

Cluster	Gene Ontology term	Cluster frequency	Genome frequency	Corrected P-value
1	embryonic brain	87 of 103 genes, 84.47%	705 of 3258 genes, 21.64%	1.55817e-41
	embryonic central nervous system	25 of 103 genes, 24.27%	244 of 3258 genes, 7.49%	1.23497e-06
	ventral nerve cord	87 of 103 genes, 84.47%	722 of 3258 genes, 22.16%	6.38388e-41
	sensory nervous system primordium	10 of 103 genes, 9.71%	88 of 3258 genes, 2.70%	0.00481947
	ventral sensory complex primordium	21 of 103 genes, 20.39%	123 of 3258 genes, 3.78%	2.89248e-09
	embryonic midgut	52 of 103 genes, 50.49%	943 of 3258 genes, 28.94%	3.97885e-05
	ventral midline	15 of 103 genes, 14.56%	149 of 3258 genes, 4.57%	0.000724672
	dorsal/lateral sensory complexes	20 of 103 genes, 19.42%	114 of 3258 genes, 3.50%	3.93463e-09
	sensory system head	23 of 103 genes, 22.33%	167 of 3258 genes, 5.13%	1.73336e-08
2	embryonic dorsal epidermis	9 of 9 genes, 100.00%	511 of 3258 genes, 15.68%	6.33068e-06
	embryonic head epidermis	8 of 9 genes, 88.89%	351 of 3258 genes, 10.77%	8.05947e-06
	embryonic ventral epidermis	7 of 9 genes, 77.78%	472 of 3258 genes, 14.49%	0.0010393
	embryonic dorsal apodeme	2 of 9 genes, 22.22%	28 of 3258 genes, 0.86%	0.0361365
	embryonic epipharynx	4 of 9 genes, 44.44%	246 of 3258 genes, 7.55%	0.0383597
	embryonic hypopharynx	4 of 9 genes, 44.44%	270 of 3258 genes, 8.29%	0.0486715
	embryonic ventral apodeme	2 of 9 genes, 22.22%	26 of 3258 genes, 0.80%	0.0356104
	embryonic foregut	6 of 9 genes, 66.67%	290 of 3258 genes, 8.90%	0.0010393
	embryonic hindgut	6 of 9 genes, 66.67%	578 of 3258 genes, 17.74%	0.0306731
embryonic/larval tracheal system	4 of 9 genes, 44.44%	199 of 3258 genes, 6.11%	0.0306731	
3	embryonic salivary gland body	7 of 13 genes, 53.85%	85 of 3258 genes, 2.61%	1.13596e-06
	embryonic salivary gland	5 of 13 genes, 38.46%	104 of 3258 genes, 3.19%	0.00184931
4	yolk nuclei	23 of 27 genes, 85.19%	170 of 3258 genes, 5.22%	1.24293e-24
5	embryonic brain	12 of 12 genes, 100.00%	705 of 3258 genes, 21.64%	7.63985e-07
	embryonic central nervous system	6 of 12 genes, 50.00%	244 of 3258 genes, 7.49%	0.00407528
	ventral nerve cord	12 of 12 genes, 100.00%	722 of 3258 genes, 22.16%	7.63985e-07
	sensory system head	5 of 12 genes, 41.67%	167 of 3258 genes, 5.13%	0.00575847
6	embryonic midgut	18 of 21 genes, 85.71%	943 of 3258 genes, 28.94%	1.09435e-05
7	ventral nerve cord	14 of 14 genes, 100.00%	722 of 3258 genes, 22.16%	3.65112e-08
	embryonic brain	14 of 14 genes, 100.00%	705 of 3258 genes, 21.64%	3.65112e-08
8	embryonic brain	7 of 7 genes, 100.00%	705 of 3258 genes, 21.64%	0.00150103
	embryonic central nervous system	4 of 7 genes, 57.14%	244 of 3258 genes, 7.49%	0.0349876
	ventral nerve cord	7 of 7 genes, 100.00%	722 of 3258 genes, 22.16%	0.00150103
9	embryonic hindgut	14 of 23 genes, 60.87%	578 of 3258 genes, 17.74%	0.00052391
	embryonic/larval tracheal system	7 of 23 genes, 30.43%	199 of 3258 genes, 6.11%	0.00707219
	embryonic dorsal epidermis	11 of 23 genes, 47.83%	511 of 3258 genes, 15.68%	0.00707219
	embryonic epipharynx	7 of 23 genes, 30.43%	246 of 3258 genes, 7.55%	0.0161065
	embryonic esophagus	5 of 23 genes, 21.74%	111 of 3258 genes, 3.41%	0.0144353
	embryonic hypopharynx	9 of 23 genes, 39.13%	270 of 3258 genes, 8.29%	0.00273453
	embryonic ventral epidermis	9 of 23 genes, 39.13%	472 of 3258 genes, 14.49%	0.0375182
	embryonic salivary gland body	4 of 23 genes, 17.39%	85 of 3258 genes, 2.61%	0.034015
	embryonic foregut	9 of 23 genes, 39.13%	290 of 3258 genes, 8.90%	0.00322211
embryonic salivary gland	5 of 23 genes, 21.74%	104 of 3258 genes, 3.19%	0.0124865	
10	ventral nerve cord	12 of 12 genes, 100.00%	722 of 3258 genes, 22.16%	7.63985e-07
	ventral sensory complex primordium	5 of 12 genes, 41.67%	123 of 3258 genes, 3.78%	0.00132457
	ventral midline	6 of 12 genes, 50.00%	149 of 3258 genes, 4.57%	0.000237634
	embryonic brain	12 of 12 genes, 100.00%	705 of 3258 genes, 21.64%	7.63985e-07
	embryonic central nervous system	6 of 12 genes, 50.00%	244 of 3258 genes, 7.49%	0.00244517
	sensory system head	4 of 12 genes, 33.33%	167 of 3258 genes, 5.13%	0.0398581
dorsal/lateral sensory complexes	4 of 12 genes, 33.33%	114 of 3258 genes, 3.50%	0.0110463	
11	embryonic brain	10 of 10 genes, 100.00%	705 of 3258 genes, 21.64%	1.5916e-05
	embryonic central nervous system	5 of 10 genes, 50.00%	244 of 3258 genes, 7.49%	0.0162686
	ventral nerve cord	10 of 10 genes, 100.00%	722 of 3258 genes, 22.16%	1.5916e-05
12	embryonic/larval muscle system	270 of 581 genes, 46.47%	435 of 3258 genes, 13.35%	1.17801e-112
	dorsal prothoracic pharyngeal muscle	200 of 581 genes, 34.42%	312 of 3258 genes, 9.58%	1.45332e-82
	embryonic midgut	388 of 581 genes, 66.78%	943 of 3258 genes, 28.94%	9.0204e-98
	embryonic hindgut	235 of 581 genes, 40.45%	578 of 3258 genes, 17.74%	1.33932e-46
	embryonic Malpighian tubule	109 of 581 genes, 18.76%	221 of 3258 genes, 6.78%	1.34134e-27
	embryonic anal pad	112 of 581 genes, 19.28%	257 of 3258 genes, 7.89%	1.32288e-22
	embryonic/larval fat body	99 of 581 genes, 17.04%	215 of 3258 genes, 6.60%	4.56185e-22
	embryonic/larval somatic muscle	72 of 581 genes, 12.39%	142 of 3258 genes, 4.36%	7.97006e-19
	embryonic gastric caecum	39 of 581 genes, 6.71%	75 of 3258 genes, 2.30%	1.26069e-10
	embryonic proventriculus	59 of 581 genes, 10.15%	225 of 3258 genes, 6.91%	0.00506482
	embryonic proventriculus outer layer	11 of 581 genes, 1.89%	26 of 3258 genes, 0.80%	0.0178799
	embryonic dorsal epidermis	112 of 581 genes, 19.28%	511 of 3258 genes, 15.68%	0.0287759
	embryonic ventral epidermis	104 of 581 genes, 17.90%	472 of 3258 genes, 14.49%	0.0319466
	embryonic foregut	88 of 581 genes, 15.15%	290 of 3258 genes, 8.90%	2.86139e-07
	embryonic salivary gland	38 of 581 genes, 6.54%	104 of 3258 genes, 3.19%	2.59444e-05
	crystal cell	22 of 581 genes, 3.79%	71 of 3258 genes, 2.18%	0.0252076
	embryonic/larval visceral muscle	46 of 581 genes, 7.92%	107 of 3258 genes, 3.28%	6.67701e-09
	circular visceral muscle fibers	5 of 581 genes, 0.86%	9 of 3258 genes, 0.28%	0.0496811
	longitudinal visceral muscle fibers	10 of 581 genes, 1.72%	15 of 3258 genes, 0.46%	0.000299961
	embryonic/larval dorsal vessel	19 of 581 genes, 3.27%	59 of 3258 genes, 1.81%	0.0270534
	embryonic/larval garland cell	31 of 581 genes, 5.34%	112 of 3258 genes, 3.44%	0.0287759
	lymph gland	36 of 581 genes, 6.20%	87 of 3258 genes, 2.46%	1.12049e-07
germ cell	18 of 581 genes, 3.10%	57 of 3258 genes, 1.75%	0.0343357	
gonad	41 of 581 genes, 7.06%	160 of 3258 genes, 4.91%	0.0328045	
plasmatocytes	23 of 581 genes, 3.96%	73 of 3258 genes, 2.24%	0.0178799	
yolk nuclei	46 of 581 genes, 7.92%	170 of 3258 genes, 5.22%	0.00920771	
visceral muscle of esophagus	10 of 581 genes, 1.72%	16 of 3258 genes, 0.49%	0.000630892	
faint ubiquitous	90 of 581 genes, 15.49%	236 of 3258 genes, 7.24%	1.46814e-13	