

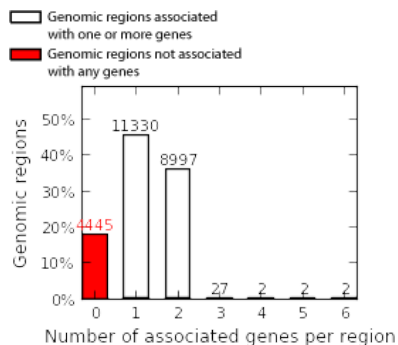
⊕ Job Description

⊕ Region-Genes Association Graphs

What do these graphs illustrate?

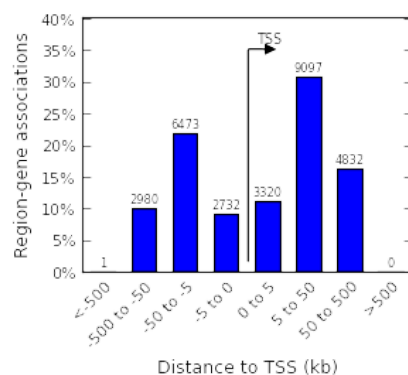
Number of associated genes per region

[Download as PDF.](#)



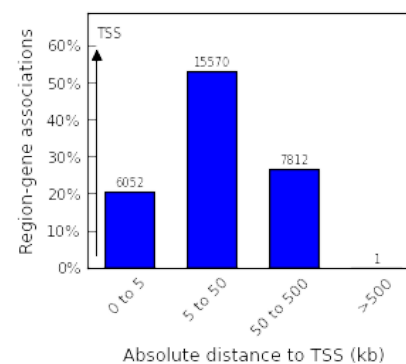
Binned by orientation and distance to TSS

[Download as PDF.](#)



Binned by absolute distance to TSS

[Download as PDF.](#)



⊕ Global Controls

Global Export

Which data is exported by each option?

⊕ Ensembl Genes (no terms)

Global controls

⊖ GO Biological Process (20+ terms)

Global controls

Table controls:

Shown top rows in this table:

Term annotation count: Min: Max:

Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
single-multicellular organism process	1	0.0000	0.0000	2.0001	10,420	42.01%	1	2.4473e-139	1.3017	3,475	5,396	32.83%
multicellular organism development	1	0.0000	0.0000	2.0657	9,621	38.79%	2	9.0450e-127	1.3137	3,069	4,722	28.99%
anatomical structure development	1	0.0000	0.0000	2.0346	9,980	40.23%	3	2.8168e-124	1.2978	3,236	5,040	30.57%
single-organism developmental process	1	0.0000	0.0000	2.0032	10,305	41.54%	4	1.8629e-122	1.2843	3,398	5,348	32.10%
system development	1	0.0000	0.0000	2.0974	8,766	35.34%	7	3.6754e-113	1.3200	2,722	4,168	25.72%
anatomical structure morphogenesis	1	0.0000	0.0000	2.3402	5,498	22.16%	8	2.6350e-105	1.4590	1,500	2,078	14.17%
cell differentiation	1	0.0000	0.0000	2.1221	7,523	30.33%	10	1.1261e-95	1.3273	2,297	3,498	21.70%
regulation of multicellular organismal process	1	0.0000	0.0000	2.0663	5,943	23.96%	11	1.5412e-95	1.3783	1,850	2,713	17.48%
cellular developmental process	1	0.0000	0.0000	2.1090	7,635	30.78%	12	7.9571e-94	1.3195	2,339	3,583	22.10%
animal organ development	1	0.0000	0.0000	2.1695	6,916	27.88%	14	2.5174e-90	1.3410	2,058	3,102	19.44%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
tissue development	1	0.0000	0.0000	2.4020	4,330	17.46%	15	1.3586e-79	1.4565	1,171	1,625	11.06%
nervous system development	1	0.0000	0.0000	2.2183	5,305	21.39%	16	1.6188e-77	1.3856	1,493	2,178	14.10%
regulation of developmental process	1	0.0000	0.0000	2.1940	5,630	22.70%	17	1.1891e-73	1.3580	1,601	2,383	15.13%
neurogenesis	1	0.0000	0.0000	2.2714	4,027	16.23%	18	1.5015e-73	1.4522	1,105	1,538	10.44%
regulation of signaling	1	0.0000	0.0000	2.0223	6,271	25.28%	19	1.3925e-72	1.3059	2,008	3,108	18.97%
regulation of cell communication	1	0.0000	0.0000	2.0176	6,220	25.08%	20	3.0463e-72	1.3064	1,994	3,085	18.84%
regulation of multicellular organismal development	1	0.0000	0.0000	2.2143	4,417	17.81%	21	4.3188e-72	1.4129	1,254	1,794	11.85%
positive regulation of metabolic process	1	0.0000	0.0000	2.0810	6,355	25.62%	23	1.9676e-67	1.2950	1,990	3,106	18.80%
generation of neurons	1	0.0000	0.0000	2.2925	3,805	15.34%	24	6.1038e-67	1.4507	1,017	1,417	9.61%
animal organ morphogenesis	1	0.0000	0.0000	2.6123	3,002	12.10%	26	6.7155e-66	1.5443	735	962	6.94%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes.
 GO Biological Process has 13,090 terms covering 17,925 (84%) of all 21,395 genes, and 1,163,819 term - gene associations.
 13,090 ontology terms (100%) were tested using an annotation count range of [1, Inf].

GO Cellular Component (20+ terms)

Global controls

Table controls: Shown top rows in this table: Term annotation count: Min: Max: Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
anchoring junction	44	1.1968e-173	4.6077e-172	2.3923	1,316	5.31%	30	4.3661e-22	1.4327	370	522	3.50%
adherens junction	46	3.8450e-162	1.4160e-160	2.3630	1,260	5.08%	32	7.0055e-20	1.4185	353	503	3.33%
transcription factor complex	48	7.2550e-142	2.5604e-140	2.4867	1,002	4.04%	72	7.8103e-11	1.3566	249	371	2.35%
cell-cell junction	51	1.2686e-134	4.2137e-133	2.2404	1,169	4.71%	31	2.6072e-21	1.4532	330	459	3.12%
actin cytoskeleton	59	1.0631e-124	3.0523e-123	2.2776	1,047	4.22%	33	1.3543e-19	1.4386	321	451	3.03%
focal adhesion	60	2.4568e-122	6.9363e-121	2.3881	934	3.77%	62	3.4409e-12	1.3719	262	386	2.48%
cell-substrate adherens junction	63	7.6843e-121	2.0662e-119	2.3706	936	3.77%	66	6.6771e-12	1.3647	264	391	2.49%
cell-substrate junction	64	1.6481e-119	4.3623e-118	2.3486	943	3.80%	65	6.3816e-12	1.3628	267	396	2.52%
cell body	70	3.1652e-100	7.6597e-99	2.0183	1,107	4.46%	49	8.4962e-16	1.3671	349	516	3.30%
extracellular matrix	71	9.1001e-99	2.1712e-97	2.0050	1,109	4.47%	50	1.2318e-15	1.3589	359	534	3.39%
cell leading edge	72	2.8389e-95	6.6792e-94	2.1694	889	3.58%	67	7.5375e-12	1.3771	248	364	2.34%
neuronal cell body	76	1.8748e-88	4.1788e-87	2.0213	974	3.93%	53	1.0770e-13	1.3688	300	443	2.83%
axon	77	8.3800e-88	1.8436e-86	2.0045	987	3.98%	34	1.4595e-19	1.4471	310	433	2.93%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
cell projection membrane	83	1.9502e-74	3.9803e-73	2.2394	647	2.61%	106	1.7782e-7	1.3378	184	278	1.74%
membrane raft	88	2.2844e-68	4.3974e-67	2.0767	704	2.84%	46	2.7629e-17	1.4963	228	308	2.15%
cytoplasmic region	89	3.2257e-68	6.1397e-67	2.0674	710	2.86%	102	1.2621e-7	1.3129	215	331	2.03%
cell cortex	91	5.2806e-67	9.8300e-66	2.1655	626	2.52%	121	2.3952e-6	1.3127	176	271	1.66%
extrinsic component of membrane	98	1.2844e-60	2.2201e-59	2.1254	590	2.38%	73	1.3188e-10	1.4119	190	272	1.79%
ruffle	99	1.9145e-59	3.2760e-58	2.4261	437	1.76%	148	4.7796e-4	1.3144	106	163	1.00%
apical plasma membrane	100	2.0046e-59	3.3957e-58	2.0117	660	2.66%	57	6.0984e-13	1.4351	213	300	2.01%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes.
 GO Cellular Component has 1,694 terms covering 19,074 (89%) of all 21,395 genes, and 371,380 term - gene associations.
 1,694 ontology terms (100%) were tested using an annotation count range of [1, Inf].

GO Molecular Function (20+ terms)

Global controls

Table controls: Shown top rows in this table: Term annotation count: Min: Max: Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
sequence-specific DNA binding	1	0.0000	0.0000	2.7571	3,118	12.57%	3	3.3153e-49	1.4516	767	1,068	7.25%
RNA polymerase II transcription factor activity, sequence-specific DNA binding	1	0.0000	0.0000	2.7562	2,390	9.64%	4	3.2749e-48	1.5278	579	766	5.47%
transcription regulatory region DNA binding	1	0.0000	0.0000	2.7293	2,648	10.68%	5	2.5564e-46	1.4797	653	892	6.17%
regulatory region DNA binding	1	0.0000	0.0000	2.7281	2,650	10.68%	6	2.7101e-46	1.4786	654	894	6.18%
RNA polymerase II regulatory region DNA binding	1	0.0000	0.0000	2.8352	2,072	8.35%	7	4.6393e-46	1.5550	507	659	4.79%
RNA polymerase II regulatory region sequence-specific DNA binding	1	0.0000	0.0000	2.8489	2,070	8.35%	8	4.5715e-46	1.5560	505	656	4.77%
transcription regulatory region sequence-specific DNA binding	1	0.0000	0.0000	2.7753	2,263	9.12%	9	2.6241e-45	1.5194	557	741	5.26%
sequence-specific double-stranded DNA binding	1	0.0000	0.0000	2.7241	2,303	9.28%	10	2.0639e-41	1.4866	570	775	5.38%
double-stranded DNA binding	1	0.0000	0.0000	2.6378	2,373	9.57%	12	1.3160e-36	1.4380	604	849	5.71%
transcription factor activity, sequence-specific DNA binding	1	0.0000	0.0000	2.4487	2,905	11.71%	18	1.7001e-26	1.3190	755	1,157	7.13%
enzyme binding	1	0.0000	0.0000	2.0282	3,605	14.53%	19	1.9478e-26	1.2430	1,182	1,922	11.17%
DNA binding	1	0.0000	0.0000	2.2651	4,365	17.60%	22	1.0928e-23	1.2187	1,271	2,108	12.01%
macromolecular complex binding	19	2.7995e-315	6.0866e-313	2.1242	2,971	11.98%	27	5.5151e-19	1.2373	906	1,480	8.56%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
transcription factor activity, RNA polymerase II core promoter proximal region sequence-specific binding	23	2.6800e-264	4.8136e-262	2.8965	1,430	5.76%	13	8.0953e-35	1.6018	336	424	3.17%
transcriptional activator activity, RNA polymerase II transcription regulatory region sequence-specific binding	24	2.9772e-245	5.1245e-243	2.8222	1,384	5.58%	11	3.6409e-37	1.6247	336	418	3.17%
core promoter proximal region DNA binding	26	3.5868e-222	5.6989e-220	2.7823	1,285	5.18%	15	3.5019e-28	1.5556	314	408	2.97%
core promoter proximal region sequence-specific DNA binding	27	1.2043e-216	1.8426e-214	2.7681	1,264	5.10%	16	1.2785e-27	1.5521	311	405	2.94%
RNA polymerase II core promoter proximal region sequence-specific DNA binding	28	2.7077e-216	3.9948e-214	2.8013	1,238	4.99%	14	7.8696e-29	1.5727	305	392	2.88%
protein domain specific binding	33	3.7764e-196	4.7274e-194	2.2821	1,627	6.56%	25	7.3318e-20	1.3551	478	713	4.52%
transcription factor binding	34	1.7449e-190	2.1201e-188	2.4270	1,402	5.65%	34	1.5462e-14	1.3439	373	561	3.52%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes. GO Molecular Function has 4,131 terms covering 17,189 (80%) of all 21,395 genes, and 227,341 term - gene associations. 4,131 ontology terms (100%) were tested using an annotation count range of [1, Inf].

Human Phenotype (20+ terms)

Global controls

Table controls: Shown top rows in this table: Term annotation count: Min: Max: Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
Autosomal dominant inheritance	1	2.8691e-313	1.8933e-309	2.1284	2,941	11.86%	1	5.8139e-42	1.3812	889	1,301	8.40%
Abnormality of the integument	9	6.5918e-202	4.8333e-199	2.0164	2,195	8.85%	10	5.1793e-15	1.2523	684	1,104	6.46%
Abnormality of the mouth	11	4.4709e-190	2.6822e-187	2.0715	1,945	7.84%	9	1.8223e-15	1.2852	571	898	5.39%
Abnormality of the oral cavity	16	3.6164e-175	1.4915e-172	2.1466	1,659	6.69%	11	1.3645e-14	1.3079	473	731	4.47%
Abnormality of the orbital region	21	2.9844e-158	9.3783e-156	2.0143	1,741	7.02%	15	4.9969e-12	1.2639	514	822	4.86%
Abnormal appendicular skeleton morphology	26	1.2439e-140	3.1571e-138	2.0014	1,577	6.36%	22	3.3669e-10	1.2518	475	767	4.49%
Abnormality of cardiovascular system morphology	27	1.2376e-131	3.0249e-129	2.0330	1,423	5.74%	46	3.5994e-8	1.2307	439	721	4.15%
Abnormality of the nose	31	2.9773e-130	6.3379e-128	2.0151	1,439	5.80%	51	7.4452e-8	1.2302	423	695	4.00%
Abnormality of digit	34	1.1253e-123	2.1840e-121	2.0481	1,315	5.30%	27	2.4949e-9	1.2725	379	602	3.58%
Abnormality of skin adnexa morphology	35	3.5042e-121	6.6070e-119	2.0636	1,266	5.10%	56	2.0062e-7	1.2410	369	601	3.49%
Abnormality of the palate	36	1.3281e-119	2.4345e-117	2.2716	1,010	4.07%	25	1.5270e-9	1.3344	272	412	2.57%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
Aplasia/hypoplasia affecting bones of the axial skeleton	40	2.2350e-117	3.6871e-115	2.3967	890	3.59%	47	4.1593e-8	1.3270	237	361	2.24%
Abnormal morphology of the ocular adnexa	41	3.2782e-116	5.2763e-114	2.0391	1,250	5.04%	30	3.3823e-9	1.2732	371	589	3.50%
Abnormal heart morphology	43	7.2568e-116	1.1137e-113	2.0588	1,218	4.91%	74	9.4583e-7	1.2259	373	615	3.52%
Abnormality of the dentition	45	2.5972e-115	3.8086e-113	2.2898	958	3.86%	62	4.4710e-7	1.3017	237	368	2.24%
Abnormality of the gastrointestinal tract	46	3.8034e-115	5.4562e-113	2.0715	1,193	4.81%	34	6.5531e-9	1.2770	350	554	3.31%
Abnormality of connective tissue	47	7.4816e-115	1.0504e-112	2.0804	1,178	4.75%	23	4.6271e-10	1.2935	359	561	3.39%
Abnormality of the vasculature	50	8.5108e-110	1.1233e-107	2.0841	1,122	4.52%	40	1.9764e-8	1.2702	345	549	3.26%
Aplasia/hypoplasia involving the skeleton	52	8.8742e-109	1.1262e-106	2.0871	1,108	4.47%	48	6.0122e-8	1.2712	322	512	3.04%
Abnormal reproductive system morphology	54	3.4735e-107	4.2448e-105	2.0163	1,186	4.78%	149	5.9925e-5	1.2044	317	532	2.99%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes. *Human Phenotype* has 6,599 terms covering 3,215 (15%) of all 21,395 genes, and 244,972 term - gene associations. 6,599 ontology terms (100%) were tested using an annotation count range of [1, Inf].

Mouse Phenotype Single KO (20+ terms)

Global controls

Table controls: Shown top rows in this table: Term annotation count: Min: Max: Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
nervous system phenotype	1	0.0000	0.0000	2.0198	6,250	25.20%	1	2.4017e-99	1.3777	1,933	2,836	18.26%
lethality during fetal growth through weaning	1	0.0000	0.0000	2.2636	4,591	18.51%	6	4.0579e-81	1.4424	1,256	1,760	11.87%
preweaning lethality	1	0.0000	0.0000	2.0297	7,228	29.14%	8	8.4757e-80	1.2957	2,291	3,574	21.64%
abnormal nervous system morphology	1	0.0000	0.0000	2.1284	5,237	21.11%	9	7.1345e-79	1.3841	1,527	2,230	14.43%
cardiovascular system phenotype	1	0.0000	0.0000	2.0038	4,855	19.57%	12	5.1338e-65	1.3469	1,506	2,260	14.23%
skeleton phenotype	1	0.0000	0.0000	2.0889	4,309	17.37%	14	5.4533e-58	1.3576	1,295	1,928	12.23%
abnormal skeleton morphology	1	0.0000	0.0000	2.1029	4,150	16.73%	18	4.5641e-55	1.3582	1,231	1,832	11.63%
perinatal lethality	1	0.0000	0.0000	2.3825	2,795	11.27%	21	3.3852e-54	1.4908	725	983	6.85%
abnormal brain morphology	1	0.0000	0.0000	2.1793	3,392	13.67%	27	5.4929e-50	1.3996	941	1,359	8.89%
abnormal cardiovascular system morphology	1	0.0000	0.0000	2.0816	3,851	15.53%	30	1.1038e-47	1.3459	1,138	1,709	10.75%
abnormal axial skeleton morphology	1	0.0000	0.0000	2.2849	2,936	11.84%	39	2.1698e-41	1.3958	799	1,157	7.55%
vision/eye phenotype	1	0.0000	0.0000	2.2103	3,254	13.12%	41	5.1436e-41	1.3624	916	1,359	8.65%
abnormal eye morphology	1	0.0000	0.0000	2.2631	3,093	12.47%	42	5.3812e-39	1.3690	848	1,252	8.01%
embryo phenotype	1	0.0000	0.0000	2.1980	3,554	14.33%	66	1.1045e-28	1.2838	980	1,543	9.26%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
abnormal embryo morphology	1	0.0000	0.0000	2.2514	2,839	11.45%	98	5.3992e-24	1.2997	753	1,171	7.11%
craniofacial phenotype	37	1.0672e-321	2.6449e-319	2.2965	2,582	10.41%	50	2.7947e-37	1.4134	672	961	6.35%
abnormal craniofacial morphology	38	6.4130e-321	1.5476e-318	2.2966	2,576	10.39%	52	4.7118e-37	1.4130	669	957	6.32%
abnormal nervous system development	41	4.5886e-309	1.0263e-306	2.2738	2,535	10.22%	46	1.2492e-37	1.4166	670	956	6.33%
digestive/alimentary phenotype	42	8.2277e-308	1.7964e-305	2.2508	2,577	10.39%	53	5.4517e-37	1.3921	728	1,057	6.88%
integument phenotype	43	5.2598e-304	1.1217e-301	2.0038	3,270	13.18%	40	4.1423e-41	1.3401	1,019	1,537	9.63%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes.
 Mouse Phenotype Single KO has 9,170 terms covering 9,466 (44%) of all 21,395 genes, and 551,620 term - gene associations.
 9,170 ontology terms (100%) were tested using an annotation count range of [1, Inf].

Mouse Phenotype (20+ terms)

Global controls

Table controls: Shown top rows in this table: Term annotation count: Min: Max: Visualize this table:

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
nervous system phenotype	1	0.0000	0.0000	2.0178	7,247	29.22%	1	5.4564e-118	1.3728	2,278	3,354	21.52%
preweaning lethality	1	0.0000	0.0000	2.0169	8,080	32.57%	6	6.3495e-98	1.3034	2,611	4,049	24.67%
abnormal nervous system morphology	1	0.0000	0.0000	2.1077	6,259	25.23%	7	2.5688e-97	1.3800	1,868	2,736	17.65%
lethality during fetal growth through weaning	1	0.0000	0.0000	2.1916	5,683	22.91%	9	3.9913e-96	1.4142	1,619	2,314	15.30%
cardiovascular system phenotype	1	0.0000	0.0000	2.0191	5,626	22.68%	12	2.1219e-82	1.3588	1,760	2,618	16.63%
skeleton phenotype	1	0.0000	0.0000	2.0935	4,916	19.82%	14	5.7776e-73	1.3716	1,497	2,206	14.14%
perinatal lethality	1	0.0000	0.0000	2.3141	3,636	14.66%	15	1.0290e-70	1.4760	980	1,342	9.26%
abnormal skeleton morphology	1	0.0000	0.0000	2.1000	4,721	19.03%	19	1.3892e-68	1.3707	1,420	2,094	13.42%
abnormal cardiovascular system morphology	1	0.0000	0.0000	2.1081	4,671	18.83%	22	4.3602e-65	1.3645	1,390	2,059	13.13%
abnormal brain morphology	1	0.0000	0.0000	2.1813	4,221	17.02%	24	9.8089e-64	1.3973	1,189	1,720	11.23%
muscle phenotype	1	0.0000	0.0000	2.1167	3,461	13.95%	25	1.5579e-61	1.4261	1,028	1,457	9.71%
abnormal neuron morphology	1	0.0000	0.0000	2.1135	3,696	14.90%	30	5.5625e-58	1.3999	1,077	1,555	10.17%
neonatal lethality	1	0.0000	0.0000	2.3326	2,770	11.17%	32	5.3319e-57	1.4996	736	992	6.95%
abnormal cardiovascular system physiology	1	0.0000	0.0000	2.0101	3,632	14.64%	34	1.4099e-55	1.3813	1,118	1,636	10.56%
vision/eye phenotype	1	0.0000	0.0000	2.2196	3,859	15.56%	35	1.6325e-54	1.3830	1,090	1,593	10.30%
abnormal eye morphology	1	0.0000	0.0000	2.2657	3,675	14.82%	37	1.1838e-52	1.3911	1,020	1,482	9.64%
abnormal axial skeleton morphology	1	0.0000	0.0000	2.2751	3,411	13.75%	39	3.9310e-51	1.4036	943	1,358	8.91%
digestive/alimentary phenotype	1	0.0000	0.0000	2.2263	3,300	13.30%	40	2.4669e-50	1.3961	958	1,387	9.05%

Term Name	Binom Rank	Binom Raw P-Value	Binom FDR Q-Val	Binom Fold Enrichment	Binom Observed Region Hits	Binom Region Set Coverage	Hyper Rank	Hyper FDR Q-Val	Hyper Fold Enrichment	Hyper Observed Gene Hits	Hyper Total Genes	Hyper Gene Set Coverage
abnormal heart morphology	1	0.0000	0.0000	2.1154	3,401	13.71%	45	8.8750e-49	1.3771	1,007	1,478	9.51%
postnatal lethality	1	0.0000	0.0000	2.1099	3,290	13.26%	47	1.5822e-48	1.3906	946	1,375	8.94%

The test set of 24,805 genomic regions picked 10,585 (49%) of all 21,395 genes.

Mouse Phenotype has 9,575 terms covering 9,654 (45%) of all 21,395 genes, and 705,265 term - gene associations. 9,575 ontology terms (100%) were tested using an annotation count range of [1, Inf].