

**Table S1 239 putative Wnt targets from seam cells and VPCs.** Shown are 239 putative Wnt targets identified by microarray analysis: the average fold change and p value in Wnt pathway over-activation conditions is shown for each gene. ‘\*’ indicates 24 genes previously known to be expressed in the seam cells (Wormbase release 220). ‘§’ indicates 12 genes previously known to be expressed in the vulval cell lineage (Wormbase release 220) ‘#’ indicates five genes shown to be expressed in seam cells, hypodermal cells and P cells by Jackson et al., 2014.

Gene WB ID	Gene Public Name	p-value Wnt over-activation	fold change Wnt Over-activation
WBGene00000615	<i>col-38</i> <sup>#</sup>	0.000	29.7
WBGene00000626	<i>col-49</i> <sup>#</sup>	0.000	23.5
WBGene00013754	<i>fbxa-116</i>	0.002	16.1
WBGene00006509	<i>tag-164</i>	0.000	14.6
WBGene00007381	<i>C06C6.7</i>	0.000	14.3
WBGene00018295	<i>oac-29</i>	0.002	14.2
WBGene00012046	<i>T26E4.4</i> <sup>#</sup>	0.003	13.3
WBGene00014079	<i>ZK792.7</i>	0.000	12.8
WBGene00022140	<i>Y71G12A.4</i>	0.008	12.1
WBGene00009898	<i>dod-23</i>	0.000	11.8
WBGene00013986	<i>ZK512.7</i>	0.001	11.2
WBGene00001068	<i>dpy-6</i>	0.004	10.7
WBGene00015765	<i>C14C11.1</i>	0.000	10.3
WBGene00022589	<i>ZC317.6</i>	0.000	10.3
WBGene00008211	<i>C49F5.7</i>	0.002	10.3
WBGene00016058	<i>nspd-3</i>	0.001	10.0
WBGene00012783	<i>Y43C5A.3</i>	0.001	10.0
WBGene00003763	<i>nlp-25</i>	0.017	10.0
WBGene00044630	<i>bus-17</i>	0.007	9.6
WBGene00017485	<i>F15E6.4</i>	0.001	9.4
WBGene00017488	<i>dct-7</i>	0.031	8.7
WBGene00016683	<i>C45G9.12</i>	0.004	8.5
WBGene00011226	<i>R11.1</i>	0.001	7.8
WBGene00011624	<i>T08G5.3</i>	0.004	7.8
WBGene00021379	<i>Y37E11B.7</i>	0.034	7.7
WBGene00012591	<i>nspe-1</i>	0.022	7.5
WBGene00015182	<i>B0416.7</i>	0.002	7.4
WBGene00001691	<i>grd-2</i>	0.004	6.9
WBGene00003862	<i>old-1</i>	0.004	6.7
WBGene00003863	<i>old-2</i>	0.004	6.7
WBGene00018380	<i>F43C11.3</i>	0.036	6.6
WBGene00021731	<i>Y49G5A.1</i>	0.000	6.3
WBGene00000647	<i>col-71</i> <sup>#</sup>	0.001	6.2
WBGene00020033	<i>R12E2.7</i> <sup>§*</sup>	0.012	6.2
WBGene00017759	<i>F23H11.3</i>	0.002	6.0
WBGene00008472	<i>E03H4.4</i>	0.000	6.0
WBGene00013514	<i>Y73F4A.1</i>	0.019	6.0

WBGene00018744	<i>F53B3.6</i>	0.008	5.9
WBGene00022024	<i>Y64H9A.2</i>	0.000	5.9
WBGene00009130	<i>F25H5.8</i>	0.012	5.8
WBGene00000656	<i>col-80</i>	0.007	5.8
WBGene00001079	<i>dpy-20</i>	0.002	5.6
WBGene00007297	<i>C04F12.1</i>	0.004	5.5
WBGene00050896	<i>ttr-56</i>	0.000	5.4
WBGene00010856	<i>M04C9.1</i>	0.001	5.4
WBGene00010743	<i>K10D6.3</i>	0.012	5.2
WBGene00001882	<i>his-8</i>	0.001	5.2
WBGene00001894	<i>his-20</i>	0.001	5.2
WBGene00001896	<i>his-22</i>	0.001	5.2
WBGene00001926	<i>his-52</i>	0.001	5.2
WBGene00011077	<i>R07B1.5</i>	0.007	5.2
WBGene00004394	<i>rol-1</i>	0.001	5.2
WBGene00021427	<i>Y38F2AR.9</i>	0.006	5.2
WBGene00015758	<i>nhr-155</i>	0.001	5.1
WBGene00000930	<i>dao-4<sup>#</sup></i>	0.011	5.0
WBGene00018219	<i>F40A3.4</i>	0.003	5.0
WBGene00015865	<i>C16E9.1</i>	0.004	4.9
WBGene00016926	<i>nhr-171</i>	0.005	4.8
WBGene00011948	<i>T23F1.5</i>	0.000	4.8
WBGene00003664	<i>nhr-74*</i>	0.004	4.8
WBGene00011814	<i>T16H12.4</i>	0.011	4.8
WBGene00045387	<i>K09H9.8</i>	0.004	4.7
WBGene00021994	<i>Y59E9AL.4</i>	0.005	4.7
WBGene00011533	<i>T06E4.5</i>	0.010	4.6
WBGene00020380	<i>T09B4.6</i>	0.006	4.5
WBGene00020769	<i>T24D8.6</i>	0.020	4.5
WBGene00021605	<i>Y46H3C.5</i>	0.013	4.5
WBGene00015172	<i>B0410.3</i>	0.001	4.5
WBGene00014003	<i>ZK593.3</i>	0.050	4.5
WBGene00011023	<i>R05A10.6</i>	0.014	4.5
WBGene00015769	<i>C14C11.7</i>	0.001	4.5
WBGene00013438	<i>ztf-29</i>	0.030	4.4
WBGene00003703	<i>nhr-113*</i>	0.019	4.3
WBGene00015340	<i>C02E7.7</i>	0.000	4.3
WBGene00006534	<i>tba-8*</i>	0.001	4.3
WBGene00012594	<i>nspe-5</i>	0.000	4.3
WBGene00004202	<i>pry-1<sup>S*</sup></i>	0.018	4.2
WBGene00017436	<i>F13H8.3</i>	0.029	4.1
WBGene00020613	<i>T20D4.7</i>	0.036	4.1
WBGene00000493	<i>che-14<sup>S*</sup></i>	0.037	4.1
WBGene00022816	<i>fbn-1</i>	0.027	4.1
WBGene00043147	<i>nspd-6</i>	0.004	4.1
WBGene00015339	<i>C02E7.6</i>	0.000	4.1
WBGene00009026	<i>F21G4.5</i>	0.008	4.0

WBGene00000406	<i>cdk-4<sup>S*</sup></i>	0.007	3.9
WBGene00005672	<i>sru-9</i>	0.000	3.9
WBGene00011594	<i>T07G12.3</i>	0.033	3.9
WBGene00001885	<i>his-11</i>	0.005	3.9
WBGene00001889	<i>his-15</i>	0.005	3.9
WBGene00001918	<i>his-44*</i>	0.005	3.9
WBGene00019306	<i>K02E7.1</i>	0.043	3.9
WBGene00018416	<i>retr-1</i>	0.007	3.9
WBGene00009787	<i>F46F2.3</i>	0.018	3.8
WBGene00000516	<i>cki-1<sup>S*</sup></i>	0.007	3.8
WBGene00015196	<i>B0454.5</i>	0.011	3.8
WBGene00000072	<i>add-1*</i>	0.009	3.7
WBGene00011033	<i>R05D11.5</i>	0.000	3.7
WBGene00017297	<i>F09E10.7</i>	0.002	3.7
WBGene00000653	<i>col-77</i>	0.001	3.7
WBGene00013661	<i>Y105C5B.23</i>	0.031	3.7
WBGene00001878	<i>his-4</i>	0.003	3.7
WBGene00002393	<i>lpr-1</i>	0.020	3.6
WBGene00017799	<i>F25G6.8</i>	0.015	3.6
WBGene00012324	<i>rhy-1</i>	0.029	3.6
WBGene00009590	<i>ttr-4</i>	0.012	3.6
WBGene00010538	<i>ttr-3</i>	0.012	3.6
WBGene00015051	<i>B0218.7</i>	0.000	3.6
WBGene00006367	<i>sym-2</i>	0.001	3.6
WBGene00003446	<i>msp-53</i>	0.002	3.5
WBGene00006539	<i>tbb-6</i>	0.000	3.5
WBGene00020873	<i>T28A11.6</i>	0.027	3.5
WBGene00011665	<i>T09F5.1</i>	0.010	3.5
WBGene00009160	<i>F26E4.5</i>	0.018	3.5
WBGene00000711	<i>col-138</i>	0.000	3.4
WBGene00011398	<i>qdpr-1</i>	0.021	3.4
WBGene00017783	<i>F25E5.2</i>	0.008	3.4
WBGene00021997	<i>Y59E9AR.1</i>	0.001	3.4
WBGene00022002	<i>Y59E9AR.7</i>	0.001	3.4
WBGene00021927	<i>Y55F3AM.10</i>	0.001	3.4
WBGene00016919	<i>C54E4.4</i>	0.025	3.4
WBGene00015442	<i>C04F1.1</i>	0.050	3.4
WBGene00016641	<i>C44C1.1</i>	0.014	3.3
WBGene00007770	<i>nhr-259</i>	0.038	3.3
WBGene00018689	<i>F52D2.7</i>	0.001	3.3
WBGene00015987	<i>C18G1.9</i>	0.001	3.3
WBGene00012323	<i>oac-54</i>	0.032	3.3
WBGene00018702	<i>F52E4.5</i>	0.002	3.2
WBGene00001984	<i>hog-1</i>	0.018	3.1
WBGene00019234	<i>ugt-8</i>	0.011	3.1

WBGene00000596	<i>col-7*</i>	0.010	3.1
WBGene00000638	<i>col-62</i>	0.010	3.1
WBGene00003102	<i>mab-5<sup>Δ</sup></i>	0.013	3.1
WBGene00008290	<i>C54C8.2*</i>	0.033	3.1
WBGene00020216	<i>trap-2</i>	0.031	3.1
WBGene00020445	<i>T12B3.2</i>	0.008	3.1
WBGene00015950	<i>C18A11.4</i>	0.000	3.1
WBGene00010225	<i>ttr-31</i>	0.025	3.0
WBGene00010800	<i>srsx-37</i>	0.009	3.0
WBGene00012055	<i>srsx-36</i>	0.009	3.0
WBGene00016192	<i>C28H8.1</i>	0.002	3.0
WBGene00000734	<i>col-161</i>	0.008	3.0
WBGene00000735	<i>col-162</i>	0.008	3.0
WBGene00001480	<i>fmo-5</i>	0.015	3.0
WBGene00014162	<i>ZK938.6</i>	0.006	3.0
WBGene00016294	<i>C31H2.4</i>	0.008	2.9
WBGene00044623	<i>bus-8*</i>	0.013	2.9
WBGene00015453	<i>C04G6.2</i>	0.007	2.9
WBGene00077489	<i>C04G6.13</i>	0.007	2.9
WBGene00003444	<i>msp-51</i>	0.026	2.9
WBGene00003448	<i>msp-55</i>	0.026	2.9
WBGene00003450	<i>msp-57</i>	0.026	2.9
WBGene00011434	<i>T04D3.5</i>	0.016	2.8
WBGene00006660	<i>twk-5</i>	0.015	2.8
WBGene00000969	<i>dhs-5</i>	0.013	2.8
WBGene00001253	<i>elt-6<sup>Δ</sup></i>	0.011	2.8
WBGene00021486	<i>lbp-9</i>	0.001	2.8
WBGene00010742	<i>K10D6.2</i>	0.004	2.7
WBGene00016449	<i>C35D10.13</i>	0.002	2.7
WBGene00003622	<i>nhr-23</i>	0.002	2.7
WBGene00000720	<i>col-147</i>	0.050	2.7
WBGene00008435	<i>glna-2</i>	0.022	2.6
WBGene00016011	<i>C23G10.2</i>	0.007	2.6
WBGene00012165	<i>cutl-6</i>	0.049	2.6
WBGene00017348	<i>F10E7.6</i>	0.036	2.6
WBGene00009657	<i>F43G6.4</i>	0.023	2.6
WBGene00001692	<i>grd-3*</i>	0.008	2.5
WBGene00012420	<i>Y7A9D.1</i>	0.007	2.5
WBGene00009489	<i>F36G9.13</i>	0.001	2.5
WBGene00009675	<i>F44A6.3</i>	0.034	2.5
WBGene00002070	<i>ile-1</i>	0.004	2.5
WBGene00000990	<i>dhs-27</i>	0.016	2.5
WBGene00016346	<i>fbxa-120</i>	0.006	2.5
WBGene00018252	<i>F40H3.6</i>	0.003	2.5
WBGene00012364	<i>W09D12.1</i>	0.009	2.5

WBGene00001703	<i>grd-14*</i>	0.002	2.4
WBGene00010289	<i>F58H1.6</i>	0.015	2.4
WBGene00021845	<i>rpb-7</i>	0.000	2.4
WBGene00007592	<i>C14H10.2</i>	0.015	2.4
WBGene00012443	<i>Y15E3A.4</i>	0.010	2.3
WBGene00009807	<i>pepm-1</i>	0.004	2.3
WBGene00015593	<i>C08E3.1</i>	0.036	2.3
WBGene00015605	<i>C08E3.13</i>	0.036	2.3
WBGene00000601	<i>col-12</i>	0.028	2.3
WBGene00003611	<i>nhr-12</i>	0.015	2.3
WBGene00005025	<i>sqv-7<sup>S*</sup></i>	0.007	2.2
WBGene00017082	<i>DC2.5</i>	0.004	2.2
WBGene00010051	<i>F54D5.5</i>	0.018	2.2
WBGene00011890	<i>T21C9.1</i>	0.005	2.2
WBGene00007925	<i>C34C12.6</i>	0.022	2.1
WBGene00006476	<i>rhgf-2</i>	0.009	2.1
WBGene00000532	<i>clh-5</i>	0.031	2.1
WBGene00000602	<i>col-13</i>	0.036	2.1
WBGene00019666	<i>sago-1<sup>S*</sup></i>	0.024	2.1
WBGene00016929	<i>C54F6.12</i>	0.024	2.1
WBGene00019331	<i>dos-3</i>	0.008	2.1
WBGene00004272	<i>rab-8</i>	0.045	2.1
WBGene00044349	<i>Y71G12B.32</i>	0.000	2.1
WBGene00000729	<i>col-156</i>	0.027	2.1
WBGene00013981	<i>ZK507.6</i>	0.036	2.1
WBGene00010470	<i>cdr-4</i>	0.027	2.1
WBGene00013292	<i>Y57G11A.4</i>	0.017	2.0
WBGene00011561	<i>ttr-15</i>	0.009	2.0
WBGene00001073	<i>dpy-11</i>	0.026	2.0
WBGene00021789	<i>nol-6</i>	0.017	2.0
WBGene00010523	<i>K03B8.4</i>	0.040	2.0
WBGene00001971	<i>hmg-1.1<sup>S*</sup></i>	0.022	2.0
WBGene00019826	<i>R02E4.1</i>	0.004	2.0
WBGene00002990	<i>lin-1</i>	0.038	1.9
WBGene00018488	<i>acs-1</i>	0.048	1.9
WBGene00004164	<i>pqn-83</i>	0.015	1.9
WBGene00004702	<i>rsp-5</i>	0.004	1.9
WBGene00002261	<i>ldb-1</i>	0.047	1.9
WBGene00006543	<i>tbx-2</i>	0.039	1.9
WBGene00008571	<i>F08B12.1</i>	0.040	1.9
WBGene00020109	<i>R151.6</i>	0.013	1.9
WBGene00012186	<i>mlt-11*</i>	0.043	1.8
WBGene00020263	<i>T05E8.3</i>	0.010	1.8
WBGene00011731	<i>acbp-5</i>	0.037	1.8
WBGene00018341	<i>F42A10.5</i>	0.049	1.8

<b>WBGene00000100</b>	<b><i>ajm-1<sup>S*</sup></i></b>	<b>0.026</b>	<b>1.8</b>
<b>WBGene00000730</b>	<b><i>col-157</i></b>	<b>0.023</b>	<b>1.8</b>
<b>WBGene00000728</b>	<b><i>col-155</i></b>	<b>0.030</b>	<b>1.8</b>
<b>WBGene00004701</b>	<b><i>rsp-4*</i></b>	<b>0.006</b>	<b>1.7</b>
<b>WBGene00000727</b>	<b><i>col-154</i></b>	<b>0.029</b>	<b>1.7</b>
<b>WBGene00022164</b>	<b><i>Y71H2AL.1</i></b>	<b>0.042</b>	<b>1.7</b>
<b>WBGene00014186</b>	<b><i>nhr-244</i></b>	<b>0.019</b>	<b>1.7</b>
<b>WBGene00002051</b>	<b><i>ifa-3</i></b>	<b>0.004</b>	<b>1.7</b>
<b>WBGene00019850</b>	<b><i>srt-18</i></b>	<b>0.019</b>	<b>1.7</b>
<b>WBGene00009381</b>	<b><i>F34H10.4</i></b>	<b>0.023</b>	<b>1.7</b>
<b>WBGene00019237</b>	<b><i>H24G06.1</i></b>	<b>0.021</b>	<b>1.7</b>
<b>WBGene00001928</b>	<b><i>his-54</i></b>	<b>0.042</b>	<b>1.7</b>
<b>WBGene00003911</b>	<b><i>pak-1</i></b>	<b>0.025</b>	<b>1.6</b>
<b>WBGene00010317</b>	<b><i>idh-1<sup>S*</sup></i></b>	<b>0.044</b>	<b>1.6</b>
<b>WBGene00003891</b>	<b><i>osm-11<sup>S*</sup></i></b>	<b>0.047</b>	<b>1.6</b>
<b>WBGene00015757</b>	<b><i>C14C6.3</i></b>	<b>0.009</b>	<b>1.6</b>
<b>WBGene00014098</b>	<b><i>ZK836.2</i></b>	<b>0.022</b>	<b>1.6</b>
<b>WBGene00011604</b>	<b><i>T08A11.1</i></b>	<b>0.029</b>	<b>1.5</b>
<b>WBGene00015181</b>	<b><i>B0416.5</i></b>	<b>0.003</b>	<b>1.5</b>
<b>WBGene00002196</b>	<b><i>kin-10</i></b>	<b>0.124</b>	<b>1.5</b>