

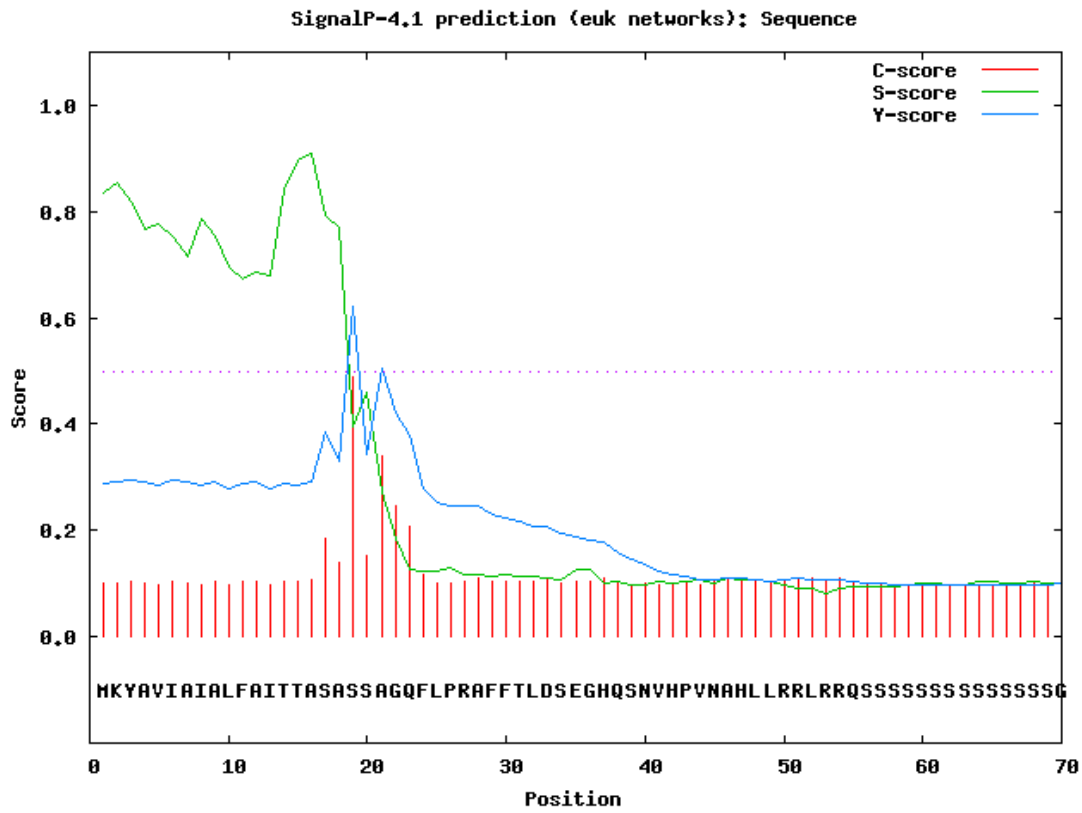
Table S2 Protein sequences and prediction of signal peptides. The predictions for signal peptides were generated with the SignalP 4.1 software (<http://www.cbs.dtu.dk/services/SignalP/>) from the Center for Biological Sequence Analysis of the Technical University of Denmark Lyngby.

SignalP 4.0: discriminating signal peptides from transmembrane regions
 Petersen TN., Brunak S., von Heijne G. & Nielsen H.
 Nature Methods, 8:785-786, 2011

CG10200 (*hui*) predicted Protein 1

MKYAVIAIALFAITTAASSAGQFLPRAFFTLTLDSEGHQSNVHPVNAHLLR
 RLRRQSSSSSSSSSSSSSSSGGNVFTYASHSVQNADGSGHSGSSYTQQAAA
 PVLGGVSFDERFGESSLTGGDNYYPTYNGYTSAAISSNSGVGSTGYSYQH
 ISGVGPIPATQIQQTAVVVDASGNQKVTNIQGATDSNGVLNIKKTESTYS
 SK

SignalP-4.1 euk predictions
 >Sequence



# Measure	Position	Value	Cutoff	signal peptide?
max. C	19	0.490		
max. Y	19	0.621		

```
max. S    16      0.910
mean S    1-18    0.778
D         1-18    0.706   0.340   YES
```

Name=Sequence SP='YES' Cleavage site between pos. 18 and 19: ASA-SS D=0.706
D-cutoff=0.340 Networks=SignalP-noTM

[data](#)

[gnuplot script](#)

Signal peptides: 1

[processed fasta entries](#)

[gff file of processed entries](#)

CG10200 (*hui*) predicted Protein 2

```
MKYAVIAIALFAITTASASSAGQFLPRAFFFTLDSEGHQSNVHPVNAHLLR
RLRRQSSSSSSSSSSSSSSGGNVFTYASHSVQNADGSGHSGSSYTQQAAA
PVLGGVSFDERFGESLTTGGDNYYPTYNGYTSAAISSNSGVGSGTGSYQH
ISGVGPIPATQIQQTVAVVDASGNQKVTNIQGATDSNGVLNIKKTESTYS
SK
```

SignalP-4.1 euk predictions

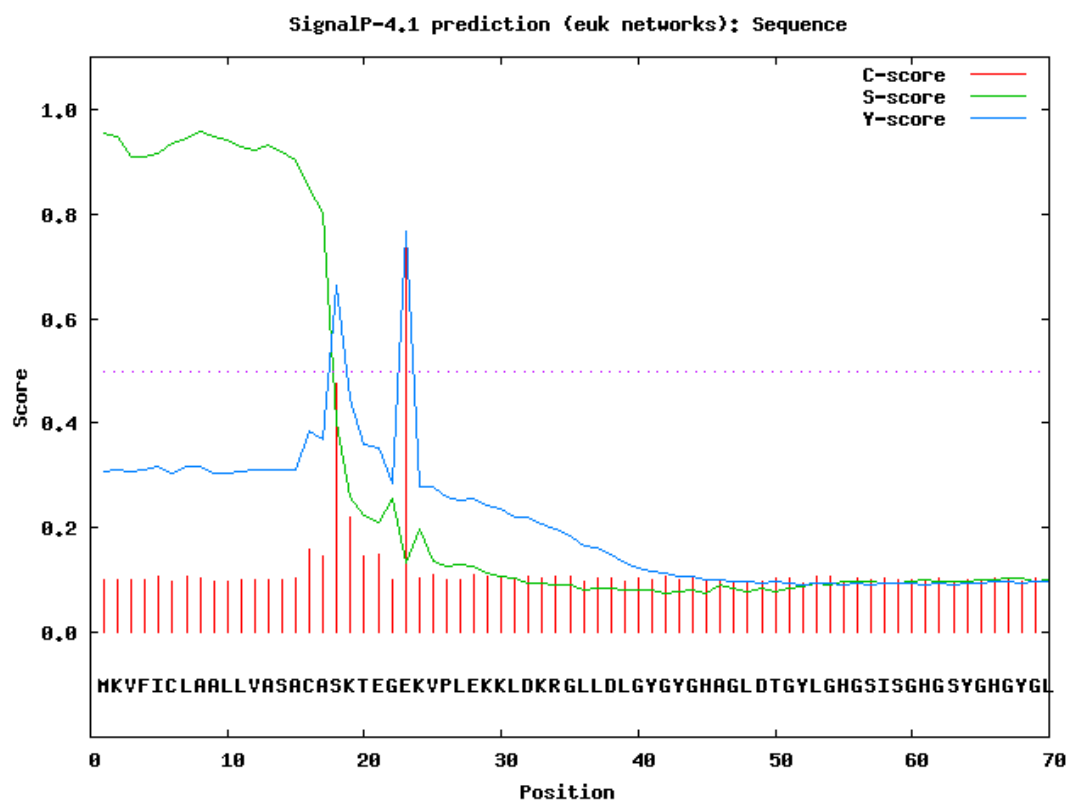
>Sequence

CG16884 predicted Protein

MKVFICLAALLVASACASKTEGEKVPLEKKLDKRGLLDLGYGYGHAGLDT
 GYLGHGSI SGHGSYGHGYGLTGYSAPA AVAVGHSGPAI AVGHTAPAVAVH
 HAPAPYVISKQADVHK TITITKGI PVPVHVDRPY PVPVHEKRV PVEVKVPV
 PQPYEVIRKVPVTVKEYVKVPVVPVQPYEVIRHEKVPVHV PVD RPVPVEV
 PRPYVPVAKPYPVYVEKAVNVQVPVHVDRPYPVYVKVPV VSHSVVKHAP
 TVAVSSYPVSAIGHDATVYSDHHGYHK

SignalP-4.1 euk predictions

>Sequence



# Measure	Position	Value	Cutoff	signal peptide?
max. C	23	0.762		
max. Y	23	0.767		
max. S	8	0.958		
mean S	1-22	0.772		

D 1-22 0.770 0.340 YES

Name=Sequence SP='YES' Cleavage site between pos. 22 and 23: TEG-EK D=0.770
D-cutoff=0.340 Networks=SignalP-noTM

[data](#)

[gnuplot script](#)

Signal peptides: 1

[processed fasta entries](#)

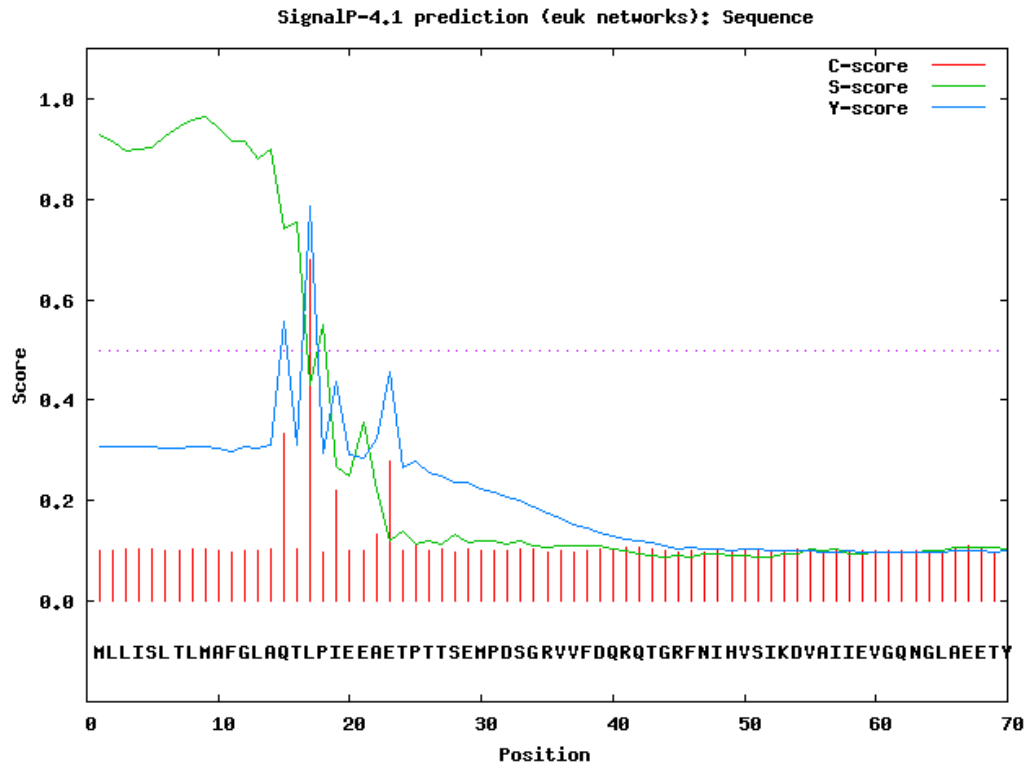
[gff file of processed entries](#)

CG15905 predicted Protein

```
MLLISLTLMAFGLAQTLPiEEAETPTTSEMPDSEGRVVFDRQTGRFNIHV  
SIKDVAIIEVGQNGLAEEETYNDDEEDYYYDDSAITVKPIKLTGTSTTTT  
STTSATLPESTVSTVAPTTEATQLNTSLNLLADIAASGITKPKSRLNNLM  
IVETPIGGLTKPLHHPLHARSKDIPSMAAAAPTALITPPTLRENIEYTPP  
KGHNSPIFKVKVQRSSVPATKKPARCRNHQVRDAQGKCTDSIYRKLYSML  
MGMNFPFLAANAESA
```

SignalP-4.1 euk predictions

>Sequence



# Measure	Position	Value	Cutoff	signal peptide?
max. C	17	0.680		
max. Y	17	0.785		
max. S	9	0.963		
mean S	1-16	0.899		
D	1-16	0.846	0.340	YES

Name=Sequence SP='YES' Cleavage site between pos. 16 and 17: AQT-LP D=0.846
D-cutoff=0.340 Networks=SignalP-noTM

[data](#)

[gnuplot script](#)

Signal peptides: 1

[processed fasta entries](#)

[gff file of processed entries](#)