

### Job Description

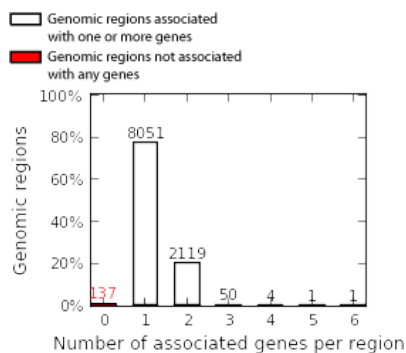
Job ID: 20201106-public-4.0.4-pOIBTG  
 Display name:   
 Test set: cluster\_1\_galaxy.bed (10,363 genomic regions)  
[Show in UCSC genome browser.](#) [How do I look at my regions in the genome?](#)  
 Background: Whole genome background  
 Assembly: Mouse: NCBI build 38 (UCSC mm10, Dec. 2011) [What gene set does GREAT use?](#)  
 Associated genomic regions: Basal+extension (constitutive 5.0 kb upstream and 1.0 kb downstream, up to 100.0 kb max extension). Curated regulatory domains are included.  
 137 of all 10,363 genomic regions (1.3%) are not associated with any genes.  
[View all genomic region-gene associations.](#) [Which genes are my regions associated with?](#)  
[Revise the region-gene association rule.](#) [How are my regions associated with genes?](#)

### Region-Gene Association Graphs

[What do these graphs illustrate?](#)

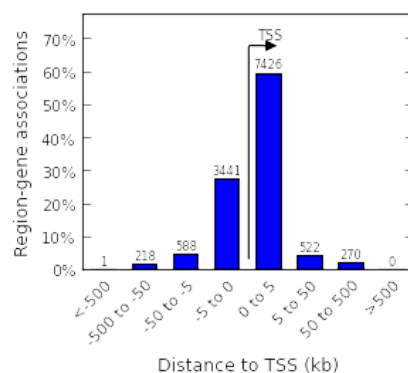
Number of associated genes per region

[Download as PDF.](#)



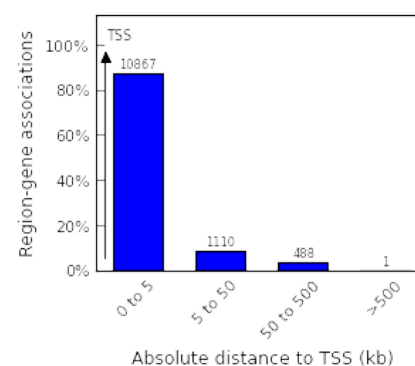
Binned by orientation and distance to TSS

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Binned by absolute distance to TSS

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### Global Controls

[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
<a href="#">cellular metabolic process</a>	1	0.0000	0.0000	2.1754	5,642	54.44%	1	0.0000	1.3744	5,299	7,645	49.11%
<a href="#">cellular macromolecule metabolic process</a>	1	0.0000	0.0000	2.2797	4,758	45.91%	1	0.0000	1.4471	4,341	5,948	40.23%
<a href="#">primary metabolic process</a>	1	0.0000	0.0000	2.1537	5,656	54.58%	3	4.1172e-315	1.3374	5,288	7,840	49.01%
<a href="#">organic substance metabolic process</a>	1	0.0000	0.0000	2.1356	5,863	56.58%	4	7.1684e-314	1.3241	5,495	8,229	50.93%

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
metabolic process	1	0.0000	0.0000	2.1144	6,062	58.50%	5	2.9869e-311	1.3088	5,732	8,684	53.12%
macromolecule metabolic process	1	0.0000	0.0000	2.2024	5,026	48.50%	6	5.5768e-311	1.3802	4,601	6,610	42.64%
cellular nitrogen compound metabolic process	1	0.0000	0.0000	2.3494	3,605	34.79%	7	1.2216e-260	1.4552	3,224	4,393	29.88%
nitrogen compound metabolic process	1	0.0000	0.0000	2.2888	3,792	36.59%	8	1.6901e-252	1.4286	3,405	4,726	31.56%
nucleobase-containing compound metabolic process	1	0.0000	0.0000	2.3600	3,203	30.91%	9	5.2295e-240	1.4771	2,827	3,795	26.20%
heterocycle metabolic process	1	0.0000	0.0000	2.3443	3,277	31.62%	10	1.5912e-235	1.4635	2,897	3,925	26.85%
nucleic acid metabolic process	1	0.0000	0.0000	2.4180	2,898	27.96%	11	6.6600e-231	1.5060	2,517	3,314	23.33%
cellular aromatic compound metabolic process	1	0.0000	0.0000	2.3173	3,293	31.78%	12	1.2004e-228	1.4537	2,912	3,972	26.99%
organic cyclic compound metabolic process	1	0.0000	0.0000	2.2870	3,389	32.70%	13	2.9937e-220	1.4337	3,005	4,156	27.85%
cellular component organization or biogenesis	1	0.0000	0.0000	2.0322	3,781	36.49%	14	2.9067e-195	1.3650	3,440	4,997	31.88%
gene expression	1	0.0000	0.0000	2.3642	2,742	26.46%	15	2.5992e-192	1.4760	2,353	3,161	21.81%
cellular protein metabolic process	1	0.0000	0.0000	2.2199	2,577	24.87%	16	3.7990e-183	1.4649	2,336	3,162	21.65%
cellular biosynthetic process	1	0.0000	0.0000	2.1863	2,993	28.88%	17	1.9868e-173	1.4149	2,628	3,683	24.36%
RNA metabolic process	1	0.0000	0.0000	2.3580	2,498	24.10%	18	1.2928e-171	1.4766	2,129	2,859	19.73%
organic substance biosynthetic process	1	0.0000	0.0000	2.1791	3,035	29.29%	19	1.8193e-170	1.4070	2,661	3,750	24.66%
biosynthetic process	1	0.0000	0.0000	2.1688	3,078	29.70%	20	3.1964e-169	1.4004	2,707	3,833	25.09%

The test set of 10,363 genomic regions picked 10,790 (50%) 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
intracellular	1	0.0000	0.0000	2.1073	8,920	86.08%	1	0.0000	1.2738	8,917	13,881	82.64%
nucleus	1	0.0000	0.0000	2.2418	5,293	51.08%	1	0.0000	1.4167	4,857	6,798	45.01%
cytoplasm	1	0.0000	0.0000	2.0990	7,091	68.43%	1	0.0000	1.3167	6,928	10,433	64.21%
organelle	1	0.0000	0.0000	2.1049	8,418	81.23%	1	0.0000	1.2831	8,323	12,862	77.14%
membrane-bounded organelle	1	0.0000	0.0000	2.1348	7,982	77.02%	1	0.0000	1.3091	7,793	11,804	72.22%
intracellular organelle	1	0.0000	0.0000	2.1677	8,052	77.70%	1	0.0000	1.3272	7,899	11,801	73.21%
intracellular membrane-bounded organelle	1	0.0000	0.0000	2.2281	7,308	70.52%	1	0.0000	1.3825	7,069	10,139	65.51%

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
<a href="#">organelle lumen</a>	1	0.0000	0.0000	2.4688	3,544	34.20%	1	0.0000	1.5641	3,205	4,063	29.70%
<a href="#">organelle part</a>	1	0.0000	0.0000	2.2681	6,055	58.43%	1	0.0000	1.4123	5,790	8,129	53.66%
<a href="#">intracellular part</a>	1	0.0000	0.0000	2.1227	8,758	84.51%	1	0.0000	1.2885	8,738	13,447	80.98%
<a href="#">nuclear part</a>	1	0.0000	0.0000	2.4301	3,502	33.79%	1	0.0000	1.5512	3,141	4,015	29.11%
<a href="#">cytoplasmic part</a>	1	0.0000	0.0000	2.1439	5,750	55.49%	1	0.0000	1.3627	5,511	8,019	51.08%
<a href="#">intracellular organelle part</a>	1	0.0000	0.0000	2.3042	5,979	57.70%	1	0.0000	1.4314	5,703	7,900	52.85%
<a href="#">intracellular organelle lumen</a>	1	0.0000	0.0000	2.4720	3,543	34.19%	1	0.0000	1.5648	3,204	4,060	29.69%
<a href="#">nuclear lumen</a>	1	0.0000	0.0000	2.4464	3,166	30.55%	15	5.6226e-318	1.5634	2,818	3,574	26.12%
<a href="#">nucleoplasm</a>	1	0.0000	0.0000	2.5392	2,492	24.05%	16	5.3197e-280	1.6201	2,193	2,684	20.32%
<a href="#">macromolecular complex</a>	1	0.0000	0.0000	2.2565	3,964	38.25%	17	4.8913e-276	1.4257	3,667	5,100	33.99%
<a href="#">cytosol</a>	1	0.0000	0.0000	2.2801	2,807	27.09%	18	1.6815e-214	1.4842	2,509	3,352	23.25%
<a href="#">protein complex</a>	1	0.0000	0.0000	2.3392	2,665	25.72%	19	1.7751e-193	1.4738	2,371	3,190	21.97%
<a href="#">intracellular non-membrane-bounded organelle</a>	1	0.0000	0.0000	2.2206	3,222	31.09%	20	1.0608e-179	1.3930	2,905	4,135	26.92%

The test set of 10,363 genomic regions picked 10,790 (50%) 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
<a href="#">heterocyclic compound binding</a>	1	0.0000	0.0000	2.1803	4,445	42.89%	1	1.1660e-203	1.3331	3,993	5,939	37.01%
<a href="#">organic cyclic compound binding</a>	1	0.0000	0.0000	2.1609	4,474	43.17%	2	1.4474e-192	1.3205	4,017	6,032	37.23%
<a href="#">nucleic acid binding</a>	1	0.0000	0.0000	2.3833	3,267	31.53%	3	1.1318e-187	1.4118	2,836	3,983	26.28%
<a href="#">RNA binding</a>	8	2.8284e-298	1.4605e-295	2.8352	1,584	15.29%	4	9.8560e-177	1.6399	1,382	1,671	12.81%
<a href="#">transferase activity</a>	11	4.2811e-186	1.6078e-183	2.0565	1,812	17.49%	8	2.3413e-94	1.3992	1,647	2,334	15.26%
<a href="#">DNA binding</a>	12	3.8927e-177	1.3401e-174	2.0867	1,680	16.21%	25	6.8530e-44	1.2896	1,371	2,108	12.71%
<a href="#">enzyme binding</a>	13	7.0419e-166	2.2377e-163	2.1008	1,560	15.05%	9	2.7784e-84	1.4196	1,376	1,922	12.75%
<a href="#">hydrolase activity, acting on acid anhydrides</a>	33	1.4043e-63	1.7579e-61	2.0538	656	6.33%	41	1.9260e-26	1.3631	585	851	5.42%
<a href="#">hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides</a>	34	1.6013e-63	1.9456e-61	2.0543	655	6.32%	40	1.6960e-26	1.3639	584	849	5.41%
<a href="#">pyrophosphatase activity</a>	35	2.9674e-63	3.5024e-61	2.0534	653	6.30%	42	3.1041e-26	1.3625	582	847	5.39%

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 binding	36	5.7220e-63	6.5660e-61	2.2333	539	5.20%	30	5.0014e-34	1.5057	426	561	3.95%
kinase binding	37	1.8289e-60	2.0419e-58	2.1551	559	5.39%	35	8.3316e-31	1.4502	471	644	4.37%
chromatin binding	38	2.7096e-59	2.9456e-57	2.2020	523	5.05%	36	1.6717e-30	1.4801	418	560	3.87%
nucleoside-triphosphatase activity	39	8.5414e-59	9.0473e-57	2.0438	614	5.92%	49	2.2088e-23	1.3515	548	804	5.08%
protein kinase binding	43	6.5958e-52	6.3365e-50	2.1325	491	4.74%	39	5.7872e-27	1.4481	417	571	3.86%
ubiquitin-like protein transferase activity	44	5.3931e-51	5.0634e-49	2.2971	411	3.97%	31	2.1725e-33	1.5518	360	460	3.34%
ubiquitin-protein transferase activity	46	1.1365e-49	1.0206e-47	2.3060	397	3.83%	32	4.9046e-33	1.5602	347	441	3.22%
transcription factor activity, protein binding	47	4.7643e-49	4.1875e-47	2.1159	472	4.55%	48	1.0574e-23	1.4397	379	522	3.51%
transcription factor activity, transcription factor binding	48	3.1485e-47	2.7097e-45	2.1024	461	4.45%	53	1.9132e-22	1.4312	371	514	3.44%
transcription cofactor activity	52	3.8286e-43	3.0415e-41	2.1441	402	3.88%	56	5.8032e-20	1.4380	322	444	2.98%

The test set of 10,363 genomic regions picked 10,790 (50%) 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
Abnormality of the nervous system	1	7.7393e-171	5.1072e-167	2.0426	1,702	16.42%	14	2.1253e-90	1.4187	1,471	2,056	13.63%
Abnormality of nervous system physiology	2	1.7719e-163	5.8465e-160	2.0832	1,567	15.12%	10	2.9540e-93	1.4483	1,360	1,862	12.60%
Abnormality of nervous system morphology	3	2.3863e-151	5.2491e-148	2.1703	1,339	12.92%	6	1.4349e-98	1.5105	1,164	1,528	10.79%
Morphological abnormality of the central nervous system	4	5.4701e-149	9.0242e-146	2.2360	1,242	11.98%	2	5.0716e-105	1.5565	1,077	1,372	9.98%
Abnormality of the musculature	5	1.0415e-147	1.3746e-144	2.2306	1,238	11.95%	16	2.2242e-89	1.5046	1,079	1,422	10.00%
Abnormality of skeletal morphology	6	1.2557e-146	1.3810e-143	2.1283	1,354	13.07%	17	9.1054e-86	1.4710	1,161	1,565	10.76%
Neurodevelopmental abnormality	7	2.4964e-146	2.3534e-143	2.2280	1,230	11.87%	3	6.5618e-102	1.5538	1,054	1,345	9.77%
Abnormality of brain morphology	8	4.0281e-143	3.3226e-140	2.2747	1,156	11.16%	1	3.4825e-108	1.5907	1,006	1,254	9.32%
Abnormality of the skeletal system	9	5.6923e-142	4.1738e-139	2.0823	1,377	13.29%	20	9.3095e-79	1.4430	1,184	1,627	10.97%
Abnormality of head or neck	10	1.0100e-140	6.6649e-138	2.0752	1,376	13.28%	23	1.0168e-77	1.4394	1,184	1,631	10.97%
Abnormality of the head	11	3.4607e-140	2.0761e-137	2.0801	1,364	13.16%	21	1.9749e-78	1.4449	1,171	1,607	10.85%
Abnormality of the eye	12	1.2155e-134	6.6843e-132	2.0871	1,304	12.58%	24	2.1388e-75	1.4457	1,125	1,543	10.43%

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
<a href="#">Abnormal axial skeleton morphology</a>	13	1.5110e-133	7.6701e-131	2.2080	1,149	11.09%	15	6.9730e-90	1.5336	990	1,280	9.18%
<a href="#">Abnormality of muscle physiology</a>	14	4.8357e-131	2.2793e-128	2.2747	1,063	10.26%	19	4.0202e-84	1.5313	936	1,212	8.67%
<a href="#">Neurodevelopmental delay</a>	15	2.3076e-126	1.0152e-123	2.3535	961	9.27%	13	9.9819e-91	1.6040	813	1,005	7.53%
<a href="#">Abnormal muscle tone</a>	16	4.9795e-125	2.0537e-122	2.3818	930	8.97%	12	1.4414e-91	1.6055	817	1,009	7.57%
<a href="#">Abnormality of the skull</a>	17	4.7307e-124	1.8364e-121	2.2871	998	9.63%	11	7.0335e-93	1.5922	860	1,071	7.97%
<a href="#">Global developmental delay</a>	18	1.5712e-123	5.7603e-121	2.5634	805	7.77%	8	9.1349e-96	1.6904	682	800	6.32%
<a href="#">Abnormality of the cerebrum</a>	20	3.2719e-120	1.0796e-117	2.3923	888	8.57%	4	4.3467e-101	1.6658	767	913	7.11%
<a href="#">Abnormality of forebrain morphology</a>	21	6.8040e-120	2.1381e-117	2.3876	889	8.58%	5	6.4452e-101	1.6643	768	915	7.12%

The test set of 10,363 genomic regions picked 10,790 (50%) 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
<a href="#">preweaning lethality</a>	1	0.0000	0.0000	2.0809	3,096	29.88%	1	1.1384e-241	1.4963	2,697	3,574	25.00%
<a href="#">abnormal survival</a>	1	0.0000	0.0000	2.0402	3,376	32.58%	2	7.5098e-241	1.4632	2,959	4,010	27.42%
<a href="#">prenatal lethality</a>	4	2.0302e-257	4.6542e-254	2.3251	1,908	18.41%	3	3.4866e-218	1.6448	1,659	2,000	15.38%
<a href="#">embryonic lethality</a>	5	8.7049e-219	1.5965e-215	2.4369	1,514	14.61%	5	2.2779e-200	1.7055	1,322	1,537	12.25%
<a href="#">embryo phenotype</a>	9	5.1922e-150	5.2903e-147	2.1021	1,420	13.70%	7	5.9988e-119	1.5549	1,210	1,543	11.21%
<a href="#">embryonic lethality prior to tooth bud stage</a>	11	6.1674e-128	5.1414e-125	2.6749	775	7.48%	6	1.2608e-126	1.8009	683	752	6.33%
<a href="#">embryonic lethality prior to organogenesis</a>	13	6.8683e-121	4.8448e-118	2.7423	704	6.79%	8	1.3044e-117	1.8108	621	680	5.76%
<a href="#">abnormal embryo morphology</a>	14	9.9529e-117	6.5192e-114	2.1108	1,112	10.73%	10	5.5429e-98	1.5815	934	1,171	8.66%
<a href="#">abnormal prenatal growth/weight/body size</a>	17	1.1297e-104	6.0938e-102	2.1446	968	9.34%	9	5.1160e-100	1.6367	818	991	7.58%
<a href="#">preweaning lethality, complete penetrance</a>	18	1.7663e-103	8.9986e-101	2.4273	747	7.21%	11	5.1414e-94	1.6916	668	783	6.19%
<a href="#">abnormal embryo development</a>	19	5.4444e-103	2.6276e-100	2.2575	856	8.26%	13	4.9705e-90	1.6444	724	873	6.71%
<a href="#">abnormal embryonic growth/weight/body size</a>	22	9.1130e-90	3.7985e-87	2.1755	809	7.81%	12	5.3138e-90	1.6649	686	817	6.36%
<a href="#">abnormal prenatal body size</a>	34	2.4610e-75	6.6375e-73	2.1097	729	7.03%	16	2.4187e-74	1.6356	617	748	5.72%
<a href="#">abnormal cell morphology</a>	35	3.2559e-75	8.5305e-73	2.0077	817	7.88%	31	1.1448e-37	1.3970	713	1,012	6.61%
<a href="#">abnormal embryonic tissue morphology</a>	36	5.0065e-75	1.2753e-72	2.0308	793	7.65%	22	2.0910e-59	1.5407	655	843	6.07%
<a href="#">embryonic lethality during organogenesis</a>	37	9.6278e-75	2.3861e-72	2.1234	713	6.88%	19	3.8086e-64	1.5959	598	743	5.54%

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
<a href="#">prenatal growth retardation</a>	46	<b>1.1013e-64</b>	<b>2.1954e-62</b>	2.2463	547	5.28%	20	<b>9.2828e-64</b>	1.6896	461	541	4.27%
<a href="#">abnormal embryo size</a>	48	<b>3.3977e-64</b>	<b>6.4910e-62</b>	2.1333	607	5.86%	17	<b>3.0571e-67</b>	1.6664	516	614	4.78%
<a href="#">embryonic lethality during organogenesis, complete penetrance</a>	49	<b>1.0243e-61</b>	<b>1.9169e-59</b>	2.1493	574	5.54%	23	<b>3.6147e-56</b>	1.6276	481	586	4.46%
<a href="#">embryonic lethality between implantation and placentation</a>	51	<b>6.2623e-61</b>	<b>1.1260e-58</b>	2.5153	413	3.99%	21	<b>7.6007e-61</b>	1.7741	357	399	3.31%

The test set of 10,363 genomic regions picked 10,790 (50%) 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
<a href="#">preweaning lethality</a>	1	<b>0.0000</b>	<b>0.0000</b>	2.0374	3,410	32.91%	1	<b>5.2831e-243</b>	1.4628	2,987	4,049	27.68%
<a href="#">prenatal lethality</a>	4	<b>4.4271e-291</b>	<b>1.0597e-287</b>	2.2713	2,219	21.41%	3	<b>6.8570e-228</b>	1.6039	1,913	2,365	17.73%
<a href="#">embryonic lethality</a>	5	<b>3.3330e-253</b>	<b>6.3827e-250</b>	2.4105	1,764	17.02%	4	<b>2.3486e-215</b>	1.6759	1,518	1,796	14.07%
<a href="#">embryo phenotype</a>	9	<b>9.0263e-174</b>	<b>9.6030e-171</b>	2.0945	1,638	15.81%	6	<b>1.6400e-129</b>	1.5346	1,390	1,796	12.88%
<a href="#">abnormal embryo morphology</a>	13	<b>7.8477e-143</b>	<b>5.7802e-140</b>	2.1285	1,321	12.75%	10	<b>1.4175e-110</b>	1.5644	1,099	1,393	10.19%
<a href="#">embryonic lethality prior to tooth bud stage</a>	16	<b>7.2705e-134</b>	<b>4.3510e-131</b>	2.6359	830	8.01%	7	<b>6.8197e-128</b>	1.7777	728	812	6.75%
<a href="#">abnormal prenatal growth/weight/body size</a>	19	<b>9.8239e-128</b>	<b>4.9507e-125</b>	2.1546	1,159	11.18%	9	<b>1.1021e-113</b>	1.6187	969	1,187	8.98%
<a href="#">embryonic lethality prior to organogenesis</a>	20	<b>1.3045e-125</b>	<b>6.2451e-123</b>	2.6905	754	7.28%	8	<b>6.0252e-119</b>	1.7884	662	734	6.14%
<a href="#">abnormal embryo development</a>	22	<b>1.6141e-118</b>	<b>7.0250e-116</b>	2.2310	1,004	9.69%	12	<b>3.0130e-98</b>	1.6194	842	1,031	7.80%
<a href="#">abnormal embryonic growth/weight/body size</a>	25	<b>2.8873e-114</b>	<b>1.1059e-111</b>	2.2008	997	9.62%	11	<b>3.6862e-107</b>	1.6557	830	994	7.69%
<a href="#">preweaning lethality, complete penetrance</a>	31	<b>6.6396e-105</b>	<b>2.0508e-102</b>	2.3988	774	7.47%	14	<b>2.6805e-93</b>	1.6763	689	815	6.39%
<a href="#">embryonic lethality during organogenesis</a>	33	<b>2.1034e-103</b>	<b>6.1030e-101</b>	2.1721	931	8.98%	17	<b>5.6879e-82</b>	1.5917	765	953	7.09%
<a href="#">abnormal prenatal body size</a>	40	<b>1.0951e-94</b>	<b>2.6214e-92</b>	2.1500	874	8.43%	16	<b>2.8525e-87</b>	1.6300	730	888	6.77%
<a href="#">abnormal embryonic tissue morphology</a>	42	<b>2.8190e-94</b>	<b>6.4266e-92</b>	2.0501	968	9.34%	23	<b>2.2771e-66</b>	1.5155	788	1,031	7.30%
<a href="#">abnormal cell morphology</a>	44	<b>2.0349e-92</b>	<b>4.4283e-90</b>	2.0243	978	9.44%	31	<b>2.9209e-48</b>	1.4102	852	1,198	7.90%
<a href="#">embryonic lethality during organogenesis, complete penetrance</a>	50	<b>5.8681e-85</b>	<b>1.1237e-82</b>	2.1898	756	7.30%	20	<b>2.9784e-71</b>	1.6181	621	761	5.76%
<a href="#">abnormal embryo size</a>	52	<b>1.1754e-82</b>	<b>2.1643e-80</b>	2.1869	738	7.12%	18	<b>6.8221e-82</b>	1.6709	616	731	5.71%
<a href="#">prenatal growth retardation</a>	60	<b>1.3664e-75</b>	<b>2.1805e-73</b>	2.2067	663	6.40%	21	<b>2.2047e-70</b>	1.6564	553	662	5.13%

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
<b>decreased embryo size</b>	70	<b>9.2257e-69</b>	<b>1.2619e-66</b>	2.1557	635	6.13%	22	<b>3.8289e-69</b>	1.6688	526	625	4.87%
<b>embryonic growth retardation</b>	76	<b>1.2484e-65</b>	<b>1.5729e-63</b>	2.2125	573	5.53%	24	<b>1.2880e-62</b>	1.6687	478	568	4.43%

The test set of 10,363 genomic regions picked 10,790 (50%) 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].