

## SUPPLEMENTARY TABLES

**Supplementary Table 1. Differentially expressed genes.**

Gene name	Gene description	Gene length	Protein length	Ortholog	Function prediction
<i>T02D1.7</i>	Uncharacterized protein	225	74	none	none
<i>nspf-3</i>	Nematode Specific Peptide family, group F	264	87	none	none
<i>col-41</i>	Collagen composition	1450	428	none	Predicted to be a structural component of the stratum corneum, expressed in subcutaneous tissue and vulvar precursor cells.
<i>clec-126</i>	C-type lectin structural domain protein	1217	168	CLEC4G	Predicted to have carbohydrate-binding activity.
<i>Y34F4.3</i>	PAP-associated structural domain protein	4015	121	none	none

**Supplementary Table 2. Information about *clec-126*.**

Gene description	<i>clec-126</i>
Gene name	C-type lectin structural domain protein
Location	Chromosome II of <i>Caenorhabditis elegans</i>
Gene length	1217
Protein length	168
Protein location	–
Function	Predicted to have carbohydrate-binding activity.

**Supplementary Table 3. Purity and yield of synthesized Acein.**

	Acein
Purity of crude product (%)	82.40
Purity of pure product (%)	97.50
Amount of crude product (mg)	304.80
Amount of pure product (mg)	225.66
Yield of peptide purification (%)	74.04