

Appendix A. Supplementary material

Fig. S1. *ns122* suppression of the *daf-6* dye-filling defect correlates with normal amphid channel morphology.

TEM of a cross-section through the head of an *ns122; daf-6(e1377)* adult with one dye-filled amphid. The left and right amphid channels are outlined, and shown in greater detail in the top and bottom insets, respectively. Only the left amphid channel appears normal. The right channel is displaced and full of dark staining matrix. Scale bar, 5 μ m.

Fig. S2. *lgc-34* mutants show no significant dye-filling defects as single or double mutants with *daf-6*.

Dye-filling assay for indicated genotypes. Alleles used are: *daf-6(e1377)*, *lgc-34(gk532)*, and *lgc-34(gk751837)*. $n \geq 100$. Error bars, SEM, from ≥ 3 experiments.

Table S1. Mass spectrometry results of IGDB2-interacting proteins.

Proteins are ordered by ratio of area under the curve in the IGDB-2 eluate to that in the LIT-1 eluate.