

PSIPRED

Conf : 9 0 3 8 8 7 7 6 5 4 1 1 3 4 5 7 6 3 2 3 4 7 9 8 7 5 1 2 1 2 1 2 4 5 7 8 8 7 6 6 3 1 2 4 5 7 7 6 8 9 8 7 1 3 5 5 6 5 5
Pred : C C H H H H H H H H C C C C C C C C C C C C C C H H H H H H H H H H H H C C C C C C C C C C H H H H H H
AA : L R T E Q A Q Q E E S D S I N D N K D I Q Q Q P E Q P A A M H S E G L V R A A H S L T H D I S H S E P G Y S V R R E M

Conf : 4 2 1 0 2 7 9
Pred : H H H C C C C
AA : Y H R E S R S

D, Drosophila wil.

JPRED

QUERY : ATVSTKVQTALPTVDDDAVQRAVEDVAAAVAHQEAEPQVQHFMTHDLGHRSSFSLRREFAHSHATKEGRN : QUERY
UniRef90_Q0IFC5 : ATISNSPQSTALPTVDDEAVQRAVEEVAAAVAHQEAEPKMQHILSHDTGHSEPTFSVRREIYG----- : UniRef90_Q0IFC5
UniRef90_Q7QCS9 : -----SPQPTALPTVDDEAVQRAVEEVAAAVAHQEAEPKMQHVLAHDIGHGEP----- : UniRef90_Q7QCS9

OrigSeq : 1-----11-----21-----31-----41-----51-----61-----71 : OrigSeq
ATVSTKVQTALPTVDDDAVQRAVEDVAAAVAHQEAEPQVQHFMTHDLGHRSSFSLRREFAHSHATKEGRN

Jnet : -----HHHHHHHHHHHHHHHH-----HHHH-----EHHHHHH----- : Jnet
jhmm : -----HHHHHHHHHHHHHHHH-----HHHH-----EEEHHHH----- : jhmm
jpssm : -----EEEE-----HHHHHHHHHHHHHHHH-----HHHHHH-----HHHHHHHH----- : jpssm

Lupas 14 : ----- : Lupas 14
Lupas 21 : ----- : Lupas 21
Lupas 28 : ----- : Lupas 28

Jnet_25 : --B-----BBBBB--BB--BB--BBBBBB--B--B--BB-B-B-----B-BB--BB----- : Jnet_25
Jnet_5 : -----B-----B-----B-----B----- : Jnet_5
Jnet_0 : ----- : Jnet_0
Jnet_Rel : 998887610000455701789999758998720257600554320678888763000076533677777888 : Jnet_Rel

PSIPRED

Conf : 9 4 1 3 6 6 5 2 0 2 4 6 7 6 6 7 6 9 9 9 9 9 9 9 9 9 9 9 9 6 4 1 3 1 1 2 1 1 3 5 5 6 5 4 1 2 6 8 8 8 8 7 3 1 3 4 3 5
Pred : C C C C C C C C C C C C C C C C H H H H H H H H H H H H H H H H H H C C H H H H H H H H H H C C C C C C C C H H H H H H
AA : A T V S S T K V Q T A L P T V D D D A V Q R A V E D V A A A V A H Q E A E P Q V Q H F M T H D L G H R E S S F S L R R

Conf : 4 4 2 1 4 5 6 3 2 4 6 9 9
Pred : H H H C C C C C C C C C
AA : E F A H S H A T K E G R N

E, Loligo

JPRED

QUERY : TEARPEQQEDIKTPGFDSETFEDERPAIAEQTIHDLPNHRKKGYIAHVQQQPMIADEVSLDNLANSCHAN : QUERY
UniRef90_Q06BR2 : TEARPEQQEDIKTPGFDSETFEDERPAIAEQTIHDLPNHRKKGYIAHVQQQPMIADEVSLDNLANSCHAN : UniRef90_Q06BR2

OrigSeq : 1-----11-----21-----31-----41-----51-----61----- : OrigSeq
TEARPEQQEDIKTPGFDSETFEDERPAIAEQTIHDLPNHRKKGYIAHVQQQPMIADEVSLDNLANSCHAN

Jnet : -----HHHHH-----EEEE----- : Jnet
jhmm : -----HHHH-----EEEE----- : jhmm
jpssm : -----HHHHH-----H-EE----- : jpssm

Lupas 14 : ----- : Lupas 14
Lupas 21 : ----- : Lupas 21
Lupas 28 : ----- : Lupas 28

Jnet_25 : -----B--B--B--B-BB--BB--B-----BBB--B-----BB--B-B--BBB----- : Jnet_25
Jnet_5 : -----B----- : Jnet_5
Jnet_0 : ----- : Jnet_0
Jnet_Rel : 9987642356777777777765677663066650046665000010005665334676456523567888 : Jnet_Rel

PSIPRED

Conf : 9 8 8 8 2 0 0 0 0 3 6 8 9 9 9 9 8 8 7 4 4 4 3 3 1 1 4 5 6 6 6 5 4 0 5 9 8 8 7 6 4 3 2 0 0 1 0 0 0 3 6 3 0 0 1 0 1 0 1
Pred : C C C C C C H H C C C C C C C C C C C C C C C C H H H H H H H H H H C C C C C C C C C C E E E C C C C C C C H H H H C C
AA : T E A R P E Q Q E D I K T P G F D S E T F E D E R P A I A E Q T I H D L P N H R K K G Y I A H V Q Q Q P M I A D E V S

Conf : 0 0 1 2 1 1 1 3 5 8 9
Pred : C H H H H H C C C C C
AA : L D N L Y A N S H A N

JPRED

PSIPRED

```
C o n f : 9 8 7 7 7 5 2 0 1 6 7      4 5 7 8 9 9 9 8 5 5 7 7 8 8 8 7 5 4 5 5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 5 7 7 2 3 5 5 3 1 7 9 8
P r e d : C C C C C C C C C C C C C C C C C C C C C C C C C C C C H H H F C C C C C G E E E E E E E E E E
A A : A N T E N E V E P V D A R P A A A D R G L T T R P G S G L T N I K T E E I S E V K M D A E F R H D S G Y E V H H Q K L V
```



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C o n f : 8 6 4 1 0 1 6 8 8 8 9
P r e d : E E E E C C C C C C C C
A A : F F A E D V G S N K G
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Colour code for alignment:

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jalign      - Jnet alignment prediction
jhmm        - Jnet hmm profile prediction
jpssm       - Jnet PSIBLAST pssm profile prediction
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Lupas - Lupas Coil prediction (window size of 14, 21 and 28)

Note on coiled coil predictions

- = less than 50% probability
- c = between 50% and 90% probability
- C = greater than 90% probability

Jnet_25	- Jnet prediction of burial, less than 25% solvent accesibility
Jnet_5	- Jnet prediction of burial, less than 5% exposure
Jnet_0	- Jnet prediction of burial, 0% exposure
Jnet Rel	- Jnet reliability of prediction accuracy, ranges from 0 to 9, bigger is better.

Conf: Confidence (0=low, 9=high)
Pred: Predicted secondary structure (H=helix, E=strand, C=coil)
AA: Target sequence