

**Table S7** – List of ten genes that have the presence of STATAWAARS motif and where selected to examine the spatial expression pattern in the nematode tissues (by *in situ* hybridization). For each selected gene: Sequence similarity analysis with BlastP, primers used for *in situ* hybridization and the results of the validation.

Gene ID	Forward primer	Reverse primer	Sequence similarity	Localisation in the nematode tissues
<b>BUX.s01144.234</b>	TGTCAAGATCACGGTCGTCA	TTCCACAAGCACCCAGTTTCG	Thaumatococin-like protein	Gland cells
<b>BUX.s01109.106</b>	TATGACGTGGACACCCTCAG	GCGGCCTTGTCAGATTCTTT	Pioneer	Gland cells
<b>BUX.s01145.19</b>	ACAGCTGCCCAATGATTAC	CCGCATTGATTACGTTGATG	Alpha-beta hydrolase	Gland cells
<b>BUX.s01147.71</b>	CAAGGAGTAGCGGTGAGAGG	TTCTCAGTTCGGGTTTCGATT	Transthyretin-like protein	Gland cells
<b>BUX.s01066.8</b>	AAACCGCAACGTGAAAGTGA	GACACCGTATTGTTGGCGA	Lysozyme	Intestine
<b>BUX.s00713.837</b>	TCTTCCATTTGAAGCCATCC	GTGGACTCAAAGCAACGTCA	Pioneer	Intestine
<b>BUX.s00060.1</b>	ACTTCACTCTGCTGCCTTCT	GACCGTGTCCAAGTTCCTAA	Pioneer	No signal
<b>BUX.s00647.61</b>	GCCGACCTTGTTGAACTTGT	TGTCCGACCTTCTGCAAGAT	Pioneer	Gland cells
<b>BUX.s00713.1002</b>	CCATGCTGTACGAGCTGAAA	AATCGGAAAGTCGAACATGG	Alpha-beta hydrolase	Gland cells
<b>BUX.s00116.969</b>	TGGACGTCCTCATCATCAGA	GATTTGGGGTGAAGGGTCTT	Pioneer	Gland cells