

```

      1          21          41          61          81          101
C. elegans -----MMSYIALAACIGLAMAANVDHDKSAVNEVTTTKDGDYCPVPLVGTKCGTSSIFHYWKCCGELNKECCFNLQTWVVTLALFGVIFIASFVLSLVRCCICCRK
L. loa -----MLSAGLFLSIIAVVLSDGDVETAVREMTTTKDGATWCPVPVIGTCCPASSIFHYKCCGTANKECCFNLQTWVIVVLAVVAVMMLASFVLSVLRCLFCRR
B. malayi -----MLSTGLLLSIVATVVLCDGDAESVREMTSTKDGTWCPVPVIGTCCPSSIFHYKCCGTANKECCFNLQTWVIVVLAVIIVMMLASFVLSVLRCLFCRR
M. hapla -----MKIFIFIIFLTLFGIVLAGDAEDGLSKVGRKVDFGQDGGQIWCVPVAVGTRCPDSSVFHYFRCCGTLNNECCCLKQTWAFVLLVAVGVLIASLILLSVIRCVFCRRK
P. pacificus-----MSRLSLLLVLAMAFVAA DSDFVEEIKKMQPFVIQSSAYACPVIQGQACPEANPLFYFKCCGELAKDCCFRLQDWTVLLVVLAVLIVLSIVINFIRCLFCY
S. mediterranea-----MISNIKLIILVLFVSNVKS GDIVNDAIDDFRKL CGSSAQNDKILTSFVTPYCCGTLNLQCCYELKLLSKILIGGIVIGIILSIISIACCRSRY

```

Figure S1 Alignment of SUP-1 protein sequence with homologs from other (mostly) nematode species. Predicted signal sequences are shaded green, predicted transmembrane domains are shaded blue, the DUF2650 conserved pattern of luminal cysteines is shaded yellow, and cytoplasmic cysteines predicted to be palmitoylated are red.