

**Table S2.** Orthologs of *C. elegans* sex determination genes in *S. carpocapsae*.

<i>C. elegans</i> gene ID	<i>C. elegans</i> wormbase gene ID	<i>S. carpocapsae</i> one:one ortholog	<i>S. carpocapsae</i> 1:many orthologs
<i>fem-1</i>	WBGene00001411	g4309	N/A
<i>fem-2</i>	WBGene00001412	g19092	N/A
<i>fox-1</i>	WBGene00001484	g3758	N/A
<i>laf-1</i>	WBGene00002244	g15046	N/A
<i>mab-3</i>	WBGene00003100	g6785	N/A
<i>mag-1</i>	WBGene00003123	g26993	N/A
<i>sea-2</i>	WBGene00004751	g2451	N/A
<i>sel-10</i>	WBGene00004767	g28368	N/A
<i>sex-1</i>	WBGene00004786	g4210	N/A
<i>fog-1</i>	WBGene00001481	g4059	N/A
<i>tra-3</i>	WBGene00006606	g14457	N/A
<i>sdc-1</i>	WBGene00004745	N/A	g22247, g22250, g29699 <sup>a</sup>
<i>her-1</i>	WBGene00001842	N/A	g22333, g27950 <sup>a</sup> , g27951
<i>fem-3</i>	WBGene00001413	N/A	g30442, g4428 <sup>a</sup>
<i>mog-1</i>	WBGene00003389	N/A	g12209, g18311 <sup>a</sup> , g18624, g24051, g2524
<i>tra-1</i>	WBGene00006604	N/A	g4428 <sup>a</sup> , g30442
<i>gld-1</i>	WBGene00001595	N/A	g731 <sup>a</sup> , g709, g16329, g16349, g16347
<i>mog-4</i>	WBGene00003392	N/A	g12209, g18311, g18624, g24051, g2524 <sup>a</sup>
<i>mog-5</i>	WBGene00003393		
<i>fbf-1</i>	WBGene00001401	g11152	N/A
<i>fbf-2</i>	WBGene00001402		
<i>fog-2</i>	WBGene00001482	N/A	N/A
<i>fog-3</i>	WBGene00001483	N/A	N/A
<i>nos-3</i>	WBGene00003785	N/A	N/A
<i>sdc-2</i>	WBGene00004746	N/A	N/A
<i>sdc-3</i>	WBGene00004747	N/A	N/A
<i>tra-2</i>	WBGene00006605	N/A	N/A
<i>xol-1</i>	WBGene00006962	N/A	N/A

a. Best match according to phylogenetic analysis