

Supplementary Figures

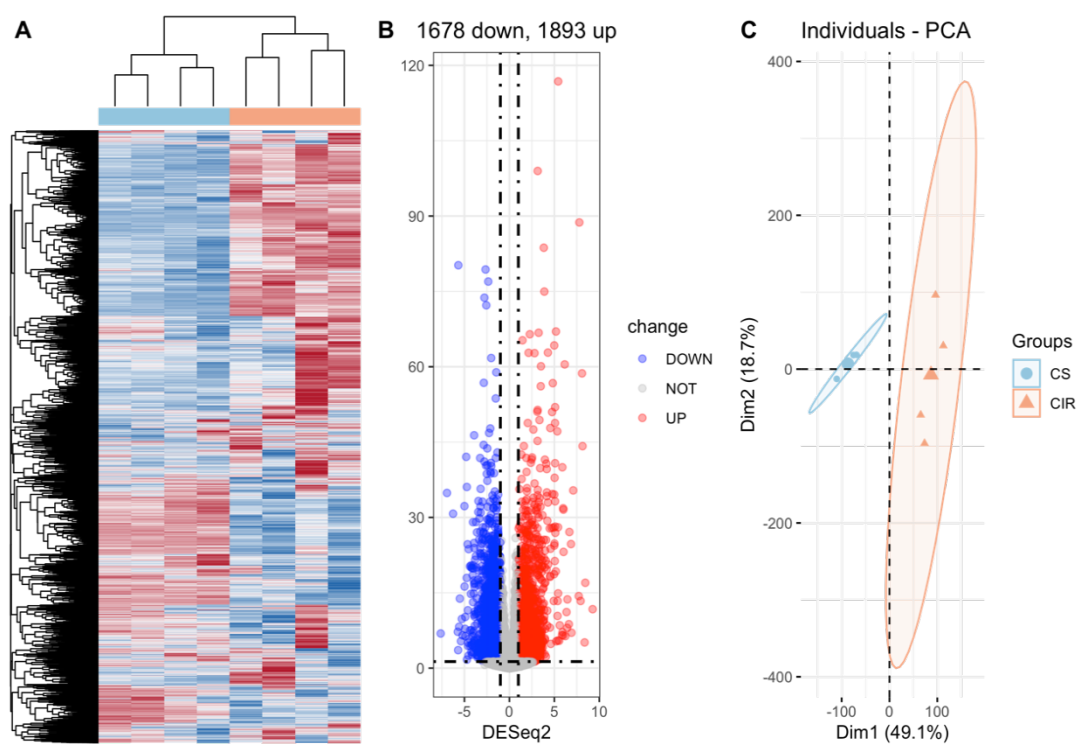


Figure S1 PCA plot(A), Heatmap (B) and Volcano plot(C) of 3571 mouse DEGs. In the volcano plots of DEGs, the horizontal axis represents the \log_2 fold change (CIR versus CS), the vertical axis represents the $-\log_{10}(p\text{-value})$ of DEGs. Colors represent different genes: Grey nodes represent genes without significantly different expression, red nodes represent up-regulated genes, and blue nodes represent down-regulated genes.

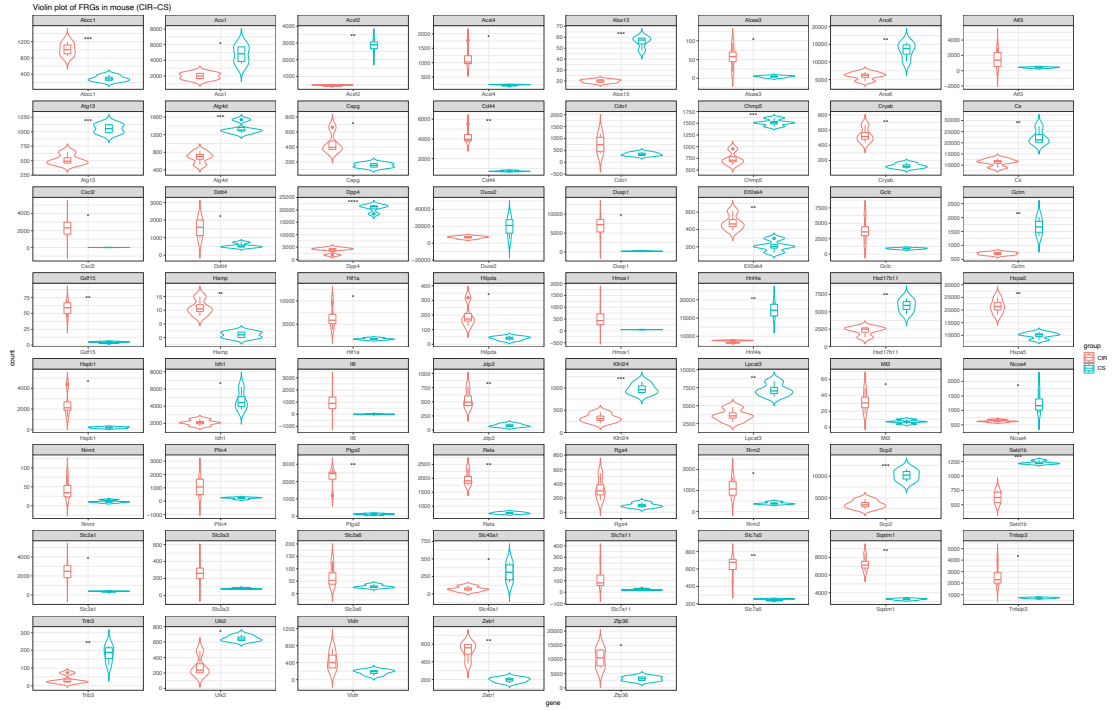


Figure S2 The violin plot of the FRGs between mouse intestinal I/R samples (CIR) and Sham samples (CS). Student's t-tests were utilized for the analysis between two groups (*p<0.05, **p<0.01, *p<0.001, ****p<0.0001).**

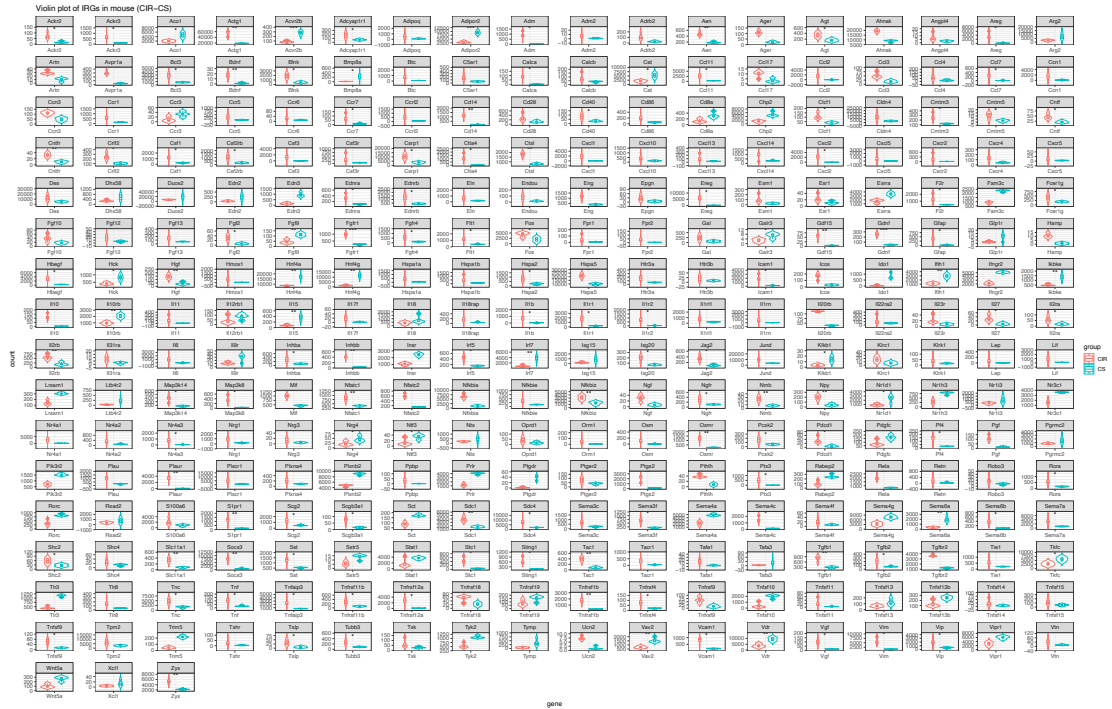


Figure S3 The violin plot of the IRGs between mouse intestinal I/R samples (CIR) and Sham samples (CS). Student's t-tests were utilized for the analysis between two groups (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$).

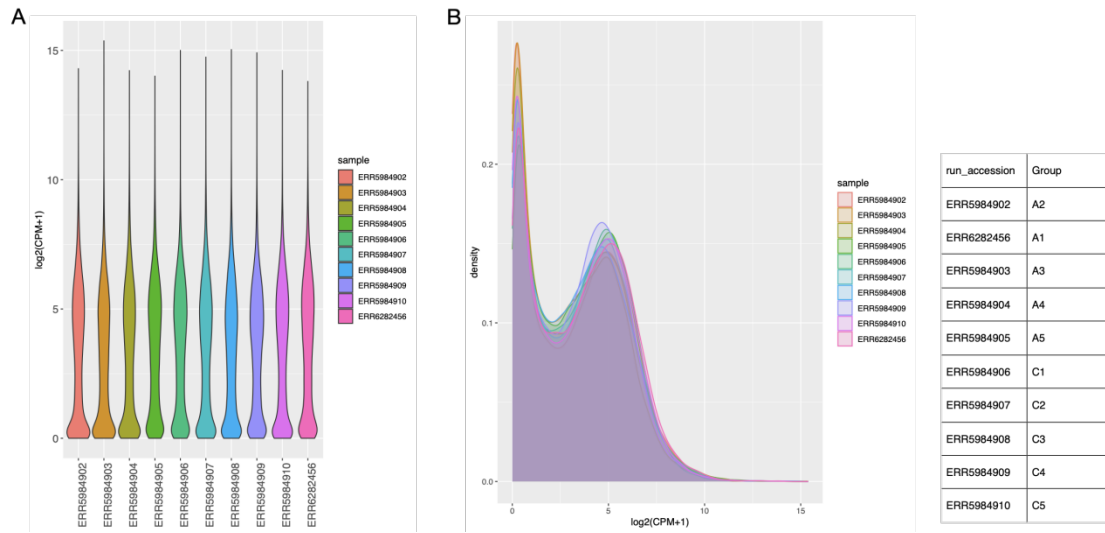


Figure S4 Violin plot (A) and density plot (B) of human samples datasets.

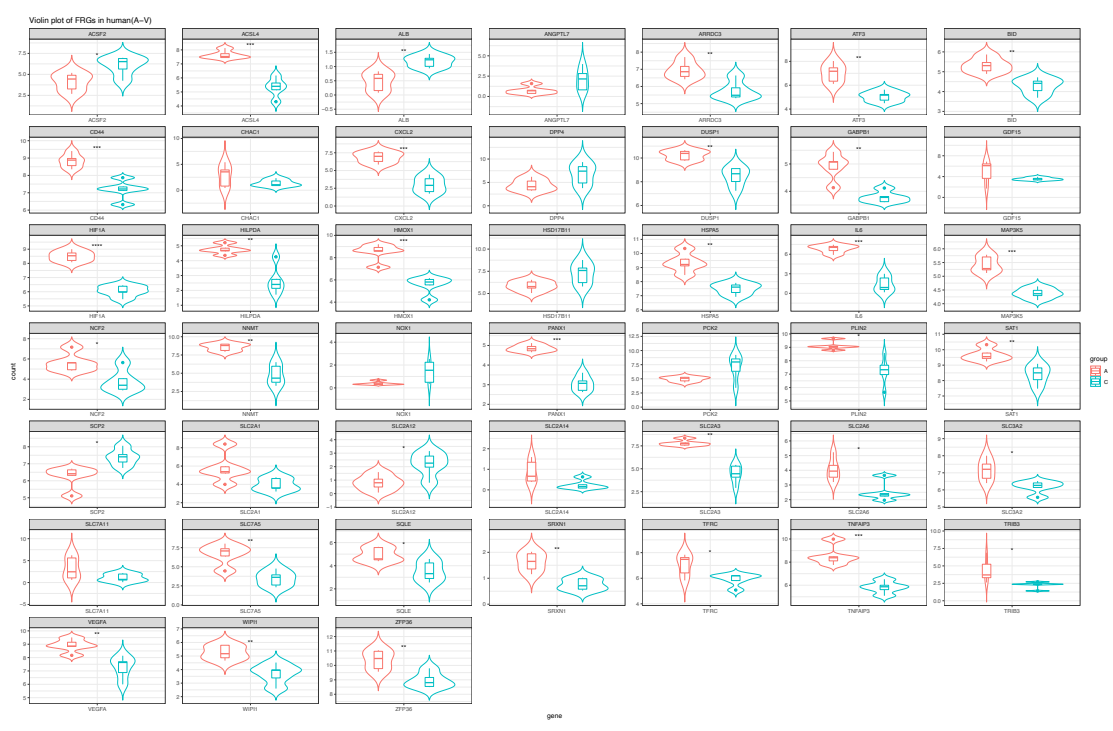


Figure S5 The violin plot of the FRGs between human intestinal I/R samples (A) and control samples(C). Student's t-tests were utilized for the analysis between two groups (*p<0.05, **p<0.01, *p<0.001, ****p<0.0001).**



Figure S6 The violin plot of the FRGs between human intestinal I/R samples (A) and control samples(C). Student's t-tests were utilized for the analysis between two groups (*p<0.05, **p<0.01, *p<0.001, ****p<0.0001).**

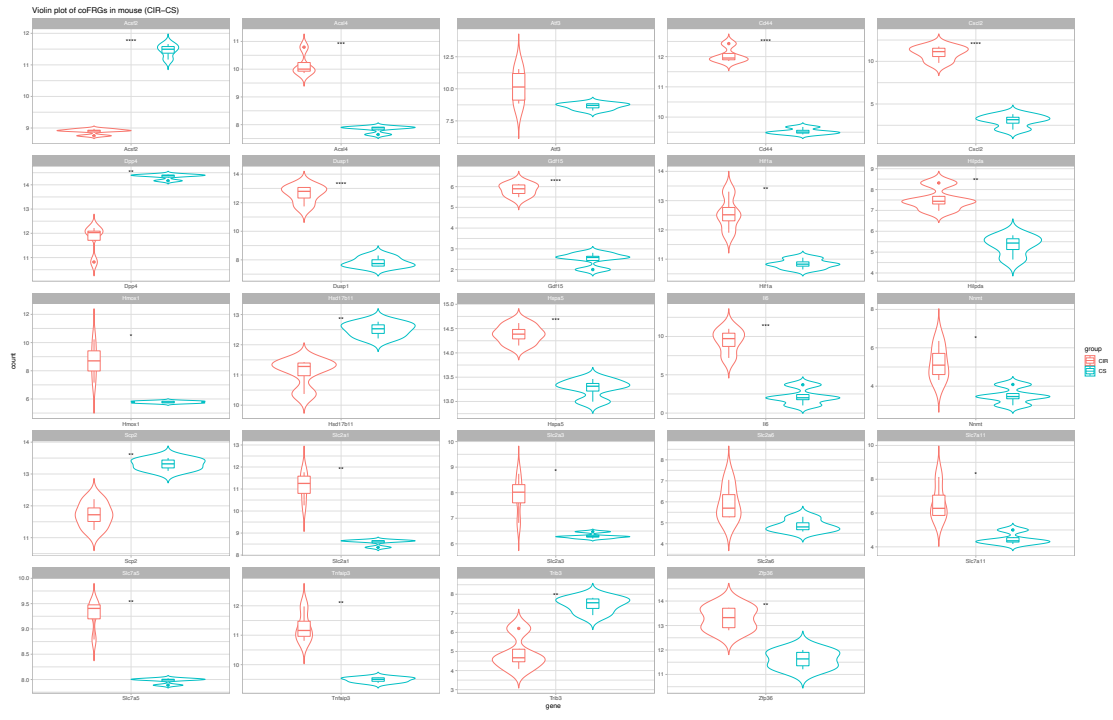


Figure S7 The violin plot of the coFRGs between mouse intestinal I/R samples (CIR) and Sham samples (CS). Student's t-tests were utilized for the analysis between two groups (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$).

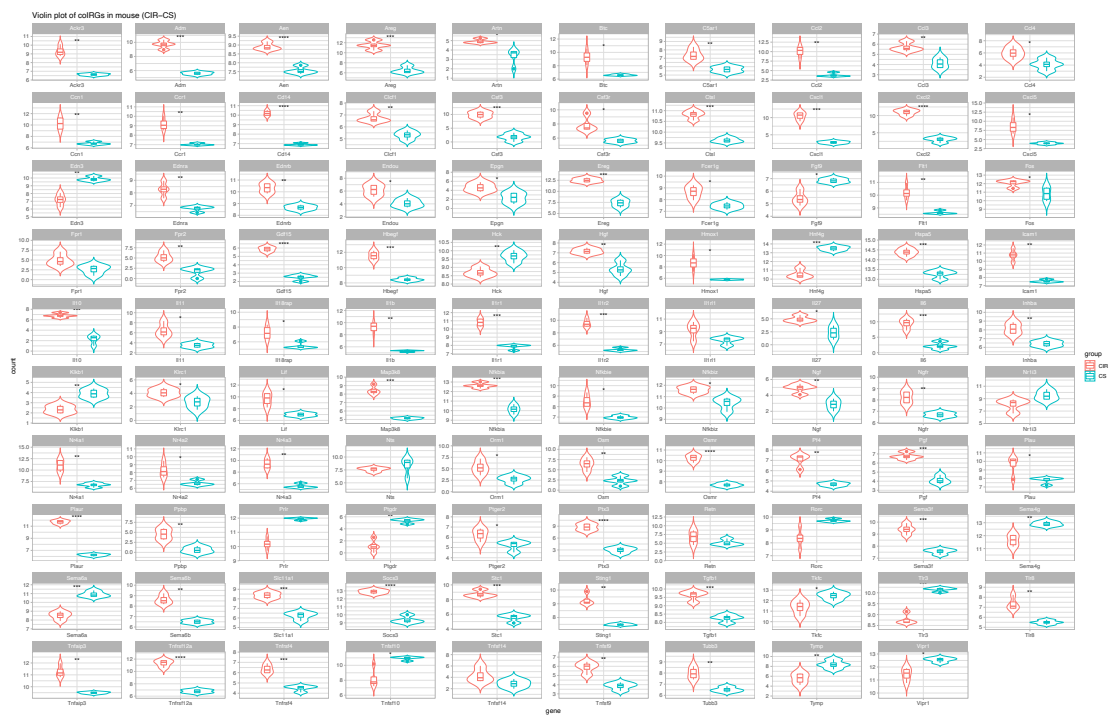


Figure S8 The violin plot of the coIRGs between mouse intestinal I/R samples (CIR) and Sham samples (CS). Student's t-tests were utilized for the analysis between two groups (* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$).

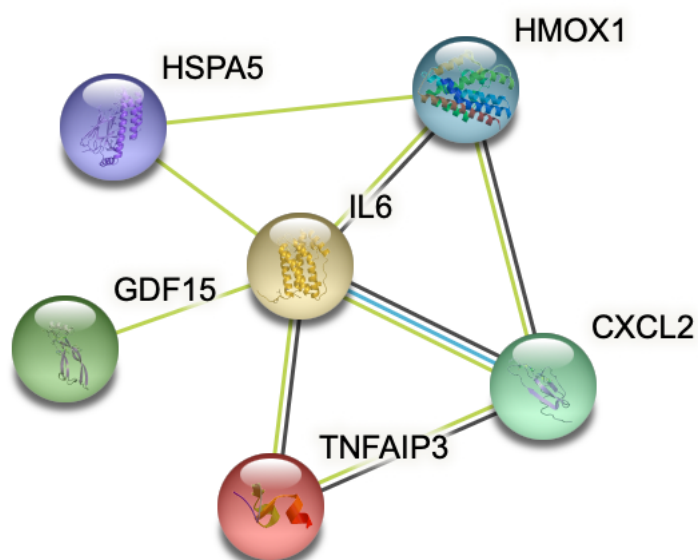


Figure S9 The Protein-protein interaction of the 6 hub genes (STRING).

Supplementary Tables

Table S1 3571 DEGs obtained from the 4 mice intestinal I/R injury samples and 4 sham samples

	baseMean	log2FoldChange	lfcSE	stat	pvalue	padj	change
Cd8a	227.5969	-1.4471	0.3390	-4.2683	0.0000	0.0001	DOWN
Ctsl	1290.2801	1.1249	0.1465	7.6769	0.0000	0.0000	UP
Fcer1g	295.2864	1.1507	0.2747	4.1890	0.0000	0.0001	UP
Hspa1a	249.8522	3.0017	0.5136	5.8444	0.0000	0.0000	UP
Hspa1b	315.4612	2.7424	0.5231	5.2427	0.0000	0.0000	UP
Hspa2	528.0201	1.8699	0.3681	5.0796	0.0000	0.0000	UP
Hspa5	15590.4584	1.0396	0.1319	7.8797	0.0000	0.0000	UP
Orm1	29.9014	3.0789	0.7494	4.1083	0.0000	0.0002	UP
Tnf	62.0875	1.8857	0.3764	5.0093	0.0000	0.0000	UP
Aen	334.2983	1.2905	0.1824	7.0758	0.0000	0.0000	UP

Isg20	127.7586	1.3356	0.2722	4.9059	0.0000	0.0000	UP
Bcl3	1794.9644	1.7614	0.2588	6.8057	0.0000	0.0000	UP
Duox2	12897.4764	-1.4778	0.4445	-3.3248	0.0009	0.0028	DOWN
Tlr3	799.7092	-1.4546	0.1214	-11.9811	0.0000	0.0000	DOWN
Ifih1	2092.9377	-1.4353	0.1990	-7.2124	0.0000	0.0000	DOWN
Trim5	134.8520	-2.2982	0.2166	-10.6115	0.0000	0.0000	DOWN
Ido1	427.1897	-4.2875	0.5384	-7.9631	0.0000	0.0000	DOWN
Gdf15	30.7772	3.5349	0.4410	8.0148	0.0000	0.0000	UP
Adipoq	316.6370	2.2755	0.8419	2.7027	0.0069	0.0169	UP
Stat1	2772.7339	-1.1007	0.4070	-2.7043	0.0068	0.0168	DOWN
Socs3	4125.9661	3.4227	0.2568	13.3304	0.0000	0.0000	UP
Tnfsf10	1226.0547	-2.3448	0.5273	-4.4469	0.0000	0.0000	DOWN
Il15	230.5672	-2.1466	0.2655	-8.0847	0.0000	0.0000	DOWN
Cd40	55.7655	1.3622	0.3393	4.0152	0.0001	0.0002	UP
Zyx	3782.3772	1.2005	0.1989	6.0354	0.0000	0.0000	UP
Ikbke	946.8417	-1.4938	0.1602	-9.3267	0.0000	0.0000	DOWN
Isg15	570.8959	-2.0794	0.5153	-4.0356	0.0001	0.0002	DOWN
Dhx58	429.2746	-1.0568	0.3209	-3.2928	0.0010	0.0031	DOWN
Tnfaip3	1622.8784	1.7687	0.2201	8.0374	0.0000	0.0000	UP
F2r	912.8571	1.3448	0.2131	6.3095	0.0000	0.0000	UP
Eln	408.9123	1.6781	0.4354	3.8541	0.0001	0.0004	UP
Il27	18.2204	2.4422	0.6700	3.6449	0.0003	0.0009	UP
Lep	44.0533	6.4205	1.1195	5.7350	0.0000	0.0000	UP
Klkb1	9.6089	-1.8424	0.5788	-3.1833	0.0015	0.0043	DOWN
Csrp1	6886.7479	1.5611	0.2602	5.9999	0.0000	0.0000	UP
Irf5	294.2020	1.4688	0.1865	7.8771	0.0000	0.0000	UP
Ccr6	19.3927	1.3442	0.6079	2.2113	0.0270	0.0551	UP
Tlr8	108.2786	1.8988	0.3562	5.3315	0.0000	0.0000	UP
Wnt5a	185.7663	-1.4883	0.2747	-5.4176	0.0000	0.0000	DOWN
Tyk2	825.3344	-1.0464	0.1512	-6.9223	0.0000	0.0000	DOWN
Tpm2	4704.9575	1.1781	0.3252	3.6222	0.0003	0.0010	UP
Ahnak	13851.4570	1.0742	0.1344	7.9921	0.0000	0.0000	UP
Fgf2	19.2054	2.1298	0.4987	4.2707	0.0000	0.0001	UP
Tkfc	4367.0719	-1.0821	0.3361	-3.2196	0.0013	0.0039	DOWN
Nfkbiz	2298.6601	1.0427	0.2926	3.5635	0.0004	0.0013	UP
Robo3	12.6593	1.2541	0.6031	2.0796	0.0376	0.0734	UP
Slc11a1	203.6359	2.0600	0.2638	7.8087	0.0000	0.0000	UP
Sting1	407.4664	1.7812	0.2500	7.1242	0.0000	0.0000	UP
Des	8465.1672	1.2615	0.3116	4.0485	0.0001	0.0002	UP
Ccl4	45.3456	1.8442	0.5730	3.2186	0.0013	0.0039	UP

Tnfrsf11	12.5704	2.5994	0.7400	3.5126	0.0004	0.0015	UP
Klrl1	29.5223	1.4086	0.4632	3.0412	0.0024	0.0066	UP
Jund	6721.6621	1.4547	0.3706	3.9250	0.0001	0.0003	UP
Cldn4	6187.9170	1.7802	0.3692	4.8221	0.0000	0.0000	UP
Irf7	2415.3203	-2.0771	0.2606	-7.9691	0.0000	0.0000	DOWN
Ii18	649.7685	-1.2620	0.5021	-2.5134	0.0120	0.0273	DOWN
Rela	1358.0706	1.3273	0.1449	9.1622	0.0000	0.0000	UP
Ptx3	250.2602	6.0073	0.5079	11.8274	0.0000	0.0000	UP
Ptgs2	1136.5882	4.1587	0.3127	13.2998	0.0000	0.0000	UP
Cd14	644.1302	3.2562	0.1876	17.3580	0.0000	0.0000	UP
Hmox1	305.1982	3.3243	0.5391	6.1665	0.0000	0.0000	UP
Hgf	93.0960	1.6682	0.3481	4.7919	0.0000	0.0000	UP
Plscr1	3054.1144	2.5734	0.4675	5.5051	0.0000	0.0000	UP
Rsad2	587.1257	-1.0783	0.5172	-2.0851	0.0371	0.0725	DOWN
Pdcd1	21.1244	2.4063	0.5568	4.3215	0.0000	0.0001	UP
Pcsk2	108.1203	1.5483	0.3273	4.7303	0.0000	0.0000	UP
Arg2	4990.1736	-1.8455	0.4158	-4.4381	0.0000	0.0000	DOWN
Vtn	27.4525	1.3735	0.4883	2.8128	0.0049	0.0125	UP
Vim	3442.4428	1.9946	0.1899	10.5063	0.0000	0.0000	UP
Vcam1	468.6553	2.1333	0.2912	7.3251	0.0000	0.0000	UP
Gfap	205.5190	4.9939	0.4028	12.3966	0.0000	0.0000	UP
Ager	65.0550	2.1622	0.2832	7.6359	0.0000	0.0000	UP
Actg1	37525.2261	1.5157	0.1884	8.0452	0.0000	0.0000	UP
Aco1	3419.0380	-1.3362	0.2270	-5.8872	0.0000	0.0000	DOWN
Ccl17	6.5598	1.5491	0.6772	2.2875	0.0222	0.0466	UP
Ccr3	21.4437	-1.8672	0.7368	-2.5341	0.0113	0.0259	DOWN
Ackr2	43.5586	1.9654	0.3828	5.1346	0.0000	0.0000	UP
Ccr7	40.6873	2.9575	0.4896	6.0404	0.0000	0.0000	UP
Ccr8	13.2033	3.2619	0.9892	3.2975	0.0010	0.0030	UP
Ccl2	727.9533	6.6747	0.6105	10.9336	0.0000	0.0000	UP
Ccl7	124.3371	5.3646	0.7103	7.5526	0.0000	0.0000	UP
Ccl3	34.1382	1.5163	0.3601	4.2111	0.0000	0.0001	UP
Ccl11	1471.8159	2.9882	0.3715	8.0430	0.0000	0.0000	UP
Ccr5	227.3287	1.3817	0.3723	3.7108	0.0002	0.0008	UP
Xcl1	10.0805	-1.8660	0.7105	-2.6261	0.0086	0.0206	DOWN
Ccr1	371.1873	2.1960	0.3301	6.6523	0.0000	0.0000	UP
Cxcl1	867.7628	8.1380	0.5787	14.0631	0.0000	0.0000	UP
Cxcl10	301.3703	1.5189	0.5191	2.9261	0.0034	0.0091	UP
Cxcr4	91.3036	1.5546	0.3380	4.6000	0.0000	0.0000	UP
Cxcl2	1109.5094	8.0792	0.4970	16.2544	0.0000	0.0000	UP

Tafa3	15.3327	-2.8670	0.7634	-3.7554	0.0002	0.0006	DOWN
Tafa1	10.6106	2.0544	0.6214	3.3060	0.0009	0.0029	UP
Il6	501.4205	7.7089	0.9835	7.8384	0.0000	0.0000	UP
Il1b	351.6263	4.0513	0.4190	9.6682	0.0000	0.0000	UP
Il13	3.5445	-3.0863	1.2798	-2.4116	0.0159	0.0348	DOWN
Il10	57.4555	4.5759	0.4480	10.2137	0.0000	0.0000	UP
Mif	724.1155	1.0941	0.1446	7.5673	0.0000	0.0000	UP
Ptgdr	21.4964	-4.6161	0.6616	-6.9771	0.0000	0.0000	DOWN
Cd86	130.0022	1.8288	0.3392	5.3921	0.0000	0.0000	UP
Hck	630.0341	-1.0380	0.2352	-4.4140	0.0000	0.0000	DOWN
Vdr	6650.4872	-1.4275	0.2697	-5.2933	0.0000	0.0000	DOWN
Txk	45.5208	1.0923	0.4407	2.4786	0.0132	0.0297	UP
Blnk	1192.6916	1.9232	0.3304	5.8203	0.0000	0.0000	UP
Vav2	1157.7942	-1.1699	0.1885	-6.2064	0.0000	0.0000	DOWN
Chp2	3212.4309	-2.1076	0.3611	-5.8369	0.0000	0.0000	DOWN
Nfatc1	593.3243	1.1259	0.1548	7.2743	0.0000	0.0000	UP
Nfatc2	367.2020	2.0003	0.1815	11.0196	0.0000	0.0000	UP
Cxcl13	65.4217	1.8257	0.5461	3.3433	0.0008	0.0026	UP
Cxcl14	591.8227	1.5033	0.4364	3.4449	0.0006	0.0019	UP
Cxcl3	38.2962	6.6168	1.1001	6.0146	0.0000	0.0000	UP
Cxcl5	373.1196	5.5953	0.9431	5.9328	0.0000	0.0000	UP
Ccn1	792.7650	3.7261	0.4527	8.2308	0.0000	0.0000	UP
Edn2	141.1783	-2.7715	0.5804	-4.7748	0.0000	0.0000	DOWN
Edn3	557.3270	-2.6418	0.3187	-8.2891	0.0000	0.0000	DOWN
Fgf10	28.3103	1.1197	0.4036	2.7738	0.0055	0.0139	UP
Pf4	81.0669	2.4464	0.3389	7.2183	0.0000	0.0000	UP
Plau	568.1669	1.9690	0.4330	4.5470	0.0000	0.0000	UP
Ppbp	16.6601	5.3876	1.1547	4.6658	0.0000	0.0000	UP
Sema3c	511.3114	1.6340	0.3519	4.6428	0.0000	0.0000	UP
Sema3f	435.3304	1.8007	0.2145	8.3964	0.0000	0.0000	UP
Sema4a	3613.2810	-1.1522	0.2104	-5.4760	0.0000	0.0000	DOWN
Sema4c	792.2646	3.1488	0.2700	11.6606	0.0000	0.0000	UP
Sema4f	14.3754	1.3822	0.5401	2.5594	0.0105	0.0243	UP
Sema4g	5591.5803	-1.3154	0.2156	-6.0995	0.0000	0.0000	DOWN
Sema6a	1200.4562	-2.4929	0.2545	-9.7958	0.0000	0.0000	DOWN
Sema6b	246.9383	2.0985	0.2855	7.3499	0.0000	0.0000	UP
Sema7a	2107.6893	2.0205	0.3569	5.6612	0.0000	0.0000	UP
Tnc	3189.5424	1.4892	0.2965	5.0225	0.0000	0.0000	UP
Tymp	221.5310	-2.8505	0.5345	-5.3329	0.0000	0.0000	DOWN
C5ar1	117.0653	1.7913	0.3793	4.7231	0.0000	0.0000	UP

Ccr12	300.0464	2.8836	0.3854	7.4828	0.0000	0.0000	UP
Cxcr5	8.9734	1.9975	0.8843	2.2587	0.0239	0.0497	UP
Ackr3	375.5374	2.6985	0.2722	9.9135	0.0000	0.0000	UP
Ednra	215.2956	1.5370	0.2937	5.2335	0.0000	0.0000	UP
Ednrb	848.5889	1.6171	0.2192	7.3789	0.0000	0.0000	UP
Fpr1	27.5245	2.9024	0.8818	3.2916	0.0010	0.0031	UP
Fpr2	25.4664	3.9570	0.8139	4.8618	0.0000	0.0000	UP
Cxcr2	97.0042	5.2049	1.1353	4.5847	0.0000	0.0000	UP
Ltb4r2	146.4179	-3.0707	0.5180	-5.9284	0.0000	0.0000	DOWN
Plaur	1692.0029	5.4275	0.2355	23.0473	0.0000	0.0000	UP
Plxna4	149.7609	1.2003	0.3204	3.7465	0.0002	0.0007	UP
Plxnb2	6925.4316	-1.0110	0.0964	-10.4874	0.0000	0.0000	DOWN
Adm	465.1429	4.1666	0.3340	12.4732	0.0000	0.0000	UP
Adm2	3.8037	2.6914	1.3152	2.0464	0.0407	0.0785	UP
Agt	251.6757	1.0058	0.2340	4.2984	0.0000	0.0001	UP
Areg	1686.0722	4.9998	0.4828	10.3553	0.0000	0.0000	UP
Artn	19.6012	1.4555	0.4432	3.2839	0.0010	0.0032	UP
Bdnf	9.0312	3.7069	0.7983	4.6437	0.0000	0.0000	UP
Bmp8a	130.2823	-4.3890	0.4670	-9.3981	0.0000	0.0000	DOWN
Btc	431.6760	2.9398	0.4651	6.3201	0.0000	0.0000	UP
Calca	45.2108	6.4524	0.8438	7.6472	0.0000	0.0000	UP
Caleb	63.3434	1.1707	0.4333	2.7014	0.0069	0.0169	UP
Cat	3684.0298	-1.5429	0.2793	-5.5234	0.0000	0.0000	DOWN
Clefl	73.3329	1.3816	0.2795	4.9430	0.0000	0.0000	UP
Cmtm3	187.3383	1.0314	0.1964	5.2517	0.0000	0.0000	UP
Cmtm5	6.2389	2.1545	0.7964	2.7052	0.0068	0.0168	UP
Cntf	34.3813	1.0826	0.3100	3.4917	0.0005	0.0016	UP
Csf1	730.6519	2.2143	0.3281	6.7492	0.0000	0.0000	UP
Csf3	613.9188	8.4430	0.9851	8.5709	0.0000	0.0000	UP
Epgn	17.0214	2.3521	0.7489	3.1408	0.0017	0.0049	UP
Ereg	3109.5859	5.0281	0.3869	12.9956	0.0000	0.0000	UP
Esm1	64.2112	1.9521	0.4934	3.9566	0.0001	0.0003	UP
Fam3c	1617.6622	-1.4279	0.1371	-10.4118	0.0000	0.0000	DOWN
Fgf12	11.8019	1.5921	0.6091	2.6137	0.0090	0.0212	UP
Fgf13	108.1787	1.3187	0.3435	3.8394	0.0001	0.0005	UP
Fgf9	80.1851	-1.4580	0.2733	-5.3337	0.0000	0.0000	DOWN
Gal	149.4138	1.8420	0.5054	3.6443	0.0003	0.0009	UP
Gdnf	148.0060	2.4183	0.2048	11.8063	0.0000	0.0000	UP
Hamp	5.9230	3.3884	0.9240	3.6669	0.0002	0.0009	UP
Hbegf	1751.8931	3.1319	0.2918	10.7324	0.0000	0.0000	UP

Il11	67.4325	3.4900	0.6793	5.1376	0.0000	0.0000	UP
Il17f	10.0814	3.3420	0.8862	3.7710	0.0002	0.0006	UP
Il1rn	447.7563	3.7498	0.6035	6.2134	0.0000	0.0000	UP
Inhba	195.4384	1.7741	0.3552	4.9953	0.0000	0.0000	UP
Inhbb	218.6645	3.5163	0.2137	16.4520	0.0000	0.0000	UP
Jag2	222.1416	1.7907	0.2988	5.9927	0.0000	0.0000	UP
Lif	550.8291	2.8882	0.4806	6.0090	0.0000	0.0000	UP
Lrsam1	224.0254	-1.1719	0.1721	-6.8111	0.0000	0.0000	DOWN
Ngf	18.4199	2.1160	0.5164	4.0979	0.0000	0.0002	UP
Nmb	17.1129	1.7814	0.4379	4.0679	0.0000	0.0002	UP
Ccn3	79.2027	1.1663	0.2974	3.9220	0.0001	0.0003	UP
Npy	116.8891	2.1337	0.3590	5.9432	0.0000	0.0000	UP
Nrg1	539.9510	2.0218	0.4463	4.5300	0.0000	0.0000	UP
Nrg3	8.8892	1.5139	0.7350	2.0598	0.0394	0.0764	UP
Nrg4	33.9914	-1.1272	0.3902	-2.8890	0.0039	0.0101	DOWN
Ntf3	23.6082	-1.4861	0.5759	-2.5805	0.0099	0.0231	DOWN
Nts	323.6583	-1.2322	0.5571	-2.2117	0.0270	0.0551	DOWN
Osm	61.3002	4.5065	0.7830	5.7552	0.0000	0.0000	UP
Endou	47.7751	2.1062	0.5093	4.1358	0.0000	0.0002	UP
Pdgfc	126.2196	-1.1134	0.3008	-3.7012	0.0002	0.0008	DOWN
Pgf	61.4975	2.6061	0.3035	8.5872	0.0000	0.0000	UP
Pthlh	23.4649	2.3045	0.4524	5.0939	0.0000	0.0000	UP
Rabep2	179.7080	-1.4699	0.2929	-5.0182	0.0000	0.0000	DOWN
Retn	108.4880	2.1428	0.7355	2.9135	0.0036	0.0095	UP
S100a6	1546.3193	1.2713	0.4175	3.0449	0.0023	0.0065	UP
Scg2	875.1652	1.3627	0.2618	5.2045	0.0000	0.0000	UP
Scgb3a1	44.4016	2.0936	0.3456	6.0579	0.0000	0.0000	UP
Sct	130.9670	-1.0906	0.1755	-6.2149	0.0000	0.0000	DOWN
Sst	890.9748	1.1284	0.1778	6.3471	0.0000	0.0000	UP
Stc1	241.3811	3.1377	0.3318	9.4577	0.0000	0.0000	UP
Tac1	242.1234	2.0739	0.2613	7.9358	0.0000	0.0000	UP
Tgfb1	545.7158	1.2942	0.1906	6.7917	0.0000	0.0000	UP
Tgfb2	142.0968	1.5772	0.2767	5.7009	0.0000	0.0000	UP
Tnfrsf11b	180.5629	1.9486	0.3929	4.9589	0.0000	0.0000	UP
Tnfsf13	94.8897	-1.0898	0.3507	-3.1072	0.0019	0.0054	DOWN
Tnfsf13b	191.6063	-1.0701	0.2804	-3.8167	0.0001	0.0005	DOWN
Tnfsf14	16.4798	1.8377	0.7586	2.4225	0.0154	0.0340	UP
Tnfsf15	88.5971	1.2334	0.4830	2.5538	0.0107	0.0247	UP
Tnfsf9	37.5178	2.1104	0.4092	5.1572	0.0000	0.0000	UP
Tslp	20.6206	2.2525	0.5689	3.9593	0.0001	0.0003	UP

Ucn2	4.3211	2.2037	0.8315	2.6502	0.0080	0.0193	UP
Vgf	58.6388	2.7196	0.3785	7.1860	0.0000	0.0000	UP
Vip	1202.1880	1.9179	0.3482	5.5086	0.0000	0.0000	UP
Acvr2b	183.1633	-1.8561	0.2115	-8.7763	0.0000	0.0000	DOWN
Adcyap1r1	119.0527	1.3329	0.3393	3.9279	0.0001	0.0003	UP
Adipor2	6206.3398	-1.6934	0.1287	-13.1572	0.0000	0.0000	DOWN
Adrb2	69.5692	1.8195	0.3967	4.5866	0.0000	0.0000	UP
Angpt4	4.8125	1.6776	0.8083	2.0754	0.0379	0.0740	UP
Avpr1a	165.7661	3.1083	0.2609	11.9142	0.0000	0.0000	UP
Cntfr	20.6249	1.7465	0.4083	4.2774	0.0000	0.0001	UP
Crlf2	174.0412	1.1630	0.2054	5.6615	0.0000	0.0000	UP
Csf2rb	656.8267	1.9821	0.3168	6.2576	0.0000	0.0000	UP
Csf3r	176.7796	2.5959	0.5258	4.9368	0.0000	0.0000	UP
Eng	784.5547	1.5220	0.1739	8.7501	0.0000	0.0000	UP
Esrl	17.2103	1.0446	0.4858	2.1503	0.0315	0.0630	UP
Esrra	2619.0510	-1.1208	0.2081	-5.3865	0.0000	0.0000	DOWN
Fgfr1	604.6687	1.8644	0.1706	10.9291	0.0000	0.0000	UP
Fgfr4	336.6915	2.3910	0.4348	5.4986	0.0000	0.0000	UP
Flt1	807.4785	1.5668	0.2523	6.2089	0.0000	0.0000	UP
Galr3	4.9462	-1.4399	0.7345	-1.9602	0.0500	0.0933	DOWN
Glp1r	6.3318	-2.2289	0.8395	-2.6550	0.0079	0.0191	DOWN
Hnf4a	13060.4574	-1.0576	0.1073	-9.8598	0.0000	0.0000	DOWN
Hnf4g	6758.1199	-2.9911	0.2466	-12.1307	0.0000	0.0000	DOWN
Htr3a	108.5433	1.5708	0.3346	4.6951	0.0000	0.0000	UP
Htr3b	15.0147	1.2297	0.6047	2.0336	0.0420	0.0806	UP
Ifngr2	3702.9410	-1.2968	0.1511	-8.5844	0.0000	0.0000	DOWN
Il10rb	1529.5440	-1.2298	0.2259	-5.4428	0.0000	0.0000	DOWN
Il12rb1	64.7338	-1.0981	0.5573	-1.9704	0.0488	0.0914	DOWN
Il2rb	378.9121	1.3957	0.3080	4.5316	0.0000	0.0000	UP
Il18rap	109.2781	1.9197	0.4540	4.2283	0.0000	0.0001	UP
Il1r1	1034.1220	2.9434	0.2913	10.1045	0.0000	0.0000	UP
Il1r2	407.4783	4.2911	0.3547	12.0995	0.0000	0.0000	UP
Il1rl1	491.7658	1.8832	0.5240	3.5936	0.0003	0.0011	UP
Il20rb	74.5648	1.5068	0.2068	7.2847	0.0000	0.0000	UP
Il22ra2	93.2288	1.1852	0.5046	2.3489	0.0188	0.0405	UP
Il23r	14.0864	1.5609	0.5634	2.7703	0.0056	0.0140	UP
Il2ra	39.5191	1.5007	0.3918	3.8301	0.0001	0.0005	UP
Il31ra	5.0028	1.9505	0.8614	2.2644	0.0235	0.0490	UP
Il9r	20.3517	-1.3699	0.4849	-2.8250	0.0047	0.0121	DOWN
Insr	1782.0276	-1.2318	0.1436	-8.5773	0.0000	0.0000	DOWN

Ngfr	205.1137	1.5135	0.2780	5.4445	0.0000	0.0000	UP
Nr1d1	1687.8695	-1.4853	0.3308	-4.4903	0.0000	0.0000	DOWN
Nr1h3	532.5942	-1.5086	0.2474	-6.0979	0.0000	0.0000	DOWN
Nr1i3	584.6145	-1.5333	0.4922	-3.1149	0.0018	0.0053	DOWN
Nr3c1	2659.1901	-1.2011	0.1577	-7.6144	0.0000	0.0000	DOWN
Nr4a1	1345.3037	4.5399	0.5112	8.8804	0.0000	0.0000	UP
Nr4a2	224.9731	1.7426	0.3996	4.3607	0.0000	0.0001	UP
Nr4a3	403.6485	3.9691	0.3918	10.1304	0.0000	0.0000	UP
Oprd1	28.2635	1.2631	0.5998	2.1060	0.0352	0.0694	UP
Osmr	707.7684	2.4932	0.2197	11.3503	0.0000	0.0000	UP
Pgrmc2	1235.2524	-1.0646	0.3207	-3.3196	0.0009	0.0028	DOWN
Prlr	2619.0739	-1.8102	0.1804	-10.0355	0.0000	0.0000	DOWN
Ptger2	59.3093	1.0663	0.3791	2.8126	0.0049	0.0125	UP
Rora	374.1600	1.8971	0.2721	6.9734	0.0000	0.0000	UP
Rorc	608.2115	-1.3224	0.2997	-4.4130	0.0000	0.0000	DOWN
S1pr1	655.4066	2.9328	0.2487	11.7913	0.0000	0.0000	UP
Sdc1	2816.8532	1.1152	0.1784	6.2515	0.0000	0.0000	UP
Sdc4	5282.1558	1.9142	0.2847	6.7245	0.0000	0.0000	UP
Sstr5	9.9927	-1.2578	0.5217	-2.4108	0.0159	0.0349	DOWN
Tacr1	189.1738	2.3210	0.4260	5.4488	0.0000	0.0000	UP
Tgfbr2	2425.1315	1.4596	0.0851	17.1590	0.0000	0.0000	UP
Tie1	397.1344	1.3349	0.2636	5.0650	0.0000	0.0000	UP
Tnfrsf12a	1399.3043	4.5505	0.3109	14.6378	0.0000	0.0000	UP
Tnfrsf18	38.4578	1.1907	0.4095	2.9078	0.0036	0.0096	UP
Tnfrsf19	117.5084	-1.0222	0.3544	-2.8845	0.0039	0.0103	DOWN
Tnfrsf1b	1041.5165	2.3037	0.2040	11.2921	0.0000	0.0000	UP
Tnfrsf4	51.5370	1.8572	0.3015	6.1591	0.0000	0.0000	UP
Tnfrsf9	39.0478	2.0438	0.4967	4.1145	0.0000	0.0002	UP
Tshr	16.5057	2.5312	0.8009	3.1602	0.0016	0.0046	UP
Tubb3	175.7552	1.4654	0.2929	5.0027	0.0000	0.0000	UP
Vipr1	4513.8981	-1.1301	0.2608	-4.3328	0.0000	0.0001	DOWN
Klrc1	11.6275	1.3909	0.5992	2.3214	0.0203	0.0432	UP
Icam1	1026.8552	3.2805	0.3443	9.5293	0.0000	0.0000	UP
Pik3r2	1129.2873	-1.1951	0.1341	-8.9091	0.0000	0.0000	DOWN
Shc2	41.6453	1.0496	0.3549	2.9575	0.0031	0.0084	UP
Shc4	20.0969	1.0319	0.4943	2.0876	0.0368	0.0721	UP
Fos	3204.6385	1.0598	0.3947	2.6852	0.0072	0.0176	UP
Nfkbia	3749.1397	2.3695	0.2555	9.2736	0.0000	0.0000	UP
Nfkbie	254.2081	1.5590	0.2904	5.3680	0.0000	0.0000	UP
Cd28	198.4327	1.1140	0.3791	2.9387	0.0033	0.0088	UP

Icos	96.2708	2.3271	0.2887	8.0595	0.0000	0.0000	UP
Map3k8	195.7764	3.3398	0.3212	10.3983	0.0000	0.0000	UP
Map3k14	281.8035	1.0699	0.2177	4.9139	0.0000	0.0000	UP
Ctla4	554.6045	5.0836	0.3328	15.2753	0.0000	0.0000	UP

Table S2 61 FRGs in mice after intestinal ischemia/reperfusion

Genes	log2FoldChange	pvalue	padj	change
Cs	-1.0861721	2.31E-09	2.14E-08	DOWN
Acsf2	-2.6450407	4.40E-80	1.17E-76	DOWN
Duox2	-1.4777547	0.00088474	0.00278425	DOWN
Scp2	-1.645005	6.34E-17	1.76E-15	DOWN
Acsl4	2.31805973	1.20E-19	4.40E-18	UP
Lpcat3	-1.0311657	8.37E-08	5.92E-07	DOWN
Hmox1	3.32433602	6.98E-10	7.11E-09	UP
Ncoa4	-1.0684909	4.98E-06	2.55E-05	DOWN
Alox15	-1.5687421	1.48E-08	1.21E-07	DOWN
Aloxe3	3.60880522	4.98E-08	3.69E-07	UP
Aco1	-1.3361637	3.93E-09	3.51E-08	DOWN
Atg4d	-1.0397795	8.31E-09	7.08E-08	DOWN
Atg13	-1.1055191	3.03E-20	1.20E-18	DOWN
Ulk2	-1.2744868	7.09E-07	4.24E-06	DOWN
Zeb1	1.34878272	2.02E-13	3.50E-12	UP
Dpp4	-2.5600692	4.89E-21	2.15E-19	DOWN
Cdo1	1.08233565	0.00143363	0.0042611	UP
Abcc1	1.7203088	4.81E-15	1.04E-13	UP
Hilpda	2.20899272	9.55E-10	9.49E-09	UP
Hif1a	1.75107446	7.14E-09	6.15E-08	UP
Ano6	-1.2093019	2.40E-10	2.63E-09	DOWN
Tnfaip3	1.76869422	9.18E-16	2.20E-14	UP
Atf3	1.83108078	0.00024854	0.00088936	UP
Idh1	-1.2357928	4.29E-08	3.23E-07	DOWN
Ptgs2	4.15867504	2.32E-40	5.70E-38	UP
Dusp1	4.74878517	1.04E-51	5.33E-49	UP
Mt3	2.12378104	4.09E-05	0.00017502	UP
Slc7a11	2.47986486	5.90E-06	2.98E-05	UP
Ddit4	1.45603412	5.63E-06	2.85E-05	UP
Jdp2	2.66335779	2.22E-22	1.10E-20	UP
Vldlr	1.32224035	0.00080661	0.00256112	UP
Slc7a5	1.2541165	7.03E-11	8.42E-10	UP

Klhl24	-1.6879971	5.31E-15	1.15E-13 DOWN
Trib3	-2.4521652	1.26E-07	8.57E-07 DOWN
Gdf15	3.53491871	1.10E-15	2.63E-14 UP
Rgs4	1.71372565	8.06E-06	3.97E-05 UP
Il6	7.70891185	4.56E-15	9.96E-14 UP
Cxcl2	8.07921167	2.08E-59	1.44E-56 UP
Rela	1.3273225	5.08E-20	1.95E-18 UP
Hsd17b11	-1.4613955	1.20E-09	1.17E-08 DOWN
Setd1b	-1.0379167	5.14E-16	1.28E-14 DOWN
Slc40a1	-2.2219733	1.45E-07	9.82E-07 DOWN
Hamp	3.38839342	0.0002455	0.00088026 UP
Hspb1	3.5894978	8.06E-20	3.03E-18 UP
Slc2a1	2.62267224	9.41E-16	2.25E-14 UP
Slc2a3	1.68484181	6.32E-06	3.17E-05 UP
Slc2a6	1.14121636	0.00706668	0.01725316 UP
Eif2ak4	1.15054431	8.46E-06	4.15E-05 UP
Nnmt	1.8769784	0.00025109	0.00089652 UP
Plin4	2.13824381	2.62E-06	1.41E-05 UP
Rrm2	1.4624116	2.20E-06	1.20E-05 UP
Capg	1.47037955	1.06E-07	7.32E-07 UP
Hnf4a	-1.0576266	6.22E-23	3.28E-21 DOWN
Gclc	2.0408031	8.94E-08	6.30E-07 UP
Sqstm1	1.09298194	1.04E-13	1.87E-12 UP
Hspa5	1.0396077	3.28E-15	7.33E-14 UP
Cd44	2.47558298	2.87E-42	8.65E-40 UP
Zfp36	1.60890505	1.09E-08	9.07E-08 UP
Chmp5	-1.1037975	1.85E-18	6.10E-17 DOWN
Gclm	-1.323224	8.73E-15	1.84E-13 DOWN
Cryab	2.01030589	2.61E-17	7.58E-16 UP

Table S3 294 IRGs in mice after intestinal ischemia/reperfusion

Genes	log2FoldChange	pvalue	padj	change
Cd8a	-1.447108	1.97E-05	8.97E-05	DOWN
Ctsl	1.12489734	1.63E-14	3.31E-13	UP
Fcer1g	1.1507313	2.80E-05	0.00012365	UP
Hspa1a	3.00172898	5.08E-09	4.46E-08	UP
Hspa1b	2.74237231	1.58E-07	1.06E-06	UP
Hspa2	1.86986864	3.78E-07	2.37E-06	UP
Hspa5	1.0396077	3.28E-15	7.33E-14	UP

Orm1	3.07893717	3.99E-05	0.00017093 UP
Tnf	1.88567287	5.46E-07	3.33E-06 UP
Aen	1.29053251	1.49E-12	2.28E-11 UP
Isg20	1.33556543	9.30E-07	5.44E-06 UP
Bcl3	1.76135837	1.01E-11	1.38E-10 UP
Duox2	-1.4777547	0.00088474	0.00278425 DOWN
Tlr3	-1.454561	4.46E-33	6.59E-31 DOWN
Ifih1	-1.4352704	5.50E-13	8.92E-12 DOWN
Trim5	-2.2981857	2.64E-26	1.99E-24 DOWN
Ido1	-4.2875318	1.68E-15	3.86E-14 DOWN
Gdf15	3.53491871	1.10E-15	2.63E-14 UP
Adipoq	2.27552807	0.00687799	0.01686668 UP
Stat1	-1.100738	0.00684533	0.0167995 DOWN
Socs3	3.42269564	1.54E-40	3.84E-38 UP
Tnfsf10	-2.3448026	8.71E-06	4.26E-05 DOWN
Il15	-2.1465997	6.23E-16	1.53E-14 DOWN
Cd40	1.36217394	5.94E-05	0.00024542 UP
Zyx	1.20045406	1.59E-09	1.51E-08 UP
Ikbke	-1.4938258	1.09E-20	4.61E-19 DOWN
Isg15	-2.0793811	5.45E-05	0.0002268 DOWN
Dhx58	-1.0567817	0.00099197	0.00307201 DOWN
Tnfaip3	1.76869422	9.18E-16	2.20E-14 UP
F2r	1.34481599	2.80E-10	3.03E-09 UP
Eln	1.67808246	0.00011615	0.00044981 UP
Il27	2.44224563	0.0002675	0.00094782 UP
Lep	6.42050934	9.75E-09	8.18E-08 UP
Klkb1	-1.8424371	0.00145618	0.00432167 DOWN
Csrp1	1.56114588	1.97E-09	1.86E-08 UP
Irf5	1.46884147	3.35E-15	7.47E-14 UP
Ccr6	1.34418524	0.02701384	0.0551049 UP
Tlr8	1.89883419	9.74E-08	6.80E-07 UP
Wnt5a	-1.4882917	6.04E-08	4.41E-07 DOWN
Tyk2	-1.0464308	4.44E-12	6.39E-11 DOWN
Tpm2	1.17807842	0.0002921	0.00102824 UP
Ahnak	1.07415466	1.33E-15	3.11E-14 UP
Fgf2	2.12976558	1.95E-05	8.89E-05 UP
Tkfc	-1.0821031	0.00128356	0.00385383 DOWN
Nfkbiz	1.04267424	0.00036597	0.00125927 UP
Robo3	1.25414015	0.03756033	0.07337282 UP
Slc11a1	2.05996515	5.78E-15	1.23E-13 UP
Sting1	1.78124211	1.05E-12	1.64E-11 UP

Des	1.2615283	5.15E-05	0.00021581 UP
Ccl4	1.84418717	0.00128812	0.00386606 UP
Tnfrsf11	2.5993683	0.0004438	0.00150086 UP
Klrl1	1.40858098	0.00235606	0.00656717 UP
Jund	1.454659	8.67E-05	0.00034581 UP
Cldn4	1.78017475	1.42E-06	8.04E-06 UP
Irf7	-2.0770622	1.60E-15	3.70E-14 DOWN
Il18	-1.2620038	0.01195756	0.02725735 DOWN
Rela	1.3273225	5.08E-20	1.95E-18 UP
Ptx3	6.00726503	2.82E-32	3.81E-30 UP
Ptgs2	4.15867504	2.32E-40	5.70E-38 UP
Cd14	3.25620047	1.72E-67	2.28E-64 UP
Hmox1	3.32433602	6.98E-10	7.11E-09 UP
Hgf	1.66818349	1.65E-06	9.24E-06 UP
Plscr1	2.57342622	3.69E-08	2.81E-07 UP
Rsad2	-1.0783179	0.03706023	0.07252022 DOWN
Pdcd1	2.40625821	1.55E-05	7.23E-05 UP
Pcsk2	1.54826638	2.24E-06	1.22E-05 UP
Arg2	-1.8455028	9.07E-06	4.41E-05 DOWN
Vtn	1.37348909	0.00491089	0.01249818 UP
Vim	1.99463552	8.08E-26	5.75E-24 UP
Vcam1	2.13325895	2.39E-13	4.10E-12 UP
Gfap	4.99385565	2.73E-35	5.06E-33 UP
Ager	2.16215565	2.24E-14	4.46E-13 UP
Actg1	1.5157334	8.61E-16	2.08E-14 UP
Aco1	-1.3361637	3.93E-09	3.51E-08 DOWN
Ccl17	1.54912241	0.0221685	0.04664098 UP
Ccr3	-1.8671699	0.01127235	0.02588778 DOWN
Ackr2	1.96537798	2.83E-07	1.82E-06 UP
Ccr7	2.95748826	1.54E-09	1.47E-08 UP
Ccr8	3.26185429	0.0009756	0.00302953 UP
Ccl2	6.67466031	7.97E-28	7.14E-26 UP
Ccl7	5.36464318	4.27E-14	8.10E-13 UP
Ccl3	1.51629911	2.54E-05	0.00011297 UP
Ccl11	2.98817785	8.77E-16	2.11E-14 UP
Ccr5	1.38168513	0.00020664	0.00075172 UP
Xcl1	-1.86598	0.00863608	0.02057082 DOWN
Ccr1	2.19599106	2.88E-11	3.68E-10 UP
Cxcl1	8.13802891	6.41E-45	2.32E-42 UP
Cxcl10	1.51894164	0.0034325	0.00914568 UP
Cxcr4	1.55458281	4.23E-06	2.19E-05 UP

Cxcl2	8.07921167	2.08E-59	1.44E-56 UP
Tafa3	-2.8670101	0.00017305	0.00064035 DOWN
Tafa1	2.05443586	0.00094648	0.0029483 UP
Il6	7.70891185	4.56E-15	9.96E-14 UP
Il1b	4.05131742	4.12E-22	1.99E-20 UP
Il13	-3.0863183	0.01588274	0.03484894 DOWN
Il10	4.57589738	1.72E-24	1.07E-22 UP
Mif	1.0940852	3.81E-14	7.30E-13 UP
Ptgdr	-4.6161173	3.01E-12	4.43E-11 DOWN
Cd86	1.82882404	6.96E-08	5.01E-07 UP
Hck	-1.0379613	1.01E-05	4.90E-05 DOWN
Vdr	-1.4275168	1.20E-07	8.24E-07 DOWN
Txk	1.09227292	0.01319056	0.02967733 UP
Blnk	1.92324375	5.88E-09	5.12E-08 UP
Vav2	-1.1699223	5.42E-10	5.61E-09 DOWN
Chp2	-2.1076297	5.32E-09	4.66E-08 DOWN
Nfatc1	1.12586394	3.48E-13	5.79E-12 UP
Nfatc2	2.00031034	3.07E-28	2.83E-26 UP
Cxcl13	1.82568373	0.00082784	0.00262069 UP
Cxcl14	1.50334551	0.00057122	0.00188384 UP
Cxcl3	6.61682776	1.80E-09	1.71E-08 UP
Cxcl5	5.59526742	2.98E-09	2.72E-08 UP
Ccn1	3.72613956	1.86E-16	4.87E-15 UP
Edn2	-2.7714841	1.80E-06	1.00E-05 DOWN
Edn3	-2.6417506	1.14E-16	3.07E-15 DOWN
Fgf10	1.11965366	0.0055399	0.01390898 UP
Pf4	2.44637867	5.26E-13	8.56E-12 UP
Plau	1.96896708	5.44E-06	2.76E-05 UP
Ppbp	5.38763017	3.07E-06	1.64E-05 UP
Sema3c	1.63395998	3.44E-06	1.82E-05 UP
Sema3f	1.80074832	4.60E-17	1.30E-15 UP
Sema4a	-1.1522313	4.35E-08	3.26E-07 DOWN
Sema4c	3.14882256	2.03E-31	2.50E-29 UP
Sema4f	1.38221323	0.01048681	0.02433952 UP
Sema4g	-1.315352	1.06E-09	1.05E-08 DOWN
Sema6a	-2.4929241	1.17E-22	6.00E-21 DOWN
Sema6b	2.09849008	1.98E-13	3.44E-12 UP
Sema7a	2.02049107	1.50E-08	1.23E-07 UP
Tnc	1.4892001	5.10E-07	3.13E-06 UP
Tymp	-2.8504684	9.66E-08	6.75E-07 DOWN
C5ar1	1.7913419	2.32E-06	1.26E-05 UP

Ccrl2	2.88364302	7.28E-14	1.34E-12 UP
Cxcr5	1.99749118	0.02390093	0.04967657 UP
Ackr3	2.69853829	3.64E-23	2.01E-21 UP
Ednra	1.53702828	1.66E-07	1.11E-06 UP
Ednrb	1.61708261	1.60E-13	2.79E-12 UP
Fpr1	2.90240105	0.00099634	0.0030826 UP
Fpr2	3.95696347	1.16E-06	6.69E-06 UP
Cxcr2	5.20489902	4.55E-06	2.34E-05 UP
Ltb4r2	-3.0706779	3.06E-09	2.79E-08 DOWN
Plaur	5.42751698	1.57E-117	2.50E-113 UP
Plxna4	1.20029148	0.00017934	0.00066086 UP
Plxnb2	-1.0109764	9.87E-26	6.99E-24 DOWN
Adm	4.16661706	1.05E-35	2.01E-33 UP
Adm2	2.69138866	0.04071348	0.07846581 UP
Agt	1.00579298	1.72E-05	7.92E-05 UP
Areg	4.99981414	3.96E-25	2.64E-23 UP
Artn	1.45552633	0.00102384	0.00315479 UP
Bdnf	3.7068726	3.42E-06	1.81E-05 UP
Bmp8a	-4.3890291	5.56E-21	2.43E-19 DOWN
Btc	2.9397892	2.61E-10	2.84E-09 UP
Calca	6.45236441	2.05E-14	4.10E-13 UP
Calcb	1.17065572	0.00690455	0.01691101 UP
Cat	-1.5428846	3.32E-08	2.57E-07 DOWN
Clcf1	1.3816141	7.69E-07	4.57E-06 UP
Cmtm3	1.03141962	1.51E-07	1.01E-06 UP
Cmtm5	2.15445097	0.00682606	0.01675479 UP
Cntf	1.08257742	0.00047994	0.00161146 UP
Csf1	2.21427389	1.49E-11	1.98E-10 UP
Csf3	8.44295913	1.03E-17	3.16E-16 UP
Epgn	2.35210984	0.00168476	0.00491142 UP
Ereg	5.02812729	1.30E-38	2.91E-36 UP
Esm1	1.95213456	7.60E-05	0.00030715 UP
Fam3c	-1.4278846	2.19E-25	1.49E-23 DOWN
Fgf12	1.59214487	0.00895608	0.02124906 UP
Fgf13	1.31866162	0.00012335	0.00047527 UP
Fgf9	-1.4579549	9.62E-08	6.73E-07 DOWN
Gal	1.84198025	0.00026812	0.00094962 UP
Gdnf	2.41829371	3.62E-32	4.77E-30 UP
Hamp	3.38839342	0.0002455	0.00088026 UP
Hbegf	3.13192017	7.17E-27	5.72E-25 UP
Il11	3.48999668	2.78E-07	1.79E-06 UP

Il17f	3.34197653	0.00016262	0.0006061 UP
Il1rn	3.74977058	5.18E-10	5.40E-09 UP
Inhba	1.77408855	5.88E-07	3.56E-06 UP
Inhbb	3.51631567	8.12E-61	6.17E-58 UP
Jag2	1.79074051	2.06E-09	1.93E-08 UP
Lif	2.88819269	1.87E-09	1.76E-08 UP
Lrsam1	-1.1718928	9.68E-12	1.33E-10 DOWN
Ngf	2.1160209	4.17E-05	0.00017787 UP
Nmb	1.78138391	4.74E-05	0.00020007 UP
Ccn3	1.1663286	8.78E-05	0.00034988 UP
Npy	2.13366654	2.79E-09	2.56E-08 UP
Nrg1	2.02183922	5.90E-06	2.98E-05 UP
Nrg3	1.51391787	0.03942119	0.0764091 UP
Nrg4	-1.1272174	0.00386413	0.01014993 DOWN
Ntf3	-1.4861391	0.00986583	0.02312028 DOWN
Nts	-1.2322199	0.02698847	0.05506779 DOWN
Osm	4.50651364	8.65E-09	7.34E-08 UP
Endou	2.10623011	3.54E-05	0.00015302 UP
Pdgfc	-1.1134112	0.00021458	0.00077813 DOWN
Pgf	2.6060886	8.92E-18	2.77E-16 UP
Pthlh	2.3045305	3.51E-07	2.22E-06 UP
Rabep2	-1.4698559	5.22E-07	3.19E-06 DOWN
Retn	2.14284418	0.00357396	0.00947513 UP
S100a6	1.27130472	0.0023278	0.00649975 UP
Scg2	1.36265269	1.94E-07	1.28E-06 UP
Scgb3a1	2.09360011	1.38E-09	1.33E-08 UP
Sct	-1.0906231	5.13E-10	5.36E-09 DOWN
Sst	1.1283818	2.19E-10	2.42E-09 UP
Stc1	3.13766974	3.15E-21	1.42E-19 UP
Tac1	2.07385209	2.09E-15	4.77E-14 UP
Tgfb1	1.29420236	1.11E-11	1.51E-10 UP
Tgfb2	1.57722204	1.19E-08	9.89E-08 UP
Tnfrsf11b	1.94856112	7.09E-07	4.24E-06 UP
Tnfsf13	-1.089797	0.00188893	0.00541263 DOWN
Tnfsf13b	-1.0700675	0.00013524	0.00051524 DOWN
Tnfsf14	1.83769213	0.01541592	0.03397551 UP
Tnfsf15	1.23341675	0.01065402	0.02467736 UP
Tnfsf9	2.11042978	2.51E-07	1.62E-06 UP
Tslp	2.25246868	7.52E-05	0.00030404 UP
Ucn2	2.20367796	0.00804331	0.01933083 UP
Vgf	2.71960278	6.67E-13	1.07E-11 UP

Vip	1.91788372	3.62E-08	2.76E-07 UP
Acvr2b	-1.8560936	1.69E-18	5.63E-17 DOWN
Adcyap1r1	1.33288363	8.57E-05	0.00034231 UP
Adipor2	-1.6933974	1.55E-39	3.63E-37 DOWN
Adrb2	1.819509	4.51E-06	2.32E-05 UP
Angpt4	1.67763671	0.03794518	0.07399774 UP
Avpr1a	3.10829996	9.98E-33	1.41E-30 UP
Cntfr	1.74648068	1.89E-05	8.65E-05 UP
Crlf2	1.16297949	1.50E-08	1.23E-07 UP
Csf2rb	1.9821248	3.91E-10	4.13E-09 UP
Csf3r	2.59590998	7.94E-07	4.70E-06 UP
Eng	1.52198931	2.13E-18	7.01E-17 UP
Esr1	1.0446123	0.03153463	0.06298239 UP
Esrra	-1.120843	7.19E-08	5.16E-07 DOWN
Fgfr1	1.86443542	8.37E-28	7.38E-26 UP
Fgfr4	2.3909688	3.83E-08	2.91E-07 UP
Flt1	1.56675501	5.34E-10	5.54E-09 UP
Galr3	-1.4398569	0.04996739	0.09325843 DOWN
Glp1r	-2.2289255	0.00793135	0.01910615 DOWN
Hnf4a	-1.0576266	6.22E-23	3.28E-21 DOWN
Hnf4g	-2.9910909	7.26E-34	1.15E-31 DOWN
Htr3a	1.57077382	2.67E-06	1.43E-05 UP
Htr3b	1.22968273	0.04199154	0.08058443 UP
Ifngr2	-1.2967924	9.13E-18	2.83E-16 DOWN
Il10rb	-1.2297833	5.25E-08	3.87E-07 DOWN
Il12rb1	-1.0980608	0.04879207	0.09143694 DOWN
Il2rb	1.39567644	5.85E-06	2.96E-05 UP
Il18rap	1.91974212	2.36E-05	0.0001057 UP
Il1r1	2.94343195	5.27E-24	3.15E-22 UP
Il1r2	4.2910932	1.06E-33	1.61E-31 UP
Il1rl1	1.88319426	0.00032609	0.00113552 UP
Il20rb	1.50684531	3.22E-13	5.38E-12 UP
Il22ra2	1.18516399	0.01883047	0.04046661 UP
Il23r	1.56088061	0.00560019	0.01404406 UP
Il2ra	1.50072032	0.0001281	0.00049121 UP
Il31ra	1.95052037	0.02354757	0.04903157 UP
Il9r	-1.3699227	0.00472746	0.01209114 DOWN
Insr	-1.2317887	9.71E-18	2.99E-16 DOWN
Ngfr	1.51348752	5.19E-08	3.84E-07 UP
Nr1d1	-1.4853011	7.11E-06	3.54E-05 DOWN
Nr1h3	-1.5085937	1.07E-09	1.06E-08 DOWN

Nr1i3	-1.5332819	0.00183982	0.00529475 DOWN
Nr3c1	-1.2011314	2.65E-14	5.20E-13 DOWN
Nr4a1	4.53994412	6.66E-19	2.29E-17 UP
Nr4a2	1.74255379	1.30E-05	6.14E-05 UP
Nr4a3	3.96911073	4.05E-24	2.45E-22 UP
Oprd1	1.26309967	0.03520458	0.06936555 UP
Osmr	2.49319263	7.39E-30	8.07E-28 UP
Pgrmc2	-1.0646396	0.00090161	0.00282786 DOWN
Prlr	-1.8101503	1.06E-23	6.13E-22 DOWN
Ptger2	1.0662505	0.00491423	0.01250468 UP
Rora	1.89713005	3.09E-12	4.54E-11 UP
Rorc	-1.3224459	1.02E-05	4.92E-05 DOWN
S1pr1	2.93276446	4.33E-32	5.57E-30 UP
Sdc1	1.11516029	4.07E-10	4.29E-09 UP
Sdc4	1.91415693	1.76E-11	2.32E-10 UP
Sstr5	-1.2577698	0.01591962	0.03492159 DOWN
Tacr1	2.32100778	5.07E-08	3.75E-07 UP
Tgfbr2	1.4596238	5.38E-66	6.14E-63 UP
Tie1	1.33494589	4.08E-07	2.54E-06 UP
Tnfrsf12a	4.5504644	1.61E-48	7.35E-46 UP
Tnfrsf18	1.19065811	0.00364034	0.0096287 UP
Tnfrsf19	-1.0222224	0.00391988	0.01028621 DOWN
Tnfrsf1b	2.30367209	1.44E-29	1.53E-27 UP
Tnfrsf4	1.85720421	7.31E-10	7.43E-09 UP
Tnfrsf9	2.04382428	3.88E-05	0.00016679 UP
Tshr	2.53116751	0.00157647	0.00462616 UP
Tubb3	1.46540676	5.65E-07	3.43E-06 UP
Vipr1	-1.1301011	1.47E-05	6.90E-05 DOWN
Klrc1	1.39094219	0.02026488	0.04316536 UP
Icam1	3.28051472	1.58E-21	7.30E-20 UP
Pik3r2	-1.1950896	5.15E-19	1.78E-17 DOWN
Shc2	1.04957089	0.00310109	0.0083604 UP
Shc4	1.03192455	0.03683182	0.07210864 UP
Fos	1.05981923	0.00724829	0.01764994 UP
Nfkbia	2.36946252	1.80E-20	7.38E-19 UP
Nfkbie	1.55904593	7.96E-08	5.67E-07 UP
Cd28	1.114039	0.00329605	0.0088323 UP
Icos	2.32711197	7.66E-16	1.86E-14 UP
Map3k8	3.33982323	2.52E-25	1.69E-23 UP
Map3k14	1.06993626	8.93E-07	5.24E-06 UP
Ctla4	5.08359744	1.12E-52	6.36E-50 UP

Table S4 2245 DEGs obtained from the 5 human intestinal I/R injury samples and 5 control samples.

	log2FoldChange	pvalue	padj	regulated
NAMPT	4.3337	1.49E-32	3.65E-28	up
FOSL1	7.1198	1.04E-26	1.28E-22	up
IL1RAP	2.2960	6.64E-23	4.07E-19	up
ARG1	4.4361	2.13E-22	1.04E-18	up
NR4A3	5.7107	7.54E-22	3.08E-18	up
NAMPTP1	4.1244	1.68E-21	5.16E-18	up
PLAUR	3.8158	1.57E-21	5.16E-18	up
IL1R2	5.2641	2.31E-21	6.29E-18	up
CD177	6.5185	8.61E-21	2.11E-17	up
HIF1A	2.5263	1.80E-20	4.01E-17	up
FABP6	-11.7706	2.15E-20	4.39E-17	down
B4GALT5	1.3987	3.18E-20	6.00E-17	up
CXCL8	7.8820	1.50E-19	2.63E-16	up
ABL2	2.3757	8.24E-19	1.26E-15	up
SBNO2	2.2883	1.81E-18	2.62E-15	up
LOC100506403	3.0293	1.77E-17	2.41E-14	up
PUS7	1.2371	3.83E-17	4.95E-14	up
CXCL3	5.3143	1.02E-16	1.25E-13	up
ADAMTS4	6.4058	2.03E-16	2.37E-13	up
PTX3	6.0305	2.53E-16	2.82E-13	up
TIMP1	4.2746	2.99E-16	3.19E-13	up
ELL2	2.5908	4.95E-16	5.06E-13	up
PLK3	2.9420	8.79E-16	8.43E-13	up
MAP3K5	1.1146	8.94E-16	8.43E-13	up
PXMP4	-1.2697	1.16E-15	1.05E-12	down
COLCA1	-2.6777	1.29E-15	1.12E-12	down
PTPRE	1.5876	1.33E-15	1.12E-12	up
PANX1	1.9690	1.89E-15	1.55E-12	up
UPP1	3.0386	2.04E-15	1.61E-12	up
C14orf28	-1.5150	3.83E-15	2.93E-12	down
MCEMP1	6.9057	4.79E-15	3.56E-12	up
TEAD4	2.4786	8.68E-15	6.26E-12	up
GPR3	3.9856	1.05E-14	7.10E-12	up
C3orf86	4.2552	1.07E-14	7.10E-12	up
SOD2	3.9183	1.03E-14	7.10E-12	up

NFIL3	2.3462	1.35E-14	8.71E-12 up
CPO	-7.5957	2.16E-14	1.36E-11 down
SERPINE1	6.2407	5.72E-14	3.51E-11 up
DDX21	2.2459	7.02E-14	4.10E-11 up
EIF4A1	2.0731	6.86E-14	4.10E-11 up
MCL1	1.9555	7.27E-14	4.14E-11 up
CSRNP1	2.5193	9.94E-14	5.54E-11 up
EIF4A1P10	1.8757	1.30E-13	6.94E-11 up
ZNF345	-1.4030	1.30E-13	6.94E-11 down
ECHDC2	-1.8502	2.92E-13	1.49E-10 down
PLAU	3.0182	3.13E-13	1.56E-10 up
SLC2A3	3.2707	3.51E-13	1.72E-10 up
CIRBP	-1.2070	3.64E-13	1.75E-10 down
LIF	5.1461	5.57E-13	2.63E-10 up
RPL22L1	1.8910	6.39E-13	2.96E-10 up
ZER1	-1.1987	7.02E-13	3.19E-10 down
CSF3	7.6541	7.27E-13	3.24E-10 up
SLC38A2	1.5758	8.87E-13	3.88E-10 up
LINC01089	-1.7616	1.29E-12	5.55E-10 down
ADGRG3	3.0901	1.84E-12	7.79E-10 up
TUBB3	2.9723	1.96E-12	8.03E-10 up
HRH2	2.9904	2.00E-12	8.04E-10 up
DBP	-2.4706	2.24E-12	8.85E-10 down
PDE4B	2.3914	3.72E-12	1.45E-09 up
S100A3	2.2545	3.80E-12	1.46E-09 up
GNL3	1.6876	4.18E-12	1.58E-09 up
SLC5A12	-9.3622	4.88E-12	1.81E-09 down
NFKBIZ	2.4035	6.18E-12	2.26E-09 up
RRP12	2.0643	6.43E-12	2.32E-09 up
LOC101928674	4.2613	7.13E-12	2.53E-09 up
SNHG15	2.0724	8.67E-12	2.99E-09 up
ACSL4	2.3092	8.61E-12	2.99E-09 up
MAD2L2	1.5270	9.40E-12	3.20E-09 up
IL6	5.7008	1.12E-11	3.77E-09 up
ITPRIP	3.0823	1.39E-11	4.60E-09 up
CCDC71L	3.0663	1.48E-11	4.83E-09 up
LINC00954	-2.0720	1.50E-11	4.84E-09 down
ZNF606	-1.1946	1.59E-11	5.06E-09 down
GRWD1	1.0972	1.79E-11	5.62E-09 up
ING4	-1.2100	1.97E-11	6.11E-09 down
EIF4A3	1.2792	2.42E-11	7.43E-09 up

TMEM165	1.4024	2.66E-11	8.06E-09 up
PVR	1.7550	2.71E-11	8.11E-09 up
PHLDA1	3.0562	3.14E-11	9.28E-09 up
ICAM1	4.2061	3.51E-11	1.02E-08 up
OSM	4.3572	3.73E-11	1.08E-08 up
CEMIP	4.7917	4.51E-11	1.27E-08 up
IL1B	5.2089	5.10E-11	1.42E-08 up
SH2B1	-1.1155	6.44E-11	1.78E-08 down
MPZL2	2.4074	6.80E-11	1.85E-08 up
LOC91370	4.0297	7.80E-11	2.10E-08 up
CCL2	4.6146	1.03E-10	2.75E-08 up
SELE	6.2021	1.08E-10	2.82E-08 up
DYRK3	2.8630	1.07E-10	2.82E-08 up
PPP1R3E	-1.7962	1.09E-10	2.82E-08 down
FAM20C	1.6272	1.13E-10	2.89E-08 up
SERPINB2	6.6938	1.17E-10	2.92E-08 up
PPIF	1.4446	1.40E-10	3.47E-08 up
MYC	2.7522	1.44E-10	3.53E-08 up
SLED1	4.7376	1.49E-10	3.63E-08 up
NOP16	1.6784	2.26E-10	5.36E-08 up
TEX26-AS1	3.6197	2.30E-10	5.36E-08 up
LOC388813	2.5584	2.29E-10	5.36E-08 up
SDE2	1.2306	2.35E-10	5.45E-08 up
DUSP4	2.9447	2.67E-10	6.11E-08 up
MAP3K8	2.8058	2.88E-10	6.49E-08 up
HOXB7	-1.8748	2.99E-10	6.68E-08 down
PHC2	1.8281	3.11E-10	6.88E-08 up
IER3	3.7008	3.21E-10	7.03E-08 up
LIPN	4.2482	3.24E-10	7.03E-08 up
CHSY1	2.2890	3.30E-10	7.11E-08 up
THBS1	3.9364	3.52E-10	7.51E-08 up
S100A8	6.2247	4.21E-10	8.78E-08 up
KLHL33	-4.1548	4.22E-10	8.78E-08 down
IL1RL2	2.7381	4.74E-10	9.68E-08 up
FTSJ1	1.1056	4.78E-10	9.68E-08 up
PROCR	1.6222	4.90E-10	9.86E-08 up
PPRC1	2.0105	5.01E-10	9.99E-08 up
TNFAIP3	2.9043	5.98E-10	1.17E-07 up
RCAN1	2.6331	6.06E-10	1.18E-07 up
NOP56	1.1266	6.62E-10	1.28E-07 up
SRPRB	1.1105	7.64E-10	1.45E-07 up

HOXA-AS3	-2.4937	7.60E-10	1.45E-07 down
PPP1R15B	1.2593	8.13E-10	1.52E-07 up
TCEA3	-2.4400	8.72E-10	1.62E-07 down
RNF24	2.3766	9.29E-10	1.71E-07 up
MTHFD1L	1.9098	1.03E-09	1.88E-07 up
IL18R1	2.0821	1.07E-09	1.92E-07 up
PDPN	3.1506	1.13E-09	2.02E-07 up
CXCL2	3.8701	1.47E-09	2.61E-07 up
RLIM	1.0705	1.49E-09	2.61E-07 up
CDHR1	-6.8186	1.48E-09	2.61E-07 down
ALPL	4.4630	1.52E-09	2.62E-07 up
BDKRB1	3.7955	1.51E-09	2.62E-07 up
KCNJ13	-6.9406	1.64E-09	2.82E-07 down
EIF4A1P7	1.7517	1.76E-09	2.99E-07 up
NOLC1	1.5976	1.79E-09	3.03E-07 up
LOC220729	-1.3009	1.91E-09	3.20E-07 down
IL17RC	-1.2305	1.95E-09	3.22E-07 down
CH25H	3.7979	1.94E-09	3.22E-07 up
PIGA	1.8338	1.98E-09	3.25E-07 up
RTP4	-1.8174	2.02E-09	3.30E-07 down
HSPA6	6.6021	2.13E-09	3.46E-07 up
RN7SL368P	3.2342	2.19E-09	3.51E-07 up
IL1RL1	6.3236	2.33E-09	3.71E-07 up
SLC34A3	-6.9680	2.65E-09	4.16E-07 down
GTPBP4	1.5402	2.94E-09	4.57E-07 up
HAS1	5.5429	2.95E-09	4.57E-07 up
ANKMY2	-1.0846	3.06E-09	4.71E-07 down
S100A9	5.8742	3.43E-09	5.25E-07 up
C11orf96	3.5421	3.72E-09	5.66E-07 up
CBARP	3.2591	3.77E-09	5.70E-07 up
PLEKHG2	1.7697	4.32E-09	6.41E-07 up
INHBA	6.1003	4.37E-09	6.45E-07 up
P4HA1	2.0214	4.54E-09	6.66E-07 up
TFDP2	-1.4301	4.68E-09	6.75E-07 down
TMEM80	-1.4563	4.74E-09	6.75E-07 down
HMOX1	3.0108	4.74E-09	6.75E-07 up
PDCD11	1.1343	5.04E-09	7.14E-07 up
LOC101927837	-2.5533	5.18E-09	7.30E-07 down
SLC23A1	-5.8394	5.45E-09	7.64E-07 down
TPBG	1.3129	5.91E-09	8.22E-07 up
HOXA9	-3.9383	5.94E-09	8.22E-07 down

TSC22D1-AS1	-3.0716	6.05E-09	8.33E-07 down
H3-5	1.3637	6.23E-09	8.54E-07 up
OSMR	2.6402	6.97E-09	9.50E-07 up
BHLHE40	2.2986	7.29E-09	9.88E-07 up
EIF4E3	-1.2141	7.60E-09	1.02E-06 down
BYSL	1.6934	8.41E-09	1.13E-06 up
TMEM70	1.3486	8.62E-09	1.14E-06 up
SLC7A9	-6.7422	8.89E-09	1.16E-06 down
STC1	4.0874	9.16E-09	1.17E-06 up
ZNF540	-2.2274	9.06E-09	1.17E-06 down
ABCE1	1.2725	9.54E-09	1.20E-06 up
RNF122	2.0785	9.56E-09	1.20E-06 up
PNO1	1.6997	9.75E-09	1.21E-06 up
BZW1	1.0876	9.77E-09	1.21E-06 up
MATN2	-2.5067	9.68E-09	1.21E-06 down
ERFE	4.5828	9.90E-09	1.22E-06 up
C11orf91	4.9198	1.04E-08	1.27E-06 up
LOC105370854	-4.3074	1.04E-08	1.27E-06 down
ADAMTS9	4.4463	1.06E-08	1.28E-06 up
HSPA5	1.9688	1.14E-08	1.36E-06 up
NPM3	1.3328	1.18E-08	1.40E-06 up
EREG	4.0399	1.23E-08	1.44E-06 up
WDR43	1.4439	1.29E-08	1.50E-06 up
SNAPC1	1.3103	1.32E-08	1.52E-06 up
PTPN1	1.2831	1.34E-08	1.54E-06 up
TCEANC	-1.4421	1.36E-08	1.55E-06 down
HMGXB3	1.0335	1.40E-08	1.59E-06 up
FUT11	1.0342	1.41E-08	1.59E-06 up
CDKN2B-AS1	-5.1531	1.46E-08	1.64E-06 down
HEYL	3.0789	1.53E-08	1.72E-06 up
CHST2	1.8627	1.58E-08	1.75E-06 up
SERTAD1	1.8390	1.57E-08	1.75E-06 up
RND3	2.5014	1.60E-08	1.76E-06 up
NOP2	1.7830	1.89E-08	2.06E-06 up
TLR2	2.8602	1.91E-08	2.08E-06 up
ARID5B	1.8437	1.97E-08	2.12E-06 up
C9orf72	1.4426	2.00E-08	2.14E-06 up
FJX1	3.4371	2.00E-08	2.14E-06 up
PADI4	4.0269	2.04E-08	2.15E-06 up
IL11RA	-1.5297	2.04E-08	2.15E-06 down
EIF5A	1.1016	2.04E-08	2.15E-06 up

TPM4	1.5747	2.14E-08	2.25E-06 up
CCN1	3.2577	2.23E-08	2.34E-06 up
CLCF1	3.5169	2.30E-08	2.40E-06 up
ACBD4	-2.3194	2.31E-08	2.40E-06 down
ELK1	1.0624	2.34E-08	2.41E-06 up
SRGN	2.4769	2.34E-08	2.41E-06 up
HAS2	4.3169	2.35E-08	2.41E-06 up
ALDH1A1	-1.9386	2.68E-08	2.72E-06 down
AREG	4.3830	2.74E-08	2.76E-06 up
FSIP2	-4.5791	3.46E-08	3.44E-06 down
CDC42SE1	1.1319	3.68E-08	3.63E-06 up
TREM1	4.9510	3.73E-08	3.66E-06 up
LOC100506289	-3.0935	3.79E-08	3.68E-06 down
FOLR3	7.8897	3.79E-08	3.68E-06 up
SLC17A8	-7.3837	3.81E-08	3.69E-06 down
PGF	3.2700	3.93E-08	3.78E-06 up
GALT	-1.4621	3.97E-08	3.80E-06 down
KAT14	-1.4616	4.04E-08	3.86E-06 down
NAALADL1	-4.7407	4.21E-08	3.99E-06 down
PHEX	-4.6384	4.30E-08	4.04E-06 down
IL11	6.3573	4.30E-08	4.04E-06 up
SPHK1	2.7782	4.50E-08	4.21E-06 up
GPAT2	2.3952	4.58E-08	4.27E-06 up
HSD17B8	-1.7611	4.73E-08	4.39E-06 down
SERPINF2	1.7393	4.94E-08	4.54E-06 up
ATF3	2.1314	5.03E-08	4.55E-06 up
ZDHHC19	3.6204	5.01E-08	4.55E-06 up
C8orf44	-1.3075	5.03E-08	4.55E-06 down
TMEM252	-4.7958	4.98E-08	4.55E-06 down
KLHDC9	-2.5486	5.20E-08	4.65E-06 down
NIP7	1.1744	5.19E-08	4.65E-06 up
TRIB1	2.3836	5.24E-08	4.67E-06 up
HBEGF	2.7514	5.36E-08	4.76E-06 up
YRDC	1.6208	5.49E-08	4.84E-06 up
IRAK3	2.3617	5.48E-08	4.84E-06 up
CXCL1	5.1950	5.62E-08	4.94E-06 up
FAM200B	-1.0602	5.96E-08	5.22E-06 down
KLHDC2	-1.0305	6.02E-08	5.25E-06 down
TM4SF1	2.8853	6.37E-08	5.48E-06 up
ATP13A3	1.6075	6.33E-08	5.48E-06 up
EGR3	3.3597	6.37E-08	5.48E-06 up

ELL	1.3500	6.40E-08	5.49E-06 up
SLC25A23	-2.0380	6.43E-08	5.49E-06 down
CHAD	-4.8344	6.64E-08	5.65E-06 down
PPP1R15A	2.9673	6.76E-08	5.73E-06 up
LOC171391	-1.8566	6.79E-08	5.74E-06 down
ABCG2	-4.8913	6.93E-08	5.84E-06 down
SULT1A2	-5.2029	7.54E-08	6.33E-06 down
PUM3	1.4182	7.61E-08	6.37E-06 up
RHOQ-AS1	2.5302	8.11E-08	6.75E-06 up
GRAMD1A	1.6414	8.25E-08	6.83E-06 up
CCDC146	-1.6199	8.38E-08	6.91E-06 down
CCL3	3.2713	8.83E-08	7.24E-06 up
LOC102724788	-5.4835	8.94E-08	7.31E-06 down
MTHFD2	2.2239	9.00E-08	7.33E-06 up
PTGES	2.7933	9.24E-08	7.50E-06 up
CYTOR	2.2832	9.32E-08	7.54E-06 up
S100A12	6.7530	1.09E-07	8.70E-06 up
ATP11A	1.0816	1.11E-07	8.80E-06 up
GUCA2B	-7.7920	1.11E-07	8.81E-06 down
FAM151A	-6.3834	1.14E-07	8.98E-06 down
CLK4	-1.1267	1.17E-07	9.21E-06 down
NUP58	1.1255	1.18E-07	9.21E-06 up
CD44	1.7191	1.19E-07	9.29E-06 up
NNMT	3.4052	1.22E-07	9.48E-06 up
CUBN	-6.0892	1.22E-07	9.48E-06 down
TNFAIP6	4.2399	1.25E-07	9.68E-06 up
SLCO4A1	2.5885	1.34E-07	1.03E-05 up
SLC10A2	-8.2616	1.36E-07	1.05E-05 down
CSGALNACT2	1.5900	1.39E-07	1.06E-05 up
LOC100419170	4.3472	1.43E-07	1.09E-05 up
ZNF121	1.0115	1.47E-07	1.11E-05 up
ZBTB21	1.4913	1.47E-07	1.11E-05 up
ZNF436-AS1	-2.3430	1.51E-07	1.13E-05 down
LOC100134368	-2.1428	1.50E-07	1.13E-05 down
ATG101	1.1495	1.54E-07	1.15E-05 up
CEBPB	2.2712	1.57E-07	1.17E-05 up
CDHR3	-3.5203	1.60E-07	1.18E-05 down
PAPPA	2.0961	1.68E-07	1.24E-05 up
ZNF599	-1.0949	1.69E-07	1.24E-05 down
NME1	1.6698	1.76E-07	1.29E-05 up
SH3TC1	1.8476	1.80E-07	1.31E-05 up

GPR84	5.2385	1.80E-07	1.31E-05 up
THBD	2.8975	1.81E-07	1.31E-05 up
FCER1A	-3.4107	1.84E-07	1.32E-05 down
ADD3-AS1	-2.7388	1.88E-07	1.35E-05 down
LHPP	-1.6889	1.96E-07	1.39E-05 down
LINC01011	-1.4133	1.98E-07	1.40E-05 down
PTPRVP	-4.5834	2.16E-07	1.53E-05 down
MYBPC3	2.4873	2.21E-07	1.56E-05 up
EAF1	1.2655	2.23E-07	1.57E-05 up
KY	-4.9391	2.29E-07	1.61E-05 down
ARC	5.1021	2.35E-07	1.64E-05 up
LOC100130111	-6.3822	2.36E-07	1.64E-05 down
INO80E	-1.0618	2.34E-07	1.64E-05 down
DDX60	-1.3099	2.39E-07	1.65E-05 down
IFITM2	2.2252	2.38E-07	1.65E-05 up
GVQW3	-2.0205	2.44E-07	1.68E-05 down
FCAR	5.0834	2.45E-07	1.68E-05 up
MAFF	3.0177	2.44E-07	1.68E-05 up
CFAP45	3.5338	2.47E-07	1.69E-05 up
IL24	6.9909	2.48E-07	1.69E-05 up
H3-3B	1.2160	2.51E-07	1.70E-05 up
SEH1L	1.1070	2.53E-07	1.71E-05 up
TNFRSF12A	3.1700	2.60E-07	1.75E-05 up
DCUN1D3	1.9827	2.61E-07	1.75E-05 up
CYP2U1	-1.3115	2.69E-07	1.80E-05 down
MYORG	-2.3941	2.74E-07	1.81E-05 down
SERPINH1	3.2566	2.75E-07	1.81E-05 up
URB2	1.5323	2.79E-07	1.84E-05 up
DNASE1	-3.7959	2.90E-07	1.90E-05 down
SLC19A2	1.9557	3.08E-07	2.00E-05 up
LILRA5	4.1666	3.07E-07	2.00E-05 up
RGS16	4.2173	3.10E-07	2.00E-05 up
HSP90B2P	1.4035	3.14E-07	2.03E-05 up
DET1	-1.8157	3.20E-07	2.05E-05 down
SIGLEC17P	-1.8468	3.24E-07	2.07E-05 down
MB	-3.3835	3.26E-07	2.07E-05 down
GLIS3	1.8579	3.42E-07	2.17E-05 up
XIRP1	6.1239	3.43E-07	2.17E-05 up
ZNF281	1.3727	3.49E-07	2.21E-05 up
BATF3	2.0536	3.77E-07	2.37E-05 up
SLC25A25	2.0149	3.86E-07	2.40E-05 up

FAXDC2	-2.2388	3.95E-07	2.44E-05 down
ZNF780B	-1.3480	3.94E-07	2.44E-05 down
SLC7A5	3.5058	3.99E-07	2.47E-05 up
HOXC-AS2	-4.3548	4.12E-07	2.54E-05 down
FAM126A	1.1500	4.14E-07	2.55E-05 up
TGIF1	2.1817	4.19E-07	2.57E-05 up
RNASE2	5.4203	4.25E-07	2.60E-05 up
FPR1	4.4619	4.32E-07	2.64E-05 up
SLC28A1	-5.5422	4.50E-07	2.73E-05 down
DKC1	1.0305	4.57E-07	2.77E-05 up
HOXC-AS1	-4.5649	4.60E-07	2.78E-05 down
SLC26A3	-6.4467	4.64E-07	2.80E-05 down
WEE2-AS1	-1.4901	4.70E-07	2.83E-05 down
SLC11A1	4.6301	4.73E-07	2.84E-05 up
ITPKC	1.8454	4.78E-07	2.86E-05 up
CAMK2G	-2.1489	4.88E-07	2.91E-05 down
SERPINE2	2.6132	4.95E-07	2.94E-05 up
PLK2	1.6201	4.99E-07	2.95E-05 up
DAB1	-4.9544	5.01E-07	2.96E-05 down
SAP30L	-1.1597	5.07E-07	2.98E-05 down
RAB3C	1.3236	5.12E-07	3.00E-05 up
ZNF19	-1.4870	5.48E-07	3.18E-05 down
MEDAG	3.7394	5.51E-07	3.19E-05 up
IKBIP	1.7918	5.62E-07	3.24E-05 up
SERPINB8	1.7537	5.84E-07	3.36E-05 up
TNFAIP1	1.1261	5.88E-07	3.38E-05 up
RIPK2	1.7986	5.99E-07	3.42E-05 up
ARID5A	2.0781	6.29E-07	3.56E-05 up
EPOP	3.1905	6.29E-07	3.56E-05 up
FPR2	4.2210	6.34E-07	3.58E-05 up
POLA2	3.5808	6.87E-07	3.87E-05 up
PTGIR	2.6388	6.97E-07	3.91E-05 up
KLC4	-2.1999	7.17E-07	4.01E-05 down
RRP9	1.1664	7.19E-07	4.02E-05 up
BTBD19	2.0877	7.49E-07	4.16E-05 up
SRGAP1	1.0652	7.71E-07	4.26E-05 up
ADAMTSL4-AS1	3.2687	8.09E-07	4.46E-05 up
PAXIP1-DT	-1.3030	8.19E-07	4.49E-05 down
SOCS3	3.2166	8.21E-07	4.49E-05 up
CNGA1	-4.1418	8.37E-07	4.56E-05 down
PROK2	3.7293	8.53E-07	4.63E-05 up

DHRS1	-1.9636	8.51E-07	4.63E-05 down
SNAI1	3.4061	8.67E-07	4.69E-05 up
TDRD9	2.4462	8.70E-07	4.70E-05 up
ADAM17	1.1469	9.30E-07	4.98E-05 up
SPRY4	1.7701	9.32E-07	4.98E-05 up
ENPP3	-5.6074	9.34E-07	4.98E-05 down
UGCG	1.7220	9.33E-07	4.98E-05 up
DRAM1	2.1709	9.38E-07	4.99E-05 up
CLEC5A	5.2370	9.47E-07	5.03E-05 up
PAK1IP1	1.3415	9.54E-07	5.05E-05 up
TMEM161B-AS1	-2.4267	9.80E-07	5.18E-05 down
SPTBN5	2.2352	1.02E-06	5.40E-05 up
ZNF737	-1.0778	1.04E-06	5.45E-05 down
TTC30B	-1.3754	1.04E-06	5.48E-05 down
C2orf88	-3.2886	1.06E-06	5.54E-05 down
TNFRSF10D	2.3545	1.08E-06	5.63E-05 up
SLC6A4	-5.4714	1.11E-06	5.79E-05 down
SHC1	1.2595	1.12E-06	5.81E-05 up
ASGR1	2.1864	1.12E-06	5.81E-05 up
FBXW4	-1.0044	1.12E-06	5.81E-05 down
GLT1D1	3.1523	1.13E-06	5.83E-05 up
SCIN	-5.3551	1.14E-06	5.86E-05 down
AGTRAP	1.8463	1.18E-06	6.07E-05 up
KAZALD1	-2.7461	1.18E-06	6.07E-05 down
RAN	1.0398	1.19E-06	6.09E-05 up
CRISPLD2	2.7249	1.21E-06	6.19E-05 up
FAM167B	2.0653	1.24E-06	6.32E-05 up
ADH4	5.2873	1.26E-06	6.37E-05 up
MIEF2	-1.3325	1.31E-06	6.59E-05 down
EIF5AL1	1.3474	1.33E-06	6.65E-05 up
MRPL17	1.0543	1.34E-06	6.72E-05 up
NOL12	-1.2426	1.35E-06	6.73E-05 down
ACKR3	2.3477	1.38E-06	6.90E-05 up
RND1	4.9179	1.40E-06	6.98E-05 up
HOXC10	-3.6441	1.41E-06	6.99E-05 down
POLR1C	1.3383	1.41E-06	7.01E-05 up
PNP	2.4652	1.43E-06	7.06E-05 up
EIF4A1P2	2.0918	1.43E-06	7.06E-05 up
NUDT12	-1.2872	1.44E-06	7.08E-05 down
ZNF252P-AS1	-2.7387	1.47E-06	7.20E-05 down
E2F3	1.3552	1.50E-06	7.34E-05 up

FBXL22	-4.1552	1.52E-06	7.39E-05 down
OSGEPL1	-1.2374	1.53E-06	7.46E-05 down
GRHL1	2.8785	1.58E-06	7.69E-05 up
ZFP14	-1.6968	1.59E-06	7.71E-05 down
RPL32P32	2.4307	1.65E-06	7.95E-05 up
NXT1	1.4734	1.67E-06	8.04E-05 up
LOC100287896	-1.4575	1.71E-06	8.19E-05 down
USP31	1.1798	1.76E-06	8.42E-05 up
ACE2	-5.6182	1.78E-06	8.51E-05 down
LIN7B	-1.3316	1.81E-06	8.60E-05 down
ASXL3	-1.6670	1.82E-06	8.65E-05 down
NUDCD1	1.1573	1.84E-06	8.72E-05 up
EGR4	4.2977	1.86E-06	8.79E-05 up
SERTAD4	-2.6958	1.87E-06	8.81E-05 down
MTHFD2P7	2.2190	1.88E-06	8.81E-05 up
HLF	-2.8438	1.88E-06	8.81E-05 down
ZNF460	1.7937	1.88E-06	8.81E-05 up
FKBP1A	1.2682	1.93E-06	9.03E-05 up
METTL1	1.7398	2.00E-06	9.32E-05 up
JUNB	1.7304	2.01E-06	9.34E-05 up
PGLYRP1	4.2696	2.11E-06	9.76E-05 up
HYOU1	1.3855	2.15E-06	9.95E-05 up
BCL6B	2.6995	2.21E-06	0.00010197 up
SNHG16	1.4487	2.22E-06	0.00010228 up
LRRC59	1.3001	2.28E-06	0.00010447 up
HOXB6	-1.3585	2.29E-06	0.00010475 down
MAPKAPK2	1.1846	2.37E-06	0.00010805 up
STX18-AS1	-1.2225	2.40E-06	0.00010913 down
NCOA7	1.7219	2.43E-06	0.00011028 up
RELT	2.2202	2.45E-06	0.00011086 up
SNHG17	1.4436	2.45E-06	0.00011086 up
ACKR4	-2.2022	2.47E-06	0.00011151 down
HOXA7	-1.9097	2.55E-06	0.0001151 down
NR4A2	2.7533	2.62E-06	0.00011789 up
ETF1	1.2155	2.66E-06	0.00011909 up
LRRC19	-5.3561	2.67E-06	0.00011932 down
RAB13	1.5116	2.72E-06	0.00012112 up
C11orf54	-1.5590	2.72E-06	0.00012112 down
SOAT2	-4.9252	2.72E-06	0.00012112 down
MMP1	7.4673	2.78E-06	0.00012314 up
HDAC11	-1.2989	2.82E-06	0.00012439 down

RNF149	1.3605	2.84E-06	0.0001251 up
TMEM158	3.6406	2.91E-06	0.00012808 up
MCHR1	2.5021	2.91E-06	0.00012808 up
GPR4	3.5740	2.93E-06	0.00012845 up
LOC107987479	-4.5771	2.94E-06	0.00012845 down
WTAP	1.4227	2.94E-06	0.00012848 up
LITAF	1.6376	3.04E-06	0.00013224 up
GNL2	1.2889	3.07E-06	0.00013349 up
CARF	-1.3884	3.09E-06	0.00013389 down
RIOK1	1.1779	3.13E-06	0.00013445 up
FAM71F2	1.6596	3.13E-06	0.00013445 up
B4GALT1	1.6240	3.12E-06	0.00013445 up
KDM6B	1.7856	3.14E-06	0.00013445 up
DPF3	-2.0469	3.16E-06	0.00013542 down
STPG3-AS1	-4.0081	3.18E-06	0.00013556 down
SMOX	1.9859	3.18E-06	0.00013556 up
SPAG8	-2.2542	3.19E-06	0.00013564 down
PDZD7	-3.4792	3.19E-06	0.00013564 down
TMED9	1.0338	3.24E-06	0.00013721 up
NAPEPLD	-2.0313	3.26E-06	0.00013778 down
SLC9A3	-4.3356	3.30E-06	0.00013939 down
CHIC2	1.2403	3.40E-06	0.00014263 up
SBK3	3.7008	3.46E-06	0.00014509 up
APLN	3.6892	3.51E-06	0.00014643 up
SH3RF3	1.4535	3.53E-06	0.00014709 up
TUBAP2	1.8072	3.55E-06	0.00014737 up
ROGDI	-1.9757	3.54E-06	0.00014737 down
HERC2P7	-1.3629	3.66E-06	0.00015158 down
LINC01303	3.4213	3.81E-06	0.00015696 up
NFKB2	1.8583	3.85E-06	0.00015805 up
SLC5A9	-5.2243	3.86E-06	0.00015823 down
POP1	1.2357	4.00E-06	0.00016373 up
NAT8B	-6.2924	4.01E-06	0.00016375 down
KCTD7	-1.6272	4.02E-06	0.00016386 down
C10orf143	-1.4829	4.05E-06	0.00016495 down
NLRP3	2.2667	4.16E-06	0.00016843 up
TOB1-AS1	-2.5396	4.26E-06	0.00017194 down
GFPT2	3.2565	4.28E-06	0.00017248 up
R3HDM4	1.1955	4.40E-06	0.00017698 up
C5AR2	2.7231	4.66E-06	0.00018605 up
TAF1D	1.1267	4.78E-06	0.00019046 up

PUS1	1.1786	4.84E-06	0.00019248 up
TBX10	-6.2098	4.89E-06	0.00019385 down
LUCAT1	5.4148	4.89E-06	0.00019387 up
DMRTA1	-1.9455	5.11E-06	0.00020073 down
PAGR1	-1.2402	5.43E-06	0.00021233 down
AMPD2	1.0750	5.49E-06	0.0002144 up
KLF6	1.6792	5.58E-06	0.00021722 up
ARHGEF37	-2.0853	5.72E-06	0.00022209 down
CCN4	3.1573	5.74E-06	0.00022274 up
SUGCT	-2.3697	5.79E-06	0.0002241 down
CSF3R	3.1493	5.81E-06	0.00022439 up
USP30	-1.0723	5.84E-06	0.00022503 down
CKAP4	1.5623	5.94E-06	0.0002287 up
KLHL2	1.1248	6.04E-06	0.00023219 up
NIFK	1.1398	6.07E-06	0.00023294 up
HYKK	-2.0500	6.12E-06	0.00023418 down
FAS	1.0000	6.22E-06	0.00023702 up
HSP90B1	1.3927	6.31E-06	0.00023974 up
GNPNAT1	1.2480	6.39E-06	0.00024199 up
EIF3J-DT	-1.1146	6.52E-06	0.00024669 down
C17orf113	-2.2728	6.68E-06	0.00025215 down
RABL2A	-1.1900	6.76E-06	0.00025419 down
ZSWIM3	-1.1028	6.83E-06	0.00025555 down
LINC01534	-1.2475	6.82E-06	0.00025555 down
PAQR8	-3.1234	7.17E-06	0.00026763 down
LGALS2	-4.6595	7.29E-06	0.00027136 down
SEC14L5	-3.2916	7.32E-06	0.00027181 down
NOP58	1.4676	7.54E-06	0.00027914 up
LOC101927825	-3.8955	7.60E-06	0.00028119 down
ACOX2	-2.5117	7.62E-06	0.00028121 down
HOXC9	-2.8076	7.67E-06	0.00028293 down
MIR4435-2HG	1.5024	7.77E-06	0.00028576 up
ZNF331	1.8381	7.77E-06	0.00028576 up
RETN	6.3400	7.84E-06	0.0002878 up
DCUN1D5	1.0455	8.02E-06	0.00029304 up
ACE	-3.9799	8.01E-06	0.00029304 down
NR3C2	-2.2568	8.05E-06	0.0002936 down
FAM161B	-1.1174	8.30E-06	0.00030162 down
IQSEC2	-1.0948	8.39E-06	0.00030385 down
NMUR1	-1.9813	8.52E-06	0.00030688 down
SPAG4	2.5227	8.51E-06	0.00030688 up

ABCC6	-3.1323	8.62E-06	0.00030995 down
CYP2J2	-5.0952	8.83E-06	0.00031711 down
APOB	-6.1597	8.92E-06	0.00031827 down
LRRC8A	1.2691	8.91E-06	0.00031827 up
MAP2K3	1.6239	8.90E-06	0.00031827 up
LDLR	3.0275	8.93E-06	0.00031827 up
CLEC4D	3.3528	9.12E-06	0.00032352 up
NBR2	-1.3828	9.16E-06	0.00032403 down
LZTS1	2.3630	9.21E-06	0.00032537 up
P2RY4	-4.7189	9.25E-06	0.00032628 down
C3orf85	-6.6648	9.37E-06	0.00032984 down
NOL6	1.2131	9.38E-06	0.00032984 up
DUSP1	1.7462	9.44E-06	0.00033175 up
RNF145	1.0619	9.48E-06	0.00033244 up
LOC100996351	4.1297	9.49E-06	0.00033244 up
CYP4F11	-5.9894	9.50E-06	0.00033244 down
VIPR1	-3.6333	9.66E-06	0.00033758 down
KLHL15	1.0605	9.75E-06	0.00033944 up
MMP28	-2.2878	9.79E-06	0.00034056 down
RPARP-AS1	-1.6434	1.01E-05	0.00035174 down
MS4A10	-6.4303	1.03E-05	0.00035343 down
CYP4F2	-6.7244	1.03E-05	0.00035343 down
PPIEL	-1.0134	1.04E-05	0.00035826 down
NOD1	1.4197	1.04E-05	0.00035826 up
TMEM129	-1.0501	1.05E-05	0.00036052 down
HEXIM2	-1.4524	1.06E-05	0.00036278 down
MMP25	2.3433	1.07E-05	0.00036286 up
A4GALT	1.5177	1.07E-05	0.00036286 up
SPRY1	1.8846	1.08E-05	0.0003657 up
CCDC86	1.1912	1.08E-05	0.00036639 up
ZBTB3	-1.0465	1.08E-05	0.00036639 down
PBXIP1	-1.5057	1.09E-05	0.00036721 down
BTC	-3.3077	1.09E-05	0.00036724 down
TNFSF10	-1.8792	1.09E-05	0.0003677 down
TGFBI	1.4856	1.10E-05	0.00036803 up
TMEM132A	1.9827	1.11E-05	0.00037105 up
CCL4	2.5581	1.13E-05	0.00037543 up
MSX2	3.2963	1.16E-05	0.00038439 up
GABPB1	1.2879	1.20E-05	0.00039537 up
TEF	-1.6319	1.22E-05	0.00040016 down
CRLF1	2.7526	1.25E-05	0.00040916 up

LRRC66	-3.7292	1.25E-05	0.00040945 down
LINC01229	-4.7873	1.27E-05	0.00041514 down
CCDC191	-1.0868	1.28E-05	0.00041606 down
CAPN9	-4.9375	1.28E-05	0.00041613 down
TGM2	1.5853	1.29E-05	0.00041736 up
TNFSF9	3.5873	1.29E-05	0.00041741 up
RPL7P1	2.3598	1.32E-05	0.00042735 up
P4HA3	2.9347	1.32E-05	0.00042735 up
SCNN1D	-1.3836	1.34E-05	0.00043036 down
CNKSR2	-2.0615	1.35E-05	0.00043268 down
ABCB5	-3.6487	1.39E-05	0.00044468 down
LOC101930275	-2.2382	1.39E-05	0.00044468 down
GLUL	2.5824	1.43E-05	0.00045562 up
OARD1	-1.1667	1.43E-05	0.00045734 down
SLC5A11	-5.0374	1.44E-05	0.00045769 down
GRIA4	-4.5938	1.45E-05	0.00045978 down
LOC105371592	-2.3408	1.45E-05	0.00046043 down
LOC105370941	-2.3126	1.47E-05	0.0004659 down
KRT17	5.5141	1.48E-05	0.00046734 up
CREM	1.8805	1.51E-05	0.00047563 up
CCL14	-2.7453	1.52E-05	0.00047872 down
CASP16P	-4.7352	1.53E-05	0.00048121 down
AHR	1.0967	1.55E-05	0.00048552 up
IGF1	3.2903	1.56E-05	0.00048753 up
KHK	-4.0765	1.58E-05	0.00049146 down
SAMD14	1.9036	1.58E-05	0.00049146 up
RPS2P5	1.1179	1.61E-05	0.00050069 up
AEN	1.2865	1.63E-05	0.00050707 up
LOC107985216	-1.9404	1.64E-05	0.00050743 down
DUSP6	1.6581	1.64E-05	0.00050743 up
PIM3	1.5685	1.66E-05	0.00051158 up
LINC01954	-4.8740	1.69E-05	0.00051846 down
P3H1	1.6234	1.69E-05	0.00051942 up
PCBP3	1.8231	1.70E-05	0.00052131 up
COL18A1	1.8871	1.79E-05	0.00054593 up
C21orf62	-4.9105	1.82E-05	0.0005531 down
YBX3	1.7115	1.84E-05	0.00055682 up
PBLD	-3.8918	1.85E-05	0.00055944 down
TRMT6	1.2253	1.85E-05	0.00055944 up
PTRH2	1.5050	1.88E-05	0.0005659 up
RPF2	1.3433	1.88E-05	0.00056732 up

GPD1L	-1.6677	1.90E-05	0.0005706 down
SNHG3	1.5376	1.92E-05	0.0005762 up
SPRED3	2.7724	1.93E-05	0.00057774 up
VASN	2.3424	1.93E-05	0.00058 up
TRPM6	-4.1946	1.96E-05	0.00058592 down
DGAT1	-3.1213	1.96E-05	0.0005866 down
CDKN2D	1.1199	1.97E-05	0.00058729 up
CYP4F12	-4.1107	1.99E-05	0.00059332 down
SLC13A1	-7.4454	2.03E-05	0.0006024 down
LOC100129534	-1.2260	2.05E-05	0.00060789 down
COLCA2	-2.2633	2.06E-05	0.00061031 down
GNA15	2.5289	2.07E-05	0.00061284 up
C1orf220	-2.8361	2.09E-05	0.00061674 down
CASTOR3	-1.1928	2.12E-05	0.00062343 down
SMIM2-AS1	-3.4648	2.12E-05	0.00062343 down
DHRS12	-1.0215	2.16E-05	0.0006315 down
MARCHF8	-1.3975	2.16E-05	0.00063244 down
KDM8	-2.5481	2.17E-05	0.00063421 down
C2CD4B	3.1886	2.17E-05	0.00063483 up
ODC1	1.3522	2.24E-05	0.00065169 up
ZNF785	-1.0735	2.29E-05	0.00066491 down
LYAR	1.4059	2.30E-05	0.00066865 up
NXPE1	-5.5081	2.36E-05	0.0006821 down
LIAS	-1.0826	2.39E-05	0.00068653 down
KCNE1	3.6331	2.38E-05	0.00068653 up
EGR1	2.0973	2.39E-05	0.00068673 up
SLC17A4	-6.6221	2.41E-05	0.00068992 down
LTV1	1.0066	2.44E-05	0.00069676 up
TPRG1L	-1.0097	2.45E-05	0.00069946 down
MIR221	2.5948	2.47E-05	0.00070374 up
HSPA13	1.2791	2.49E-05	0.00070803 up
RNPC3	-1.2611	2.51E-05	0.00071271 down
TMEM217	2.4490	2.56E-05	0.00072103 up
DHRS11	-3.7383	2.56E-05	0.00072103 down
STPG3	-3.5899	2.57E-05	0.00072488 down
SLC22A5	-2.1108	2.61E-05	0.00073115 down
ALOX5AP	1.2155	2.61E-05	0.00073178 up
TDRD12	-4.1594	2.62E-05	0.00073222 down
ZSWIM4	2.1127	2.62E-05	0.00073222 up
SNORD83A	2.7060	2.65E-05	0.00073856 up
VNN3	3.0429	2.72E-05	0.00075623 up

NLRP12	3.6681	2.72E-05	0.00075623 up
NINJ1	1.6068	2.73E-05	0.00075763 up
FGF7	2.5318	2.73E-05	0.00075763 up
PTCSC1	3.2888	2.78E-05	0.00077029 up
GADD45B	2.0685	2.78E-05	0.00077029 up
VCAN	3.3335	2.79E-05	0.0007716 up
ZNF514	-1.0428	2.83E-05	0.00077946 down
ULBP1	3.8360	2.83E-05	0.00077946 up
SLC23A3	-4.0098	2.88E-05	0.00079139 down
EPHX2	-2.7447	2.88E-05	0.00079139 down
MBLAC1	-1.2906	2.94E-05	0.00080736 down
GUCA2A	-7.1553	2.96E-05	0.0008108 down
NFKB1	1.0319	2.96E-05	0.0008108 up
CMBL	-2.9466	2.99E-05	0.00081693 down
B4GALNT2	-6.1561	2.99E-05	0.00081693 down
OLR1	2.4516	3.01E-05	0.0008209 up
TAT	-4.0715	3.02E-05	0.00082244 down
TLNRD1	1.6261	3.05E-05	0.00082839 up
ADAMTS1	2.7766	3.06E-05	0.00082974 up
SEMA6B	2.5151	3.08E-05	0.00083287 up
DENND3	1.0583	3.09E-05	0.00083533 up
LOC105369614	-3.5621	3.11E-05	0.00084001 down
TCEAL9	1.7594	3.17E-05	0.00085314 up
LIMK2	1.1205	3.17E-05	0.00085314 up
HOMER1	2.6465	3.19E-05	0.000856 up
ACADSB	-1.0581	3.19E-05	0.000856 down
SDCBP	1.4689	3.20E-05	0.0008567 up
AMY2B	-1.1467	3.23E-05	0.00086372 down
MCTP1	1.9130	3.24E-05	0.00086682 up
PNPLA8	1.1861	3.25E-05	0.00086682 up
LOX	2.3372	3.31E-05	0.00087913 up
SMC2-AS1	-3.2262	3.36E-05	0.00089119 down
BID	1.1125	3.37E-05	0.0008922 up
HSP90AB2P	2.2283	3.39E-05	0.00089771 up
ZNF697	1.2451	3.41E-05	0.00090114 up
GSDMC	2.6499	3.46E-05	0.00091143 up
POLR3D	1.2608	3.46E-05	0.00091143 up
MS4A2	-2.5313	3.47E-05	0.00091143 down
CLSTN3	1.1568	3.46E-05	0.00091143 up
SYCP3	-2.5351	3.49E-05	0.00091567 down
MEP1B	-6.4007	3.56E-05	0.00093055 down

STPG1	-1.0261	3.57E-05	0.00093179 down
MEP1A	-6.2791	3.58E-05	0.00093427 down
IL13RA2	4.4363	3.59E-05	0.00093427 up
CLEC2B	1.5799	3.60E-05	0.00093689 up
CD160	-2.8308	3.61E-05	0.00093801 down
LINC01359	-1.6676	3.62E-05	0.00093864 down
IDNK	-2.0056	3.63E-05	0.00093963 down
MIR22HG	1.2608	3.64E-05	0.00094063 up
SLC39A1	1.4359	3.65E-05	0.00094101 up
NSUN5P1	-1.1302	3.65E-05	0.00094101 down
LINC01235	3.7315	3.65E-05	0.00094101 up
APOA1	-6.2975	3.66E-05	0.00094101 down
ANO5	-1.9661	3.68E-05	0.0009433 down
PTGER2	2.1931	3.68E-05	0.0009433 up
ARPC5L	1.2969	3.70E-05	0.00094805 up
SLC16A6	2.8950	3.75E-05	0.0009571 up
LRRC75B	-1.9460	3.76E-05	0.00095943 down
TRIB3	3.3374	3.79E-05	0.00096522 up
YARS1	1.2693	3.92E-05	0.00099161 up
GCA	1.6596	3.91E-05	0.00099161 up
BDNF-AS	-1.0305	3.95E-05	0.00099718 down
LRRC71	1.9971	3.96E-05	0.00099902 up
CASP4	1.0901	3.98E-05	0.00100347 up
HSPA5P1	2.9222	4.00E-05	0.00100732 up
CXCL5	6.0813	4.04E-05	0.00101505 up
TWNK	1.2837	4.11E-05	0.00103273 up
HSPH1	3.3101	4.14E-05	0.00103875 up
LOC100288073	2.6400	4.19E-05	0.00104714 up
HOXA3	-1.0185	4.26E-05	0.00105812 down
ACVR2B-AS1	-1.9383	4.29E-05	0.00106214 down
LINC00865	-1.9385	4.32E-05	0.0010689 down
ULBP2	3.5812	4.36E-05	0.00107658 up
DCAF13	1.1806	4.37E-05	0.00107905 up
ARL13B	1.0596	4.40E-05	0.00108444 up
LOC107985246	-1.3266	4.44E-05	0.00109162 down
SSH1	1.1617	4.47E-05	0.00109782 up
DAW1	5.0176	4.51E-05	0.00110596 up
SLC2A11	-1.2409	4.52E-05	0.0011066 down
CLEC12A	2.4924	4.65E-05	0.00113167 up
MROH7	-2.6405	4.69E-05	0.00114001 down
RWDD3	-1.0666	4.72E-05	0.0011441 down

PDZRN4	-4.5060	4.73E-05	0.0011441 down
KCNH6	-5.2199	4.73E-05	0.0011441 down
ZNF572	-1.7236	4.74E-05	0.00114499 down
RSRP1	-1.4083	4.76E-05	0.00114745 down
MPV17L	-1.6151	4.77E-05	0.00114839 down
LY6G6C	3.0385	4.85E-05	0.00116794 up
PLEKHM2	1.0142	4.87E-05	0.00116864 up
TREH	-4.6822	4.87E-05	0.00116864 down
SHBG	-3.9468	4.95E-05	0.00118356 down
COMP	4.6983	5.01E-05	0.00119561 up
MAK16	1.2915	5.03E-05	0.0011984 up
CTSL	2.5089	5.05E-05	0.00120033 up
SLC46A3	-2.6305	5.08E-05	0.00120338 down
MIR600HG	-1.9841	5.10E-05	0.00120426 down
RAB37	-1.8469	5.17E-05	0.00121759 down
BDKRB2	1.8256	5.24E-05	0.00123115 up
RAB8B	1.0364	5.31E-05	0.00124777 up
GLA	1.0288	5.39E-05	0.00126165 up
AQP11	-2.6278	5.39E-05	0.00126165 down
MFSD8	-1.0443	5.41E-05	0.00126288 down
FOXO4	-1.2321	5.43E-05	0.00126585 down
SMIM3	1.7934	5.46E-05	0.00127098 up
ZNF112	-1.0631	5.49E-05	0.00127775 down
MROH5	5.2108	5.54E-05	0.00128507 up
ZNF607	-1.3490	5.54E-05	0.00128507 down
TIGAR	1.3921	5.57E-05	0.00128931 up
CD300E	3.7903	5.57E-05	0.00128931 up
IER2	1.1209	5.60E-05	0.00129322 up
ARHGAP33	-1.1289	5.82E-05	0.00133868 down
C15orf39	1.1559	5.87E-05	0.00134805 up
MARCO	4.8519	5.91E-05	0.0013559 up
CLPB	1.2334	5.91E-05	0.0013559 up
HOXB8	-2.2839	5.92E-05	0.0013559 down
SULF2	1.6818	5.95E-05	0.00136067 up
NFKBIA	1.9998	5.99E-05	0.00136996 up
PIM1	1.7201	6.02E-05	0.00137038 up
SMPD3	-4.0451	6.01E-05	0.00137038 down
PLEKHA4	1.7361	6.01E-05	0.00137038 up
FSTL3	2.2156	6.03E-05	0.00137111 up
TKTL1	3.4251	6.08E-05	0.00138267 up
VEPH1	3.0921	6.10E-05	0.00138335 up

TMEM220	-2.6100	6.09E-05	0.00138335 down
ATG9B	3.0161	6.16E-05	0.00139336 up
COQ9	-1.1284	6.24E-05	0.00140821 down
CD55	2.1530	6.32E-05	0.00142458 up
QRFP	3.0990	6.37E-05	0.00143399 up
GATA6-AS1	-3.5674	6.41E-05	0.00143978 down
RN7SKP16	2.1984	6.47E-05	0.00144959 up
GDPD2	-5.6688	6.49E-05	0.00145183 down
IPO4	1.5197	6.52E-05	0.00145494 up
RNF207	-1.0635	6.61E-05	0.00147197 down
ADGRA3	-1.0028	6.64E-05	0.0014771 down
SH3GLB2	-1.0181	6.66E-05	0.00147871 down
OSCAR	3.0517	6.86E-05	0.00151867 up
TPBGL	2.1372	7.00E-05	0.00154643 up
HSP90B3P	1.4564	7.01E-05	0.00154725 up
LRRC15	3.5761	7.02E-05	0.00154725 up
LINC02829	-4.4524	7.03E-05	0.00154725 down
BCAS1	-4.8862	7.05E-05	0.00155121 down
CRAT	-1.0961	7.10E-05	0.00156105 down
LOC100507437	-1.2153	7.13E-05	0.00156438 down
RAPH1	1.6105	7.15E-05	0.00156531 up
REM2	2.4465	7.23E-05	0.00157914 up
JMJD6	1.2335	7.35E-05	0.00160286 up
SRXN1	1.6649	7.44E-05	0.0016149 up
INPP5J	-3.8732	7.46E-05	0.0016184 down
PCK2	-3.1547	7.48E-05	0.00162097 down
SLC16A9	-2.8619	7.60E-05	0.00164052 down
PPIP5K1	-1.3186	7.59E-05	0.00164052 down
IRF9	-1.1148	7.79E-05	0.00167586 down
PHF7	-1.2263	7.96E-05	0.0017054 down
CCDC151	1.6433	8.13E-05	0.00174144 up
PLB1	-3.9351	8.15E-05	0.00174146 down
CARNS1	-2.6648	8.14E-05	0.00174146 down
ENTPD5	-2.6618	8.17E-05	0.00174417 down
IGSF9	-4.4960	8.24E-05	0.00175842 down
PYY	-5.9456	8.26E-05	0.00176134 down
PIFO	-2.9695	8.34E-05	0.0017725 down
PRKAB2	-1.3938	8.33E-05	0.0017725 down
GPR75	1.7854	8.34E-05	0.0017725 up
SLC14A2	-3.5988	8.33E-05	0.0017725 down
CRIP3	-2.5727	8.39E-05	0.00178012 down

ABCC13	-4.5810	8.54E-05	0.00180786 down
SEMA3F	1.5866	8.61E-05	0.00181817 up
PDE5A	-2.2325	8.61E-05	0.00181817 down
SLC51B	-4.2672	8.60E-05	0.00181817 down
SNHG22	-1.4718	8.63E-05	0.00182017 down
RYR3	-2.1370	8.64E-05	0.00182152 down
ZC3H12A	2.2144	8.72E-05	0.00183619 up
ZNF519	-1.7739	8.74E-05	0.00183817 down
CEP44	-1.0970	8.76E-05	0.00184032 down
C9orf24	-2.8138	8.79E-05	0.00184522 down
FAM98C	-1.0779	8.81E-05	0.00184852 down
HES7	2.2846	8.89E-05	0.00186217 up
PROSER2	2.1447	8.91E-05	0.00186229 up
LINC00886	-1.7832	8.94E-05	0.00186678 down
KCNJ15	3.4322	8.95E-05	0.00186678 up
TSBP1-AS1	-2.4206	9.01E-05	0.00187716 down
MGAM	-4.6635	9.10E-05	0.00189194 down
ZNF488	-4.3064	9.18E-05	0.00190541 down
ZNF782	-1.3630	9.19E-05	0.00190561 down
RPS2P46	1.1782	9.22E-05	0.00190753 up
GRPEL1	1.1498	9.26E-05	0.00191145 up
CHRDL2	4.8748	9.27E-05	0.00191145 up
FNIP2	1.1970	9.28E-05	0.00191206 up
ZNF469	2.8502	9.33E-05	0.00192166 up
SLC4A10	-2.3015	9.41E-05	0.00193404 down
CD300H	3.1924	9.42E-05	0.00193445 up
CMTM2	2.6604	9.50E-05	0.00194833 up
LOC107987462	2.9584	9.52E-05	0.00195107 up
TMEM25	-2.5061	9.54E-05	0.0019546 down
MEFV	2.3923	9.76E-05	0.00199229 up
MMP19	3.6083	9.78E-05	0.00199406 up
ARNTL2	1.9733	9.83E-05	0.00200109 up
PRR7	1.8252	9.87E-05	0.00200633 up
IL27	3.7538	9.89E-05	0.00200933 up
CHD1	1.0503	9.91E-05	0.00201219 up
ASB16-AS1	-1.3815	9.95E-05	0.00201807 down
AMOT	-1.5286	9.96E-05	0.0020189 down
CCDC152	-3.0288	0.00010129	0.00204414 down
RCN1	1.4108	0.00010175	0.00205177 up
WIP1	1.6532	0.00010386	0.00209078 up
CDH11	1.8235	0.00010411	0.00209416 up

CTHRC1	2.1225	0.00010665	0.00214006 up
ACADM	-1.1907	0.00010677	0.00214057 down
ZNRD1ASP	-1.3205	0.00010786	0.00215728 down
SIK1B	2.4946	0.00010798	0.00215786 up
GCKR	3.2546	0.00010852	0.00216692 up
ADGRE2	2.4677	0.00010895	0.00217372 up
MMP10	6.2202	0.00010952	0.00218142 up
HCK	2.5610	0.00010951	0.00218142 up
G6PC	-6.3673	0.00011012	0.0021917 down
GCNT4	-2.8934	0.0001103	0.00219226 down
AMIGO1	-1.7712	0.00011173	0.0022112 down
FADS1	1.6709	0.00011228	0.00221842 up
HOXA10	-3.8996	0.00011241	0.00221914 down
SEC23B	1.0791	0.00011431	0.00224954 up
PDK2	-1.6784	0.00011722	0.00229568 down
IFI27	-1.9148	0.00011815	0.00231214 down
CIRBP-AS1	1.1364	0.00011894	0.00232189 up
CCDC162P	-2.8657	0.00012018	0.00234441 down
PANK1	-2.5129	0.00012205	0.00237703 down
TLCD3A	1.3541	0.00012308	0.00239517 up
EXOC6B	-1.1134	0.00012385	0.00240832 down
KCNQ3	1.9201	0.00012425	0.00241409 up
LINC00473	2.0978	0.00012538	0.00243035 up
CCDC183	-1.9232	0.00012651	0.00244825 down
DNAAF1	2.2705	0.00012694	0.00245465 up
NGFR	2.2364	0.0001277	0.00246744 up
HYAL3	1.1974	0.000128	0.00247129 up
PDZK1	-4.5757	0.00012815	0.00247227 down
USP32	1.0245	0.00012843	0.00247569 up
LOC101927495	-4.0481	0.00012937	0.00248991 down
HMGB1P49	-3.3608	0.00012948	0.00249002 down
CD163	3.8533	0.00013113	0.00251594 up
CCDC9B	-2.3212	0.00013124	0.00251609 down
KBTBD7	-1.0136	0.00013452	0.00256888 down
APOM	-2.4446	0.00013489	0.00257397 down
SSH3	-1.1067	0.00013502	0.00257447 down
NTS	-4.5333	0.00013807	0.00262638 down
DNTTIP2	1.1282	0.00013902	0.00263788 up
TNNC2	-2.6940	0.0001391	0.00263788 down
LINC01748	-3.2795	0.00013954	0.0026441 down
NDUFV2	2.0067	0.00013987	0.00264838 up

MANEA-DT	-2.1980	0.00014003	0.00264936 down
LOC100129844	3.0150	0.00014058	0.0026557 up
PWP2	2.2455	0.00014054	0.0026557 up
TEX52	-1.9108	0.00014148	0.00266961 down
ZNF248	-1.2633	0.00014347	0.00270186 down
CA3	-2.1767	0.00014422	0.00271243 down
CCN2	2.0235	0.0001466	0.00274801 up
NOD2	1.6484	0.00014649	0.00274801 up
BRIX1	1.1643	0.00014735	0.00275385 up
PPIB	1.1759	0.00014746	0.00275385 up
ZNF827	-1.6296	0.00014791	0.00276006 down
NAP1L1P1	1.2371	0.00014932	0.0027842 up
SRP14P4	-3.2274	0.00015145	0.00281711 down
IL1R1	2.0430	0.00015181	0.00281711 up
NOCT	1.7136	0.00015182	0.00281711 up
PLN	-3.4518	0.000152	0.00281711 down
CHN2	-3.0419	0.00015194	0.00281711 down
FLT1	2.3229	0.00015231	0.00282081 up
LIPG	2.3306	0.0001528	0.00282765 up
GSTM4	-1.8760	0.00015319	0.00283283 down
TAF13	1.4790	0.00015407	0.00284513 up
HEPH	-2.6818	0.00015485	0.0028526 down
PARD3B	-1.4474	0.00015608	0.00286886 down
PPBP	3.9863	0.00015654	0.00287512 up
LCP2	1.3157	0.00015683	0.00287837 up
LINC01558	-2.5354	0.00015746	0.00288766 down
LINC01465	1.4399	0.00015802	0.00289369 up
MIR3936HG	-2.2411	0.00015914	0.00290768 down
FKBP10	1.8915	0.00016043	0.0029291 up
AGO2	1.0546	0.00016114	0.00293984 up
BCL6	2.2769	0.00016138	0.00294086 up
TM6SF2	-4.4616	0.00016276	0.00296065 down
LINC00574	-4.3846	0.00016325	0.00296726 down
TPST1	1.6199	0.00016534	0.00299859 up
STARD13-AS	2.3660	0.00016619	0.00301181 up
SLC7A4	-2.1865	0.00016677	0.00302017 down
HR	-1.3698	0.00016773	0.00303529 down
MFSD13B	-2.0747	0.00016798	0.0030376 down
TLCD4	-1.8054	0.00016855	0.00304327 down
CASR	-4.9147	0.00016849	0.00304327 down
LINC00923	-2.0895	0.00017018	0.00306976 down

NOP10	1.1323	0.00017039	0.00306976 up
LOC644656	-1.5882	0.00017376	0.00312135 down
ASTL	3.8429	0.00017449	0.00313117 up
ABRA	4.4043	0.00017456	0.00313117 up
EDNRB	1.5804	0.00017545	0.00314247 up
NKD2	2.4795	0.00017728	0.00316928 up
CYS1	-3.3075	0.00017776	0.00317463 down
PRKG2	-3.1163	0.0001788	0.0031818 down
RNF144B	1.9132	0.00018242	0.00324135 up
LYPLAL1-DT	-3.0727	0.00018278	0.00324526 down
HPGD	-2.9983	0.00018383	0.00325924 down
ACSS1	-1.6601	0.00018484	0.00327481 down
LBP	6.2829	0.00018547	0.00328125 up
RCL1	1.2472	0.0001869	0.00330175 up
ADGRG1	1.7643	0.00018807	0.00331764 up
TRANK1	-1.4356	0.00019232	0.00338519 down
CEBPD	1.6929	0.00019388	0.00341026 up
MLKL	1.5971	0.00019469	0.00342205 up
HNFI1A-AS1	-5.0200	0.00019484	0.0034223 down
ERICH4	-4.1922	0.0001952	0.00342362 down
ACP6	-1.1592	0.00019722	0.00345421 down
PTGDR	-1.8650	0.00019884	0.00347505 down
DNAJB1	3.4954	0.00020184	0.00351757 up
LMCD1	2.7287	0.00020262	0.00352611 up
COL24A1	-2.5093	0.00020547	0.00356557 down
GSTM2	-1.8213	0.00020697	0.00358911 down
HILPDA	2.0094	0.00021189	0.00366406 up
LINC01778	-4.3880	0.0002132	0.00368406 down
IMPDH1P10	2.4609	0.0002141	0.00369437 up
MAT2A	1.1148	0.00021607	0.00372315 up
TLR3	-1.4925	0.00021731	0.00373657 down
IFI16	1.2800	0.0002191	0.00376208 up
C1QTNF7	-2.9332	0.00021943	0.00376508 down
ABCC6P2	-3.2255	0.00022017	0.00377519 down
HOXB-AS3	-1.4646	0.00022193	0.00380266 down
SLC52A1	-4.4501	0.00022237	0.00380767 down
LOC100505664	2.5450	0.00022286	0.00380828 up
LOC101928058	-3.2690	0.00022599	0.00385615 down
BCDIN3D-AS1	-1.8037	0.00022714	0.00387311 down
ITGA5	2.4085	0.00023184	0.00393956 up
UNC5A	2.3881	0.00023306	0.00395475 up

IL1A	5.3884	0.00023474	0.00397775 up
CLCN1	-3.2705	0.0002363	0.00399862 down
LOC102724330	-1.4315	0.00023993	0.0040461 down
CDK20	-1.3720	0.00024038	0.0040497 down
LOC554206	-1.4426	0.00024052	0.0040497 down
CCL3L3	3.1889	0.00024064	0.0040497 up
WDR3	1.0512	0.0002452	0.00410674 up
SLC7A2	1.7254	0.0002461	0.00411619 up
ZNF439	-1.5787	0.00024789	0.00414338 down
ZNF267	1.1941	0.00024818	0.00414532 up
LOC100133315	-1.3230	0.00025012	0.00416921 down
SNORD15B	3.0248	0.00025101	0.0041813 up
PKM	1.0524	0.00025122	0.00418182 up
LINC00242	-1.7694	0.00025211	0.00419099 down
CEBPB-AS1	-1.6483	0.00025371	0.00421473 down
STARD5	-2.2673	0.00025409	0.00421827 down
SLC35E2A	-1.4832	0.00025434	0.00421957 down
GNRHR2	-1.9179	0.00025807	0.00426295 down
ENPEP	-3.6725	0.00025934	0.0042793 down
MSX1	2.8029	0.00025979	0.00428227 up
LOC101927702	-2.3839	0.00025987	0.00428227 down
CD1C	-3.2417	0.00026121	0.00430071 down
PEAK3	1.7627	0.00026134	0.00430071 up
ACOXL	-1.5530	0.00026248	0.00431532 down
ARF4	1.3064	0.00026258	0.00431532 up
MS4A8	-5.4444	0.00026523	0.00435015 down
ARTN	2.2920	0.00026554	0.00435227 up
ITGA10	2.6107	0.00026743	0.00437455 up
FRMD1	-4.5150	0.00026784	0.00437837 down
BCL2A1	2.6962	0.00026934	0.00439697 up
ECI1	-1.0608	0.0002698	0.00440154 down
IL17RA	1.3742	0.00027065	0.00441254 up
SLC37A4	-2.4627	0.00027128	0.00441984 down
MROCKI	-3.0283	0.00027209	0.00442713 down
CDHR5	-5.2214	0.00027267	0.0044336 down
GGCT	1.0683	0.00027303	0.0044365 up
ACCS	-1.7001	0.0002736	0.00444285 down
GRTP1	-2.5108	0.00027613	0.00447796 down
LOC100506302	-2.1007	0.00027934	0.00452399 down
ZBED8	-1.6056	0.00028008	0.00453306 down
TMEM221	-1.7756	0.00028091	0.00454045 down

CYBRD1	-1.8250	0.00028491	0.00458648 down
ABHD6	-1.8682	0.0002848	0.00458648 down
CNGB3	-4.6300	0.0002847	0.00458648 down
SAXO2	-2.1183	0.000285	0.00458648 down
LOC107984142	-1.8333	0.00028497	0.00458648 down
LOC105372401	1.2348	0.00028507	0.00458648 up
KCNJ2	1.3007	0.0002855	0.0045905 up
FTH1P2	1.8721	0.0002867	0.00460365 up
LPCAT1	1.0834	0.0002884	0.00462492 up
DPY19L1	1.0161	0.00028923	0.0046352 up
FMO5	-3.2831	0.00028981	0.00464145 down
PNRC1	1.0722	0.00029065	0.00465196 up
ORM1	3.8864	0.00029223	0.00467419 up
NTM	-2.7035	0.00029384	0.00469114 down
SNORD19	3.1064	0.00029527	0.00470843 up
PRRG3	-2.0522	0.00029695	0.00473113 down
SUCLG1	-1.3480	0.00029786	0.00473639 down
CD93	2.1202	0.00029875	0.00474446 up
ACVRL1	1.3023	0.00029977	0.0047575 up
F5	2.3624	0.00030217	0.00478321 up
GRM2	2.9537	0.00030277	0.00478965 up
GABRD	2.2079	0.00030331	0.00479503 up
AADAC	-4.6063	0.00030698	0.00484097 down
REP15	-3.3811	0.00030686	0.00484097 down
BTN3A1	-1.1411	0.00030792	0.00485238 down
BCHE	-3.3235	0.0003091	0.0048678 down
CCL26	2.5374	0.00031267	0.00491762 up
LOC105378083	-1.0349	0.00031404	0.0049305 down
RAD51-AS1	-1.1591	0.00031409	0.0049305 down
PLD4	-3.1207	0.0003148	0.00493851 down
RPGR	1.3033	0.00031659	0.00496021 up
NDUFA6-DT	-1.8065	0.00031686	0.00496133 down
SLC35E4	1.5882	0.00031881	0.00498541 up
CYP2B6	-5.6715	0.00031903	0.00498569 down
MAGI3	-1.2797	0.0003215	0.00500736 down
LAMC1-AS1	1.7147	0.00032147	0.00500736 up
RMDN2	-1.6480	0.0003212	0.00500736 down
VSIG10	-2.0295	0.00032461	0.00504728 down
PLA2R1	-1.7469	0.0003252	0.00505004 down
CABCOC01	-4.3435	0.00032609	0.00505733 down
SLC22A15	1.1024	0.00032749	0.00506628 up

SPTSSA	1.0287	0.00033263	0.00513928 up
TMEM229B	-1.5792	0.00033286	0.00513967 down
FLT1P1	2.5782	0.00033641	0.00518787 up
TTC23L-AS1	-2.0603	0.00034091	0.00525062 down
F2RL3	2.6329	0.00034152	0.00525675 up
PRRX2	2.2584	0.0003418	0.00525785 up
ABCA5	-1.9423	0.00034264	0.00526737 down
ECSCR	1.2882	0.00034563	0.00530007 up
ZNF823	-1.0416	0.00034767	0.00532801 down
GARS1	1.4302	0.00034887	0.00534304 up
BMP3	-4.0101	0.00035372	0.00540724 down
LINC02175	-1.3832	0.00035365	0.00540724 down
TPSG1	-3.1807	0.00035439	0.00541405 down
AP2S1	1.0907	0.00035516	0.0054196 up
XPNPEP2	-3.7081	0.00036006	0.0054803 down
COQ4	-1.1823	0.00036144	0.00549779 down
NOX1	-2.7827	0.00036208	0.00549836 down
RILPL2	1.4673	0.00036184	0.00549836 up
PHLPP2	-2.3923	0.0003639	0.00551476 down
LOC101928725	-3.3957	0.00036528	0.00553218 down
FKBP1C	1.6296	0.00036634	0.00554478 up
GOLT1B	1.3397	0.00037354	0.00563649 up
VSIG4	3.9005	0.00037408	0.00564112 up
PGM5-AS1	-3.5429	0.00037498	0.00564809 down
RHBDF2	1.6536	0.000375	0.00564809 up
TACR2	-3.8492	0.00037525	0.00564833 down
B3GALT6	1.0275	0.0003781	0.00568082 up
YBX2	-3.0410	0.00037846	0.00568262 down
NHSL1	-2.1736	0.00038008	0.0056965 down
C6orf136	-1.7050	0.00038066	0.00569831 down
TCTEX1D4	2.2286	0.00038112	0.00570176 up
PHLDA2	2.5025	0.00038335	0.00572547 up
STEAP1	2.4205	0.000389	0.00579004 up
AGBL2	-2.3973	0.00038939	0.00579004 down
HCG27	-1.7624	0.00039152	0.0058078 down
SMLR1	-5.7773	0.00039153	0.0058078 down
IGSF3	-2.0260	0.00039198	0.00581043 down
NIPAL3	-1.0080	0.00039319	0.00582185 down
TWIST1	2.9004	0.00039465	0.00583638 up
BPHL	-1.7968	0.00039781	0.00587613 down
ADAMTS3	1.9555	0.00039889	0.0058885 up

KLF16	1.1663	0.00040393	0.00595568 up
ZFP3	-1.0612	0.00040815	0.0060107 down
FAM177B	-2.9863	0.0004088	0.0060167 down
RALGPS1	-2.1655	0.00040949	0.00602314 down
COL4A2-AS1	2.0197	0.0004106	0.00603589 up
ZMAT1	-1.0414	0.00041188	0.00604744 down
ROR1-AS1	2.0153	0.00041329	0.00605714 up
IRAK2	2.0524	0.00041712	0.00608793 up
SH3PXD2B	1.6655	0.00041711	0.00608793 up
TMEM236	-3.5866	0.00041693	0.00608793 down
ABCC6P1	-3.8458	0.00041693	0.00608793 down
NR4A1	2.6127	0.00041871	0.00610424 up
DHRS4-AS1	-1.3785	0.00041873	0.00610424 down
PGM3	1.0343	0.00041947	0.00611141 up
TSPOAP1	-2.0024	0.00042007	0.00611242 down
PRND	-4.1310	0.00042028	0.00611242 down
KCNJ14	2.0731	0.00042054	0.00611242 up
ZNF91	-1.4806	0.00042601	0.0061772 down
SHD	-3.6445	0.00042671	0.00618371 down
GSTO1	1.1921	0.00042777	0.00619483 up
LOC400499	2.3183	0.0004282	0.00619483 up
ZFP36	1.4696	0.00043138	0.00623296 up
AGFG1	1.2084	0.00043382	0.00626263 up
CEBPA-DT	-2.0185	0.00043394	0.00626263 down
RAB9B	-2.4292	0.00043442	0.00626585 down
TNIP3	2.5734	0.00043558	0.00627547 up
DAAM2-AS1	1.1397	0.0004356	0.00627547 up
ECRG4	-2.3103	0.00043739	0.00629762 down
FCGR2A	2.7052	0.00044657	0.00641473 up
IGSF10	-2.6190	0.00044875	0.00644222 down
CCL8	2.1873	0.00045035	0.00646002 up
PHGR1	-6.0059	0.00045169	0.00646547 down
PF4	3.1783	0.00045267	0.00647574 up
HEATR4	-1.1495	0.00045403	0.00648904 down
GFER	-1.3312	0.00045413	0.00648904 down
CCT5P1	1.0474	0.00045686	0.00652051 up
GNA11	-1.8208	0.00045727	0.00652249 down
OLAH	3.7660	0.00045771	0.00652508 up
ST3GAL1	1.9818	0.00046341	0.00659857 up
ST8SIA1	-2.0128	0.0004653	0.00662168 down
CFAP44	-1.0285	0.00046808	0.00664965 down

PGK1	1.0232	0.00046836	0.0066498 up
MSN	1.4190	0.0004698	0.00666251 up
CCIN	3.2801	0.00047208	0.00668705 up
LINC00365	-3.3133	0.00047336	0.00669405 down
CROT	-1.4821	0.00047761	0.00674202 down
LINC00570	-3.2156	0.0004792	0.00675784 down
SEMA4G	-3.1702	0.00047928	0.00675784 down
TTL6	-3.6595	0.00048148	0.0067772 down
ZBTB26	-1.1288	0.00048207	0.00678063 down
KLRK1-AS1	-1.5842	0.00048241	0.00678063 down
MARCHF3	1.6779	0.00048404	0.00679368 up
TMEM253	-3.3742	0.00048451	0.00679644 down
BTNL8	-4.3868	0.00048651	0.00680893 down
RAG1	-1.8721	0.0004865	0.00680893 down
IL10	3.2610	0.00049139	0.00686942 up
LILRB2	3.2195	0.00049316	0.0068823 up
LINC02747	-5.0051	0.00049389	0.00688856 down
HTR2B	-3.4695	0.00049513	0.00690199 down
SGTB	1.7376	0.0004968	0.00691745 up
HOXA6	-2.0617	0.00049662	0.00691745 down
PRDM16-DT	-1.2582	0.00049839	0.00693168 down
SIRT4	-1.4546	0.00050075	0.00696059 down
LRP8	2.0779	0.00050159	0.00696238 up
PARP3	-1.0379	0.00050148	0.00696238 down
MLPH	-2.9353	0.00050355	0.00697971 down
FOSL2	1.4602	0.00050842	0.00703521 up
SHMT2	1.3018	0.00050814	0.00703521 up
LINC00271	-2.0431	0.00051721	0.00713669 down
MIR6746	3.3103	0.00052106	0.00717366 up
RPS6KA5	-1.7853	0.00052088	0.00717366 down
FMO4	-2.0161	0.00052266	0.00719171 down
SLC2A6	1.8163	0.00052391	0.00720084 up
DPY19L2P2	-2.2692	0.00052666	0.00722646 down
LINC02777	-1.8565	0.00052917	0.0072569 down
C1orf115	-2.3965	0.00053169	0.00728728 down
ADAM9	1.1982	0.00053599	0.00733394 up
LOC105377623	-1.8161	0.00053712	0.00734129 down
LY6K	3.0629	0.00053688	0.00734129 up
TKFC	-2.5862	0.00053995	0.00734954 down
RPS6P1	2.1191	0.00053974	0.00734954 up
NRCAM	2.4605	0.00054395	0.00739342 up

FN3K	-1.2933	0.00054756	0.00743006 down
SNORD89	1.5559	0.00055279	0.00749281 up
PGM2L1	1.3154	0.00055272	0.00749281 up
PDZD3	-4.1790	0.00055845	0.00756533 down
ENO1	1.1662	0.00056037	0.00758713 up
TOMM34	1.0023	0.00056098	0.00759115 up
NECTIN2	1.0779	0.00056233	0.00759848 up
LOC100130950	-1.2880	0.00056303	0.00760218 down
ADA	1.4083	0.00056352	0.00760462 up
NPTX1	-4.4670	0.00056458	0.00761368 down
MMP14	1.3379	0.00056765	0.00763922 up
NFKBIE	1.8641	0.00057171	0.00768931 up
SLC2A1	2.5400	0.00057342	0.00769158 up
STAM-AS1	-2.2538	0.00057293	0.00769158 down
OAT	-2.2790	0.00057635	0.00772246 down
ZNF443	-1.1391	0.00057673	0.00772334 down
LINC01503	2.6502	0.0005786	0.00774413 up
HAPLN3	1.7065	0.00058059	0.00776225 up
AGAP2-AS1	1.2153	0.00058532	0.00781704 up
ACTG1P25	-2.8669	0.0005861	0.00782275 down
MEG9	2.0581	0.00058639	0.00782275 up
METRNL	1.2744	0.00059296	0.0078975 up
HLA-DMB	-2.1631	0.0005985	0.00794547 down
CYP4V2	-1.4488	0.00060294	0.00799577 down
LOC101928834	-2.9989	0.00060341	0.00799763 down
VPS13A	-1.4744	0.00060422	0.00800404 down
F3	1.5917	0.00060651	0.00803009 up
DNAJA1	1.4888	0.00060704	0.00803272 up
AMZ2P1	-1.0185	0.00060927	0.00804914 down
JRK	-1.0131	0.00061044	0.00805293 down
LOC102724684	-1.8351	0.00061135	0.00805929 down
CYB561D2	-2.5110	0.00061297	0.00806435 down
KYNU	2.4298	0.00061611	0.00808725 up
MANF	1.3738	0.00061695	0.00809392 up
LINC01482	2.8732	0.0006225	0.00816234 up
FRMD3	-1.3627	0.00062409	0.00817884 down
PIPOX	-2.4236	0.00062479	0.00818368 down
SERPINB9	1.5024	0.00062532	0.00818632 up
RBMS1	1.5230	0.00063012	0.00824031 up
IFNAR2	1.0173	0.00063128	0.00825103 up
ALDH3A2	-1.0388	0.00063236	0.00825641 down

NOC3L	1.1023	0.00063453	0.00827832 up
RTL1	3.5275	0.00063548	0.00828388 up
FKBP11	1.2726	0.00063725	0.00829366 up
TFPI2	4.0073	0.00063761	0.00829399 up
PPAT	1.0798	0.000638	0.00829466 up
SDS	3.0761	0.00063991	0.00831515 up
CYB5RL	-1.0228	0.00064069	0.00832087 down
PLPP6	-1.2711	0.00064234	0.00833343 down
GOLGA2P5	-2.3469	0.00064333	0.00833545 down
TMEM229A	-4.0159	0.00064559	0.00834907 down
UGT2B15	-5.2445	0.00064633	0.00835425 down
RAVER2	-1.7577	0.00064896	0.00837498 down
MRGPRF-AS1	-2.2485	0.00065801	0.00847398 down
IL18RAP	1.6574	0.00065845	0.00847441 up
FZD7	-1.6730	0.00065888	0.00847441 down
ACSM3	-1.6060	0.00065933	0.00847441 down
RELA-DT	-1.1664	0.00066002	0.00847753 down
COQ10B	1.0156	0.00066357	0.00851872 up
TDP2	-2.3101	0.00067345	0.00862744 down
ADGRE1	2.6758	0.0006762	0.0086582 up
RPSAP12	1.5669	0.00068383	0.00873781 up
CLEC4E	2.4400	0.00068472	0.0087444 up
PDE4D	2.1836	0.00068513	0.00874515 up
PTAFR	2.1932	0.00069177	0.00881149 up
RASGRF2-AS1	1.7233	0.00069301	0.00882279 up
SNORA3B	1.7487	0.00069381	0.00882375 up
RPL26P4	1.4621	0.00069429	0.00882523 up
RN7SL262P	-2.5620	0.00069635	0.00882989 down
RNY1P16	-3.0348	0.00069666	0.00882989 down
SLC43A3	1.4458	0.00069858	0.00884771 up
ZNF589	-1.2995	0.00070041	0.00886239 down
C5AR1	2.9531	0.00070118	0.00886239 up
NHLH1	2.0064	0.00070359	0.00888361 up
TRPV1	-1.3946	0.00070327	0.00888361 down
RPS2P31	3.7732	0.00070879	0.0089359 up
RRS1	1.2481	0.00070882	0.0089359 up
CCDC85B	1.2957	0.00071071	0.00895507 up
ZADH2	-1.0399	0.00071366	0.00897844 down
LRRC8B	1.2311	0.0007163	0.00900696 up
SLC7A11	4.1832	0.00071813	0.00902082 up
VWA3B	-2.5380	0.00072081	0.00904519 down

RFX8	3.6935	0.00072063	0.00904519 up
DPP4	-3.2097	0.00072291	0.00905475 down
SLC30A4	-1.6188	0.00072305	0.00905475 down
TRPV6	4.7558	0.00073338	0.00916076 up
IQCH	1.5653	0.00073594	0.00918328 up
C10orf55	2.3007	0.00073692	0.00919086 up
MMEL1	-2.4670	0.00073811	0.00919648 down
TGFB1	1.2556	0.00073812	0.00919648 up
ZSWIM5	-2.1646	0.00073858	0.00919755 down
RN7SKP127	-4.8905	0.00074037	0.00921518 down
LINC02207	2.0822	0.00074523	0.00926156 up
TNFRSF4	2.1334	0.00075015	0.00929751 up
C3orf36	3.0241	0.00075062	0.00929751 up
ABCB1	-3.1164	0.000749	0.00929751 down
ABO	-2.6991	0.00075078	0.00929751 down
ACR	1.7685	0.00075066	0.00929751 up
CRYZL2P-SEC16B	-2.6877	0.00075315	0.00931749 down
ZNF311	-1.0783	0.00075526	0.00933883 down
STRADB	-1.7242	0.00076171	0.00940439 down
HEXD	-1.1009	0.0007625	0.00940866 down
ARRDC3	1.2917	0.00076703	0.00944157 up
LINC01679	1.6995	0.00076829	0.00945226 up
RPL18AP6	1.0834	0.00077221	0.00947236 up
CDK2	1.1794	0.00077224	0.00947236 up
LINC00330	-4.2805	0.00077198	0.00947236 down
LOC101928414	-4.2166	0.00077513	0.009503 down
HSP90AA1	2.3665	0.00077738	0.00952111 up
KCNA2	-2.1747	0.00077825	0.00952704 down
MASP1	-3.0629	0.00078255	0.00955501 down
ZG16	-5.7965	0.00078249	0.00955501 down
SIGLEC9	3.0225	0.00078287	0.00955501 up
INSIG1	1.5868	0.00078553	0.00958265 up
LINC02613	-3.3640	0.00078642	0.00958757 down
TTC36	-2.5827	0.0007871	0.00958757 down
PHYH	-1.2408	0.00078673	0.00958757 down
ANGPT2	2.4898	0.00079224	0.00964535 up
HECW2	1.4017	0.00079402	0.00965269 up
KHDRBS2	-3.6144	0.0007939	0.00965269 down
FSIP1	1.6273	0.00079458	0.00965467 up
ZNF385D	1.5024	0.00080029	0.00971446 up
AKR1B1	1.0573	0.00080557	0.00977362 up

ASB16	-1.5664	0.00081286	0.00984398 down
IFIT3	-1.3948	0.00081637	0.00987052 down
PFDN2	1.2152	0.00082278	0.00993329 up
TRBV19	-2.7763	0.00082894	0.00999296 down
SLC26A9	3.1553	0.00083455	0.01004941 up
KAT2B	-1.0026	0.00083485	0.01004941 down
VEGFA	1.5154	0.00083869	0.0100753 up
XAF1	-1.8530	0.00083906	0.0100753 down
CBR1	-2.0344	0.00083892	0.0100753 down
WNT2	2.8602	0.00084111	0.01009492 up
NFE2	2.9146	0.00084444	0.01011898 up
PI15	3.8278	0.00084519	0.01011918 up
TOLLIP-AS1	-1.6386	0.00084714	0.01013266 down
LINC01550	-1.9752	0.00085217	0.01017785 down
PHACTR1	1.2327	0.00085276	0.01018003 up
SNHG26	1.0560	0.00085655	0.01022023 up
CEP43	-1.0875	0.00085782	0.01023044 down
PKLR	-4.1338	0.00086847	0.01033886 down
DIO2	2.7564	0.00087174	0.01037119 up
ADAMTS2	2.5232	0.00087531	0.01040217 up
IZUMO1	2.5036	0.000875	0.01040217 up
CYP3A7	-3.2065	0.00087784	0.01041848 down
HSD11B2	-3.8164	0.00087753	0.01041848 down
DNAH7	-2.5553	0.00088002	0.01041857 down
PLTP	3.4074	0.00088032	0.01041857 up
DNASE1L3	-3.0704	0.00088685	0.0104825 down
C8G	-3.7083	0.00088719	0.0104825 down
CLEC7A	1.5335	0.00088751	0.0104825 up
LOC105375166	-4.0479	0.000889	0.01049506 down
TGFB3	1.1858	0.00088967	0.01049793 up
GZMA	-2.5255	0.00089166	0.0105113 down
SCARNA9L	-2.2741	0.00089154	0.0105113 down
RHPN1	1.1042	0.00091485	0.01074336 up
RERG	-2.3752	0.00091834	0.01077256 down
PNPLA7	-1.1281	0.00092205	0.01080725 down
CLEC12B	2.3752	0.00092304	0.0108093 up
NKAPP1	-1.2594	0.00092502	0.01082654 down
RPL7AP52	-4.6472	0.00092863	0.01085842 down
NNAT	-2.5650	0.0009297	0.01086571 down
HAAO	-2.3644	0.0009318	0.01088505 down
MTARC2	-1.5640	0.00093586	0.01090073 down

PRORSD1P	-1.0041	0.00093459	0.01090073 down
TRPV4	2.2500	0.00093444	0.01090073 up
ETS2	1.7369	0.00093547	0.01090073 up
SEMA6A	-1.4043	0.00094151	0.01095668 down
SUCLG2	-1.0503	0.00095161	0.01104214 down
TMEM117	-1.2944	0.00095177	0.01104214 down
ZNF575	-1.4289	0.0009525	0.01104214 down
AANAT	1.9953	0.00095908	0.01110844 up
CES2	-2.9197	0.00096097	0.01111986 down
TMEM254	-1.0148	0.00096342	0.01114296 down
BTG3	1.3462	0.00096766	0.01118147 up
PDIA6	1.0693	0.00096876	0.01118883 up
PNPLA3	1.9412	0.00097532	0.01125404 up
IER5	2.0827	0.00098355	0.01133306 up
BARX1	3.7929	0.00098549	0.01133642 up
ACY3	-4.6500	0.0009879	0.01135116 down
SLC1A7	-2.0198	0.00099212	0.01139432 down
ABCA10	-2.0355	0.00099687	0.01144347 down
NT5DC2	1.0162	0.00100306	0.01150064 up
PLLP	-2.1336	0.00100504	0.01151186 down
LRRC26	-4.5997	0.00100754	0.01152086 down
LOC112268292	-1.8127	0.00100784	0.01152086 down
ADHFE1	-1.3720	0.00101028	0.01154342 down
MT1A	2.6279	0.00101153	0.01155227 up
TUBA1C	1.3930	0.00101208	0.01155317 up
SLC15A1	-4.9680	0.00101449	0.01157529 down
LINC00520	5.1575	0.00101659	0.01158846 up
GSTM5	-1.9272	0.00101878	0.01160809 down
S100A11	1.8582	0.00102809	0.01169992 up
NR1I3	-2.5190	0.00102828	0.01169992 down
MSC	2.2184	0.00102927	0.01170033 up
PRXL2C	1.2954	0.00102913	0.01170033 up
PYGB	-1.3223	0.00104315	0.01184168 down
C5orf63	-1.0863	0.00104474	0.01185082 down
SRP14-AS1	-1.1774	0.00104492	0.01185082 down
PLEKHG1	1.1982	0.00104614	0.01185367 up
EMP1	2.4820	0.00104567	0.01185367 up
LINC02177	-4.0887	0.00105899	0.01197157 down
OCEL1	-1.0726	0.00106664	0.01204144 down
TNFRSF10A	1.3709	0.00107546	0.01213537 up
BASP1	1.5504	0.00109724	0.01235275 up

LOC106660606	-1.8835	0.00109788	0.01235434 down
FAM20A	2.5645	0.00110246	0.01239443 up
RAB27B	-2.3281	0.00110707	0.01244054 down
PITPNC1	1.3053	0.00110777	0.01244277 up
QPRT	-1.7181	0.00110874	0.01244797 down
ABCD1	-1.3089	0.00110933	0.01244887 down
EPGN	4.2592	0.00111615	0.01249767 up
THY1	1.8436	0.00111486	0.01249767 up
LRRC75A	-3.0577	0.00111889	0.01251604 down
PXDC1	1.1190	0.00112105	0.01253452 up
LOC107987457	1.3616	0.00112369	0.01255254 up
USP36	1.0513	0.00112884	0.01259291 up
HSPD1	2.0769	0.00114546	0.01273775 up
LINC00654	-1.2452	0.0011569	0.01283587 down
FBP1	-2.9776	0.00116008	0.0128653 down
CXXC4-AS1	-2.5046	0.0011647	0.01290489 down
SEC1P	-2.3384	0.00116596	0.01291297 down
HIF1A-AS3	2.7098	0.00117123	0.01296548 up
SLC16A3	1.6686	0.0011719	0.01296709 up
CGAS	2.0298	0.00118506	0.01309006 up
ADAM1B	-2.2787	0.00118515	0.01309006 down
SH2B3	1.4471	0.00119064	0.01314475 up
SLC51A	-3.0243	0.00119493	0.01318025 down
SMIM38	-2.8821	0.00119654	0.01319204 down
RPLP0P2	1.0749	0.00119752	0.01319695 up
CREB5	1.5347	0.00119931	0.01321069 up
SOX7	1.9255	0.00121299	0.01334347 up
OSBPL7	-1.8695	0.00121371	0.01334347 down
SRM	1.2806	0.00121767	0.01336903 up
ANO7	-3.0076	0.00122072	0.01336903 down
SNORA33	1.5297	0.00121834	0.01336903 up
KBTBD11	-1.8958	0.00121983	0.01336903 down
CYP2C19	-5.1344	0.00121979	0.01336903 down
KCTD10	1.1831	0.00122053	0.01336903 up
PTN	-2.2530	0.00122744	0.0134205 down
LINC00294	-1.1867	0.00122702	0.0134205 down
ART5	-2.3151	0.00123714	0.01350012 down
ALDH5A1	-1.6009	0.00124494	0.01357315 down
SMIM24	-4.3925	0.00125062	0.01361691 down
RPL28P2	-3.4242	0.001258	0.01366687 down
PTGDS	-2.2326	0.00126016	0.01368425 down

NOXA1	-1.9138	0.00126853	0.01376303 down
EEF1AKMT4	1.5848	0.00127632	0.01381886 up
LINC00893	-1.3168	0.0012765	0.01381886 down
LINC00479	-4.1702	0.00128305	0.01385309 down
FAM157A	1.8607	0.00129353	0.01396007 up
BTNL3	-4.5074	0.00130403	0.01403851 down
LINC00173	-1.5238	0.00130327	0.01403851 down
SNORA31	1.9583	0.00130353	0.01403851 up
SKIDA1	-2.1027	0.0013078	0.01407073 down
CAMSAP2	1.1852	0.0013098	0.01408614 up
NEURL3	-3.0771	0.00131225	0.01410628 down
TMEM220-AS1	-2.1096	0.00131851	0.01416109 down
NPY6R	-4.1241	0.00131951	0.01416236 down
SERTAD2	1.0002	0.00132074	0.01416645 up
OPCML	-2.1371	0.0013306	0.01425973 down
FAM47E	-2.1533	0.00133954	0.01432575 down
RANGAP1	1.2103	0.00133968	0.01432575 up
LINC01625	-3.5642	0.00134156	0.01433407 down
RASGRP4	1.9183	0.00134163	0.01433407 up
C22orf34	1.4013	0.0013434	0.01434674 up
ARSJ	1.6867	0.00134996	0.01440428 up
LOC339874	-2.5110	0.00135281	0.01442208 down
LOC729558	-4.5167	0.0013528	0.01442208 down
SEPSECS	-1.4147	0.00135422	0.01443087 down
SATB2-AS1	-2.7758	0.00135669	0.01445094 down
PRDM1	1.5915	0.00136155	0.01449642 up
RAB17	-3.6779	0.00136374	0.01451336 down
FLVCR1	-2.2326	0.00138082	0.01466977 down
HGF	1.6564	0.00138198	0.01467571 up
RAB32	1.1540	0.00139094	0.01476447 up
CBX8	1.4156	0.00139156	0.01476465 up
SDR42E1	-2.2021	0.0013924	0.0147672 down
HAPLN2	-3.0048	0.00139878	0.01482034 down
TMSB4XP4	1.1547	0.00139826	0.01482034 up
FOSB	2.7989	0.00139923	0.01482034 up
LOC101929532	2.4029	0.00140054	0.01482781 up
ENTPD8	-4.5106	0.00140247	0.01483501 down
CAPS	-1.1299	0.0014045	0.01484408 down
KLHDC7A	-3.1454	0.00140764	0.01487093 down
FGF9	-2.2477	0.00141152	0.0149055 down
ZNF396	-1.0418	0.00141459	0.01493143 down

MDM1	-1.1325	0.00141814	0.01496253 down
CALU	1.5498	0.00142178	0.01499444 up
POLR1G	1.5338	0.0014275	0.01504181 up
PTK7	1.2822	0.00143244	0.01508088 up
SH2D5	5.2459	0.00143396	0.01508398 up
MPO	2.4312	0.00143727	0.0151123 up
H1-2	1.3972	0.00143832	0.01511687 up
MPST	-1.8465	0.00144807	0.0152063 down
ZNF821	-1.3196	0.00144939	0.01521367 down
IFITM3	1.5107	0.00145792	0.0152901 up
FREM2	-3.2199	0.00145943	0.01529937 down
ALG1L9P	-1.2794	0.00147046	0.0153952 down
LOC101928940	3.1240	0.00147698	0.0154569 up
LRRC28	-1.2806	0.00148098	0.01549212 down
CACFD1	-1.3904	0.00148774	0.01554297 down
GPR42	3.0962	0.00149465	0.01560191 up
CYP2C18	-5.3896	0.00149735	0.01562017 down
PDIA4	1.3969	0.00149983	0.01563601 up
MAP4K4	1.0594	0.00150484	0.01568153 up
PHETA1	-1.8360	0.00150653	0.01569247 down
MISP3	-2.2769	0.00150912	0.01569944 down
STING1	1.2003	0.00154542	0.0160256 up
MSANTD3	1.6200	0.00154942	0.01605744 up
CIB2	-1.5293	0.0015684	0.01621294 down
LOC100506725	-2.1754	0.00156923	0.01621474 down
MIR3682	1.9102	0.00157744	0.01626723 up
ACSM1	-2.0029	0.00157763	0.01626723 down
SLC1A1	-2.6550	0.00157865	0.01627091 down
ELOC	1.1467	0.00158144	0.01629281 up
FAM43A	1.5972	0.00158278	0.01629294 up
CLYBL	-1.4372	0.00158227	0.01629294 down
GK5	-1.1053	0.00158815	0.01631185 down
GDPD3	-1.3512	0.00158861	0.01631185 down
HSP90AA6P	2.6446	0.0015923	0.0163429 up
PRAP1	-4.1581	0.00159471	0.01635392 down
LOC101930370	-1.1669	0.00159929	0.01639402 down
ANGPTL7	-2.6912	0.00160716	0.01644728 down
FAM229A	-1.0877	0.00161267	0.01648986 down
TGFBR3L	-2.8900	0.00162044	0.01655547 down
ZNF491	-1.1533	0.00162167	0.01656114 down
AATK	-1.5521	0.00163844	0.0166976 down

SYT2	-1.0654	0.00164174	0.01671734 down
ITGBL1	2.5226	0.00164347	0.01672804 up
ANKRD23	-1.3396	0.00165008	0.01676283 down
GALNT18	1.8450	0.00164979	0.01676283 up
BEST4	-3.1092	0.00165374	0.01679073 down
KCTD21-AS1	-1.4173	0.00165567	0.01680343 down
ABCC2	-2.7165	0.00165712	0.01680687 down
EIF4A1P4	1.0881	0.00165784	0.01680687 up
COLGALT1	1.2178	0.00166388	0.01684489 up
CHST1	1.6844	0.00166636	0.01685612 up
RNF175	1.5417	0.0016676	0.01686172 up
CAPN10-DT	-1.3228	0.00166977	0.01687663 down
HERC6	-1.5434	0.00167319	0.01690428 down
CDC42EP1	1.0561	0.00168668	0.01697754 up
ERN1	1.2102	0.00169109	0.01700797 up
BGN	2.1604	0.00169594	0.01704482 up
SOWAHA	-4.3106	0.00170042	0.0170808 down
RIN1	1.6222	0.00171007	0.01715663 up
LONRF3	1.0582	0.00171418	0.01718197 up
CYP2C9	-4.5365	0.00171469	0.01718197 down
ELK3	1.3327	0.00171418	0.01718197 up
ZSCAN26	-1.0537	0.00171807	0.01720081 down
SLC47A2	-2.5386	0.00171877	0.01720081 down
SYT7	-1.1807	0.00172075	0.01720747 down
PROC	-2.7618	0.00172179	0.01721091 down
KRT80	4.4228	0.00172753	0.01725418 up
LOC101929657	-2.2611	0.00173378	0.01730957 down
ATP6V0C	1.3679	0.00173656	0.01733028 up
LINC01426	2.6373	0.0017396	0.01734413 up
SCAMP5	-2.1762	0.00174868	0.0174087 down
RILP	-1.3638	0.00175729	0.01748023 down
POM121L9P	1.8979	0.00176318	0.01752459 up
RPS4XP7	-2.7303	0.00177078	0.01759299 down
DNAJB11	1.0297	0.00178236	0.01769371 up
IGSF23	-3.8808	0.00178702	0.01772558 down
ATOH1	-5.1561	0.00178901	0.01773819 down
PTGR2	-1.3392	0.00179126	0.0177461 down
GRAMD1C	-3.0982	0.00180326	0.01782896 down
ERO1A	1.7868	0.00180547	0.01784366 up
ZNF763	-1.5903	0.00181439	0.01791739 down
ANGPTL4	2.2918	0.00181715	0.01793534 up

TAF1A-AS1	-1.5935	0.0018192	0.01794317 down
LOC100133286	-3.6056	0.00182161	0.01794532 down
SIRPB2	2.7023	0.00182301	0.0179519 up
LOC100507156	1.8175	0.00182504	0.01796383 up
DNAJC3-DT	-1.0419	0.00183441	0.01804245 down
DAND5	-3.0438	0.00183524	0.01804333 down
SFI1	-1.5370	0.00184623	0.01812233 down
LINC00937	2.6017	0.0018502	0.01814413 up
CYP1B1	2.6366	0.00185577	0.01817958 up
ACO2	-1.2090	0.00186611	0.01827359 down
SYTL2	-1.4213	0.00187956	0.01838327 down
MIDN	1.3244	0.00189027	0.01847331 up
FXYD3	-4.2742	0.00189412	0.01850355 down
ENTPD2	-2.6346	0.0018977	0.01851411 down
B3GALT5	-4.1393	0.00189685	0.01851411 down
ASRGL1	1.4446	0.00190614	0.01856912 up
LOC100506497	-1.9898	0.00190892	0.0185815 down
SHROOM4	1.8060	0.00190891	0.0185815 up
NT5DC1	-1.0877	0.00191524	0.01863562 down
DELEC1	2.8516	0.00192274	0.01869269 up
SLC25A45	-1.7014	0.0019234	0.01869269 down
CSF2RA	1.4001	0.00192907	0.01873376 up
CYP19A1	2.2915	0.00192932	0.01873376 up
NAALAD2	-1.2974	0.00193158	0.0187425 down
DCLRE1B	1.3053	0.0019347	0.01876533 up
HAGLR	-1.8059	0.00195086	0.01889971 down
MYL9	-2.5119	0.0019554	0.01893619 down
RN7SL600P	1.9502	0.0019574	0.01894807 up
RAI14	1.8862	0.001974	0.01907859 up
VWC2	-3.4394	0.00197557	0.01907879 down
ASB13	-1.4077	0.00197488	0.01907879 down
SEMA6D	-1.9531	0.00197719	0.01908691 down
KCNE4	2.6479	0.00199626	0.01921798 up
CD8B	-2.2367	0.00199808	0.01922803 down
CYP4F3	-3.2187	0.00200026	0.01923245 down
PRLR	-2.8574	0.00200331	0.01924058 down
IFITM10	1.6883	0.00201178	0.01928413 up
ACSF2	-2.0177	0.00201648	0.01931408 down
GPT	-2.6308	0.00203352	0.01943933 down
ZNF767P	-1.1244	0.00203557	0.01945132 down
EPHA2	2.3058	0.00203656	0.01945321 up

LOC100240735	-2.1279	0.00204488	0.01951754 down
SEC14L6	-1.8040	0.00204903	0.01954186 down
NCKAP5	-2.1952	0.00206146	0.01965281 down
TMEM98	-1.7917	0.00206238	0.01965391 down
PNMA3	-1.3623	0.00206712	0.0196838 down
CLIC6	1.6056	0.00207327	0.019727 up
NLRC4	2.1690	0.00208689	0.0198335 up
TMEM35A	-2.9641	0.00208641	0.0198335 down
TIAM2	-1.4322	0.00209034	0.01985865 down
GATM	-2.1336	0.00209267	0.01987311 down
RPS17	1.1050	0.00209369	0.01987505 up
ERVMER34-1	2.0923	0.0020972	0.01990072 up
FCER1G	2.3693	0.00211141	0.01998911 up
DOCK4	1.1923	0.00211116	0.01998911 up
SEC14L1	1.1769	0.00211106	0.01998911 up
FAM3D-AS1	-3.2393	0.00211433	0.01999971 down
SLC2A12	-2.3606	0.00211498	0.01999971 down
MIR145	-3.1719	0.00211779	0.02001528 down
NKX3-2	-2.3540	0.00212218	0.02004459 down
HLA-DRA	-1.7072	0.00212974	0.02009285 down
SLC10A5	-2.1170	0.00214117	0.02019287 down
CLEC1B	3.4266	0.0021446	0.0202175 up
GDF15	2.4101	0.00215121	0.02026417 up
LOXL2	1.6088	0.00216112	0.02033412 up
ZNF664	-1.0477	0.00216101	0.02033412 down
PECR	-1.6410	0.00216355	0.02033578 down
TACSTD2	1.8587	0.00217057	0.0203666 up
SLA	1.8298	0.0021722	0.0203666 up
CPNE8	1.1396	0.0021713	0.0203666 up
CHRNE	1.8541	0.00217487	0.02037749 up
LAMC3	1.6028	0.0021817	0.02043365 up
CD1E	-3.1400	0.0021891	0.02048728 down
CYP21A1P	1.3782	0.00218871	0.02048728 up
C1QTNF12	-2.4622	0.00219042	0.02049185 down
THEMIS2	1.9284	0.00219199	0.02049465 up
SAT2	-1.3121	0.00219768	0.02052056 down
HNF4G	-4.3572	0.00220354	0.02056746 down
PVT1	1.4511	0.00220853	0.02059055 up
PLCB4	-1.0258	0.00221337	0.02062786 down
ALDOB	-4.9252	0.002216	0.02064448 down
FRK	-2.6092	0.00221885	0.02064988 down

FOXH1	-3.3546	0.00223174	0.02074162 down
EXOC3L4	-2.8669	0.0022387	0.02078494 down
TUBA1B	1.1700	0.00224704	0.02085441 up
LINC01138	-1.1752	0.00224797	0.02085519 down
NKRF	1.5583	0.00226458	0.02096958 up
LOC102724064	-2.7623	0.00227708	0.02107738 down
MIR186	-1.4086	0.00228427	0.02112002 down
DRP2	-3.2836	0.00228525	0.02112112 down
ACOT11	-2.4829	0.0022884	0.02112245 down
GSDME	-1.7849	0.00228761	0.02112245 down
RPL23AP66	-2.5232	0.00228777	0.02112245 down
MDK	-1.6698	0.00229163	0.0211255 down
DLC1	1.6749	0.00229424	0.02113738 up
NAAA	-2.1281	0.00230218	0.02119538 down
LOC644135	2.4828	0.00231211	0.0212413 up
MAT1A	3.3802	0.00231802	0.0212876 up
CROCCP3	-1.1841	0.00232898	0.02134235 down
XKRX	-3.1323	0.00233104	0.02134321 down
TPM1	-2.5500	0.00233064	0.02134321 down
LRRC32	1.9812	0.00233997	0.02140098 up
KLK14	2.7340	0.00233962	0.02140098 up
ZNF784	-1.0572	0.00235002	0.02146086 down
ABCD3	-1.1506	0.00235422	0.02147074 down
HSD17B11	-1.7877	0.00235446	0.02147074 down
SELENOP	-2.6450	0.0023546	0.02147074 down
SLC25A5-AS1	-1.1242	0.00236128	0.02150312 down
RPL10P3	1.3002	0.00236039	0.02150312 up
IL15RA	1.0922	0.00236166	0.02150312 up
RNF208	-1.0582	0.00236587	0.02153347 down
PPP3CB-AS1	-1.0880	0.00237121	0.02156608 down
SALL2	-2.4854	0.00238007	0.02163062 down
MIA2	-1.9403	0.00240365	0.02182866 down
PIK3R5	1.9193	0.00240547	0.02183717 up
SLC38A5	1.5720	0.00241507	0.02189959 up
MTMR11	-2.3909	0.00241747	0.02190557 down
PKD1L2	-2.3030	0.00242142	0.02193326 down
ZZEF1	-1.4175	0.00242392	0.02193967 down
UGT1A10	-4.8814	0.00242799	0.02196842 down
PPP1R16A	-1.7008	0.00242939	0.02197294 down
ACTRT3	2.4849	0.00244779	0.02209787 up
TMEM106C	-1.5052	0.00244916	0.02209787 down

CILP2	1.9352	0.00245036	0.02209787 up
STIP1	1.1818	0.00246867	0.02223799 up
NKX3-1	1.9555	0.00247268	0.0222659 up
TYMP	1.5243	0.0024759	0.02228672 up
BDH2	-1.4234	0.00247871	0.02230383 down
CAPN6	-2.1783	0.00248527	0.02234648 down
LILRA6	2.7811	0.0024869	0.02235296 up
RASGRF1	-1.9090	0.00249278	0.02238938 down
KRT23	1.8809	0.00250207	0.02244814 up
LOC100507283	-1.0774	0.00250549	0.02246242 down
RHOXF1	-3.1925	0.00252681	0.02261215 down
GPC1	1.4876	0.00253572	0.02265058 up
TCTEX1D1	1.6607	0.00254799	0.02272706 up
B4GALT4	-1.4150	0.00255336	0.02276665 down
AKAP1	-1.1712	0.00256229	0.02283803 down
EFCAB5	-2.2367	0.00256929	0.02289208 down
LXN	1.4424	0.00259391	0.02305123 up
SAT1	1.2584	0.00259336	0.02305123 up
FCGR3A	3.0171	0.00260672	0.02313311 up
BEND5	-1.7345	0.00262068	0.02324023 down
TMEM116	-1.3670	0.0026235	0.02325675 down
RPL19P6	-1.3502	0.00262843	0.02329207 down
ZBED5-AS1	-1.4461	0.00263474	0.02332265 down
NR1H4	-4.5762	0.00263391	0.02332265 down
GALNT2	1.2888	0.0026535	0.02346332 up
UBA7	-1.1642	0.00266244	0.02352539 down
CRYL1	-1.8499	0.00266834	0.02356905 down
CCDC17	-1.1696	0.00267264	0.02358771 down
STAG3L5P	-1.0723	0.00267199	0.02358771 down
NOS3	1.9798	0.00268481	0.02363793 up
ENPP7P11	-3.4848	0.0026982	0.02373025 down
CD74	-1.5610	0.00270669	0.02378619 down
SDHAP2	-1.1202	0.00270999	0.02379127 down
GDA	-4.5256	0.00271526	0.02382044 down
LINC01668	-2.1433	0.00272101	0.02385387 down
LEAP2	-2.9754	0.00273639	0.02398011 down
GPR82	-2.7541	0.00273951	0.02399887 down
PLIN2	1.6030	0.00274184	0.0240021 up
FNDC3B	1.1788	0.00275042	0.02406863 up
CXXC4	-2.1334	0.00275751	0.02411348 down
ENDOU	2.3003	0.00275747	0.02411348 up

CYP27B1	1.9806	0.00276147	0.02413091 up
SUSD2	-2.4731	0.00276488	0.02414344 down
MYH11	-3.3208	0.0027665	0.02414431 down
LINC01940	3.0239	0.0027681	0.02414583 up
ZNF385D-AS1	2.2731	0.00277443	0.02419237 up
SNORA73B	2.1100	0.00278454	0.02427191 up
DUSP19	-1.3228	0.00278653	0.02427202 down
TUBAP14	3.3050	0.00278639	0.02427202 up
UGT2B7	-4.7343	0.00279009	0.02429435 down
C11orf80	-1.7377	0.00279867	0.02435181 down
ARSG	1.0783	0.00280344	0.02436735 up
MROH3P	-4.2787	0.00280727	0.02437473 down
MAP10	-1.0607	0.002811	0.02438295 down
TNFAIP2	2.1873	0.0028112	0.02438295 up
APOLD1	2.0550	0.00281723	0.02441798 up
TNN	-2.6801	0.00282868	0.02449839 down
NELL2	-2.5666	0.0028295	0.02449839 down
LOC441204	-1.7162	0.00284359	0.02458561 down
STAR	2.1681	0.00284821	0.02460821 up
SNORD46	1.7941	0.00285019	0.02461558 up
ANPEP	-3.4168	0.00286	0.02466659 down
KLHL32	-2.5691	0.00286692	0.02470028 down
PEPD	-1.5905	0.00288872	0.02484441 down
ADM	2.1654	0.0028907	0.0248527 up
SERPINA3	2.7241	0.00289536	0.02488406 up
CKB	-2.4790	0.00289751	0.02489385 down
A3GALT2	2.7869	0.00290384	0.02493069 up
KBTBD11-OT1	-4.0437	0.00290891	0.02494803 down
FAHD2A	-1.0092	0.00291274	0.02496087 down
ELL3	-2.7032	0.00291653	0.02497845 down
SLC9A3R1	-2.5167	0.00297794	0.02542449 down
ALB	-1.6420	0.00298219	0.02545193 down
MAFTRR	-2.1111	0.00298335	0.02545294 down
CELP	-4.4299	0.00298965	0.02548843 down
CYP2D7	-1.7360	0.00299117	0.02548843 down
PBX1	-1.3943	0.00299324	0.025493 down
GALM	-1.4778	0.00299771	0.0255133 down
RPS2P28	3.2593	0.00299694	0.0255133 up
EDN3	-3.5902	0.00300803	0.02557453 down
CTRB1	2.5762	0.00301259	0.02560441 up
TFRC	1.2864	0.00302017	0.02563927 up

TRIM2	-1.2498	0.00302017	0.02563927 down
BCKDHB	-1.1838	0.00302577	0.02566306 down
STK33	-2.3104	0.00302566	0.02566306 down
ANKRD9	-1.4300	0.0030309	0.02568877 down
TMEM92-AS1	-2.8200	0.00303005	0.02568877 down
FLVCR1-DT	-1.6743	0.00304761	0.02581261 down
BAZ1A	1.0229	0.00305564	0.02586269 up
MYBPC1	-2.7974	0.00305877	0.02588032 down
AMT	-1.8521	0.00306123	0.02589219 down
CYP3A4	-5.4948	0.00306393	0.02589717 down
SPEF2	-1.0093	0.00307023	0.02594146 down
ZNF33B	-1.4361	0.00307654	0.02598581 down
VAMP1	-1.2081	0.0030789	0.02598784 down
OLIG1	2.7611	0.00308384	0.02600267 up
DCST2	-1.7140	0.00309099	0.02604503 down
TREML2	1.9605	0.00310649	0.02615763 up
HADH	-1.3471	0.00311273	0.02620124 down
KIF19	1.2638	0.00311406	0.0262034 up
DCST1	-2.0385	0.0031197	0.02623285 down
DUSP2	1.7509	0.00311875	0.02623285 up
TUBB1	1.5944	0.00312145	0.02623856 up
ESRRG	-2.0371	0.00312354	0.02624119 down
ALDH2	-1.5016	0.00312513	0.02624119 down
ANG	-1.2426	0.00312604	0.02624119 down
GSDMA	3.4337	0.00312464	0.02624119 up
TAMALIN	1.3961	0.00313061	0.02627054 up
OXER1	-2.2287	0.0031506	0.02641117 down
EIF4A1P6	2.5542	0.00316169	0.02648464 up
CLIC5	-2.3239	0.00317135	0.02654262 down
SLC16A11	-1.2519	0.00317482	0.02655274 down
FER1L4	2.5615	0.00317615	0.02655274 up
PRR5L	-1.6559	0.00319961	0.02672157 down
ZNF594	-1.2661	0.00320882	0.02676196 down
FST	1.9957	0.00321611	0.0268137 up
EDNRA	1.3286	0.00322799	0.02687709 up
DCAF11	-1.2971	0.0032292	0.02687709 down
ANKRD63	-3.3564	0.00322815	0.02687709 down
AGMO	-3.2019	0.00323871	0.02692888 down
BATF	1.6696	0.00324197	0.02694684 up
ZNF704	-1.1962	0.00324339	0.0269495 down
SQLE	1.3895	0.00325723	0.02703696 up

PSD	-3.3727	0.0032594	0.02704589 down
SIGLEC6	-1.9579	0.00327079	0.02713118 down
SLC2A14	2.2847	0.00327388	0.02714766 up
CMA1	-3.0485	0.00328019	0.02718155 down
LOC107984265	-2.0557	0.00328788	0.02721766 down
TSPAN12	-1.8077	0.00329866	0.02728851 down
RN7SL473P	2.1012	0.00330946	0.02735018 up
REEP6	-3.2568	0.00331247	0.02735661 down
FSCN1	1.4028	0.00333566	0.0275018 up
CALR	1.0682	0.00333933	0.0275228 up
WDR87BP	-3.4029	0.00334437	0.02754586 down
MYH7	-3.2012	0.00336222	0.0276767 down
PART1	-3.8345	0.00337348	0.02773783 down
PODXL	1.3475	0.00337447	0.02773783 up
LOC105377663	1.6695	0.00338267	0.02779593 up
BEND7	-1.3814	0.00338418	0.02779906 down
IYD	-4.7812	0.00338902	0.02782018 down
NLRC3	-1.5641	0.00338859	0.02782018 down
ITM2C	-1.4559	0.00340158	0.02788589 down
PPARGC1B	-1.2584	0.0033996	0.02788589 down
CHAC1	3.0027	0.00340079	0.02788589 up
FAM186A	-1.4356	0.00340705	0.02792141 down
SLC22A23	-1.2418	0.00341533	0.02797057 down
TMEM19	-1.1906	0.00343166	0.02807618 down
FGR	2.1941	0.00343307	0.02807831 up
CHRFAM7A	-3.6347	0.0034409	0.02812359 down
DUSP5	1.7606	0.00344759	0.02814075 up
GPR12	-2.3301	0.00345357	0.02816871 down
EGR2	1.6022	0.00346347	0.02822345 up
ELFN1	1.7880	0.00346625	0.02823665 up
LINC00487	-2.4993	0.00346812	0.02824255 down
LOC100128059	3.1988	0.00347173	0.02824433 up
PTGR1	-1.7939	0.00347178	0.02824433 down
STYK1	-2.8579	0.00347908	0.02829424 down
ZNF214	-1.2211	0.00348796	0.02834765 down
AVIL	1.0448	0.00349409	0.02838804 up
TNNT1	2.8719	0.00351111	0.02850743 up
MSRA	-1.3300	0.00352012	0.02856169 down
SCP2	-1.1313	0.00352447	0.02857819 down
FOXD1	-2.4368	0.00352565	0.02857819 down
FCGBP	-3.1496	0.00354652	0.0286925 down

LRRC25	2.4214	0.00354908	0.0286925 up
PSMD12P1	1.1912	0.00355756	0.02872285 up
EXOSC4	1.0061	0.00356014	0.02873425 up
DEPDC7	-2.6106	0.00356852	0.02877346 down
STRIP2	2.9020	0.00358563	0.02889239 up
LINC01529	-1.7926	0.00359855	0.02896769 down
RPS26P23	3.2438	0.00360766	0.02899373 up
SLC20A1	1.2030	0.00361883	0.02907393 up
LINC01134	-2.3818	0.00362852	0.02911528 down
SNORD51	3.0517	0.00362978	0.02911528 up
XK	-2.5455	0.00362728	0.02911528 down
CTNNA3	-3.5380	0.00363089	0.02911528 down
PACRG	-2.5945	0.00363514	0.02912865 down
MYO1A	-4.3306	0.00363422	0.02912865 down
NAIP	1.8536	0.00365792	0.02929202 up
RPL7P6	2.2978	0.0036834	0.02945946 up
CCL18	2.7801	0.00369561	0.02951675 up
FABP3	1.4732	0.00371434	0.02964699 up
ANKRD29	-1.3512	0.00373072	0.0297584 down
LINC01798	-1.8983	0.00374921	0.02988028 down
CDK17	1.0528	0.00375464	0.02991026 up
PTP4A3	1.6997	0.00375783	0.02992591 up
RPL36A	1.5649	0.00376509	0.02995462 up
C13orf46	2.3536	0.00376428	0.02995462 up
XCL2	-2.1274	0.00377209	0.02997138 down
HSP90AB3P	1.2021	0.00377156	0.02997138 up
HDAC9	-1.1953	0.00377033	0.02997138 down
SECTM1	-1.9243	0.00377123	0.02997138 down
FLJ22447	2.3174	0.00377586	0.02998189 up
GCHFR	-2.1656	0.00378755	0.03005523 down
ESPN	-3.4325	0.00379482	0.03009343 down
SPOCD1	2.5929	0.00379707	0.03010158 up
TDRD5	-1.8094	0.00380884	0.03015587 down
PDXP	-1.5497	0.00381777	0.03020705 down
BCO1	-3.7142	0.0038269	0.03026958 down
FCGR1A	3.2912	0.00384035	0.03033183 up
TSPOAP1-AS1	-1.5205	0.00384096	0.03033183 down
LOC100996419	-1.3213	0.00384909	0.03038624 down
NEURL1	-2.3091	0.00385637	0.03043202 down
CSRNP3	-1.5931	0.00386639	0.03045416 down
ANK3	-1.7785	0.00386349	0.03045416 down

ZNF460-AS1	-1.2246	0.00386285	0.03045416 down
C19orf73	-1.6173	0.00386557	0.03045416 down
NRGN	1.5988	0.00386857	0.03046156 up
HOXC6	-1.7623	0.00390337	0.03067647 down
ATP8A1	-1.6956	0.00392349	0.03077796 down
IL3RA	1.1948	0.00392248	0.03077796 up
CRYZ	-1.0769	0.00394071	0.03084912 down
UGDH	1.1755	0.00394314	0.03085063 up
EXOC3L2	1.6087	0.0039686	0.03103991 up
IGHV4-61	3.4448	0.00397771	0.03110124 up
TESC	1.8802	0.00398075	0.03111137 up
DNAH3	-1.6226	0.00398155	0.03111137 down
PON3	-1.7939	0.00399955	0.03121224 down
CFAP161	2.2392	0.00400084	0.0312124 up
LGALS9C	-3.1231	0.00400812	0.03124934 down
ACTG1P14	1.3043	0.00401307	0.03126805 up
MMP15	-1.5431	0.00403045	0.03137357 down
LATS2	1.3691	0.00404138	0.03143869 up
HOXB3	-1.1691	0.00404434	0.03145169 down
AVPR1B	-2.7805	0.00405072	0.03148134 down
DECR2	-1.2326	0.00407574	0.03164398 down
EPS8L2	-2.7551	0.00408203	0.03165697 down
CMPK2	-1.5616	0.00408504	0.03166775 down
CCL13	3.0777	0.00409595	0.03170225 up
UAP1	1.1632	0.00410366	0.03173183 up
CTSB	2.3714	0.00410731	0.0317401 up
TNFSF14	2.6153	0.00413459	0.03191069 up
APOBEC2	-2.2813	0.00413655	0.03191576 down
ATP1A2	-2.5239	0.00414735	0.03196885 down
LINC00921	-1.2681	0.00415167	0.03199216 down
MPND	-1.0646	0.00416756	0.03207422 down
RANBP3L	-2.2204	0.00416941	0.03207839 down
SPATC1	1.7521	0.00417715	0.03212481 up
KLKB1	-2.3339	0.00419955	0.03225942 down
MYO1B	1.3360	0.00421266	0.032324 up
CASP6	-1.3519	0.00421319	0.032324 down
INSYN2B	2.5711	0.00421595	0.03233507 up
BCO2	-1.1930	0.00422313	0.03237997 down
DUSP14	1.8849	0.00423452	0.03243688 up
FGFR3	-2.9725	0.00423679	0.03244416 down
AMN	-4.1436	0.00424629	0.03249659 down

CCR1	2.5163	0.00425387	0.03253428 up
DICER1-AS1	-1.1003	0.00426599	0.03261683 down
RPL15P18	1.4369	0.00427053	0.03264136 up
GJA4	2.0352	0.00427351	0.03265391 up
TUBAL3	-4.2838	0.00427918	0.0326769 down
FOS	1.1064	0.0042841	0.03270424 up
IL17RE	-2.1614	0.00429393	0.03273856 down
ACY1	-2.1802	0.00429915	0.03275956 down
GPLD1	-2.1329	0.00431878	0.03286708 down
ITIH2	-1.5242	0.00431883	0.03286708 down
CTRB2	3.1733	0.00431737	0.03286708 up
CCDC121	-1.2002	0.0043296	0.03291839 down
SOX15	-1.6187	0.00433146	0.03292229 down
LOC100506098	-3.4618	0.00434191	0.03299151 down
RHCG	2.9122	0.00434585	0.03301123 up
KLHL34	-3.6544	0.00436351	0.03309413 down
MYO15B	-1.7644	0.00436798	0.03310925 down
CEACAM3	2.4229	0.00437609	0.03313829 up
GLULP4	1.7213	0.00437913	0.03315103 up
GDPD1	-1.4854	0.00438906	0.03321594 down
NPC1	1.0409	0.00440087	0.033254 up
CAP2	-2.2527	0.00440535	0.03327761 down
LINC00933	-2.2394	0.00442054	0.03337179 down
B3GALT2	-2.2207	0.00442526	0.03338688 down
LINC01198	2.2268	0.0044305	0.03339557 up
CTSG	-2.1647	0.00442893	0.03339557 down
ATE1-AS1	-2.1522	0.00445249	0.03354069 down
THSD4	-2.0061	0.00446626	0.03359716 down
LOC105373100	2.1493	0.00447074	0.03360593 up
LOC101927124	-1.4775	0.00448138	0.03367396 down
HPN-AS1	2.5044	0.00448254	0.03367396 up
PHOSPHO2	-1.0908	0.00448499	0.03368122 down
MIR4257	1.7117	0.00449068	0.03370415 up
RPL13AP20	1.4752	0.00449568	0.03372103 up
TUBB2A	1.0585	0.00450503	0.03377049 up
CEP170P1	1.1051	0.00451938	0.03383673 up
PLD1	-1.3860	0.00451868	0.03383673 down
ZNF483	-1.6428	0.00451923	0.03383673 down
TMPRSS15	-4.3347	0.00452811	0.0338917 down
NDUFA4L2	2.0204	0.00453607	0.03394094 up
LOC100132857	1.5065	0.00457242	0.03417121 up

BRINP3	-3.4493	0.00458729	0.03426145 down
CEACAM22P	-2.5113	0.0045869	0.03426145 down
MOGAT2	-4.4173	0.00459692	0.03430202 down
RPS16P1	1.2545	0.00460345	0.03434034 up
LINC00942	3.0115	0.00463398	0.03450506 up
KLRC1	-2.0284	0.00464736	0.0345732 down
SLC35G1	-1.8183	0.00465372	0.03457858 down
STRCP1	-2.3841	0.00465768	0.0345975 down
CATIP	2.2946	0.00467248	0.03468641 up
RNU6-415P	2.2137	0.00470084	0.03486527 up
WDR54	1.2046	0.00472282	0.03500149 up
FLJ12825	-2.6539	0.00472349	0.03500149 down
FADS6	-4.5708	0.00472717	0.03501816 down
MCRIP2	-1.2759	0.0047329	0.03504425 down
HLA-DRB6	-1.4338	0.00473811	0.03506746 down
ACAA1	-1.2264	0.00476531	0.03521558 down
FLJ46284	-1.4015	0.00476929	0.0352344 down
LINC01133	-2.8845	0.00480015	0.03537012 down
ST6GAL2	-2.5567	0.0047942	0.03537012 down
SLC3A2	1.1003	0.00480064	0.03537012 up
SPHK2	-1.0854	0.00479582	0.03537012 down
CSNK1E	1.1939	0.00479786	0.03537012 up
EVA1C	1.2386	0.0047971	0.03537012 up
CATSPER2	-1.3106	0.00482362	0.03548606 down
LOC105373334	-1.7047	0.00484026	0.03555514 down
TMEM120A	-1.3590	0.00484234	0.03555982 down
FAM219A	1.0310	0.00484818	0.03557069 up
STX19	-2.9257	0.00485483	0.03560884 down
MFSD3	-1.0541	0.00487553	0.03569608 down
BMS1P1	-1.5333	0.00487691	0.03569608 down
LINC00857	-1.2175	0.00487907	0.03570122 down
PGAP3	-1.1870	0.00488372	0.03572456 down
BACE2	1.4290	0.00488529	0.03572539 up
TAS2R4	-1.4603	0.00489994	0.03578984 down
SOCS2	1.1925	0.00489869	0.03578984 up
SI	-5.1595	0.00490788	0.03583718 down
VMP1	1.2157	0.00491532	0.0358808 up
CD63	1.0998	0.00491833	0.03589208 up
STOX1	-1.5741	0.00493324	0.03595812 down
FAM166B	-1.3456	0.00494234	0.03601374 down
PYCR1	1.7049	0.00494733	0.03603939 up

MFSD4B	-1.2570	0.00494882	0.03603949 down
TLR8	2.5174	0.00495231	0.03605421 up
GCATP1	1.7817	0.00495658	0.0360746 up
ZNF273	-1.4935	0.00496743	0.03614282 down
LOC100507516	-2.0949	0.00497271	0.03614544 down
LINC01224	-4.0473	0.0049703	0.03614544 down
ASB2	-2.6995	0.00498809	0.03621792 down
LYPD3	1.5854	0.00499179	0.03622336 up
MEX3A	1.2184	0.00499348	0.03622486 up
ZNF223	-1.1802	0.00500507	0.0362769 down
LINC01686	2.7582	0.00501509	0.03633276 up
ADCY3	1.3656	0.00501576	0.03633276 up
CCL28	-2.3105	0.00503813	0.03646238 down
CES1	-2.3113	0.0050396	0.03646238 down
NEIL1	-1.1760	0.00504351	0.03647988 down
RPF2P1	1.4768	0.00505208	0.03653113 up
PPFIA2	1.5898	0.00505723	0.03655756 up
HCP5B	-2.6898	0.00508381	0.03669546 down
RGCC	2.1947	0.00508655	0.03669546 up
LOC105378819	1.5587	0.00511124	0.03683942 up
RPS3AP6	1.4687	0.00511107	0.03683942 up
HINT2	-1.0215	0.00516355	0.03715092 down
FUT7	1.7857	0.00516304	0.03715092 up
BAIAP2L2	-2.8855	0.00517088	0.03719275 down
HLA-DPA1	-1.5800	0.00517672	0.03722382 down
PRTFDC1	-1.3033	0.00518216	0.03725203 down
RPSAP15	3.1231	0.00519031	0.03728871 up
HELB	1.1048	0.0052118	0.03743217 up
DAZL	2.9071	0.00522211	0.03746427 up
MKRN2OS	-2.2433	0.00522151	0.03746427 down
METTL7B	-3.1410	0.00522057	0.03746427 down
CAPN3	-1.3630	0.00524291	0.03757851 down
TMSB15A	2.2166	0.00525217	0.03762289 up
ADGRB2	-1.2202	0.00525649	0.03764284 down
NUDT16L2P	-1.9922	0.00526087	0.03766324 down
CFAP157	1.0085	0.005267	0.03769613 up
ABAT	-1.4303	0.00530651	0.03793455 down
RPL21P1	1.4224	0.0053135	0.03796242 up
ECM1	1.3416	0.0053285	0.03804585 up
LOC105375624	-1.0836	0.00533667	0.03806801 down
LOC100419831	-1.0408	0.00534205	0.03808868 down

STEAP2	1.0917	0.00534388	0.03809069 up
AKR7L	-3.3270	0.00535281	0.03813213 down
USH2A	-1.6890	0.00536621	0.03821652 down
CD14	2.5073	0.00537056	0.03823637 up
ZNF385C	-1.4236	0.00537497	0.03824694 down
RORC	-3.0901	0.00539538	0.03836711 down
SLC3A1	-2.5995	0.00541017	0.03844024 down
PP2D1	1.4933	0.00542123	0.03849657 up
CCL23	2.6429	0.00542959	0.03853358 up
EVA1A	1.6836	0.00544599	0.03859411 up
DOLPP1	-1.6311	0.00544515	0.03859411 down
FAP	2.2116	0.00545853	0.03866062 up
IMPG1	-1.8854	0.00552114	0.03900269 down
ULBP3	1.4879	0.00552908	0.03903626 up
DYRK2	-1.3254	0.00552859	0.03903626 down
HSP90AB1	1.1551	0.00554502	0.03911502 up
LINC01238	-1.9968	0.00555565	0.03916751 down
LINC01554	1.9282	0.00556123	0.03919557 up
ASTE1	-1.0820	0.00557176	0.03923423 down
KIF17	1.2303	0.00558678	0.03930788 up
ARL5B	1.0546	0.00559393	0.03933556 up
ZDHHC23	-1.7429	0.00559896	0.03935969 down
GPR137B	1.5211	0.00561074	0.03939737 up
SMAP2	1.0778	0.0056067	0.03939737 up
HLA-DPB1	-1.4356	0.00561075	0.03939737 down
TMEM184A	-3.4075	0.00564353	0.03954825 down
PXMP2	-1.9563	0.0056431	0.03954825 down
TMEM72	-3.2658	0.00564724	0.03955705 down
PYGM	-1.9212	0.00567376	0.03964851 down
SCNN1A	-3.2385	0.0056715	0.03964851 down
PREX1	1.4298	0.00570344	0.03982012 up
CLEC2L	-2.0246	0.00570908	0.03983683 down
ABCA1	1.4983	0.00570778	0.03983683 up
H3C6	-1.9704	0.00572783	0.0399449 down
PDLIM2	-1.1705	0.00575041	0.04009104 down
POLR1F	1.1438	0.00576092	0.04015286 up
COBL	-2.4114	0.00576585	0.04017582 down
COL3A1	2.6927	0.00578281	0.04025967 up
SULT1B1	-3.0270	0.00578702	0.04027754 down
EEF1B2P6	1.3422	0.0058134	0.0404267 up
RERGL	-1.5891	0.00586624	0.04070179 down

LINC02432	2.8039	0.00587356	0.04071802 up
MPP7	-1.6540	0.0058728	0.04071802 down
ASIC1	-1.7557	0.00587334	0.04071802 down
TMEM178A	-1.5542	0.00589881	0.0408469 down
PPFIBP2	-1.4053	0.00590475	0.04087644 down
CDH15	2.2486	0.00591533	0.04092144 up
EVPL	-2.6980	0.00592172	0.04094773 down
ETV5	1.5830	0.00593387	0.04098548 up
PAFAH2	-1.3266	0.00594794	0.04103355 down
BTNL2	-3.4873	0.00594635	0.04103355 down
MIR25	-1.5993	0.00594459	0.04103355 down
LINC00484	-1.9542	0.00595149	0.04103355 down
OIT3	-3.5777	0.00594886	0.04103355 down
ACSL5	-2.4323	0.00595215	0.04103355 down
ETV2	-1.3237	0.00595628	0.04103627 down
CYP3A5	-3.3527	0.00597178	0.04113145 down
SEPTIN6	-1.0108	0.00598318	0.0411984 down
CHRM2	-3.8637	0.00599554	0.04126038 down
OR2B11	3.4808	0.00600064	0.04127231 up
MYBPH	3.0372	0.00600856	0.04130359 up
KCNK7	1.7873	0.00604316	0.04145225 up
FES	1.2835	0.00604187	0.04145225 up
SIGLEC16	2.2721	0.00604371	0.04145225 up
LOC105370969	-2.0775	0.00608109	0.04165035 down
BMF	-1.4830	0.00608777	0.04167282 down
PRR16	1.5864	0.0061199	0.0418177 up
PTPN12	1.0008	0.00613828	0.04192496 up
RNASE4	-1.6751	0.0061455	0.04196256 down
LRP5	-1.0419	0.00615116	0.04197789 down
LOC257396	-1.2265	0.00616603	0.04202084 down
RAP1GAP	-2.6597	0.00618135	0.04210186 down
C19orf38	1.7176	0.00619242	0.04215387 up
ATP6V0D2	-3.1364	0.00620399	0.04219749 down
ZBTB7B	-1.5645	0.00621665	0.04223518 down
FOXC1	1.6935	0.00621815	0.04223518 up
ETS1	1.3114	0.00621354	0.04223518 up
BCYRN1	1.8959	0.00623194	0.04230539 up
LINC00649	-1.4021	0.00623566	0.04231893 down
PGAP2	-1.0886	0.00623979	0.04233529 down
RNF224	-2.6881	0.00624606	0.04236612 down
SLC39A8	2.4307	0.00624843	0.04237046 up

SRPK3	-1.6540	0.00625427	0.04239828 down
NGF	1.9412	0.00625825	0.04241356 up
C9orf40	-1.1738	0.0062916	0.04260427 down
LOC100505501	-1.7968	0.00629482	0.04261432 down
ENPP7	-4.5425	0.00630187	0.04262674 down
CEACAM4	2.1381	0.00630676	0.04263629 up
SLC35D1	-1.2202	0.00632561	0.04274014 down
RCC1	1.0455	0.00633001	0.04274634 up
RGL3	1.6503	0.00632927	0.04274634 up
PGR	-2.1972	0.0063389	0.04279453 down
LBX2-AS1	-1.5240	0.00634078	0.04279544 down
ACADS	-1.5528	0.0064177	0.04327888 down
COL4A1	1.9209	0.00642819	0.04331392 up
TBXAS1	1.6238	0.00643047	0.04331733 up
LMNA	1.5746	0.00643478	0.04332356 up
CHST11	1.1385	0.00643981	0.04333265 up
STAP2	-2.7858	0.00646535	0.04345676 down
FAM151B	1.2644	0.00646937	0.04346573 up
CMYA5	-1.4645	0.00647023	0.04346573 down
RPL7P18	1.9690	0.00647649	0.04349587 up
ASB9	1.0743	0.00650606	0.0436586 up
C1orf162	2.1419	0.00651935	0.04372388 up
CBX7	-1.3158	0.00655033	0.04390761 down
LACTB2-AS1	-1.8910	0.00655374	0.04391851 down
HDAC4-AS1	-1.3173	0.00658265	0.04409873 down
HOXB5	-1.6428	0.00658613	0.04409938 down
EEF1GP5	1.3858	0.00663242	0.04434874 up
FAM43B	2.0420	0.00665348	0.04445322 up
MFSD9	-1.1326	0.00665952	0.04448143 down
ANKRD33	3.0230	0.00666364	0.04449688 up
BBS12	-1.0505	0.00667059	0.04450888 down
SNORD14A	1.6090	0.00667129	0.04450888 up
TRDV1	-3.9520	0.00666901	0.04450888 down
KIAA0040	1.2893	0.00669124	0.04460825 up
DCLK3	1.4732	0.00670456	0.0446728 up
RPS2P20	1.3258	0.0067141	0.0447242 up
CDC14A	-1.2935	0.00671921	0.04474606 down
AKR1B10	-3.6088	0.00673462	0.04481216 down
DNAJB4	1.7553	0.00674606	0.04486812 up
CACNB2	-1.8527	0.00677196	0.04497518 down
CASZ1	-1.6474	0.00677914	0.04501067 down

SORBS2	-1.8573	0.00678172	0.04501562 down
PANX2	2.0781	0.00678648	0.04501619 up
FAAH	-1.7965	0.00683498	0.04519532 down
DENND1B	-1.6723	0.00682823	0.04519532 down
LCORL	-1.1984	0.00683151	0.04519532 down
F13A1	2.9795	0.00683384	0.04519532 up
DPEP1	-4.9287	0.00684331	0.04519532 down
PRO1804	-2.6223	0.00683852	0.04519532 down
C1QL3	-1.4331	0.00684797	0.0452106 down
LGR4	-1.2939	0.00687551	0.04534357 down
DUBR	-1.3212	0.00688719	0.04540842 down
GPR15	-3.6020	0.00689689	0.04546017 down
AKR1B15	-2.8407	0.00691327	0.04553137 down
LINC02313	-3.4999	0.00691609	0.04553776 down
LINC00426	-2.0813	0.00692009	0.04555187 down
TAPT1-AS1	-1.0776	0.00697744	0.0458894 down
UGT2A3	-4.5864	0.00698334	0.04590658 down
C3orf18	-1.3505	0.00699143	0.04593792 down
CYTL1	1.7162	0.00701218	0.04604557 up
PDE9A	-2.1477	0.00704185	0.04616742 down
CKMT1B	-2.7600	0.00706477	0.04629297 down
TMIGD2	-2.5455	0.0070753	0.04634956 down
HTRA3	1.7379	0.00710714	0.04644648 up
LINC00339	-1.0515	0.00712083	0.04651114 down
HEBP1	-1.2007	0.00713156	0.04655637 down
FREM1	-1.9327	0.00714236	0.04657731 down
IL20RA	-1.3879	0.00714674	0.0465935 down
SLC4A4	-1.8040	0.00715233	0.04661752 down
RHEX	-1.8598	0.0071782	0.04672405 down
NAGS	-2.4389	0.00717737	0.04672405 down
BTD	-1.2630	0.00718452	0.04672797 down
LHFPL3-AS2	-3.4843	0.00718349	0.04672797 down
MT2A	1.6421	0.00718254	0.04672797 up
CLDN1	1.9561	0.00719345	0.04676121 up
STAB2	-1.9482	0.00721177	0.0468431 down
RNF150	-1.6933	0.00722255	0.04688828 down
LRG1	2.0547	0.00722691	0.04690411 up
GALNT12	-1.6388	0.00723477	0.04691953 down
C2CD4A	3.3633	0.00723159	0.04691953 up
SELL	1.9534	0.00727058	0.04710033 up
KIAA2013	-1.1225	0.00727711	0.0471177 down

LOC100420899	2.0348	0.00729661	0.04723146 up
RPL21P72	2.1474	0.00733233	0.04741148 up
EML6	-2.4935	0.00733792	0.047413 down
PCDH17	1.5019	0.00737218	0.04758249 up
PLAAT4	-1.6059	0.00742384	0.04781414 down
PCAT19	1.5305	0.00742871	0.04781414 up
SIGLEC7	2.4222	0.00742668	0.04781414 up
VPREB3	-3.6464	0.00742395	0.04781414 down
LOC442517	2.4642	0.00743855	0.04785965 up
MPL	-1.2321	0.00744295	0.04787542 down
LOC340090	-2.7843	0.00746589	0.04799782 down
PLEK	1.6871	0.00747766	0.04806087 up
KCNN3	-1.9004	0.00749718	0.04813554 down
CCL4L1	1.5072	0.0074955	0.04813554 up
SGK2	-2.1047	0.00749745	0.04813554 down
RPL23P7	1.3534	0.00751176	0.04820425 up
SNORD69	1.2153	0.00754031	0.04833683 up
LOC613206	-2.0660	0.0075429	0.0483408 down
CTNND1	-1.0410	0.00754993	0.04837291 down
CA14	-2.6357	0.00756772	0.0484619 down
KLF2	1.4660	0.00760616	0.04869528 up
LRRC70	1.4950	0.00766949	0.0489984 up
MIGA2	-1.1311	0.00767312	0.04900884 down
GALNT8	-1.5373	0.00770169	0.04914844 down
ANKS4B	-3.8266	0.007703	0.04914844 down
OSTN-AS1	-3.6200	0.00772146	0.04924303 down
EPB41L4B	-2.3116	0.00772318	0.04924303 down
DMD	-1.4196	0.00772852	0.04926001 down
NCF2	1.8439	0.00778218	0.04957626 up
RPS3AP19	-2.7070	0.00779432	0.0496407 down
METTL24	-1.8789	0.00780401	0.0496761 down
DGKB	-2.9450	0.0078057	0.0496761 down
S100B	-2.1286	0.00782578	0.04975062 down
PLEKHA7	-1.6829	0.00782945	0.04975304 down
ERVFRD-1	-2.0260	0.007858	0.04986649 down
IMPDH1	1.4267	0.00786028	0.04986649 up
ADAMTS7P4	-1.5916	0.00788209	0.04996607 down

Table S5 45 FRGs in human after intestinal ischemia/reperfusion

Genes	log2FoldChange	pvalue	padj	regulated
Acsf2	-2.0176516	0.00201648	0.01931408	down
Nox1	-2.7827104	0.00036208	0.00549836	down
Scp2	-1.1313064	0.00352447	0.02857819	down
Acsl4	2.30924202	8.61E-12	2.99E-09	up
Tfrc	1.28638114	0.00302017	0.02563927	up
Hmox1	3.01077673	4.74E-09	6.75E-07	up
Wipi1	1.6531891	0.00010386	0.00209078	up
Sat1	1.25844082	0.00259336	0.02305123	up
Bid	1.1124967	3.37E-05	0.0008922	up
Dpp4	-3.2096671	0.00072291	0.00905475	down
Chac1	3.00274634	0.00340079	0.02788589	up
Hilpda	2.0093699	0.00021189	0.00366406	up
Hif1a	2.52630806	1.80E-20	4.01E-17	up
Tnfaip3	2.90434654	5.98E-10	1.17E-07	up
Atf3	2.13140328	5.03E-08	4.55E-06	up
Panx1	1.96895057	1.89E-15	1.55E-12	up
Dusp1	1.74622131	9.44E-06	0.00033175	up
Ncf2	1.84390702	0.00778218	0.04957626	up
Alb	-1.6420041	0.00298219	0.02545193	down
Srxn1	1.66493872	7.44E-05	0.0016149	up
Angptl7	-2.6912218	0.00160716	0.01644728	down
Slc7a11	4.18321519	0.00071813	0.00902082	up
Pck2	-3.1547425	7.48E-05	0.00162097	down
Slc7a5	3.5058468	3.99E-07	2.47E-05	up
Slc3a2	1.10033076	0.00480064	0.03537012	up
Trib3	3.33739598	3.79E-05	0.00096522	up
Vegfa	1.51542615	0.00083869	0.0100753	up
Gdf15	2.41009407	0.00215121	0.02026417	up
Arrdc3	1.29165882	0.00076703	0.00944157	up
Il6	5.70080342	1.12E-11	3.77E-09	up
Cxcl2	3.87008077	1.47E-09	2.61E-07	up
Hsd17b11	-1.7877427	0.00235446	0.02147074	down
Map3k5	1.11462892	8.94E-16	8.43E-13	up
Slc2a1	2.53999817	0.00057342	0.00769158	up
Slc2a3	3.27070965	3.51E-13	1.72E-10	up
Slc2a6	1.81633074	0.00052391	0.00720084	up
Slc2a12	-2.3605809	0.00211498	0.01999971	down
Slc2a14	2.28470666	0.00327388	0.02714766	up

Nnmt	3.40516886	1.22E-07	9.48E-06 up
Gabpb1	1.28786866	1.20E-05	0.00039537 up
Hspa5	1.96879059	1.14E-08	1.36E-06 up
Cd44	1.71907931	1.19E-07	9.29E-06 up
Plin2	1.60300513	0.00274184	0.0240021 up
Zfp36	1.46958971	0.00043138	0.00623296 up
Sqle	1.38945017	0.00325723	0.02703696 up

Table S6 200 FRGs in human after intestinal ischemia/reperfusion

Genes	log2FoldChange	pvalue	padj	regulated
Calr	1.06820021	0.00333933	0.0275228	up
Cd1c	-3.2416877	0.00026121	0.00430071	down
Cd1e	-3.1400321	0.0021891	0.02048728	down
Cd8b	-2.236737	0.00199808	0.01922803	down
Cd74	-1.5610183	0.00270669	0.02378619	down
Ctsb	2.3714353	0.00410731	0.0317401	up
Ctsl	2.50886073	5.05E-05	0.00120033	up
Fcer1g	2.36932999	0.00211141	0.01998911	up
Hla-Dmb	-2.1631002	0.0005985	0.00794547	down
Hla-Dpa1	-1.5800265	0.00517672	0.03722382	down
Hla-Dpb1	-1.4355878	0.00561075	0.03939737	down
Hla-Dra	-1.7072297	0.00212974	0.02009285	down
Hspa5	1.96879059	1.14E-08	1.36E-06	up
Hspa6	6.60212484	2.13E-09	3.46E-07	up
Orm1	3.88641119	0.00029223	0.00467419	up
Ctsg	-2.1646855	0.00442893	0.03339557	down
Aen	1.2865195	1.63E-05	0.00050707	up
Tlr3	-1.4924951	0.00021731	0.00373657	down
Tfrc	1.28638114	0.00302017	0.02563927	up
Gdf15	2.41009407	0.00215121	0.02026417	up
Socs3	3.21656761	8.21E-07	4.49E-05	up
Tnfsf10	-1.8791618	1.09E-05	0.0003677	down
Plaat4	-1.6058979	0.00742384	0.04781414	down
Vegfa	1.51542615	0.00083869	0.0100753	up
Tnfaip3	2.90434654	5.98E-10	1.17E-07	up
Il27	3.7537736	9.89E-05	0.00200933	up

Klkb1	-2.3338728	0.00419955	0.03225942 down
Tlr8	2.51744614	0.00495231	0.03605421 up
Apom	-2.4445853	0.00013489	0.00257397 down
Nod1	1.41970595	1.04E-05	0.00035826 up
Bphl	-1.7967506	0.00039781	0.00587613 down
Tkfc	-2.5862038	0.00053995	0.00734954 down
Nfkbiz	2.40351823	6.18E-12	2.26E-09 up
Mpo	2.43123526	0.00143727	0.0151123 up
Slc11a1	4.63014349	4.73E-07	2.84E-05 up
Sting1	1.20026876	0.00154542	0.0160256 up
Tnfrsf10a	1.37088511	0.00107546	0.01213537 up
Ccl4	2.55806409	1.13E-05	0.00037543 up
Marco	4.85194532	5.91E-05	0.0013559 up
Ccl28	-2.3105458	0.00503813	0.03646238 down
Il1a	5.38842117	0.00023474	0.00397775 up
Ptx3	6.03051239	2.53E-16	2.82E-13 up
Ifnar2	1.01725104	0.00063128	0.00825103 up
Cd14	2.50726246	0.00537056	0.03823637 up
Masp1	-3.0629047	0.00078255	0.00955501 down
Proc	-2.761756	0.00172179	0.01721091 down
Irf9	-1.114809	7.79E-05	0.00167586 down
Hmox1	3.01077673	4.74E-09	6.75E-07 up
Hgf	1.65644268	0.00138198	0.01467571 up
Stab2	-1.9482246	0.00721177	0.0468431 down
Alb	-1.6420041	0.00298219	0.02545193 down
Serpina3	2.72405066	0.00289536	0.02488406 up
Ccl14	-2.7453167	1.52E-05	0.00047872 down
Ccl13	3.07773376	0.00409595	0.03170225 up
Ccl18	2.78006284	0.00369561	0.02951675 up
Ccl26	2.53736487	0.00031267	0.00491762 up
Ccl4l1	1.50720923	0.0074955	0.04813554 up
Ackr4	-2.2022466	2.47E-06	0.00011151 down
Ccl2	4.61460708	1.03E-10	2.75E-08 up
Ccl3	3.27127092	8.83E-08	7.24E-06 up
Ccl23	2.64285191	0.00542959	0.03853358 up
Ccl3l3	3.18891818	0.00024064	0.0040497 up
Ccl8	2.18734281	0.00045035	0.00646002 up
Ccr1	2.51632464	0.00425387	0.03253428 up
Xcl2	-2.1274197	0.00377209	0.02997138 down
Cxcl1	5.19501555	5.62E-08	4.94E-06 up
Cxcl2	3.87008077	1.47E-09	2.61E-07 up

Il6	5.70080342	1.12E-11	3.77E-09 up
Il1b	5.20891648	5.10E-11	1.42E-08 up
Il10	3.26097635	0.00049139	0.00686942 up
Fgr	2.19413376	0.00343307	0.02807831 up
Ptgdr	-1.8650323	0.00019884	0.00347505 down
Hck	2.56103574	0.00010951	0.00218142 up
Olr1	2.45159977	3.01E-05	0.0008209 up
Rnase2	5.42032668	4.25E-07	2.60E-05 up
Ighv4-61	3.4447533	0.00397771	0.03110124 up
Cma1	-3.0484701	0.00328019	0.02718155 down
Cxcl3	5.31434741	1.02E-16	1.25E-13 up
Cxcl5	6.08132413	4.04E-05	0.00101505 up
Ccn1	3.25770024	2.23E-08	2.34E-06 up
Edn3	-3.5902304	0.00300803	0.02557453 down
Cxcl8	7.88200103	1.50E-19	2.63E-16 up
Pf4	3.17826989	0.00045267	0.00647574 up
Plau	3.01820605	3.13E-13	1.56E-10 up
Ppbp	3.98629082	0.00015654	0.00287512 up
Prok2	3.72928329	8.53E-07	4.63E-05 up
Sema3f	1.58657407	8.61E-05	0.00181817 up
Sema4g	-3.1702269	0.00047928	0.00675784 down
Sema6a	-1.4042987	0.00094151	0.01095668 down
Sema6b	2.51511215	3.08E-05	0.00083287 up
Sema6d	-1.9531334	0.00197719	0.01908691 down
Tymp	1.52426486	0.0024759	0.02228672 up
C5ar1	2.95311446	0.00070118	0.00886239 up
Ackr3	2.34767481	1.38E-06	6.90E-05 up
Ednra	1.32859207	0.00322799	0.02687709 up
Ednrb	1.58038952	0.00017545	0.00314247 up
Fpr1	4.46188403	4.32E-07	2.64E-05 up
Fpr2	4.22102825	6.34E-07	3.58E-05 up
C5ar2	2.7231254	4.66E-06	0.00018605 up
Plaur	3.81578711	1.57E-21	5.16E-18 up
Ptafr	2.19318772	0.00069177	0.00881149 up
Adm	2.16541334	0.0028907	0.0248527 up
Angptl7	-2.6912218	0.00160716	0.01644728 down
Apln	3.68924337	3.51E-06	0.00014643 up
Areg	4.38299695	2.74E-08	2.76E-06 up
Manf	1.37380813	0.00061695	0.00809392 up
Artn	2.2920014	0.00026554	0.00435227 up
Bmp3	-4.010105	0.00035372	0.00540724 down

Btc	-3.3076983	1.09E-05	0.00036724 down
Clcf1	3.51694494	2.30E-08	2.40E-06 up
Cmtm2	2.6604154	9.50E-05	0.00194833 up
Csf3	7.65407211	7.27E-13	3.24E-10 up
Ccn2	2.02352286	0.0001466	0.00274801 up
Epgn	4.25923765	0.00111615	0.01249767 up
Ereg	4.03986913	1.23E-08	1.44E-06 up
Fgf7	2.53175998	2.73E-05	0.00075763 up
Fgf9	-2.2476665	0.00141152	0.0149055 down
Guca2a	-7.1552501	2.96E-05	0.0008108 down
Hbegf	2.75142125	5.36E-08	4.76E-06 up
Igf1	3.29026986	1.56E-05	0.00048753 up
Il11	6.35729966	4.30E-08	4.04E-06 up
Il24	6.99090382	2.48E-07	1.69E-05 up
Inhba	6.10031644	4.37E-09	6.45E-07 up
Lif	5.14612036	5.57E-13	2.63E-10 up
Mdk	-1.6697955	0.00229163	0.0211255 down
Nampt	4.33366817	1.49E-32	3.65E-28 up
Ngf	1.94122716	0.00625825	0.04241356 up
Nts	-4.533267	0.00013807	0.00262638 down
Osm	4.35715131	3.73E-11	1.08E-08 up
Endou	2.30034561	0.00275747	0.02411348 up
Pgf	3.26999224	3.93E-08	3.78E-06 up
Ptn	-2.2530032	0.00122744	0.0134205 down
Pyy	-5.9456247	8.26E-05	0.00176134 down
Qrfp	3.09904007	6.37E-05	0.00143399 up
Retn	6.33997974	7.84E-06	0.0002878 up
Sectm1	-1.9242669	0.00377123	0.02997138 down
Stc1	4.08737319	9.16E-09	1.17E-06 up
Tgfb1	1.25558826	0.00073812	0.00919648 up
Tgfb3	1.18582311	0.00088967	0.01049793 up
Tnfsf14	2.61525756	0.00413459	0.03191069 up
Tnfsf9	3.58727688	1.29E-05	0.00041741 up
Acvr11	1.30225159	0.00029977	0.0047575 up
Angptl4	2.29180889	0.00181715	0.01793534 up
Avpr1b	-2.7805225	0.00405072	0.03148134 down
Crlf1	2.75263125	1.25E-05	0.00040916 up
Csf2ra	1.40013508	0.00192907	0.01873376 up
Csf3r	3.14933957	5.81E-06	0.00022439 up
Esrrg	-2.0370773	0.00312354	0.02624119 down
Fgfr3	-2.9725117	0.00423679	0.03244416 down

Flt1	2.32291657	0.00015231	0.00282081 up
Hnf4g	-4.3571792	0.00220354	0.02056746 down
Il11ra	-1.529746	2.04E-08	2.15E-06 down
Il13ra2	4.43627514	3.59E-05	0.00093427 up
Il15ra	1.09222368	0.00236166	0.02150312 up
Il17ra	1.37416224	0.00027065	0.00441254 up
Il17rc	-1.2305088	1.95E-09	3.22E-07 down
Il17re	-2.1613897	0.00429393	0.03273856 down
Il18r1	2.08209552	1.07E-09	1.92E-07 up
Il18rap	1.6574332	0.00065845	0.00847441 up
Il1r1	2.04301401	0.00015181	0.00281711 up
Il1r2	5.26409733	2.31E-21	6.29E-18 up
Il1rap	2.29595623	6.64E-23	4.07E-19 up
Il1rl1	6.32359363	2.33E-09	3.71E-07 up
Il1rl2	2.73811094	4.74E-10	9.68E-08 up
Il20ra	-1.3879352	0.00714674	0.0465935 down
Il3ra	1.1947581	0.00392248	0.03077796 up
Lgr4	-1.2938959	0.00687551	0.04534357 down
Mchr1	2.50209466	2.91E-06	0.00012808 up
Mpl	-1.232087	0.00744295	0.04787542 down
Ngfr	2.23642765	0.0001277	0.00246744 up
Nr1h4	-4.5762417	0.00263391	0.02332265 down
Nr1i3	-2.5190007	0.00102828	0.01169992 down
Nr3c2	-2.2567669	8.05E-06	0.0002936 down
Nr4a1	2.61267692	0.00041871	0.00610424 up
Nr4a2	2.75326387	2.62E-06	0.00011789 up
Nr4a3	5.71073417	7.54E-22	3.08E-18 up
Osmr	2.64019085	6.97E-09	9.50E-07 up
Pgr	-2.1971614	0.0063389	0.04279453 down
Prlr	-2.8573673	0.00200331	0.01924058 down
Ptgds	-2.2325875	0.00126016	0.01368425 down
Ptger2	2.19313663	3.68E-05	0.0009433 up
Rorc	-3.0900764	0.00539538	0.03836711 down
Tnfrsf10d	2.35450201	1.08E-06	5.63E-05 up
Tnfrsf12a	3.17002872	2.60E-07	1.75E-05 up
Tnfrsf4	2.13337804	0.00075015	0.00929751 up
Tubb3	2.97230958	1.96E-12	8.03E-10 up
Vipr1	-3.6333384	9.66E-06	0.00033758 down
Klrc1	-2.0283864	0.00464736	0.0345732 down
Icam1	4.2060724	3.51E-11	1.02E-08 up
Fcgr3a	3.0171136	0.00260672	0.02313311 up

Lcp2	1.31568582	0.00015683	0.00287837	up
Pik3r5	1.91931398	0.00240547	0.02183717	up
Shc1	1.25954354	1.12E-06	5.81E-05	up
Fos	1.10643494	0.0042841	0.03270424	up
Nfkb1	1.0318553	2.96E-05	0.0008108	up
Nfkbia	1.99977174	5.99E-05	0.00136996	up
Nfkbie	1.86407789	0.00057171	0.00768931	up
Map3k8	2.80582493	2.88E-10	6.49E-08	up
Trbv19	-2.7763408	0.00082894	0.00999296	down
Trdv1	-3.9519606	0.00666901	0.04450888	down

**Table
S7**

Significant Enrichment Results of GO Analysis of FRGs

Ontology ID	Description	GeneRatio	BgRatio	pvalue	qvalue	Count
BP	GO:0006979 response to oxidative stress	14/60	409/23328	0.0000	0.0000	14
BP	GO:0062012 regulation of small molecule metabolic process	11/60	358/23328	0.0000	0.0000	11
BP	GO:0009611 response to wounding	11/60	492/23328	0.0000	0.0000	11
BP	GO:0048872 homeostasis of number of cells	10/60	330/23328	0.0000	0.0000	10
BP	GO:0050727 regulation of inflammatory response	10/60	372/23328	0.0000	0.0000	10
BP	GO:0031331 positive regulation of cellular catabolic process	10/60	396/23328	0.0000	0.0000	10
BP	GO:2001233 regulation of apoptotic signaling pathway	10/60	413/23328	0.0000	0.0000	10
BP	GO:0070997 neuron death	10/60	416/23328	0.0000	0.0000	10
BP	GO:0006914 autophagy	10/60	425/23328	0.0000	0.0000	10
BP	GO:0061919 process utilizing autophagic mechanism	10/60	425/23328	0.0000	0.0000	10
BP	GO:0009896 positive regulation of catabolic process	10/60	463/23328	0.0000	0.0000	10
BP	GO:2001234 negative regulation of apoptotic signaling pathway	9/60	231/23328	0.0000	0.0000	9
BP	GO:0006790 sulfur compound metabolic process	9/60	279/23328	0.0000	0.0000	9
BP	GO:0062197 cellular response to chemical stress	9/60	332/23328	0.0000	0.0000	9
BP	GO:1901214 regulation of neuron death	9/60	377/23328	0.0000	0.0000	9
BP	GO:0009991 response to extracellular stimulus	9/60	378/23328	0.0000	0.0000	9
BP	GO:0015711 organic anion transport	9/60	463/23328	0.0000	0.0001	9
BP	GO:0048732 gland development	9/60	471/23328	0.0000	0.0001	9

BP	GO:1901615	organic hydroxy compound metabolic process	9/60	498/23328	0.0000	0.00029
BP	GO:1901215	negative regulation of neuron death	8/60	251/23328	0.0000	0.00008
BP	GO:0034599	cellular response to oxidative stress	8/60	276/23328	0.0000	0.00008
BP	GO:0031667	response to nutrient levels	8/60	346/23328	0.0000	0.00018
BP	GO:0042060	wound healing	8/60	349/23328	0.0000	0.00018
BP	GO:0006631	fatty acid metabolic process	8/60	408/23328	0.0000	0.00038
BP	GO:0010876	lipid localization	8/60	413/23328	0.0000	0.00038
BP	GO:0001933	negative regulation of protein phosphorylation	8/60	425/23328	0.0000	0.00048
BP	GO:0009117	nucleotide metabolic process	8/60	427/23328	0.0000	0.00048
BP	GO:0006753	nucleoside phosphate metabolic process	8/60	436/23328	0.0000	0.00048
BP	GO:0042326	negative regulation of phosphorylation	8/60	471/23328	0.0000	0.00058
CC	GO:0045177	apical part of cell	8/61	454/23271	0.0000	0.00158
BP	GO:0046916	cellular transition metal ion homeostasis	7/60	104/23328	0.0000	0.00007
BP	GO:0055076	transition metal ion homeostasis	7/60	134/23328	0.0000	0.00007
BP	GO:0002262	myeloid cell homeostasis	7/60	187/23328	0.0000	0.00007
BP	GO:0010506	regulation of autophagy	7/60	278/23328	0.0000	0.00027
BP	GO:0097193	intrinsic apoptotic signaling pathway	7/60	295/23328	0.0000	0.00037
BP	GO:0071216	cellular response to biotic stimulus	7/60	320/23328	0.0000	0.00047
BP	GO:0009150	purine ribonucleotide metabolic process	7/60	324/23328	0.0000	0.00047
BP	GO:0009259	ribonucleotide metabolic process	7/60	334/23328	0.0000	0.00057
BP	GO:0019693	ribose phosphate metabolic process	7/60	345/23328	0.0000	0.00067
BP	GO:0006163	purine nucleotide metabolic process	7/60	354/23328	0.0000	0.00067
BP	GO:0019216	regulation of lipid metabolic process	7/60	363/23328	0.0000	0.00077
BP	GO:0006869	lipid transport	7/60	364/23328	0.0000	0.00077
BP	GO:0032496	response to lipopolysaccharide	7/60	368/23328	0.0000	0.00077
BP	GO:0022411	cellular component disassembly	7/60	383/23328	0.0001	0.00087
BP	GO:0032102	negative regulation of response to external stimulus	7/60	384/23328	0.0001	0.00087

BP	GO:0002237	response to molecule of bacterial origin	7/60	389/23328	0.0001	0.0009	7
BP	GO:0072521	purine-containing compound metabolic process	7/60	396/23328	0.0001	0.0009	7
BP	GO:0006091	generation of precursor metabolites and energy	7/60	400/23328	0.0001	0.0009	7
BP	GO:1901652	response to peptide	7/60	400/23328	0.0001	0.0009	7
BP	GO:0001819	positive regulation of cytokine production	7/60	449/23328	0.0001	0.0015	7
BP	GO:0002683	negative regulation of immune system process	7/60	462/23328	0.0002	0.0017	7
BP	GO:0006879	cellular iron ion homeostasis	6/60	64/23328	0.0000	0.0000	6
BP	GO:0055072	iron ion homeostasis	6/60	92/23328	0.0000	0.0000	6
BP	GO:0001776	leukocyte homeostasis	6/60	115/23328	0.0000	0.0000	6
BP	GO:0006575	cellular modified amino acid metabolic process	6/60	165/23328	0.0000	0.0002	6
BP	GO:2001236	regulation of extrinsic apoptotic signaling pathway	6/60	165/23328	0.0000	0.0002	6
BP	GO:0098739	import across plasma membrane	6/60	166/23328	0.0000	0.0002	6
BP	GO:0042594	response to starvation	6/60	178/23328	0.0000	0.0002	6
BP	GO:0046890	regulation of lipid biosynthetic process	6/60	184/23328	0.0000	0.0002	6
BP	GO:0001666	response to hypoxia	6/60	208/23328	0.0000	0.0004	6
BP	GO:0042180	cellular ketone metabolic process	6/60	211/23328	0.0000	0.0004	6
BP	GO:0002819	regulation of adaptive immune response	6/60	213/23328	0.0000	0.0004	6
BP	GO:0098656	anion transmembrane transport	6/60	221/23328	0.0000	0.0005	6
BP	GO:0097191	extrinsic apoptotic signaling pathway	6/60	233/23328	0.0000	0.0006	6
BP	GO:0036293	response to decreased oxygen levels	6/60	234/23328	0.0000	0.0006	6
BP	GO:1903320	regulation of protein modification by small protein conjugation or removal	6/60	240/23328	0.0000	0.0006	6
BP	GO:0034976	response to endoplasmic reticulum stress	6/60	249/23328	0.0000	0.0007	6
BP	GO:0098657	import into cell	6/60	251/23328	0.0000	0.0007	6
BP	GO:0051348	negative regulation of transferase activity	6/60	260/23328	0.0001	0.0008	6
BP	GO:0045926	negative regulation of growth	6/60	264/23328	0.0001	0.0009	6

BP	GO:0071222	cellular response to lipopolysaccharide	6/60	285/23328	0.0001	0.0011	6
BP	GO:0070482	response to oxygen levels	6/60	287/23328	0.0001	0.0011	6
BP	GO:0072593	reactive oxygen species metabolic process	6/60	292/23328	0.0001	0.0012	6
BP	GO:0071219	cellular response to molecule of bacterial origin	6/60	295/23328	0.0001	0.0012	6
BP	GO:0060326	cell chemotaxis	6/60	303/23328	0.0001	0.0013	6
BP	GO:0070372	regulation of ERK1 and ERK2 cascade	6/60	308/23328	0.0001	0.0014	6
BP	GO:0009895	negative regulation of catabolic process	6/60	311/23328	0.0001	0.0015	6
BP	GO:0070371	ERK1 and ERK2 cascade	6/60	325/23328	0.0002	0.0018	6
BP	GO:0046942	carboxylic acid transport	6/60	333/23328	0.0002	0.0020	6
BP	GO:0015849	organic acid transport	6/60	337/23328	0.0002	0.0020	6
BP	GO:0050878	regulation of body fluid levels	6/60	354/23328	0.0003	0.0024	6
BP	GO:0001503	ossification	6/60	394/23328	0.0005	0.0038	6
BP	GO:0034248	regulation of cellular amide metabolic process	6/60	410/23328	0.0006	0.0043	6
BP	GO:0051090	regulation of DNA-binding transcription factor activity	6/60	415/23328	0.0007	0.0045	6
BP	GO:0072594	establishment of protein localization to organelle	6/60	426/23328	0.0008	0.0049	6
BP	GO:0022407	regulation of cell-cell adhesion	6/60	427/23328	0.0008	0.0049	6
BP	GO:0090407	organophosphate biosynthetic process	6/60	427/23328	0.0008	0.0049	6
BP	GO:0001558	regulation of cell growth	6/60	438/23328	0.0009	0.0053	6
MF	GO:0008509	anion transmembrane transporter activity	6/58	336/22669	0.0002	0.0080	6
MF	GO:0033218	amide binding	6/58	391/22669	0.0005	0.0103	6
BP	GO:0043648	dicarboxylic acid metabolic process	5/60	85/23328	0.0000	0.0001	5
BP	GO:2001237	negative regulation of extrinsic apoptotic signaling pathway	5/60	101/23328	0.0000	0.0002	5
BP	GO:0030282	bone mineralization	5/60	120/23328	0.0000	0.0004	5
BP	GO:0042542	response to hydrogen peroxide	5/60	121/23328	0.0000	0.0004	5
BP	GO:1905039	carboxylic acid transmembrane transport	5/60	124/23328	0.0000	0.0004	5
BP	GO:1903825	organic acid transmembrane transport	5/60	125/23328	0.0000	0.0004	5
BP	GO:0001889	liver development	5/60	126/23328	0.0000	0.0004	5

BP	GO:0061008	hepaticobiliary system development	5/60	129/23328	0.0000	0.0004	5
BP	GO:0010565	regulation of cellular ketone metabolic process	5/60	139/23328	0.0000	0.0006	5
BP	GO:1902652	secondary alcohol metabolic process	5/60	141/23328	0.0000	0.0006	5
BP	GO:0006633	fatty acid biosynthetic process	5/60	145/23328	0.0000	0.0006	5
BP	GO:0050728	negative regulation of inflammatory response	5/60	156/23328	0.0001	0.0008	5
BP	GO:0031214	biomineral tissue development	5/60	162/23328	0.0001	0.0009	5
BP	GO:0110148	biomineralization	5/60	162/23328	0.0001	0.0009	5
BP	GO:0048660	regulation of smooth muscle cell proliferation	5/60	165/23328	0.0001	0.0009	5
BP	GO:0048659	smooth muscle cell proliferation	5/60	170/23328	0.0001	0.0009	5
BP	GO:1901605	alpha-amino acid metabolic process	5/60	180/23328	0.0001	0.0012	5
BP	GO:0043524	negative regulation of neuron apoptotic process	5/60	182/23328	0.0001	0.0012	5
BP	GO:0006109	regulation of carbohydrate metabolic process	5/60	195/23328	0.0001	0.0015	5
BP	GO:0072330	monocarboxylic acid biosynthetic process	5/60	196/23328	0.0001	0.0015	5
BP	GO:0000302	response to reactive oxygen species	5/60	202/23328	0.0002	0.0017	5
BP	GO:0031396	regulation of protein ubiquitination	5/60	206/23328	0.0002	0.0018	5
BP	GO:0006469	negative regulation of protein kinase activity	5/60	207/23328	0.0002	0.0018	5
BP	GO:0043542	endothelial cell migration	5/60	212/23328	0.0002	0.0020	5
BP	GO:0031668	cellular response to extracellular stimulus	5/60	217/23328	0.0002	0.0021	5
BP	GO:0048545	response to steroid hormone	5/60	218/23328	0.0002	0.0021	5
BP	GO:0033673	negative regulation of kinase activity	5/60	227/23328	0.0003	0.0024	5
BP	GO:0031348	negative regulation of defense response	5/60	228/23328	0.0003	0.0025	5
BP	GO:0033002	muscle cell proliferation	5/60	236/23328	0.0004	0.0028	5
BP	GO:0015980	energy derivation by oxidation of organic compounds	5/60	248/23328	0.0004	0.0034	5
BP	GO:0006520	cellular amino acid metabolic process	5/60	250/23328	0.0005	0.0034	5
BP	GO:0045444	fat cell differentiation	5/60	252/23328	0.0005	0.0035	5

BP	GO:0005996	monosaccharide metabolic process	5/60	261/23328	0.0006	0.0040	5
BP	GO:0022409	positive regulation of cell-cell adhesion	5/60	265/23328	0.0006	0.0042	5
BP	GO:0043523	regulation of neuron apoptotic process	5/60	270/23328	0.0007	0.0044	5
BP	GO:0010038	response to metal ion	5/60	274/23328	0.0007	0.0045	5
BP	GO:0071496	cellular response to external stimulus	5/60	280/23328	0.0008	0.0048	5
BP	GO:0044262	cellular carbohydrate metabolic process	5/60	292/23328	0.0009	0.0054	5
BP	GO:0010631	epithelial cell migration	5/60	295/23328	0.0010	0.0056	5
BP	GO:0090132	epithelium migration	5/60	297/23328	0.0010	0.0057	5
BP	GO:0051402	neuron apoptotic process	5/60	298/23328	0.0010	0.0058	5
BP	GO:0046394	carboxylic acid biosynthetic process	5/60	299/23328	0.0010	0.0058	5
BP	GO:0090130	tissue migration	5/60	299/23328	0.0010	0.0058	5
BP	GO:1901653	cellular response to peptide	5/60	299/23328	0.0010	0.0058	5
BP	GO:0016053	organic acid biosynthetic process	5/60	300/23328	0.0010	0.0058	5
BP	GO:0008202	steroid metabolic process	5/60	309/23328	0.0012	0.0062	5
BP	GO:0006066	alcohol metabolic process	5/60	323/23328	0.0014	0.0070	5
BP	GO:0032386	regulation of intracellular transport	5/60	329/23328	0.0016	0.0075	5
BP	GO:0019221	cytokine-mediated signaling pathway	5/60	369/23328	0.0026	0.0103	5
BP	GO:0009914	hormone transport	5/60	372/23328	0.0027	0.0106	5
BP	GO:0042176	regulation of protein catabolic process	5/60	395/23328	0.0035	0.0124	5
BP	GO:0009314	response to radiation	5/60	401/23328	0.0037	0.0130	5
BP	GO:0032103	positive regulation of response to external stimulus	5/60	418/23328	0.0044	0.0151	5
BP	GO:1903706	regulation of hemopoiesis	5/60	424/23328	0.0047	0.0157	5
BP	GO:0001667	ameboidal-type cell migration	5/60	427/23328	0.0048	0.0160	5
BP	GO:0010959	regulation of metal ion transport	5/60	427/23328	0.0048	0.0160	5
BP	GO:0045785	positive regulation of cell adhesion	5/60	435/23328	0.0052	0.0170	5
BP	GO:0002697	regulation of immune effector process	5/60	440/23328	0.0054	0.0176	5
BP	GO:1901361	organic cyclic compound catabolic process	5/60	442/23328	0.0055	0.0177	5

BP	GO:0045666	positive regulation of neuron differentiation	5/60	472/23328	0.0073	0.0216	5
BP	GO:0007005	mitochondrion organization	5/60	481/23328	0.0079	0.0227	5
CC	GO:0005811	lipid droplet	5/61	89/23271	0.0000	0.0005	5
CC	GO:0016323	basolateral plasma membrane	5/61	259/23271	0.0006	0.0109	5
CC	GO:0016324	apical plasma membrane	5/61	350/23271	0.0022	0.0289	5
CC	GO:0000323	lytic vacuole	5/61	460/23271	0.0071	0.0510	5
CC	GO:0005764	lysosome	5/61	460/23271	0.0071	0.0510	5
MF	GO:0008514	organic anion transmembrane transporter activity	5/58	220/22669	0.0002	0.0080	5
MF	GO:0031625	ubiquitin protein ligase binding	5/58	306/22669	0.0011	0.0132	5
MF	GO:0044389	ubiquitin-like protein ligase binding	5/58	324/22669	0.0014	0.0132	5
MF	GO:0048018	receptor ligand activity	5/58	499/22669	0.0089	0.0373	5
BP	GO:0006534	cysteine metabolic process	4/60	12/23328	0.0000	0.0000	4
BP	GO:0000096	sulfur amino acid metabolic process	4/60	34/23328	0.0000	0.0001	4
BP	GO:0009069	serine family amino acid metabolic process	4/60	34/23328	0.0000	0.0001	4
BP	GO:0043620	regulation of DNA-templated transcription in response to stress	4/60	51/23328	0.0000	0.0003	4
BP	GO:0006749	glutathione metabolic process	4/60	57/23328	0.0000	0.0004	4
BP	GO:0043536	positive regulation of blood vessel endothelial cell migration	4/60	57/23328	0.0000	0.0004	4
BP	GO:0009060	aerobic respiration	4/60	74/23328	0.0000	0.0007	4
BP	GO:0006094	gluconeogenesis	4/60	76/23328	0.0000	0.0007	4
BP	GO:0002260	lymphocyte homeostasis	4/60	79/23328	0.0001	0.0008	4
BP	GO:0019319	hexose biosynthetic process	4/60	79/23328	0.0001	0.0008	4
BP	GO:0006637	acyl-CoA metabolic process	4/60	83/23328	0.0001	0.0009	4
BP	GO:0035383	thioester metabolic process	4/60	83/23328	0.0001	0.0009	4
BP	GO:0043154	negative regulation of cysteine-type endopeptidase activity involved in apoptotic process	4/60	84/23328	0.0001	0.0009	4
BP	GO:0051384	response to glucocorticoid	4/60	84/23328	0.0001	0.0009	4
BP	GO:0046364	monosaccharide biosynthetic process	4/60	85/23328	0.0001	0.0009	4
BP	GO:0044272	sulfur compound biosynthetic process	4/60	86/23328	0.0001	0.0009	4
BP	GO:0031960	response to corticosteroid	4/60	88/23328	0.0001	0.0010	4

BP	GO:1903321	negative regulation of protein modification by small protein conjugation or removal	4/60	88/23328	0.0001	0.00104
BP	GO:2000117	negative regulation of cysteine-type endopeptidase activity	4/60	91/23328	0.0001	0.00114
BP	GO:0043535	regulation of blood vessel endothelial cell migration	4/60	94/23328	0.0001	0.00124
BP	GO:1904035	regulation of epithelial cell apoptotic process	4/60	94/23328	0.0001	0.00124
BP	GO:2001243	negative regulation of intrinsic apoptotic signaling pathway	4/60	95/23328	0.0001	0.00124
BP	GO:0019217	regulation of fatty acid metabolic process	4/60	97/23328	0.0001	0.00124
BP	GO:0033865	nucleoside bisphosphate metabolic process	4/60	99/23328	0.0001	0.00134
BP	GO:0033875	ribonucleoside bisphosphate metabolic process	4/60	99/23328	0.0001	0.00134
BP	GO:0034032	purine nucleoside bisphosphate metabolic process	4/60	99/23328	0.0001	0.00134
BP	GO:0010595	positive regulation of endothelial cell migration	4/60	103/23328	0.0001	0.00154
BP	GO:0048661	positive regulation of smooth muscle cell proliferation	4/60	108/23328	0.0002	0.00174
BP	GO:0001676	long-chain fatty acid metabolic process	4/60	111/23328	0.0002	0.00184
BP	GO:0009636	response to toxic substance	4/60	116/23328	0.0002	0.00204
BP	GO:0006986	response to unfolded protein	4/60	117/23328	0.0002	0.00214
BP	GO:1904019	epithelial cell apoptotic process	4/60	118/23328	0.0002	0.00214
BP	GO:0043534	blood vessel endothelial cell migration	4/60	119/23328	0.0003	0.00224
BP	GO:0120254	olefinic compound metabolic process	4/60	126/23328	0.0003	0.00264
BP	GO:0008203	cholesterol metabolic process	4/60	130/23328	0.0004	0.00284
BP	GO:0071887	leukocyte apoptotic process	4/60	138/23328	0.0004	0.00344
BP	GO:0016125	sterol metabolic process	4/60	139/23328	0.0005	0.00344
BP	GO:0035966	response to topologically incorrect protein	4/60	141/23328	0.0005	0.00354
BP	GO:0010508	positive regulation of autophagy	4/60	144/23328	0.0005	0.00384
BP	GO:1903364	positive regulation of cellular protein catabolic process	4/60	145/23328	0.0005	0.00384
BP	GO:0045598	regulation of fat cell differentiation	4/60	146/23328	0.0005	0.00394

BP	GO:0010634	positive regulation of epithelial cell migration	4/60	150/23328	0.0006	0.0042	4
BP	GO:0008643	carbohydrate transport	4/60	151/23328	0.0006	0.0043	4
BP	GO:0022612	gland morphogenesis	4/60	154/23328	0.0007	0.0044	4
BP	GO:1901568	fatty acid derivative metabolic process	4/60	154/23328	0.0007	0.0044	4
BP	GO:0009267	cellular response to starvation	4/60	156/23328	0.0007	0.0045	4
BP	GO:0071248	cellular response to metal ion	4/60	156/23328	0.0007	0.0045	4
BP	GO:0045333	cellular respiration	4/60	157/23328	0.0007	0.0046	4
BP	GO:0062013	positive regulation of small molecule metabolic process	4/60	157/23328	0.0007	0.0046	4
BP	GO:0010675	regulation of cellular carbohydrate metabolic process	4/60	162/23328	0.0008	0.0050	4
BP	GO:0033135	regulation of peptidyl-serine phosphorylation	4/60	164/23328	0.0008	0.0051	4
BP	GO:0043433	negative regulation of DNA-binding transcription factor activity	4/60	164/23328	0.0008	0.0051	4
BP	GO:1905952	regulation of lipid localization	4/60	165/23328	0.0009	0.0051	4
BP	GO:0010594	regulation of endothelial cell migration	4/60	166/23328	0.0009	0.0052	4
BP	GO:2001242	regulation of intrinsic apoptotic signaling pathway	4/60	167/23328	0.0009	0.0053	4
BP	GO:0043271	negative regulation of ion transport	4/60	174/23328	0.0011	0.0058	4
BP	GO:0007612	learning	4/60	175/23328	0.0011	0.0058	4
BP	GO:0035296	regulation of tube diameter	4/60	176/23328	0.0011	0.0058	4
BP	GO:0097746	regulation of blood vessel diameter	4/60	176/23328	0.0011	0.0058	4
BP	GO:0035150	regulation of tube size	4/60	177/23328	0.0011	0.0059	4
BP	GO:0010951	negative regulation of endopeptidase activity	4/60	182/23328	0.0012	0.0064	4
BP	GO:0043122	regulation of I-kappaB kinase/NF-kappaB signaling	4/60	185/23328	0.0013	0.0066	4
BP	GO:0031669	cellular response to nutrient levels	4/60	188/23328	0.0014	0.0069	4
BP	GO:0045766	positive regulation of angiogenesis	4/60	188/23328	0.0014	0.0069	4
BP	GO:0050796	regulation of insulin secretion	4/60	190/23328	0.0015	0.0070	4
BP	GO:0042445	hormone metabolic process	4/60	196/23328	0.0016	0.0077	4
BP	GO:0016051	carbohydrate biosynthetic process	4/60	197/23328	0.0017	0.0078	4

BP	GO:0030308	negative regulation of cell growth	4/60	199/23328	0.0017	0.0080	4
BP	GO:0006006	glucose metabolic process	4/60	202/23328	0.0018	0.0083	4
BP	GO:0016236	macroautophagy	4/60	205/23328	0.0019	0.0086	4
BP	GO:0030522	intracellular receptor signaling pathway	4/60	207/23328	0.0020	0.0088	4
BP	GO:2000377	regulation of reactive oxygen species metabolic process	4/60	207/23328	0.0020	0.0088	4
BP	GO:1904018	positive regulation of vasculature development	4/60	208/23328	0.0020	0.0088	4
BP	GO:0043281	regulation of cysteine-type endopeptidase activity involved in apoptotic process	4/60	209/23328	0.0021	0.0088	4
BP	GO:0050866	negative regulation of cell activation	4/60	210/23328	0.0021	0.0089	4
BP	GO:0007249	I-kappaB kinase/NF-kappaB signaling	4/60	215/23328	0.0023	0.0095	4
BP	GO:0070374	positive regulation of ERK1 and ERK2 cascade	4/60	216/23328	0.0023	0.0097	4
BP	GO:0030595	leukocyte chemotaxis	4/60	219/23328	0.0024	0.0100	4
BP	GO:0097529	myeloid leukocyte migration	4/60	219/23328	0.0024	0.0100	4
BP	GO:1903039	positive regulation of leukocyte cell-cell adhesion	4/60	221/23328	0.0025	0.0102	4
BP	GO:0045732	positive regulation of protein catabolic process	4/60	222/23328	0.0026	0.0103	4
BP	GO:0003018	vascular process in circulatory system	4/60	224/23328	0.0027	0.0105	4
BP	GO:0050920	regulation of chemotaxis	4/60	224/23328	0.0027	0.0105	4
BP	GO:1901617	organic hydroxy compound biosynthetic process	4/60	225/23328	0.0027	0.0106	4
BP	GO:0071241	cellular response to inorganic substance	4/60	227/23328	0.0028	0.0108	4
BP	GO:0030073	insulin secretion	4/60	229/23328	0.0029	0.0109	4
BP	GO:0019318	hexose metabolic process	4/60	231/23328	0.0030	0.0111	4
BP	GO:2000116	regulation of cysteine-type endopeptidase activity	4/60	234/23328	0.0031	0.0115	4
BP	GO:0010632	regulation of epithelial cell migration	4/60	235/23328	0.0031	0.0116	4
BP	GO:0090276	regulation of peptide hormone secretion	4/60	235/23328	0.0031	0.0116	4
BP	GO:0010466	negative regulation of peptidase activity	4/60	246/23328	0.0037	0.0131	4

BP	GO:0031330	negative regulation of cellular catabolic process	4/60	250/23328	0.0039	0.0137	4
BP	GO:1903362	regulation of cellular protein catabolic process	4/60	254/23328	0.0042	0.0143	4
BP	GO:0001818	negative regulation of cytokine production	4/60	260/23328	0.0045	0.0153	4
BP	GO:0043588	skin development	4/60	275/23328	0.0055	0.0176	4
BP	GO:0002366	leukocyte activation involved in immune response	4/60	285/23328	0.0062	0.0193	4
BP	GO:0030072	peptide hormone secretion	4/60	285/23328	0.0062	0.0193	4
BP	GO:0009615	response to virus	4/60	286/23328	0.0063	0.0194	4
BP	GO:0002263	cell activation involved in immune response	4/60	289/23328	0.0065	0.0199	4
BP	GO:0009416	response to light stimulus	4/60	298/23328	0.0073	0.0216	4
BP	GO:0007611	learning or memory	4/60	299/23328	0.0073	0.0216	4
BP	GO:0046883	regulation of hormone secretion	4/60	303/23328	0.0077	0.0224	4
BP	GO:1903037	regulation of leukocyte cell-cell adhesion	4/60	309/23328	0.0082	0.0233	4
BP	GO:0044282	small molecule catabolic process	4/60	320/23328	0.0093	0.0248	4
BP	GO:0045765	regulation of angiogenesis	4/60	320/23328	0.0093	0.0248	4
BP	GO:0050863	regulation of T cell activation	4/60	321/23328	0.0094	0.0250	4
BP	GO:0016042	lipid catabolic process	4/60	324/23328	0.0097	0.0255	4
BP	GO:0018105	peptidyl-serine phosphorylation	4/60	331/23328	0.0104	0.0270	4
BP	GO:0043434	response to peptide hormone	4/60	336/23328	0.0109	0.0280	4
BP	GO:0050890	cognition	4/60	336/23328	0.0109	0.0280	4
BP	GO:0007159	leukocyte cell-cell adhesion	4/60	345/23328	0.0120	0.0301	4
BP	GO:0052548	regulation of endopeptidase activity	4/60	346/23328	0.0121	0.0303	4
BP	GO:0051222	positive regulation of protein transport	4/60	348/23328	0.0123	0.0308	4
BP	GO:0045861	negative regulation of proteolysis	4/60	350/23328	0.0126	0.0311	4
BP	GO:0006417	regulation of translation	4/60	355/23328	0.0132	0.0321	4
BP	GO:0050806	positive regulation of synaptic transmission	4/60	355/23328	0.0132	0.0321	4
BP	GO:1901342	regulation of vasculature development	4/60	356/23328	0.0133	0.0323	4
BP	GO:0018209	peptidyl-serine modification	4/60	357/23328	0.0134	0.0325	4
BP	GO:0050900	leukocyte migration	4/60	360/23328	0.0138	0.0330	4

BP	GO:1904062	regulation of cation transmembrane transport	4/60	361/23328	0.0139	0.0332	4
BP	GO:0046879	hormone secretion	4/60	364/23328	0.0143	0.0337	4
BP	GO:1904951	positive regulation of establishment of protein localization	4/60	364/23328	0.0143	0.0337	4
BP	GO:0050708	regulation of protein secretion transmembrane receptor protein	4/60	365/23328	0.0145	0.0337	4
BP	GO:0007178	serine/threonine kinase signaling pathway	4/60	368/23328	0.0149	0.0344	4
BP	GO:1902903	regulation of supramolecular fiber organization	4/60	370/23328	0.0151	0.0350	4
BP	GO:0010976	positive regulation of neuron projection development	4/60	372/23328	0.0154	0.0355	4
BP	GO:0050678	regulation of epithelial cell proliferation	4/60	372/23328	0.0154	0.0355	4
BP	GO:0044403	symbiotic process	4/60	374/23328	0.0157	0.0359	4
BP	GO:0010721	negative regulation of cell development	4/60	387/23328	0.0175	0.0393	4
BP	GO:0051346	negative regulation of hydrolase activity	4/60	405/23328	0.0204	0.0441	4
BP	GO:0002791	regulation of peptide secretion	4/60	406/23328	0.0205	0.0444	4
BP	GO:0030098	lymphocyte differentiation	4/60	409/23328	0.0210	0.0452	4
BP	GO:0032535	regulation of cellular component size	4/60	413/23328	0.0217	0.0460	4
BP	GO:0007517	muscle organ development	4/60	420/23328	0.0229	0.0483	4
BP	GO:0052547	regulation of peptidase activity	4/60	421/23328	0.0231	0.0483	4
BP	GO:0060249	anatomical structure homeostasis	4/60	422/23328	0.0233	0.0486	4
BP	GO:0050673	epithelial cell proliferation	4/60	438/23328	0.0262	0.0515	4
BP	GO:0045860	positive regulation of protein kinase activity	4/60	440/23328	0.0266	0.0520	4
BP	GO:0071900	regulation of protein serine/threonine kinase activity	4/60	442/23328	0.0270	0.0525	4
BP	GO:0042391	regulation of membrane potential	4/60	450/23328	0.0286	0.0535	4
BP	GO:0045786	negative regulation of cell cycle	4/60	451/23328	0.0288	0.0538	4
BP	GO:0070838	divalent metal ion transport	4/60	467/23328	0.0321	0.0553	4
BP	GO:0009306	protein secretion	4/60	470/23328	0.0327	0.0553	4
BP	GO:0072511	divalent inorganic cation transport	4/60	470/23328	0.0327	0.0553	4

BP	GO:0035592	establishment of protein localization to extracellular region	4/60	471/23328	0.0330	0.0553	4
BP	GO:0031346	positive regulation of cell projection organization	4/60	478/23328	0.0345	0.0566	4
BP	GO:0071692	protein localization to extracellular region	4/60	478/23328	0.0345	0.0566	4
BP	GO:0034765	regulation of ion transmembrane transport	4/60	489/23328	0.0370	0.0583	4
CC	GO:0005901	caveola	4/61	97/23271	0.0001	0.0040	4
CC	GO:0044853	plasma membrane raft	4/61	130/23271	0.0004	0.0095	4
CC	GO:0031253	cell projection membrane	4/61	304/23271	0.0083	0.0566	4
CC	GO:0045121	membrane raft	4/61	379/23271	0.0174	0.0842	4
CC	GO:0098857	membrane microdomain	4/61	380/23271	0.0176	0.0842	4
CC	GO:0098589	membrane region	4/61	393/23271	0.0196	0.0866	4
MF	GO:0016702	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen	4/58	28/22669	0.0000	0.0001	4
MF	GO:0016701	oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	4/58	29/22669	0.0000	0.0001	4
MF	GO:0051213	dioxygenase activity	4/58	92/22669	0.0001	0.0044	4
MF	GO:0005319	lipid transporter activity	4/58	138/22669	0.0004	0.0103	4
MF	GO:0016874	ligase activity	4/58	163/22669	0.0008	0.0132	4
MF	GO:0005506	iron ion binding	4/58	167/22669	0.0009	0.0132	4
MF	GO:0031406	carboxylic acid binding	4/58	226/22669	0.0027	0.0166	4
MF	GO:0043177	organic acid binding	4/58	241/22669	0.0034	0.0197	4
MF	GO:0061629	RNA polymerase II-specific DNA-binding transcription factor binding	4/58	284/22669	0.0060	0.0311	4
MF	GO:0042277	peptide binding	4/58	318/22669	0.0089	0.0373	4
MF	GO:0001227	DNA-binding transcription repressor activity, RNA polymerase II-specific	4/58	344/22669	0.0116	0.0435	4
MF	GO:0001217	DNA-binding transcription repressor activity	4/58	345/22669	0.0117	0.0435	4
MF	GO:0140297	DNA-binding transcription factor binding	4/58	365/22669	0.0142	0.0506	4
BP	GO:0006750	glutathione biosynthetic process	3/60	12/23328	0.0000	0.0001	3

BP	GO:0001781	neutrophil apoptotic process	3/60	13/23328	0.0000	0.0002	3
BP	GO:0019184	nonribosomal peptide biosynthetic process	3/60	14/23328	0.0000	0.0002	3
BP	GO:0072350	tricarboxylic acid metabolic process	3/60	15/23328	0.0000	0.0002	3
BP	GO:0090594	inflammatory response to wounding	3/60	15/23328	0.0000	0.0002	3
BP	GO:0032495	response to muramyl dipeptide	3/60	20/23328	0.0000	0.0004	3
BP	GO:0010039	response to iron ion	3/60	21/23328	0.0000	0.0004	3
BP	GO:0034114	regulation of heterotypic cell-cell adhesion	3/60	25/23328	0.0000	0.0006	3
BP	GO:0001780	neutrophil homeostasis	3/60	26/23328	0.0000	0.0007	3
BP	GO:0010575	positive regulation of vascular endothelial growth factor production	3/60	26/23328	0.0000	0.0007	3
BP	GO:0006925	inflammatory cell apoptotic process	3/60	27/23328	0.0000	0.0007	3
BP	GO:0042908	xenobiotic transport	3/60	27/23328	0.0000	0.0007	3
BP	GO:0006536	glutamate metabolic process	3/60	28/23328	0.0001	0.0008	3
BP	GO:0006099	tricarboxylic acid cycle	3/60	32/23328	0.0001	0.0009	3
BP	GO:0010574	regulation of vascular endothelial growth factor production	3/60	32/23328	0.0001	0.0009	3
BP	GO:0120255	olefinic compound biosynthetic process	3/60	34/23328	0.0001	0.0011	3
BP	GO:0010573	vascular endothelial growth factor production	3/60	36/23328	0.0001	0.0012	3
BP	GO:0001782	B cell homeostasis	3/60	37/23328	0.0001	0.0013	3
BP	GO:0033028	myeloid cell apoptotic process	3/60	39/23328	0.0001	0.0014	3
BP	GO:0042398	cellular modified amino acid biosynthetic process	3/60	39/23328	0.0001	0.0014	3
BP	GO:0042304	regulation of fatty acid biosynthetic process	3/60	43/23328	0.0002	0.0018	3
BP	GO:0089718	amino acid import across plasma membrane	3/60	45/23328	0.0002	0.0020	3
BP	GO:0006636	unsaturated fatty acid biosynthetic process	3/60	46/23328	0.0002	0.0020	3
BP	GO:0043618	regulation of transcription from RNA polymerase II promoter in response to stress	3/60	46/23328	0.0002	0.0020	3
BP	GO:0006110	regulation of glycolytic process	3/60	48/23328	0.0003	0.0022	3
BP	GO:0043090	amino acid import	3/60	49/23328	0.0003	0.0023	3

		regulation of extrinsic apoptotic signaling pathway via death domain receptors				
BP	GO:1902041		3/60	49/23328	0.0003	0.0023 3
		L-alpha-amino acid transmembrane transport				
BP	GO:1902475		3/60	50/23328	0.0003	0.0024 3
		negative regulation of oxidative stress-induced cell death				
BP	GO:1903202		3/60	52/23328	0.0003	0.0027 3
		regulation of gluconeogenesis				
BP	GO:0006111		3/60	53/23328	0.0003	0.0028 3
		negative regulation of cellular response to oxidative stress				
BP	GO:1900408		3/60	53/23328	0.0003	0.0028 3
		heterotypic cell-cell adhesion				
BP	GO:0034113		3/60	54/23328	0.0004	0.0029 3
		negative regulation of response to oxidative stress				
BP	GO:1902883		3/60	56/23328	0.0004	0.0032 3
		export across plasma membrane				
BP	GO:0140115		3/60	57/23328	0.0004	0.0033 3
		regulation of carbohydrate catabolic process				
BP	GO:0043470		3/60	58/23328	0.0005	0.0034 3
		glutamine family amino acid metabolic process				
BP	GO:0009064		3/60	64/23328	0.0006	0.0042 3
		L-amino acid transport				
BP	GO:0015807		3/60	65/23328	0.0006	0.0043 3
		fatty acid derivative biosynthetic process				
BP	GO:1901570		3/60	67/23328	0.0007	0.0045 3
		autophagy of mitochondrion				
BP	GO:0000422		3/60	68/23328	0.0007	0.0046 3
		endoplasmic reticulum unfolded protein response				
BP	GO:0030968		3/60	68/23328	0.0007	0.0046 3
		mitochondrion disassembly				
BP	GO:0061726		3/60	68/23328	0.0007	0.0046 3
		arachidonic acid metabolic process				
BP	GO:0019369		3/60	70/23328	0.0008	0.0049 3
		negative regulation of autophagy				
BP	GO:0010507		3/60	75/23328	0.0010	0.0056 3
		regulation of protein import into nucleus				
BP	GO:0042306		3/60	75/23328	0.0010	0.0056 3
		negative regulation of protein ubiquitination				
BP	GO:0031397		3/60	77/23328	0.0010	0.0058 3
		regulation of oxidative stress-induced cell death				
BP	GO:1903201		3/60	77/23328	0.0010	0.0058 3
		extrinsic apoptotic signaling pathway via death domain receptors				
BP	GO:0008625		3/60	78/23328	0.0011	0.0058 3
		regulation of interleukin-1 beta production				
BP	GO:0032651		3/60	80/23328	0.0012	0.0061 3
		regulation of purine nucleotide metabolic process				
BP	GO:1900542		3/60	80/23328	0.0012	0.0061 3

BP	GO:0006140	regulation of nucleotide metabolic process	3/60	81/23328	0.0012	0.0062	3
BP	GO:1904589	regulation of protein import	3/60	81/23328	0.0012	0.0062	3
BP	GO:0015914	phospholipid transport	3/60	82/23328	0.0012	0.0064	3
BP	GO:0003333	amino acid transmembrane transport	3/60	83/23328	0.0013	0.0065	3
BP	GO:1901379	regulation of potassium ion transmembrane transport	3/60	86/23328	0.0014	0.0070	3
BP	GO:0034620	cellular response to unfolded protein	3/60	88/23328	0.0015	0.0073	3
BP	GO:0070301	cellular response to hydrogen peroxide	3/60	89/23328	0.0016	0.0075	3
BP	GO:0032611	interleukin-1 beta production	3/60	91/23328	0.0017	0.0078	3
BP	GO:1900407	regulation of cellular response to oxidative stress	3/60	91/23328	0.0017	0.0078	3
BP	GO:0006096	glycolytic process	3/60	92/23328	0.0017	0.0080	3
BP	GO:0006757	ATP generation from ADP	3/60	93/23328	0.0018	0.0082	3
BP	GO:0015908	fatty acid transport	3/60	94/23328	0.0018	0.0084	3
BP	GO:1903578	regulation of ATP metabolic process	3/60	96/23328	0.0020	0.0087	3
BP	GO:0032652	regulation of interleukin-1 production	3/60	98/23328	0.0021	0.0088	3
BP	GO:0036473	cell death in response to oxidative stress	3/60	98/23328	0.0021	0.0088	3
BP	GO:1903008	organelle disassembly	3/60	98/23328	0.0021	0.0088	3
BP	GO:0046031	ADP metabolic process	3/60	99/23328	0.0021	0.0090	3
BP	GO:0062014	negative regulation of small molecule metabolic process	3/60	99/23328	0.0021	0.0090	3
BP	GO:0046889	positive regulation of lipid biosynthetic process	3/60	100/23328	0.0022	0.0092	3
BP	GO:1902882	regulation of response to oxidative stress	3/60	100/23328	0.0022	0.0092	3
BP	GO:0015748	organophosphate ester transport	3/60	103/23328	0.0024	0.0098	3
BP	GO:0009135	purine nucleoside diphosphate metabolic process	3/60	104/23328	0.0024	0.0100	3
BP	GO:0009179	purine ribonucleoside diphosphate metabolic process	3/60	104/23328	0.0024	0.0100	3
BP	GO:1905954	positive regulation of lipid localization	3/60	105/23328	0.0025	0.0102	3
BP	GO:0000041	transition metal ion transport	3/60	106/23328	0.0026	0.0103	3
BP	GO:0006165	nucleoside diphosphate phosphorylation	3/60	106/23328	0.0026	0.0103	3

BP	GO:0009185	ribonucleoside diphosphate metabolic process	3/60	108/23328	0.0027	0.0106	3
BP	GO:0043255	regulation of carbohydrate biosynthetic process	3/60	108/23328	0.0027	0.0106	3
BP	GO:0043266	regulation of potassium ion transport	3/60	108/23328	0.0027	0.0106	3
BP	GO:0046939	nucleotide phosphorylation	3/60	108/23328	0.0027	0.0106	3
BP	GO:0002526	acute inflammatory response	3/60	110/23328	0.0029	0.0109	3
BP	GO:0032612	interleukin-1 production	3/60	110/23328	0.0029	0.0109	3
BP	GO:0035967	cellular response to topologically incorrect protein	3/60	110/23328	0.0029	0.0109	3
BP	GO:2000106	regulation of leukocyte apoptotic process	3/60	110/23328	0.0029	0.0109	3
BP	GO:0008630	intrinsic apoptotic signaling pathway in response to DNA damage	3/60	111/23328	0.0029	0.0111	3
BP	GO:1904659	glucose transmembrane transport	3/60	111/23328	0.0029	0.0111	3
BP	GO:0008645	hexose transmembrane transport	3/60	112/23328	0.0030	0.0113	3
BP	GO:0015749	monosaccharide transmembrane transport	3/60	114/23328	0.0032	0.0117	3
BP	GO:0034219	carbohydrate transmembrane transport	3/60	115/23328	0.0033	0.0119	3
BP	GO:0006090	pyruvate metabolic process	3/60	120/23328	0.0037	0.0130	3
BP	GO:0033559	unsaturated fatty acid metabolic process	3/60	120/23328	0.0037	0.0130	3
BP	GO:0002688	regulation of leukocyte chemotaxis	3/60	121/23328	0.0038	0.0132	3
BP	GO:0009132	nucleoside diphosphate metabolic process	3/60	123/23328	0.0039	0.0137	3
BP	GO:1903409	reactive oxygen species biosynthetic process	3/60	125/23328	0.0041	0.0142	3
BP	GO:0046822	regulation of nucleocytoplasmic transport	3/60	126/23328	0.0042	0.0145	3
BP	GO:0010906	regulation of glucose metabolic process	3/60	128/23328	0.0044	0.0151	3
BP	GO:0006690	icosanoid metabolic process	3/60	129/23328	0.0045	0.0153	3
BP	GO:0033138	positive regulation of peptidyl- serine phosphorylation	3/60	129/23328	0.0045	0.0153	3
BP	GO:0032368	regulation of lipid transport	3/60	130/23328	0.0046	0.0155	3
BP	GO:0048640	negative regulation of developmental growth	3/60	131/23328	0.0047	0.0157	3

BP	GO:0045995	regulation of embryonic development	3/60	134/23328	0.0050	0.0165	3
BP	GO:0043467	regulation of generation of precursor metabolites and energy	3/60	135/23328	0.0051	0.0167	3
BP	GO:1900180	regulation of protein localization to nucleus	3/60	139/23328	0.0055	0.0177	3
BP	GO:0016052	carbohydrate catabolic process	3/60	142/23328	0.0059	0.0185	3
BP	GO:0035270	endocrine system development	3/60	147/23328	0.0065	0.0199	3
BP	GO:0034101	erythrocyte homeostasis	3/60	149/23328	0.0067	0.0204	3
BP	GO:0034614	cellular response to reactive oxygen species	3/60	150/23328	0.0068	0.0206	3
BP	GO:0050729	positive regulation of inflammatory response	3/60	152/23328	0.0071	0.0211	3
BP	GO:0002821	positive regulation of adaptive immune response	3/60	154/23328	0.0073	0.0216	3
BP	GO:0006457	protein folding	3/60	155/23328	0.0075	0.0218	3
BP	GO:0034250	positive regulation of cellular amide metabolic process	3/60	158/23328	0.0079	0.0227	3
BP	GO:0050777	negative regulation of immune response	3/60	158/23328	0.0079	0.0227	3
BP	GO:0002700	regulation of production of molecular mediator of immune response	3/60	159/23328	0.0080	0.0228	3
BP	GO:0009266	response to temperature stimulus	3/60	159/23328	0.0080	0.0228	3
BP	GO:0045580	regulation of T cell differentiation	3/60	159/23328	0.0080	0.0228	3
BP	GO:0006694	steroid biosynthetic process	3/60	161/23328	0.0083	0.0233	3
BP	GO:0006865	amino acid transport	3/60	162/23328	0.0084	0.0237	3
BP	GO:0045017	glycerolipid biosynthetic process	3/60	164/23328	0.0087	0.0242	3
BP	GO:0006606	protein import into nucleus	3/60	165/23328	0.0089	0.0242	3
BP	GO:0051147	regulation of muscle cell differentiation	3/60	165/23328	0.0089	0.0242	3
BP	GO:0007596	blood coagulation	3/60	166/23328	0.0090	0.0245	3
BP	GO:0045834	positive regulation of lipid metabolic process	3/60	167/23328	0.0091	0.0246	3
BP	GO:0007599	hemostasis	3/60	168/23328	0.0093	0.0248	3
BP	GO:0050817	coagulation	3/60	169/23328	0.0094	0.0250	3
BP	GO:0051170	import into nucleus	3/60	169/23328	0.0094	0.0250	3

BP	GO:0071356	cellular response to tumor necrosis factor	3/60	169/23328	0.0094	0.0250	3
BP	GO:0008654	phospholipid biosynthetic process	3/60	172/23328	0.0099	0.0258	3
BP	GO:0007033	vacuole organization	3/60	174/23328	0.0102	0.0266	3
BP	GO:0015718	monocarboxylic acid transport	3/60	174/23328	0.0102	0.0266	3
BP	GO:0007369	gastrulation	3/60	176/23328	0.0105	0.0272	3
BP	GO:0032388	positive regulation of intracellular transport	3/60	184/23328	0.0119	0.0299	3
BP	GO:0034612	response to tumor necrosis factor	3/60	188/23328	0.0126	0.0311	3
BP	GO:0002695	negative regulation of leukocyte activation	3/60	189/23328	0.0128	0.0315	3
BP	GO:0007259	receptor signaling pathway via JAK-STAT	3/60	191/23328	0.0131	0.0321	3
BP	GO:0045619	regulation of lymphocyte differentiation	3/60	192/23328	0.0133	0.0323	3
BP	GO:1903531	negative regulation of secretion by cell	3/60	193/23328	0.0135	0.0327	3
BP	GO:0048771	tissue remodeling	3/60	196/23328	0.0141	0.0333	3
BP	GO:0097696	receptor signaling pathway via STAT	3/60	196/23328	0.0141	0.0333	3
BP	GO:0002822	regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	3/60	197/23328	0.0143	0.0337	3
BP	GO:0050714	positive regulation of protein secretion	3/60	199/23328	0.0147	0.0341	3
BP	GO:0051216	cartilage development	3/60	200/23328	0.0149	0.0344	3
BP	GO:0071805	potassium ion transmembrane transport	3/60	200/23328	0.0149	0.0344	3
BP	GO:0002285	lymphocyte activation involved in immune response	3/60	203/23328	0.0154	0.0355	3
BP	GO:0050679	positive regulation of epithelial cell proliferation	3/60	208/23328	0.0165	0.0375	3
BP	GO:0002685	regulation of leukocyte migration	3/60	217/23328	0.0184	0.0409	3
BP	GO:0017038	protein import	3/60	217/23328	0.0184	0.0409	3
BP	GO:0044242	cellular lipid catabolic process	3/60	219/23328	0.0189	0.0416	3
BP	GO:0016054	organic acid catabolic process	3/60	223/23328	0.0198	0.0432	3

BP	GO:0046395	carboxylic acid catabolic process	3/60	223/23328	0.0198	0.0432	3
BP	GO:0051048	negative regulation of secretion	3/60	223/23328	0.0198	0.0432	3
BP	GO:0002793	positive regulation of peptide secretion	3/60	230/23328	0.0214	0.0460	3
BP	GO:0033157	regulation of intracellular protein transport	3/60	232/23328	0.0219	0.0465	3
BP	GO:0051607	defense response to virus	3/60	239/23328	0.0237	0.0495	3
BP	GO:0006813	potassium ion transport	3/60	240/23328	0.0239	0.0499	3
BP	GO:0030278	regulation of ossification	3/60	241/23328	0.0242	0.0503	3
BP	GO:0032147	activation of protein kinase activity	3/60	242/23328	0.0245	0.0503	3
BP	GO:0090092	regulation of transmembrane receptor protein serine/threonine kinase signaling pathway	3/60	247/23328	0.0258	0.0509	3
BP	GO:1903522	regulation of blood circulation	3/60	248/23328	0.0261	0.0513	3
BP	GO:0030258	lipid modification	3/60	250/23328	0.0266	0.0520	3
BP	GO:0046034	ATP metabolic process	3/60	253/23328	0.0274	0.0526	3
BP	GO:0071375	cellular response to peptide hormone stimulus	3/60	253/23328	0.0274	0.0526	3
BP	GO:0051403	stress-activated MAPK cascade	3/60	257/23328	0.0285	0.0535	3
BP	GO:0001894	tissue homeostasis	3/60	261/23328	0.0297	0.0541	3
BP	GO:0002703	regulation of leukocyte mediated immunity	3/60	261/23328	0.0297	0.0541	3
BP	GO:0050730	regulation of peptidyl-tyrosine phosphorylation	3/60	263/23328	0.0303	0.0541	3
BP	GO:0048588	developmental cell growth	3/60	267/23328	0.0314	0.0553	3
BP	GO:0031098	stress-activated protein kinase signaling cascade	3/60	272/23328	0.0330	0.0553	3
BP	GO:0042593	glucose homeostasis	3/60	273/23328	0.0333	0.0554	3
BP	GO:0071695	anatomical structure maturation	3/60	273/23328	0.0333	0.0554	3
BP	GO:0110053	regulation of actin filament organization	3/60	273/23328	0.0333	0.0554	3
BP	GO:0033500	carbohydrate homeostasis	3/60	274/23328	0.0336	0.0558	3
BP	GO:0061448	connective tissue development	3/60	276/23328	0.0342	0.0566	3
BP	GO:0030336	negative regulation of cell migration	3/60	278/23328	0.0348	0.0566	3
BP	GO:0031349	positive regulation of defense response	3/60	278/23328	0.0348	0.0566	3
BP	GO:0090287	regulation of cellular response to growth factor stimulus	3/60	281/23328	0.0358	0.0571	3

BP	GO:0030217	T cell differentiation	3/60	282/23328	0.0361	0.0574	3
BP	GO:0007162	negative regulation of cell adhesion	3/60	290/23328	0.0387	0.0594	3
BP	GO:2000146	negative regulation of cell motility	3/60	291/23328	0.0390	0.0594	3
BP	GO:0034504	protein localization to nucleus	3/60	293/23328	0.0397	0.0594	3
BP	GO:0071214	cellular response to abiotic stimulus	3/60	294/23328	0.0401	0.0594	3
BP	GO:0104004	cellular response to environmental stimulus	3/60	294/23328	0.0401	0.0594	3
BP	GO:0043405	regulation of MAP kinase activity	3/60	301/23328	0.0425	0.0609	3
BP	GO:0006913	nucleocytoplasmic transport	3/60	308/23328	0.0449	0.0625	3
BP	GO:0051169	nuclear transport	3/60	308/23328	0.0449	0.0625	3
BP	GO:0016032	viral process	3/60	309/23328	0.0453	0.0625	3
BP	GO:1902105	regulation of leukocyte differentiation	3/60	309/23328	0.0453	0.0625	3
BP	GO:0008544	epidermis development	3/60	313/23328	0.0468	0.0639	3
BP	GO:1903829	positive regulation of cellular protein localization	3/60	317/23328	0.0482	0.0644	3
BP	GO:0018108	peptidyl-tyrosine phosphorylation	3/60	322/23328	0.0501	0.0657	3
BP	GO:0018212	peptidyl-tyrosine modification	3/60	325/23328	0.0513	0.0669	3
BP	GO:0040013	negative regulation of locomotion	3/60	326/23328	0.0516	0.0671	3
BP	GO:0051271	negative regulation of cellular component movement	3/60	326/23328	0.0516	0.0671	3
BP	GO:0021700	developmental maturation	3/60	327/23328	0.0520	0.0671	3
BP	GO:0050768	negative regulation of neurogenesis	3/60	337/23328	0.0560	0.0693	3
BP	GO:0042063	gliogenesis	3/60	338/23328	0.0564	0.0696	3
BP	GO:0045862	positive regulation of proteolysis	3/60	344/23328	0.0588	0.0714	3
BP	GO:0046486	glycerolipid metabolic process	3/60	360/23328	0.0655	0.0757	3
BP	GO:0002440	production of molecular mediator of immune response	3/60	361/23328	0.0660	0.0760	3
BP	GO:0032956	regulation of actin cytoskeleton organization	3/60	361/23328	0.0660	0.0760	3
BP	GO:0048167	regulation of synaptic plasticity	3/60	365/23328	0.0677	0.0764	3
BP	GO:0051961	negative regulation of nervous system development	3/60	365/23328	0.0677	0.0764	3
BP	GO:0043010	camera-type eye development	3/60	370/23328	0.0699	0.0777	3

BP	GO:0006644	phospholipid metabolic process	3/60	374/23328	0.0717	0.0785	3
BP	GO:0051656	establishment of organelle localization	3/60	382/23328	0.0753	0.0806	3
BP	GO:1903532	positive regulation of secretion by cell	3/60	388/23328	0.0781	0.0820	3
BP	GO:0044270	cellular nitrogen compound catabolic process	3/60	391/23328	0.0795	0.0823	3
BP	GO:0030900	forebrain development	3/60	393/23328	0.0805	0.0832	3
BP	GO:0046700	heterocycle catabolic process	3/60	397/23328	0.0824	0.0843	3
BP	GO:0042692	muscle cell differentiation	3/60	399/23328	0.0834	0.0848	3
BP	GO:0043161	proteasome-mediated ubiquitin-dependent protein catabolic process	3/60	405/23328	0.0863	0.0855	3
BP	GO:0048638	regulation of developmental growth	3/60	409/23328	0.0882	0.0871	3
BP	GO:0010256	endomembrane system organization	3/60	410/23328	0.0887	0.0871	3
BP	GO:0032970	regulation of actin filament-based process	3/60	410/23328	0.0887	0.0871	3
BP	GO:0019439	aromatic compound catabolic process	3/60	411/23328	0.0892	0.0875	3
BP	GO:0001654	eye development	3/60	418/23328	0.0927	0.0894	3
BP	GO:0006816	calcium ion transport	3/60	420/23328	0.0937	0.0897	3
BP	GO:0150063	visual system development	3/60	422/23328	0.0947	0.0905	3
BP	GO:0048880	sensory system development	3/60	426/23328	0.0968	0.0915	3
BP	GO:0007015	actin filament organization	3/60	437/23328	0.1025	0.0944	3
BP	GO:0043254	regulation of protein-containing complex assembly	3/60	438/23328	0.1030	0.0948	3
BP	GO:0051047	positive regulation of secretion adaptive immune response based on somatic recombination	3/60	440/23328	0.1041	0.0954	3
BP	GO:0002460	of immune receptors built from immunoglobulin superfamily domains	3/60	445/23328	0.1067	0.0964	3
BP	GO:0010498	proteasomal protein catabolic process	3/60	470/23328	0.1204	0.1042	3
BP	GO:0048608	reproductive structure development	3/60	477/23328	0.1244	0.1061	3
BP	GO:0002696	positive regulation of leukocyte activation	3/60	479/23328	0.1255	0.1062	3
BP	GO:0061458	reproductive system development	3/60	481/23328	0.1267	0.1070	3

BP	GO:0015672	monovalent inorganic cation transport	3/60	489/23328	0.1313	0.1088	3
BP	GO:0050867	positive regulation of cell activation	3/60	496/23328	0.1353	0.1106	3
CC	GO:0000407	phagophore assembly site	3/61	29/23271	0.0001	0.0026	3
CC	GO:0030018	Z disc	3/61	125/23271	0.0043	0.0482	3
CC	GO:0031674	I band	3/61	138/23271	0.0057	0.0510	3
CC	GO:0005777	peroxisome	3/61	145/23271	0.0065	0.0510	3
CC	GO:0042579	microbody	3/61	145/23271	0.0065	0.0510	3
CC	GO:0030496	midbody	3/61	147/23271	0.0068	0.0510	3
CC	GO:0030017	sarcomere	3/61	188/23271	0.0133	0.0817	3
CC	GO:0019867	outer membrane	3/61	196/23271	0.0148	0.0834	3
CC	GO:0031968	organelle outer membrane	3/61	196/23271	0.0148	0.0834	3
CC	GO:0030016	myofibril	3/61	212/23271	0.0182	0.0842	3
CC	GO:0043292	contractile fiber	3/61	226/23271	0.0215	0.0899	3
CC	GO:0008021	synaptic vesicle	3/61	239/23271	0.0249	0.0959	3
CC	GO:0070382	exocytic vesicle	3/61	261/23271	0.0312	0.0961	3
CC	GO:0019898	extrinsic component of membrane	3/61	320/23271	0.0517	0.1286	3
CC	GO:0030133	transport vesicle	3/61	339/23271	0.0594	0.1296	3
CC	GO:0031252	cell leading edge	3/61	395/23271	0.0851	0.1537	3
CC	GO:0043235	receptor complex	3/61	403/23271	0.0891	0.1537	3
CC	GO:0097060	synaptic membrane	3/61	470/23271	0.1255	0.1847	3
CC	GO:0015629	actin cytoskeleton	3/61	497/23271	0.1416	0.2036	3
MF	GO:0042910	xenobiotic transmembrane transporter activity	3/58	26/22669	0.0000	0.0025	3
MF	GO:0043130	ubiquitin binding	3/58	75/22669	0.0009	0.0132	3
MF	GO:0032182	ubiquitin-like protein binding	3/58	95/22669	0.0019	0.0133	3
MF	GO:0031072	heat shock protein binding	3/58	146/22669	0.0062	0.0311	3
MF	GO:0019887	protein kinase regulator activity	3/58	170/22669	0.0095	0.0387	3
MF	GO:0019207	kinase regulator activity	3/58	202/22669	0.0150	0.0518	3
MF	GO:0005125	cytokine activity	3/58	231/22669	0.0214	0.0675	3
MF	GO:0016746	transferase activity, transferring acyl groups	3/58	268/22669	0.0313	0.0763	3
MF	GO:0005126	cytokine receptor binding	3/58	314/22669	0.0465	0.0869	3
BP	GO:0015911	long-chain fatty acid import across plasma membrane	2/60	10/23328	0.0003	0.0024	2
BP	GO:0033029	regulation of neutrophil apoptotic process	2/60	10/23328	0.0003	0.0024	2
BP	GO:0019372	lipxygenase pathway	2/60	11/23328	0.0004	0.0028	2

BP	GO:0043619	regulation of transcription from RNA polymerase II promoter in response to oxidative stress	2/60	11/23328	0.0004	0.0028	2
BP	GO:0097421	liver regeneration	2/60	12/23328	0.0004	0.0033	2
BP	GO:0070431	nucleotide-binding oligomerization domain containing 2 signaling pathway	2/60	13/23328	0.0005	0.0036	2
BP	GO:0071281	cellular response to iron ion	2/60	13/23328	0.0005	0.0036	2
BP	GO:0006857	oligopeptide transport	2/60	14/23328	0.0006	0.0041	2
BP	GO:0034116	positive regulation of heterotypic cell-cell adhesion	2/60	14/23328	0.0006	0.0041	2
BP	GO:0070423	nucleotide-binding oligomerization domain containing signaling pathway	2/60	14/23328	0.0006	0.0041	2
BP	GO:1902001	fatty acid transmembrane transport	2/60	14/23328	0.0006	0.0041	2
BP	GO:0010715	regulation of extracellular matrix disassembly	2/60	15/23328	0.0007	0.0044	2
BP	GO:0035872	nucleotide-binding domain, leucine rich repeat containing receptor signaling pathway	2/60	15/23328	0.0007	0.0044	2
BP	GO:0044068	modulation by symbiont of host cellular process	2/60	16/23328	0.0008	0.0048	2
BP	GO:0002689	negative regulation of leukocyte chemotaxis	2/60	17/23328	0.0009	0.0051	2
BP	GO:0034755	iron ion transmembrane transport	2/60	17/23328	0.0009	0.0051	2
BP	GO:0035729	cellular response to hepatocyte growth factor stimulus	2/60	17/23328	0.0009	0.0051	2
BP	GO:1902176	negative regulation of oxidative stress-induced intrinsic apoptotic signaling pathway	2/60	17/23328	0.0009	0.0051	2
BP	GO:0032740	positive regulation of interleukin-17 production	2/60	18/23328	0.0010	0.0056	2
BP	GO:0045779	negative regulation of bone resorption	2/60	18/23328	0.0010	0.0056	2
BP	GO:0035728	response to hepatocyte growth factor	2/60	19/23328	0.0011	0.0058	2
BP	GO:0044539	long-chain fatty acid import into cell	2/60	19/23328	0.0011	0.0058	2
BP	GO:0045540	regulation of cholesterol biosynthetic process	2/60	19/23328	0.0011	0.0058	2

BP	GO:0060099	regulation of phagocytosis, engulfment	2/60	19/23328	0.0011	0.0058	2
BP	GO:0106118	regulation of sterol biosynthetic process	2/60	19/23328	0.0011	0.0058	2
BP	GO:0140354	lipid import into cell	2/60	19/23328	0.0011	0.0058	2
BP	GO:0045722	positive regulation of gluconeogenesis	2/60	20/23328	0.0012	0.0062	2
BP	GO:0046851	negative regulation of bone remodeling	2/60	20/23328	0.0012	0.0062	2
BP	GO:1905153	regulation of membrane invagination	2/60	20/23328	0.0012	0.0062	2
BP	GO:0035357	peroxisome proliferator activated receptor signaling pathway	2/60	21/23328	0.0013	0.0066	2
BP	GO:0042759	long-chain fatty acid biosynthetic process	2/60	21/23328	0.0013	0.0066	2
BP	GO:0046716	muscle cell cellular homeostasis	2/60	21/23328	0.0013	0.0066	2
BP	GO:0051900	regulation of mitochondrial depolarization	2/60	21/23328	0.0013	0.0066	2
BP	GO:0090050	positive regulation of cell migration involved in sprouting angiogenesis	2/60	21/23328	0.0013	0.0066	2
BP	GO:0043651	linoleic acid metabolic process	2/60	22/23328	0.0015	0.0070	2
BP	GO:0098780	response to mitochondrial depolarisation	2/60	22/23328	0.0015	0.0070	2
BP	GO:1901522	positive regulation of transcription from RNA polymerase II promoter	2/60	22/23328	0.0015	0.0070	2
BP	GO:1904996	involved in cellular response to chemical stimulus positive regulation of leukocyte adhesion to vascular endothelial cell	2/60	22/23328	0.0015	0.0070	2
BP	GO:0002313	mature B cell differentiation involved in immune response	2/60	23/23328	0.0016	0.0075	2
BP	GO:0036003	positive regulation of transcription from RNA polymerase II promoter in response to stress	2/60	23/23328	0.0016	0.0075	2
BP	GO:0071276	cellular response to cadmium ion	2/60	23/23328	0.0016	0.0075	2
BP	GO:0051882	mitochondrial depolarization	2/60	24/23328	0.0017	0.0080	2

BP	GO:0070498	interleukin-1-mediated signaling pathway	2/60	24/23328	0.0017	0.0080	2
BP	GO:1903204	negative regulation of oxidative stress-induced neuron death	2/60	24/23328	0.0017	0.0080	2
BP	GO:0000423	mitophagy	2/60	25/23328	0.0019	0.0084	2
BP	GO:0006706	steroid catabolic process	2/60	25/23328	0.0019	0.0084	2
BP	GO:0032703	negative regulation of interleukin-2 production	2/60	25/23328	0.0019	0.0084	2
BP	GO:0044003	modulation by symbiont of host process	2/60	25/23328	0.0019	0.0084	2
BP	GO:0046685	response to arsenic-containing substance	2/60	25/23328	0.0019	0.0084	2
BP	GO:0031100	animal organ regeneration	2/60	26/23328	0.0020	0.0088	2
BP	GO:0034104	negative regulation of tissue remodeling	2/60	26/23328	0.0020	0.0088	2
BP	GO:0045723	positive regulation of fatty acid biosynthetic process	2/60	26/23328	0.0020	0.0088	2
BP	GO:0072337	modified amino acid transport	2/60	26/23328	0.0020	0.0088	2
BP	GO:1902175	regulation of oxidative stress-induced intrinsic apoptotic signaling pathway	2/60	26/23328	0.0020	0.0088	2
BP	GO:2000637	positive regulation of gene silencing by miRNA	2/60	26/23328	0.0020	0.0088	2
BP	GO:0060148	positive regulation of posttranscriptional gene silencing	2/60	27/23328	0.0022	0.0092	2
BP	GO:1904994	regulation of leukocyte adhesion to vascular endothelial cell	2/60	27/23328	0.0022	0.0092	2
BP	GO:0090025	regulation of monocyte chemotaxis	2/60	28/23328	0.0024	0.0097	2
BP	GO:1900273	positive regulation of long-term synaptic potentiation	2/60	28/23328	0.0024	0.0097	2
BP	GO:0035094	response to nicotine	2/60	29/23328	0.0025	0.0102	2
BP	GO:0002335	mature B cell differentiation	2/60	30/23328	0.0027	0.0106	2
BP	GO:0032373	positive regulation of sterol transport	2/60	31/23328	0.0029	0.0109	2
BP	GO:0032376	positive regulation of cholesterol transport	2/60	31/23328	0.0029	0.0109	2
BP	GO:0072574	hepatocyte proliferation	2/60	31/23328	0.0029	0.0109	2
BP	GO:0072575	epithelial cell proliferation involved in liver morphogenesis	2/60	31/23328	0.0029	0.0109	2

BP	GO:1902042	negative regulation of extrinsic apoptotic signaling pathway via death domain receptors	2/60	31/23328	0.0029	0.0109	2
BP	GO:0071354	cellular response to interleukin-6	2/60	32/23328	0.0031	0.0114	2
BP	GO:0022617	extracellular matrix disassembly	2/60	33/23328	0.0033	0.0119	2
BP	GO:0032891	negative regulation of organic acid transport	2/60	33/23328	0.0033	0.0119	2
BP	GO:0072576	liver morphogenesis	2/60	33/23328	0.0033	0.0119	2
BP	GO:0033032	regulation of myeloid cell apoptotic process	2/60	34/23328	0.0035	0.0124	2
BP	GO:0051180	vitamin transport	2/60	34/23328	0.0035	0.0124	2
BP	GO:0070741	response to interleukin-6	2/60	34/23328	0.0035	0.0124	2
BP	GO:0071634	regulation of transforming growth factor beta production	2/60	34/23328	0.0035	0.0124	2
BP	GO:0090181	regulation of cholesterol metabolic process	2/60	34/23328	0.0035	0.0124	2
BP	GO:0032660	regulation of interleukin-17 production	2/60	35/23328	0.0037	0.0130	2
BP	GO:0046686	response to cadmium ion	2/60	35/23328	0.0037	0.0130	2
BP	GO:1903203	regulation of oxidative stress-induced neuron death	2/60	35/23328	0.0037	0.0130	2
BP	GO:0036475	neuron death in response to oxidative stress	2/60	36/23328	0.0039	0.0136	2
BP	GO:0071604	transforming growth factor beta production	2/60	36/23328	0.0039	0.0136	2
BP	GO:0002675	positive regulation of acute inflammatory response	2/60	37/23328	0.0041	0.0142	2
BP	GO:0014823	response to activity	2/60	37/23328	0.0041	0.0142	2
BP	GO:0050892	intestinal absorption	2/60	39/23328	0.0045	0.0153	2
BP	GO:0090049	regulation of cell migration involved in sprouting angiogenesis	2/60	39/23328	0.0045	0.0153	2
BP	GO:1905710	positive regulation of membrane permeability	2/60	39/23328	0.0045	0.0153	2
BP	GO:0006984	ER-nucleus signaling pathway	2/60	40/23328	0.0048	0.0159	2
BP	GO:0015804	neutral amino acid transport	2/60	40/23328	0.0048	0.0159	2
BP	GO:0002686	negative regulation of leukocyte migration	2/60	41/23328	0.0050	0.0165	2
BP	GO:0006953	acute-phase response	2/60	41/23328	0.0050	0.0165	2
BP	GO:0010470	regulation of gastrulation	2/60	41/23328	0.0050	0.0165	2
BP	GO:0072348	sulfur compound transport	2/60	42/23328	0.0052	0.0171	2

BP	GO:0002753	cytoplasmic pattern recognition receptor signaling pathway	2/60	43/23328	0.0055	0.01762
BP	GO:0032007	negative regulation of TOR signaling	2/60	43/23328	0.0055	0.01762
BP	GO:0032620	interleukin-17 production	2/60	43/23328	0.0055	0.01762
BP	GO:0042771	intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator	2/60	43/23328	0.0055	0.01762
BP	GO:1903053	regulation of extracellular matrix organization	2/60	43/23328	0.0055	0.01762
BP	GO:1903792	negative regulation of anion transport	2/60	43/23328	0.0055	0.01762
BP	GO:0008631	intrinsic apoptotic signaling pathway in response to oxidative stress	2/60	44/23328	0.0057	0.01812
BP	GO:0034198	cellular response to amino acid starvation	2/60	44/23328	0.0057	0.01812
BP	GO:0071385	cellular response to glucocorticoid stimulus	2/60	44/23328	0.0057	0.01812
BP	GO:1902895	positive regulation of pri-miRNA transcription by RNA polymerase II	2/60	44/23328	0.0057	0.01812
BP	GO:1903672	positive regulation of sprouting angiogenesis	2/60	44/23328	0.0057	0.01812
BP	GO:0010907	positive regulation of glucose metabolic process	2/60	45/23328	0.0060	0.01872
BP	GO:0042149	cellular response to glucose starvation	2/60	45/23328	0.0060	0.01872
BP	GO:0045923	positive regulation of fatty acid metabolic process	2/60	45/23328	0.0060	0.01872
BP	GO:0061756	leukocyte adhesion to vascular endothelial cell	2/60	45/23328	0.0060	0.01872
BP	GO:0003254	regulation of membrane depolarization	2/60	46/23328	0.0063	0.01942
BP	GO:0071384	cellular response to corticosteroid stimulus	2/60	46/23328	0.0063	0.01942
BP	GO:0045332	phospholipid translocation	2/60	47/23328	0.0065	0.01992
BP	GO:0060964	regulation of gene silencing by miRNA	2/60	47/23328	0.0065	0.01992
BP	GO:0072666	establishment of protein localization to vacuole	2/60	47/23328	0.0065	0.01992
BP	GO:0038066	p38MAPK cascade	2/60	48/23328	0.0068	0.02062

BP	GO:0045429	positive regulation of nitric oxide biosynthetic process	2/60	48/23328	0.0068	0.0206	2
		vascular endothelial growth					
BP	GO:0048010	factor receptor signaling pathway	2/60	48/23328	0.0068	0.0206	2
BP	GO:1990928	response to amino acid starvation	2/60	48/23328	0.0068	0.0206	2
BP	GO:0006695	cholesterol biosynthetic process	2/60	49/23328	0.0071	0.0211	2
BP	GO:0034204	lipid translocation	2/60	49/23328	0.0071	0.0211	2
BP	GO:1902653	secondary alcohol biosynthetic process	2/60	49/23328	0.0071	0.0211	2
BP	GO:1904407	positive regulation of nitric oxide metabolic process	2/60	49/23328	0.0071	0.0211	2
BP	GO:0010677	negative regulation of cellular carbohydrate metabolic process	2/60	50/23328	0.0074	0.0216	2
BP	GO:0045646	regulation of erythrocyte differentiation	2/60	50/23328	0.0074	0.0216	2
BP	GO:0060147	regulation of posttranscriptional gene silencing	2/60	50/23328	0.0074	0.0216	2
BP	GO:0060966	regulation of gene silencing by RNA	2/60	50/23328	0.0074	0.0216	2
BP	GO:0070229	negative regulation of lymphocyte apoptotic process	2/60	50/23328	0.0074	0.0216	2
BP	GO:0098754	detoxification	2/60	51/23328	0.0076	0.0223	2
BP	GO:0032731	positive regulation of interleukin-1 beta production	2/60	52/23328	0.0079	0.0227	2
BP	GO:0032757	positive regulation of interleukin-8 production	2/60	52/23328	0.0079	0.0227	2
BP	GO:0042307	positive regulation of protein import into nucleus	2/60	52/23328	0.0079	0.0227	2
BP	GO:0045124	regulation of bone resorption	2/60	52/23328	0.0079	0.0227	2
BP	GO:1904036	negative regulation of epithelial cell apoptotic process	2/60	52/23328	0.0079	0.0227	2
BP	GO:0032371	regulation of sterol transport	2/60	53/23328	0.0082	0.0233	2
BP	GO:0032374	regulation of cholesterol transport	2/60	53/23328	0.0082	0.0233	2
BP	GO:0048662	negative regulation of smooth muscle cell proliferation	2/60	53/23328	0.0082	0.0233	2
BP	GO:0046456	icosanoid biosynthetic process	2/60	54/23328	0.0085	0.0238	2
BP	GO:0061077	chaperone-mediated protein folding	2/60	54/23328	0.0085	0.0238	2

BP	GO:1900271	regulation of long-term synaptic potentiation	2/60	54/23328	0.0085	0.0238	2
BP	GO:1902930	regulation of alcohol biosynthetic process	2/60	54/23328	0.0085	0.0238	2
BP	GO:0002042	cell migration involved in sprouting angiogenesis	2/60	55/23328	0.0089	0.0242	2
BP	GO:0002673	regulation of acute inflammatory response	2/60	55/23328	0.0089	0.0242	2
BP	GO:0006826	iron ion transport	2/60	55/23328	0.0089	0.0242	2
BP	GO:0016126	sterol biosynthetic process	2/60	55/23328	0.0089	0.0242	2
BP	GO:0045912	negative regulation of carbohydrate metabolic process	2/60	55/23328	0.0089	0.0242	2
BP	GO:0050922	negative regulation of chemotaxis	2/60	55/23328	0.0089	0.0242	2
BP	GO:0097035	regulation of membrane lipid distribution	2/60	55/23328	0.0089	0.0242	2
BP	GO:2000351	regulation of endothelial cell apoptotic process	2/60	55/23328	0.0089	0.0242	2
BP	GO:0035924	cellular response to vascular endothelial growth factor stimulus	2/60	56/23328	0.0092	0.0246	2
BP	GO:0042446	hormone biosynthetic process	2/60	56/23328	0.0092	0.0246	2
BP	GO:0045599	negative regulation of fat cell differentiation	2/60	56/23328	0.0092	0.0246	2
BP	GO:0071675	regulation of mononuclear cell migration	2/60	56/23328	0.0092	0.0246	2
BP	GO:0071715	icosanoid transport	2/60	56/23328	0.0092	0.0246	2
BP	GO:1901571	fatty acid derivative transport	2/60	56/23328	0.0092	0.0246	2
BP	GO:1902893	regulation of pri-miRNA transcription by RNA polymerase II	2/60	56/23328	0.0092	0.0246	2
BP	GO:0002548	monocyte chemotaxis	2/60	57/23328	0.0095	0.0250	2
BP	GO:0051591	response to cAMP	2/60	57/23328	0.0095	0.0250	2
BP	GO:0032663	regulation of interleukin-2 production	2/60	58/23328	0.0098	0.0256	2
BP	GO:0061614	pri-miRNA transcription by RNA polymerase II	2/60	58/23328	0.0098	0.0256	2
BP	GO:0072577	endothelial cell apoptotic process	2/60	58/23328	0.0098	0.0256	2
BP	GO:1904591	positive regulation of protein import	2/60	58/23328	0.0098	0.0256	2
BP	GO:0007595	lactation	2/60	60/23328	0.0105	0.0270	2

BP	GO:0090303	positive regulation of wound healing	2/60	60/23328	0.0105	0.0270	2
BP	GO:0032732	positive regulation of interleukin-1 production	2/60	61/23328	0.0108	0.0277	2
BP	GO:0061912	selective autophagy	2/60	61/23328	0.0108	0.0277	2
BP	GO:0019080	viral gene expression	2/60	62/23328	0.0111	0.0282	2
BP	GO:0031018	endocrine pancreas development	2/60	62/23328	0.0111	0.0282	2
BP	GO:0032387	negative regulation of intracellular transport	2/60	62/23328	0.0111	0.0282	2
BP	GO:0046850	regulation of bone remodeling	2/60	62/23328	0.0111	0.0282	2
BP	GO:0072665	protein localization to vacuole	2/60	62/23328	0.0111	0.0282	2
BP	GO:0098930	axonal transport	2/60	62/23328	0.0111	0.0282	2
BP	GO:1903428	positive regulation of reactive oxygen species biosynthetic process	2/60	63/23328	0.0115	0.0290	2
BP	GO:0015909	long-chain fatty acid transport	2/60	64/23328	0.0118	0.0299	2
BP	GO:0045454	cell redox homeostasis	2/60	65/23328	0.0122	0.0305	2
BP	GO:2000514	regulation of CD4-positive, alpha-beta T cell activation	2/60	65/23328	0.0122	0.0305	2
BP	GO:0032623	interleukin-2 production	2/60	66/23328	0.0126	0.0311	2
BP	GO:0042440	pigment metabolic process	2/60	66/23328	0.0126	0.0311	2
BP	GO:0090559	regulation of membrane permeability	2/60	66/23328	0.0126	0.0311	2
BP	GO:0097006	regulation of plasma lipoprotein particle levels	2/60	66/23328	0.0126	0.0311	2
BP	GO:0000768	syncytium formation by plasma membrane fusion	2/60	67/23328	0.0129	0.0317	2
BP	GO:0010676	positive regulation of cellular carbohydrate metabolic process	2/60	67/23328	0.0129	0.0317	2
BP	GO:0140253	cell-cell fusion	2/60	67/23328	0.0129	0.0317	2
BP	GO:2000378	negative regulation of reactive oxygen species metabolic process	2/60	68/23328	0.0133	0.0323	2
BP	GO:0006949	syncytium formation	2/60	69/23328	0.0137	0.0327	2
BP	GO:0008542	visual learning	2/60	69/23328	0.0137	0.0327	2
BP	GO:0016239	positive regulation of macroautophagy	2/60	69/23328	0.0137	0.0327	2
BP	GO:0032677	regulation of interleukin-8 production	2/60	69/23328	0.0137	0.0327	2
BP	GO:0045428	regulation of nitric oxide biosynthetic process	2/60	69/23328	0.0137	0.0327	2

BP	GO:0045600	positive regulation of fat cell differentiation	2/60	69/23328	0.0137	0.0327	2
BP	GO:1990868	response to chemokine	2/60	70/23328	0.0140	0.0333	2
BP	GO:1990869	cellular response to chemokine	2/60	70/23328	0.0140	0.0333	2
BP	GO:2000107	negative regulation of leukocyte apoptotic process	2/60	70/23328	0.0140	0.0333	2
BP	GO:0007040	lysosome organization	2/60	71/23328	0.0144	0.0337	2
		regulation of tyrosine phosphorylation of STAT protein					
BP	GO:0042509	phosphorylation of STAT protein	2/60	71/23328	0.0144	0.0337	2
BP	GO:0055081	anion homeostasis	2/60	71/23328	0.0144	0.0337	2
BP	GO:0080171	lytic vacuole organization	2/60	71/23328	0.0144	0.0337	2
BP	GO:0007632	visual behavior	2/60	73/23328	0.0152	0.0351	2
BP	GO:0046824	positive regulation of nucleocytoplasmic transport	2/60	74/23328	0.0156	0.0358	2
BP	GO:0007260	tyrosine phosphorylation of STAT protein	2/60	75/23328	0.0160	0.0365	2
BP	GO:0032637	interleukin-8 production	2/60	75/23328	0.0160	0.0365	2
BP	GO:1903670	regulation of sprouting angiogenesis	2/60	75/23328	0.0160	0.0365	2
BP	GO:0006809	nitric oxide biosynthetic process	2/60	77/23328	0.0168	0.0382	2
BP	GO:0045453	bone resorption	2/60	77/23328	0.0168	0.0382	2
BP	GO:0002066	columnar/cuboidal epithelial cell development	2/60	78/23328	0.0172	0.0387	2
BP	GO:0019229	regulation of vasoconstriction	2/60	78/23328	0.0172	0.0387	2
BP	GO:0050810	regulation of steroid biosynthetic process	2/60	78/23328	0.0172	0.0387	2
BP	GO:0070228	regulation of lymphocyte apoptotic process	2/60	78/23328	0.0172	0.0387	2
BP	GO:0070373	negative regulation of ERK1 and ERK2 cascade	2/60	78/23328	0.0172	0.0387	2
BP	GO:0072332	intrinsic apoptotic signaling pathway by p53 class mediator	2/60	78/23328	0.0172	0.0387	2
BP	GO:1903036	positive regulation of response to wounding	2/60	78/23328	0.0172	0.0387	2
BP	GO:0002637	regulation of immunoglobulin production	2/60	79/23328	0.0177	0.0394	2
BP	GO:0048635	negative regulation of muscle organ development	2/60	79/23328	0.0177	0.0394	2
BP	GO:0008088	axo-dendritic transport	2/60	80/23328	0.0181	0.0403	2
BP	GO:0060968	regulation of gene silencing	2/60	80/23328	0.0181	0.0403	2
BP	GO:0046209	nitric oxide metabolic process	2/60	81/23328	0.0185	0.0409	2

BP	GO:0051881	regulation of mitochondrial membrane potential	2/60	81/23328	0.0185	0.0409	2
BP	GO:0071347	cellular response to interleukin-1	2/60	81/23328	0.0185	0.0409	2
BP	GO:0030500	regulation of bone mineralization	2/60	82/23328	0.0189	0.0416	2
BP	GO:0032370	positive regulation of lipid transport	2/60	82/23328	0.0189	0.0416	2
BP	GO:0046323	glucose import	2/60	83/23328	0.0194	0.0425	2
BP	GO:0051899	membrane depolarization	2/60	83/23328	0.0194	0.0425	2
BP	GO:0051817	modulation of process of other organism involved in symbiotic interaction	2/60	84/23328	0.0198	0.0432	2
BP	GO:0002718	regulation of cytokine production involved in immune response	2/60	85/23328	0.0203	0.0440	2
BP	GO:0030301	cholesterol transport	2/60	85/23328	0.0203	0.0440	2
BP	GO:0015918	sterol transport	2/60	86/23328	0.0207	0.0446	2
BP	GO:0031646	positive regulation of nervous system process	2/60	86/23328	0.0207	0.0446	2
BP	GO:2001057	reactive nitrogen species metabolic process	2/60	86/23328	0.0207	0.0446	2
BP	GO:0034103	regulation of tissue remodeling	2/60	87/23328	0.0212	0.0455	2
BP	GO:0002312	B cell activation involved in immune response	2/60	88/23328	0.0216	0.0460	2
BP	GO:0032436	positive regulation of proteasomal ubiquitin-dependent protein catabolic process	2/60	88/23328	0.0216	0.0460	2
BP	GO:0045913	positive regulation of carbohydrate metabolic process	2/60	88/23328	0.0216	0.0460	2
BP	GO:0046683	response to organophosphorus	2/60	88/23328	0.0216	0.0460	2
BP	GO:1900182	positive regulation of protein localization to nucleus	2/60	88/23328	0.0216	0.0460	2
BP	GO:1904063	negative regulation of cation transmembrane transport	2/60	88/23328	0.0216	0.0460	2
BP	GO:0071674	mononuclear cell migration	2/60	89/23328	0.0221	0.0467	2
BP	GO:0032024	positive regulation of insulin secretion	2/60	90/23328	0.0225	0.0476	2
BP	GO:0014015	positive regulation of gliogenesis	2/60	91/23328	0.0230	0.0483	2

BP	GO:0032890	regulation of organic acid transport	2/60	91/23328	0.0230	0.0483	2
BP	GO:0044344	cellular response to fibroblast growth factor stimulus	2/60	91/23328	0.0230	0.0483	2
BP	GO:1903524	positive regulation of blood circulation	2/60	91/23328	0.0230	0.0483	2
BP	GO:0071774	response to fibroblast growth factor	2/60	93/23328	0.0240	0.0499	2
BP	GO:0009408	response to heat	2/60	94/23328	0.0244	0.0503	2
BP	GO:0031016	pancreas development	2/60	96/23328	0.0254	0.0503	2
BP	GO:0070555	response to interleukin-1	2/60	96/23328	0.0254	0.0503	2
BP	GO:0002709	regulation of T cell mediated immunity	2/60	97/23328	0.0259	0.0511	2
BP	GO:0060395	SMAD protein signal transduction	2/60	98/23328	0.0264	0.0518	2
BP	GO:0030593	neutrophil chemotaxis	2/60	99/23328	0.0269	0.0524	2
BP	GO:0070167	regulation of biomineral tissue development	2/60	99/23328	0.0269	0.0524	2
BP	GO:0110149	regulation of biomineralization	2/60	99/23328	0.0269	0.0524	2
BP	GO:0032006	regulation of TOR signaling	2/60	100/23328	0.0274	0.0526	2
BP	GO:0050795	regulation of behavior	2/60	100/23328	0.0274	0.0526	2
BP	GO:0007041	lysosomal transport	2/60	101/23328	0.0279	0.0526	2
BP	GO:0071456	cellular response to hypoxia	2/60	101/23328	0.0279	0.0526	2
BP	GO:2000060	positive regulation of ubiquitin-dependent protein catabolic process	2/60	101/23328	0.0279	0.0526	2
BP	GO:0070227	lymphocyte apoptotic process	2/60	102/23328	0.0284	0.0534	2
BP	GO:0042310	vasoconstriction	2/60	103/23328	0.0289	0.0540	2
BP	GO:0046427	positive regulation of receptor signaling pathway via JAK-STAT	2/60	103/23328	0.0289	0.0540	2
BP	GO:0014074	response to purine-containing compound	2/60	104/23328	0.0295	0.0541	2
BP	GO:0034766	negative regulation of ion transmembrane transport	2/60	104/23328	0.0295	0.0541	2
BP	GO:0045778	positive regulation of ossification	2/60	104/23328	0.0295	0.0541	2
BP	GO:0046849	bone remodeling	2/60	104/23328	0.0295	0.0541	2
BP	GO:0048525	negative regulation of viral process	2/60	104/23328	0.0295	0.0541	2
BP	GO:0046634	regulation of alpha-beta T cell activation	2/60	105/23328	0.0300	0.0541	2

BP	GO:0035710	CD4-positive, alpha-beta T cell activation	2/60	106/23328	0.0305	0.0541	2
BP	GO:0002367	cytokine production involved in immune response	2/60	107/23328	0.0310	0.0549	2
BP	GO:1903426	regulation of reactive oxygen species biosynthetic process	2/60	107/23328	0.0310	0.0549	2
BP	GO:1904894	positive regulation of receptor signaling pathway via STAT	2/60	107/23328	0.0310	0.0549	2
BP	GO:0008306	associative learning	2/60	108/23328	0.0316	0.0553	2
BP	GO:0034754	cellular hormone metabolic process	2/60	108/23328	0.0316	0.0553	2
BP	GO:0051897	positive regulation of protein kinase B signaling	2/60	109/23328	0.0321	0.0553	2
BP	GO:0097756	negative regulation of blood vessel diameter	2/60	109/23328	0.0321	0.0553	2
BP	GO:1901800	positive regulation of proteasomal protein catabolic process	2/60	109/23328	0.0321	0.0553	2
BP	GO:0009410	response to xenobiotic stimulus	2/60	110/23328	0.0327	0.0553	2
BP	GO:0017015	regulation of transforming growth factor beta receptor signaling pathway	2/60	110/23328	0.0327	0.0553	2
BP	GO:0022600	digestive system process	2/60	110/23328	0.0327	0.0553	2
BP	GO:0008637	apoptotic mitochondrial changes	2/60	111/23328	0.0332	0.0554	2
BP	GO:0016241	regulation of macroautophagy	2/60	111/23328	0.0332	0.0554	2
BP	GO:0019218	regulation of steroid metabolic process	2/60	111/23328	0.0332	0.0554	2
BP	GO:0032963	collagen metabolic process	2/60	111/23328	0.0332	0.0554	2
BP	GO:0007589	body fluid secretion	2/60	112/23328	0.0338	0.0560	2
BP	GO:1903844	regulation of cellular response to transforming growth factor beta stimulus	2/60	112/23328	0.0338	0.0560	2
BP	GO:0001942	hair follicle development	2/60	113/23328	0.0343	0.0566	2
BP	GO:0050764	regulation of phagocytosis	2/60	113/23328	0.0343	0.0566	2
BP	GO:0034440	lipid oxidation	2/60	114/23328	0.0349	0.0566	2
BP	GO:2000379	positive regulation of reactive oxygen species metabolic process	2/60	114/23328	0.0349	0.0566	2
BP	GO:0018958	phenol-containing compound metabolic process	2/60	115/23328	0.0354	0.0566	2
BP	GO:0030216	keratinocyte differentiation	2/60	115/23328	0.0354	0.0566	2

BP	GO:0031398	positive regulation of protein ubiquitination	2/60	115/23328	0.0354	0.0566	2
BP	GO:0022404	molting cycle process	2/60	116/23328	0.0360	0.0573	2
BP	GO:0022405	hair cycle process	2/60	116/23328	0.0360	0.0573	2
BP	GO:0098773	skin epidermis development	2/60	116/23328	0.0360	0.0573	2
BP	GO:0002286	T cell activation involved in immune response	2/60	117/23328	0.0365	0.0580	2
BP	GO:0071901	negative regulation of protein serine/threonine kinase activity	2/60	117/23328	0.0365	0.0580	2
BP	GO:0032680	regulation of tumor necrosis factor production	2/60	120/23328	0.0383	0.0588	2
BP	GO:0003158	endothelium development	2/60	122/23328	0.0394	0.0594	2
BP	GO:0031929	TOR signaling	2/60	122/23328	0.0394	0.0594	2
BP	GO:1903555	regulation of tumor necrosis factor superfamily cytokine production	2/60	122/23328	0.0394	0.0594	2
BP	GO:0002040	sprouting angiogenesis	2/60	123/23328	0.0400	0.0594	2
BP	GO:0046474	glycerophospholipid biosynthetic process	2/60	123/23328	0.0400	0.0594	2
BP	GO:0051153	regulation of striated muscle cell differentiation	2/60	124/23328	0.0406	0.0595	2
BP	GO:0090277	positive regulation of peptide hormone secretion	2/60	124/23328	0.0406	0.0595	2
BP	GO:1903052	positive regulation of proteolysis involved in cellular protein catabolic process	2/60	124/23328	0.0406	0.0595	2
BP	GO:1990266	neutrophil migration	2/60	124/23328	0.0406	0.0595	2
BP	GO:0007586	digestion	2/60	126/23328	0.0418	0.0609	2
BP	GO:0032640	tumor necrosis factor production	2/60	126/23328	0.0418	0.0609	2
BP	GO:0036294	cellular response to decreased oxygen levels	2/60	126/23328	0.0418	0.0609	2
BP	GO:0071621	granulocyte chemotaxis	2/60	126/23328	0.0418	0.0609	2
BP	GO:0045727	positive regulation of translation	2/60	128/23328	0.0430	0.0610	2
BP	GO:0071706	tumor necrosis factor superfamily cytokine production	2/60	128/23328	0.0430	0.0610	2
BP	GO:0007631	feeding behavior	2/60	130/23328	0.0442	0.0625	2
BP	GO:0042752	regulation of circadian rhythm	2/60	130/23328	0.0442	0.0625	2
BP	GO:0090305	nucleic acid phosphodiester bond hydrolysis	2/60	130/23328	0.0442	0.0625	2

		regulation of proteasomal				
BP	GO:0032434	ubiquitin-dependent protein catabolic process	2/60	131/23328	0.0448	0.0625 2
BP	GO:0002456	T cell mediated immunity	2/60	132/23328	0.0454	0.0626 2
BP	GO:0034763	negative regulation of transmembrane transport	2/60	132/23328	0.0454	0.0626 2
BP	GO:0042303	molting cycle	2/60	133/23328	0.0461	0.0632 2
BP	GO:0042633	hair cycle	2/60	133/23328	0.0461	0.0632 2
BP	GO:0044070	regulation of anion transport	2/60	133/23328	0.0461	0.0632 2
BP	GO:0002698	negative regulation of immune effector process	2/60	134/23328	0.0467	0.0639 2
BP	GO:0051701	interaction with host	2/60	135/23328	0.0473	0.0639 2
BP	GO:0072331	signal transduction by p53 class mediator	2/60	135/23328	0.0473	0.0639 2
BP	GO:0035195	gene silencing by miRNA	2/60	136/23328	0.0479	0.0640 2
BP	GO:0035821	modulation of process of other organism	2/60	137/23328	0.0486	0.0648 2
BP	GO:0009411	response to UV	2/60	138/23328	0.0492	0.0654 2
BP	GO:0030218	erythrocyte differentiation	2/60	138/23328	0.0492	0.0654 2
BP	GO:0046165	alcohol biosynthetic process	2/60	138/23328	0.0492	0.0654 2
		positive regulation of protein				
BP	GO:1903322	modification by small protein conjugation or removal	2/60	139/23328	0.0498	0.0657 2
BP	GO:0007034	vacuolar transport	2/60	140/23328	0.0505	0.0659 2
BP	GO:0071453	cellular response to oxygen levels	2/60	140/23328	0.0505	0.0659 2
BP	GO:0010821	regulation of mitochondrion organization	2/60	142/23328	0.0518	0.0671 2
BP	GO:0035194	post-transcriptional gene silencing by RNA	2/60	142/23328	0.0518	0.0671 2
BP	GO:0035725	sodium ion transmembrane transport	2/60	143/23328	0.0524	0.0671 2
BP	GO:0001837	epithelial to mesenchymal transition	2/60	144/23328	0.0531	0.0675 2
BP	GO:0090316	positive regulation of intracellular protein transport	2/60	144/23328	0.0531	0.0675 2
BP	GO:0017148	negative regulation of translation	2/60	145/23328	0.0537	0.0683 2
BP	GO:0016441	posttranscriptional gene silencing	2/60	146/23328	0.0544	0.0683 2
BP	GO:0019233	sensory perception of pain	2/60	146/23328	0.0544	0.0683 2
BP	GO:0061041	regulation of wound healing	2/60	146/23328	0.0544	0.0683 2

BP	GO:0031333	negative regulation of protein-containing complex assembly	2/60	147/23328	0.0551	0.0683	2
BP	GO:0002221	pattern recognition receptor signaling pathway	2/60	149/23328	0.0564	0.0696	2
BP	GO:0007613	memory	2/60	149/23328	0.0564	0.0696	2
BP	GO:0050921	positive regulation of chemotaxis	2/60	149/23328	0.0564	0.0696	2
BP	GO:0002065	columnar/cuboidal epithelial cell differentiation	2/60	150/23328	0.0571	0.0700	2
BP	GO:0031099	regeneration	2/60	150/23328	0.0571	0.0700	2
BP	GO:0048593	camera-type eye morphogenesis	2/60	151/23328	0.0577	0.0702	2
BP	GO:0030183	B cell differentiation	2/60	153/23328	0.0591	0.0716	2
BP	GO:0071478	cellular response to radiation	2/60	153/23328	0.0591	0.0716	2
BP	GO:0014013	regulation of gliogenesis	2/60	154/23328	0.0598	0.0717	2
BP	GO:0097530	granulocyte migration	2/60	155/23328	0.0604	0.0722	2
BP	GO:0030856	regulation of epithelial cell differentiation	2/60	156/23328	0.0611	0.0729	2
BP	GO:0032675	regulation of interleukin-6 production	2/60	156/23328	0.0611	0.0729	2
BP	GO:1903707	negative regulation of hemopoiesis	2/60	157/23328	0.0618	0.0732	2
BP	GO:0051250	negative regulation of lymphocyte activation	2/60	158/23328	0.0625	0.0733	2
BP	GO:0071383	cellular response to steroid hormone stimulus	2/60	159/23328	0.0632	0.0740	2
BP	GO:2000058	regulation of ubiquitin-dependent protein catabolic process	2/60	159/23328	0.0632	0.0740	2
BP	GO:1902904	negative regulation of supramolecular fiber organization	2/60	163/23328	0.0660	0.0760	2
BP	GO:0010970	transport along microtubule	2/60	164/23328	0.0667	0.0760	2
BP	GO:0030879	mammary gland development	2/60	164/23328	0.0667	0.0760	2
BP	GO:0034249	negative regulation of cellular amide metabolic process	2/60	164/23328	0.0667	0.0760	2
BP	GO:0046887	positive regulation of hormone secretion	2/60	164/23328	0.0667	0.0760	2
BP	GO:0051224	negative regulation of protein transport	2/60	164/23328	0.0667	0.0760	2
BP	GO:0007565	female pregnancy	2/60	166/23328	0.0681	0.0767	2
BP	GO:0046631	alpha-beta T cell activation	2/60	166/23328	0.0681	0.0767	2

BP	GO:0051896	regulation of protein kinase B signaling	2/60	166/23328	0.0681	0.0767	2
BP	GO:0032635	interleukin-6 production	2/60	167/23328	0.0689	0.0775	2
BP	GO:0046425	regulation of receptor signaling pathway via JAK-STAT	2/60	168/23328	0.0696	0.0775	2
BP	GO:0007179	transforming growth factor beta receptor signaling pathway	2/60	169/23328	0.0703	0.0780	2
BP	GO:0031047	gene silencing by RNA	2/60	169/23328	0.0703	0.0780	2
BP	GO:1904950	negative regulation of establishment of protein localization	2/60	169/23328	0.0703	0.0780	2
BP	GO:0030833	regulation of actin filament polymerization	2/60	171/23328	0.0717	0.0785	2
BP	GO:0043409	negative regulation of MAPK cascade	2/60	173/23328	0.0732	0.0797	2
BP	GO:1904892	regulation of receptor signaling pathway via STAT	2/60	173/23328	0.0732	0.0797	2
BP	GO:0001890	placenta development	2/60	174/23328	0.0739	0.0797	2
BP	GO:0042129	regulation of T cell proliferation	2/60	175/23328	0.0747	0.0799	2
BP	GO:0048634	regulation of muscle organ development	2/60	181/23328	0.0791	0.0820	2
BP	GO:0048592	eye morphogenesis	2/60	182/23328	0.0799	0.0826	2
BP	GO:0009749	response to glucose	2/60	185/23328	0.0821	0.0841	2
BP	GO:0031644	regulation of nervous system process	2/60	185/23328	0.0821	0.0841	2
BP	GO:1903034	regulation of response to wounding	2/60	186/23328	0.0829	0.0848	2
BP	GO:0030041	actin filament polymerization	2/60	187/23328	0.0837	0.0848	2
BP	GO:0043200	response to amino acid	2/60	187/23328	0.0837	0.0848	2
BP	GO:0008064	regulation of actin polymerization or depolymerization	2/60	188/23328	0.0844	0.0852	2
BP	GO:0009746	response to hexose	2/60	188/23328	0.0844	0.0852	2
BP	GO:0034284	response to monosaccharide	2/60	189/23328	0.0852	0.0855	2
BP	GO:0061136	regulation of proteasomal protein catabolic process	2/60	189/23328	0.0852	0.0855	2
BP	GO:0030832	regulation of actin filament length	2/60	191/23328	0.0867	0.0859	2
BP	GO:0022408	negative regulation of cell-cell adhesion	2/60	192/23328	0.0875	0.0866	2
BP	GO:0009913	epidermal cell differentiation	2/60	193/23328	0.0883	0.0871	2

BP	GO:0030705	cytoskeleton-dependent intracellular transport	2/60	194/23328	0.0891	0.0874	2
BP	GO:0050731	positive regulation of peptidyl-tyrosine phosphorylation	2/60	195/23328	0.0898	0.0879	2
BP	GO:0099111	microtubule-based transport	2/60	195/23328	0.0898	0.0879	2
BP	GO:1905475	regulation of protein localization to membrane	2/60	195/23328	0.0898	0.0879	2
BP	GO:0002706	regulation of lymphocyte mediated immunity	2/60	196/23328	0.0906	0.0886	2
BP	GO:0043491	protein kinase B signaling	2/60	196/23328	0.0906	0.0886	2
BP	GO:0006911	phagocytosis, engulfment	2/60	197/23328	0.0914	0.0889	2
BP	GO:0044706	multi-multicellular organism process	2/60	197/23328	0.0914	0.0889	2
BP	GO:1990138	neuron projection extension	2/60	198/23328	0.0922	0.0894	2
BP	GO:0050870	positive regulation of T cell activation	2/60	200/23328	0.0938	0.0897	2
BP	GO:0032869	cellular response to insulin stimulus	2/60	201/23328	0.0946	0.0903	2
BP	GO:0050792	regulation of viral process	2/60	201/23328	0.0946	0.0903	2
BP	GO:0009743	response to carbohydrate	2/60	203/23328	0.0961	0.0909	2
BP	GO:0009165	nucleotide biosynthetic process	2/60	204/23328	0.0969	0.0915	2
BP	GO:0099024	plasma membrane invagination	2/60	206/23328	0.0985	0.0920	2
BP	GO:0001101	response to acid chemical	2/60	207/23328	0.0993	0.0927	2
BP	GO:0071560	transforming growth factor beta stimulus	2/60	208/23328	0.1001	0.0928	2
BP	GO:0008217	regulation of blood pressure	2/60	209/23328	0.1009	0.0933	2
BP	GO:1901293	nucleoside phosphate biosynthetic process	2/60	209/23328	0.1009	0.0933	2
BP	GO:0043112	receptor metabolic process	2/60	212/23328	0.1034	0.0950	2
BP	GO:0071559	response to transforming growth factor beta	2/60	212/23328	0.1034	0.0950	2
BP	GO:0008361	regulation of cell size	2/60	213/23328	0.1042	0.0954	2
BP	GO:0010324	membrane invagination	2/60	213/23328	0.1042	0.0954	2
BP	GO:0042098	T cell proliferation	2/60	213/23328	0.1042	0.0954	2
BP	GO:0032984	protein-containing complex disassembly	2/60	214/23328	0.1050	0.0954	2
BP	GO:0008154	actin polymerization or depolymerization	2/60	215/23328	0.1058	0.0960	2
BP	GO:0048839	inner ear development	2/60	215/23328	0.1058	0.0960	2
BP	GO:0035264	multicellular organism growth	2/60	216/23328	0.1066	0.0964	2

BP	GO:0007623	circadian rhythm	2/60	217/23328	0.1075	0.0966	2
BP	GO:0043903	regulation of symbiotic process	2/60	218/23328	0.1083	0.0972	2
BP	GO:0019058	viral life cycle	2/60	221/23328	0.1108	0.0989	2
		regulation of proteolysis					
BP	GO:1903050	involved in cellular protein catabolic process	2/60	221/23328	0.1108	0.0989	2
BP	GO:0030100	regulation of endocytosis	2/60	222/23328	0.1116	0.0992	2
BP	GO:0061138	morphogenesis of a branching epithelium	2/60	222/23328	0.1116	0.0992	2
BP	GO:0045637	regulation of myeloid cell differentiation	2/60	224/23328	0.1133	0.1003	2
BP	GO:1903708	positive regulation of hemopoiesis	2/60	224/23328	0.1133	0.1003	2
BP	GO:0048762	mesenchymal cell differentiation	2/60	225/23328	0.1141	0.1003	2
BP	GO:0032271	regulation of protein polymerization	2/60	227/23328	0.1158	0.1017	2
BP	GO:0002274	myeloid leukocyte activation	2/60	231/23328	0.1191	0.1034	2
BP	GO:0050670	regulation of lymphocyte proliferation	2/60	231/23328	0.1191	0.1034	2
BP	GO:0006814	sodium ion transport	2/60	234/23328	0.1217	0.1047	2
BP	GO:0032944	regulation of mononuclear cell proliferation	2/60	234/23328	0.1217	0.1047	2
BP	GO:0032868	response to insulin	2/60	235/23328	0.1225	0.1051	2
BP	GO:0001763	morphogenesis of a branching structure	2/60	241/23328	0.1276	0.1070	2
BP	GO:0046777	protein autophosphorylation	2/60	241/23328	0.1276	0.1070	2
BP	GO:0006260	DNA replication	2/60	244/23328	0.1302	0.1080	2
BP	GO:0090257	regulation of muscle system process	2/60	244/23328	0.1302	0.1080	2
BP	GO:0043583	ear development	2/60	246/23328	0.1320	0.1091	2
BP	GO:0060291	long-term synaptic potentiation	2/60	248/23328	0.1337	0.1100	2
BP	GO:0010001	glial cell differentiation	2/60	249/23328	0.1346	0.1100	2
BP	GO:0015850	organic hydroxy compound transport	2/60	249/23328	0.1346	0.1100	2
BP	GO:0070663	regulation of leukocyte proliferation	2/60	251/23328	0.1363	0.1108	2
BP	GO:0021537	telencephalon development	2/60	252/23328	0.1372	0.1112	2
BP	GO:0002064	epithelial cell development	2/60	257/23328	0.1416	0.1140	2
BP	GO:0006650	glycerophospholipid metabolic process	2/60	257/23328	0.1416	0.1140	2

BP	GO:0045665	negative regulation of neuron differentiation	2/60	259/23328	0.1433	0.1147	2
BP	GO:0042493	response to drug	2/60	260/23328	0.1442	0.1153	2
BP	GO:0051091	positive regulation of DNA-binding transcription factor activity	2/60	260/23328	0.1442	0.1153	2
BP	GO:0002377	immunoglobulin production	2/60	262/23328	0.1460	0.1163	2
BP	GO:0050864	regulation of B cell activation	2/60	270/23328	0.1531	0.1201	2
BP	GO:0006605	protein targeting	2/60	271/23328	0.1540	0.1207	2
BP	GO:0002699	positive regulation of immune effector process	2/60	273/23328	0.1558	0.1218	2
BP	GO:0016050	vesicle organization	2/60	275/23328	0.1576	0.1228	2
BP	GO:0051924	regulation of calcium ion transport	2/60	275/23328	0.1576	0.1228	2
BP	GO:0060560	developmental growth involved in morphogenesis	2/60	275/23328	0.1576	0.1228	2
BP	GO:0016458	gene silencing	2/60	279/23328	0.1612	0.1241	2
BP	GO:0060485	mesenchyme development	2/60	281/23328	0.1630	0.1248	2
BP	GO:0002831	regulation of response to biotic stimulus	2/60	291/23328	0.1721	0.1301	2
BP	GO:0051258	protein polymerization	2/60	293/23328	0.1740	0.1311	2
BP	GO:0072659	protein localization to plasma membrane	2/60	295/23328	0.1758	0.1319	2
BP	GO:0048511	rhythmic process	2/60	301/23328	0.1813	0.1351	2
BP	GO:0030198	extracellular matrix organization	2/60	302/23328	0.1822	0.1354	2
BP	GO:0043062	extracellular structure organization	2/60	303/23328	0.1832	0.1360	2
BP	GO:0016358	dendrite development	2/60	306/23328	0.1859	0.1375	2
BP	GO:0090596	sensory organ morphogenesis	2/60	311/23328	0.1906	0.1401	2
BP	GO:0046651	lymphocyte proliferation	2/60	317/23328	0.1962	0.1430	2
BP	GO:0051146	striated muscle cell differentiation	2/60	317/23328	0.1962	0.1430	2
BP	GO:0032943	mononuclear cell proliferation	2/60	320/23328	0.1990	0.1441	2
BP	GO:0051235	maintenance of location	2/60	320/23328	0.1990	0.1441	2
BP	GO:0048562	embryonic organ morphogenesis	2/60	328/23328	0.2065	0.1485	2
BP	GO:0009100	glycoprotein metabolic process	2/60	332/23328	0.2102	0.1501	2
BP	GO:0070661	leukocyte proliferation	2/60	344/23328	0.2216	0.1562	2
BP	GO:0032259	methylation	2/60	349/23328	0.2263	0.1588	2

BP	GO:0034655	nucleobase-containing compound catabolic process	2/60	352/23328	0.2292	0.1600	2
BP	GO:0006909	phagocytosis	2/60	358/23328	0.2349	0.1627	2
BP	GO:1990778	protein localization to cell periphery	2/60	363/23328	0.2396	0.1651	2
BP	GO:0018205	peptidyl-lysine modification	2/60	364/23328	0.2406	0.1657	2
BP	GO:0051052	regulation of DNA metabolic process	2/60	379/23328	0.2549	0.1724	2
BP	GO:0007018	microtubule-based movement	2/60	385/23328	0.2606	0.1751	2
BP	GO:0060562	epithelial tube morphogenesis	2/60	387/23328	0.2625	0.1758	2
BP	GO:0051098	regulation of binding	2/60	390/23328	0.2654	0.1773	2
BP	GO:0003012	muscle system process	2/60	408/23328	0.2826	0.1858	2
BP	GO:0030099	myeloid cell differentiation	2/60	414/23328	0.2883	0.1888	2
BP	GO:0051251	positive regulation of lymphocyte activation	2/60	416/23328	0.2902	0.1897	2
BP	GO:0042113	B cell activation	2/60	417/23328	0.2912	0.1901	2
BP	GO:0010639	negative regulation of organelle organization	2/60	420/23328	0.2940	0.1916	2
BP	GO:0016055	Wnt signaling pathway	2/60	430/23328	0.3035	0.1963	2
BP	GO:0002449	lymphocyte mediated immunity	2/60	432/23328	0.3055	0.1972	2
BP	GO:0198738	cell-cell signaling by wnt	2/60	432/23328	0.3055	0.1972	2
BP	GO:0034660	ncRNA metabolic process	2/60	444/23328	0.3169	0.2029	2
BP	GO:0014706	striated muscle tissue development	2/60	447/23328	0.3197	0.2045	2
BP	GO:0016570	histone modification	2/60	448/23328	0.3206	0.2050	2
BP	GO:0016569	covalent chromatin modification	2/60	462/23328	0.3339	0.2117	2
BP	GO:0060537	muscle tissue development	2/60	470/23328	0.3414	0.2159	2
BP	GO:0007389	pattern specification process	2/60	478/23328	0.3489	0.2201	2
CC	GO:0044754	autolysosome	2/61	12/23271	0.0004	0.0095	2
CC	GO:0005767	secondary lysosome	2/61	16/23271	0.0008	0.0128	2
CC	GO:0031430	M band	2/61	19/23271	0.0011	0.0162	2
CC	GO:0031672	A band	2/61	38/23271	0.0045	0.0482	2
CC	GO:0009925	basal plasma membrane	2/61	60/23271	0.0109	0.0702	2
CC	GO:0005776	autophagosome	2/61	73/23271	0.0158	0.0842	2
CC	GO:0000932	P-body	2/61	76/23271	0.0170	0.0842	2
CC	GO:0045178	basal part of cell	2/61	83/23271	0.0201	0.0866	2
CC	GO:0005902	microvillus	2/61	101/23271	0.0289	0.0961	2
CC	GO:1990204	oxidoreductase complex	2/61	110/23271	0.0338	0.1018	2
CC	GO:0043204	perikaryon	2/61	140/23271	0.0522	0.1286	2
CC	GO:0030027	lamellipodium	2/61	171/23271	0.0741	0.1500	2

CC	GO:0005741	mitochondrial outer membrane	2/61	175/23271	0.0772	0.1513	2
CC	GO:0030139	endocytic vesicle	2/61	200/23271	0.0968	0.1587	2
CC	GO:0043209	myelin sheath	2/61	213/23271	0.1075	0.1740	2
CC	GO:0036464	cytoplasmic ribonucleoprotein granule	2/61	218/23271	0.1117	0.1754	2
CC	GO:0098858	actin-based cell projection	2/61	221/23271	0.1143	0.1754	2
CC	GO:0031514	motile cilium	2/61	222/23271	0.1151	0.1754	2
CC	GO:0035770	ribonucleoprotein granule	2/61	229/23271	0.1212	0.1824	2
CC	GO:0014069	postsynaptic density	2/61	400/23271	0.2822	0.2978	2
CC	GO:0030141	secretory granule	2/61	401/23271	0.2832	0.2978	2
CC	GO:0032279	asymmetric synapse	2/61	405/23271	0.2871	0.2978	2
CC	GO:0005635	nuclear envelope	2/61	421/23271	0.3027	0.3011	2
CC	GO:0098984	neuron to neuron synapse	2/61	433/23271	0.3143	0.3037	2
CC	GO:0099572	postsynaptic specialization	2/61	439/23271	0.3201	0.3055	2
CC	GO:0005667	transcription regulator complex	2/61	460/23271	0.3403	0.3142	2
MF	GO:0031956	medium-chain fatty acid-CoA ligase activity	2/58	11/22669	0.0003	0.0096	2
MF	GO:0005324	long-chain fatty acid transporter activity	2/58	19/22669	0.0011	0.0132	2
MF	GO:0036041	long-chain fatty acid binding	2/58	20/22669	0.0012	0.0132	2
MF	GO:0015645	fatty acid ligase activity	2/58	21/22669	0.0013	0.0132	2
MF	GO:0005355	glucose transmembrane transporter activity	2/58	22/22669	0.0014	0.0132	2
MF	GO:0015149	hexose transmembrane transporter activity	2/58	22/22669	0.0014	0.0132	2
MF	GO:0016881	acid-amino acid ligase activity	2/58	22/22669	0.0014	0.0132	2
MF	GO:0070530	K63-linked polyubiquitin modification-dependent protein binding	2/58	22/22669	0.0014	0.0132	2
MF	GO:0090482	vitamin transmembrane transporter activity	2/58	23/22669	0.0016	0.0133	2
MF	GO:0015145	monosaccharide transmembrane transporter activity	2/58	24/22669	0.0017	0.0133	2
MF	GO:0000062	fatty-acyl-CoA binding	2/58	25/22669	0.0019	0.0133	2
MF	GO:0016405	CoA-ligase activity	2/58	25/22669	0.0019	0.0133	2
MF	GO:0051119	sugar transmembrane transporter activity	2/58	25/22669	0.0019	0.0133	2
MF	GO:0044183	protein folding chaperone	2/58	26/22669	0.0020	0.0138	2
MF	GO:0016878	acid-thiol ligase activity	2/58	28/22669	0.0023	0.0150	2
MF	GO:0120227	acyl-CoA binding	2/58	28/22669	0.0023	0.0150	2
MF	GO:0071889	14-3-3 protein binding	2/58	31/22669	0.0029	0.0172	2

MF	GO:1901567	fatty acid derivative binding	2/58	35/22669	0.0036	0.0205	2
MF	GO:0015144	carbohydrate transmembrane transporter activity	2/58	36/22669	0.0038	0.0211	2
MF	GO:0016877	ligase activity, forming carbon-sulfur bonds	2/58	39/22669	0.0045	0.0240	2
MF	GO:0005548	phospholipid transporter activity	2/58	47/22669	0.0065	0.0311	2
MF	GO:0070888	E-box binding	2/58	47/22669	0.0065	0.0311	2
MF	GO:0016879	ligase activity, forming carbon-nitrogen bonds	2/58	49/22669	0.0070	0.0329	2
MF	GO:0005504	fatty acid binding	2/58	52/22669	0.0079	0.0360	2
MF	GO:0004860	protein kinase inhibitor activity	2/58	54/22669	0.0085	0.0373	2
MF	GO:0031593	polyubiquitin modification-dependent protein binding	2/58	55/22669	0.0088	0.0373	2
MF	GO:0019210	kinase inhibitor activity	2/58	59/22669	0.0100	0.0402	2
MF	GO:0015179	L-amino acid transmembrane transporter activity	2/58	61/22669	0.0107	0.0420	2
MF	GO:0005080	protein kinase C binding	2/58	63/22669	0.0114	0.0435	2
MF	GO:0043621	protein self-association	2/58	66/22669	0.0124	0.0452	2
MF	GO:0070491	repressing transcription factor binding	2/58	73/22669	0.0151	0.0518	2
MF	GO:0033293	monocarboxylic acid binding	2/58	82/22669	0.0187	0.0633	2
MF	GO:0015171	amino acid transmembrane transporter activity	2/58	84/22669	0.0196	0.0640	2
MF	GO:0051082	unfolded protein binding	2/58	84/22669	0.0196	0.0640	2
MF	GO:0033613	activating transcription factor binding	2/58	85/22669	0.0201	0.0644	2
MF	GO:0005546	phosphatidylinositol-4,5-bisphosphate binding	2/58	90/22669	0.0223	0.0693	2
MF	GO:0008170	N-methyltransferase activity	2/58	92/22669	0.0232	0.0704	2
MF	GO:0042826	histone deacetylase binding	2/58	123/22669	0.0396	0.0798	2
MF	GO:1902936	phosphatidylinositol bisphosphate binding	2/58	123/22669	0.0396	0.0798	2
MF	GO:0019955	cytokine binding	2/58	136/22669	0.0475	0.0872	2
MF	GO:0016616	oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor	2/58	142/22669	0.0513	0.0915	2
MF	GO:0008083	growth factor activity	2/58	147/22669	0.0545	0.0920	2
MF	GO:0070851	growth factor receptor binding	2/58	149/22669	0.0558	0.0920	2
MF	GO:0008757	S-adenosylmethionine-dependent methyltransferase activity	2/58	151/22669	0.0572	0.0920	2

MF	GO:0016614	oxidoreductase activity, acting on CH-OH group of donors	2/58	151/22669	0.0572	0.0920	2
MF	GO:0002020	protease binding	2/58	152/22669	0.0578	0.0920	2
MF	GO:0016853	isomerase activity	2/58	153/22669	0.0585	0.0920	2
MF	GO:0020037	heme binding	2/58	159/22669	0.0626	0.0920	2
MF	GO:0008234	cysteine-type peptidase activity	2/58	160/22669	0.0633	0.0920	2
MF	GO:0046943	carboxylic acid transmembrane transporter activity	2/58	160/22669	0.0633	0.0920	2
MF	GO:0005342	organic acid transmembrane transporter activity	2/58	161/22669	0.0640	0.0920	2
MF	GO:0046906	tetrapyrrole binding	2/58	168/22669	0.0689	0.0953	2
MF	GO:1901981	phosphatidylinositol phosphate binding	2/58	184/22669	0.0806	0.1035	2
MF	GO:0016829	lyase activity	2/58	188/22669	0.0837	0.1060	2
MF	GO:0140030	modification-dependent protein binding	2/58	192/22669	0.0867	0.1085	2
MF	GO:0000287	magnesium ion binding	2/58	197/22669	0.0906	0.1104	2
MF	GO:0008168	methyltransferase activity	2/58	205/22669	0.0969	0.1124	2
MF	GO:0016705	oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen	2/58	213/22669	0.1033	0.1155	2
MF	GO:0016741	transferase activity, transferring one-carbon groups	2/58	216/22669	0.1057	0.1155	2
MF	GO:0016747	transferase activity, transferring acyl groups other than amino-acyl groups	2/58	233/22669	0.1198	0.1240	2
MF	GO:1901681	sulfur compound binding	2/58	260/22669	0.1430	0.1370	2
MF	GO:0035091	phosphatidylinositol binding	2/58	266/22669	0.1483	0.1387	2
MF	GO:0046982	protein heterodimerization activity	2/58	290/22669	0.1698	0.1514	2
MF	GO:0022804	active transmembrane transporter activity	2/58	341/22669	0.2170	0.1802	2
MF	GO:0003729	mRNA binding	2/58	345/22669	0.2208	0.1816	2
MF	GO:0042578	phosphoric ester hydrolase activity	2/58	357/22669	0.2321	0.1855	2
MF	GO:0004857	enzyme inhibitor activity	2/58	392/22669	0.2653	0.2078	2
MF	GO:0016887	ATPase activity	2/58	404/22669	0.2767	0.2149	2
MF	GO:0004674	protein serine/threonine kinase activity	2/58	439/22669	0.3099	0.2351	2
MF	GO:0003712	transcription coregulator activity	2/58	441/22669	0.3118	0.2354	2

MF	GO:0005543	phospholipid binding	2/58	448/22669	0.3184	0.2378	2
BP	GO:0002315	marginal zone B cell differentiation	1/60	10/23328	0.0254	0.0503	1
BP	GO:0002634	regulation of germinal center formation	1/60	10/23328	0.0254	0.0503	1
BP	GO:0006591	ornithine metabolic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:0006707	cholesterol catabolic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:0015801	aromatic amino acid transport	1/60	10/23328	0.0254	0.0503	1
BP	GO:0016127	sterol catabolic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:0030300	regulation of intestinal cholesterol absorption	1/60	10/23328	0.0254	0.0503	1
BP	GO:0031620	regulation of fever generation	1/60	10/23328	0.0254	0.0503	1
BP	GO:0033234	negative regulation of protein sumoylation	1/60	10/23328	0.0254	0.0503	1
BP	GO:0035871	protein K11-linked deubiquitination	1/60	10/23328	0.0254	0.0503	1
BP	GO:0036462	TRAIL-activated apoptotic signaling pathway	1/60	10/23328	0.0254	0.0503	1
BP	GO:0043301	negative regulation of leukocyte degranulation	1/60	10/23328	0.0254	0.0503	1
BP	GO:0045542	positive regulation of cholesterol biosynthetic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:0048671	negative regulation of collateral sprouting	1/60	10/23328	0.0254	0.0503	1
BP	GO:0051340	regulation of ligase activity	1/60	10/23328	0.0254	0.0503	1
BP	GO:0051775	response to redox state	1/60	10/23328	0.0254	0.0503	1
BP	GO:0051971	positive regulation of transmission of nerve impulse	1/60	10/23328	0.0254	0.0503	1
BP	GO:0061635	regulation of protein complex stability	1/60	10/23328	0.0254	0.0503	1
BP	GO:0070244	negative regulation of thymocyte apoptotic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:0070391	response to lipoteichoic acid	1/60	10/23328	0.0254	0.0503	1
BP	GO:0070417	cellular response to cold	1/60	10/23328	0.0254	0.0503	1
BP	GO:0071223	cellular response to lipoteichoic acid	1/60	10/23328	0.0254	0.0503	1
BP	GO:0090091	positive regulation of extracellular matrix disassembly	1/60	10/23328	0.0254	0.0503	1
BP	GO:0090269	fibroblast growth factor production	1/60	10/23328	0.0254	0.0503	1
BP	GO:0090270	regulation of fibroblast growth factor production	1/60	10/23328	0.0254	0.0503	1

BP	GO:0106049	regulation of cellular response to osmotic stress	1/60	10/23328	0.0254	0.0503	1
BP	GO:0106120	positive regulation of sterol biosynthetic process	1/60	10/23328	0.0254	0.0503	1
BP	GO:1990253	cellular response to leucine starvation	1/60	10/23328	0.0254	0.0503	1
BP	GO:2000192	negative regulation of fatty acid transport	1/60	10/23328	0.0254	0.0503	1
BP	GO:2000489	regulation of hepatic stellate cell activation	1/60	10/23328	0.0254	0.0503	1
BP	GO:2000551	regulation of T-helper 2 cell cytokine production	1/60	10/23328	0.0254	0.0503	1
BP	GO:0002676	regulation of chronic inflammatory response	1/60	11/23328	0.0279	0.0526	1
BP	GO:0006107	oxaloacetate metabolic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:0031053	primary miRNA processing	1/60	11/23328	0.0279	0.0526	1
BP	GO:0032959	inositol trisphosphate biosynthetic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:0033700	phospholipid efflux	1/60	11/23328	0.0279	0.0526	1
BP	GO:0034115	negative regulation of heterotypic cell-cell adhesion	1/60	11/23328	0.0279	0.0526	1
BP	GO:0035336	long-chain fatty-acyl-CoA metabolic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:0036490	regulation of translation in response to endoplasmic reticulum stress	1/60	11/23328	0.0279	0.0526	1
BP	GO:0042762	regulation of sulfur metabolic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:0045602	negative regulation of endothelial cell differentiation	1/60	11/23328	0.0279	0.0526	1
BP	GO:0045647	negative regulation of erythrocyte differentiation	1/60	11/23328	0.0279	0.0526	1
BP	GO:0070587	regulation of cell-cell adhesion involved in gastrulation	1/60	11/23328	0.0279	0.0526	1
BP	GO:0071864	positive regulation of cell proliferation in bone marrow	1/60	11/23328	0.0279	0.0526	1
BP	GO:0090205	positive regulation of cholesterol metabolic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:1902166	negative regulation of intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator	1/60	11/23328	0.0279	0.0526	1

BP	GO:1904729	regulation of intestinal lipid absorption	1/60	11/23328	0.0279	0.0526	1
BP	GO:1990440	positive regulation of transcription from RNA polymerase II promoter in response to endoplasmic reticulum stress	1/60	11/23328	0.0279	0.0526	1
BP	GO:2001280	positive regulation of unsaturated fatty acid biosynthetic process	1/60	11/23328	0.0279	0.0526	1
BP	GO:0009071	serine family amino acid catabolic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0010870	positive regulation of receptor biosynthetic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0030949	positive regulation of vascular endothelial growth factor receptor signaling pathway	1/60	12/23328	0.0304	0.0541	1
BP	GO:0031392	regulation of prostaglandin biosynthetic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0033004	negative regulation of mast cell activation	1/60	12/23328	0.0304	0.0541	1
BP	GO:0033210	leptin-mediated signaling pathway	1/60	12/23328	0.0304	0.0541	1
BP	GO:0033632	regulation of cell-cell adhesion mediated by integrin	1/60	12/23328	0.0304	0.0541	1
BP	GO:0035376	sterol import	1/60	12/23328	0.0304	0.0541	1
BP	GO:0035437	maintenance of protein localization in endoplasmic reticulum	1/60	12/23328	0.0304	0.0541	1
BP	GO:0035733	hepatic stellate cell activation	1/60	12/23328	0.0304	0.0541	1
BP	GO:0042447	hormone catabolic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0043455	regulation of secondary metabolic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0045717	negative regulation of fatty acid biosynthetic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0048021	regulation of melanin biosynthetic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:0051024	positive regulation of immunoglobulin secretion	1/60	12/23328	0.0304	0.0541	1
BP	GO:0060159	regulation of dopamine receptor signaling pathway	1/60	12/23328	0.0304	0.0541	1

BP	GO:0060213	positive regulation of nuclear-transcribed mRNA poly(A) tail shortening	1/60	12/23328	0.0304	0.0541	1
BP	GO:0060586	multicellular organismal iron ion homeostasis	1/60	12/23328	0.0304	0.0541	1
BP	GO:0060872	semicircular canal development	1/60	12/23328	0.0304	0.0541	1
BP	GO:0061744	motor behavior	1/60	12/23328	0.0304	0.0541	1
BP	GO:0070508	cholesterol import	1/60	12/23328	0.0304	0.0541	1
BP	GO:0070586	cell-cell adhesion involved in gastrulation	1/60	12/23328	0.0304	0.0541	1
BP	GO:0071863	regulation of cell proliferation in bone marrow	1/60	12/23328	0.0304	0.0541	1
BP	GO:0097113	AMPA glutamate receptor clustering	1/60	12/23328	0.0304	0.0541	1
BP	GO:0097709	connective tissue replacement	1/60	12/23328	0.0304	0.0541	1
BP	GO:1900376	regulation of secondary metabolite biosynthetic process	1/60	12/23328	0.0304	0.0541	1
BP	GO:1902510	regulation of apoptotic DNA fragmentation	1/60	12/23328	0.0304	0.0541	1
BP	GO:1903800	positive regulation of production of miRNAs involved in gene silencing by miRNA	1/60	12/23328	0.0304	0.0541	1
BP	GO:2000561	regulation of CD4-positive, alpha-beta T cell proliferation	1/60	12/23328	0.0304	0.0541	1
BP	GO:0001660	fever generation	1/60	13/23328	0.0329	0.0553	1
BP	GO:0006521	regulation of cellular amino acid metabolic process	1/60	13/23328	0.0329	0.0553	1
BP	GO:0006983	ER overload response	1/60	13/23328	0.0329	0.0553	1
BP	GO:0009263	deoxyribonucleotide biosynthetic process	1/60	13/23328	0.0329	0.0553	1
BP	GO:0010998	regulation of translational initiation by eIF2 alpha phosphorylation	1/60	13/23328	0.0329	0.0553	1
BP	GO:0015816	glycine transport	1/60	13/23328	0.0329	0.0553	1
BP	GO:0031652	positive regulation of heat generation	1/60	13/23328	0.0329	0.0553	1
BP	GO:0032060	bleb assembly	1/60	13/23328	0.0329	0.0553	1
BP	GO:0034497	protein localization to phagophore assembly site	1/60	13/23328	0.0329	0.0553	1
BP	GO:0035630	bone mineralization involved in bone maturation	1/60	13/23328	0.0329	0.0553	1

BP	GO:0035739	CD4-positive, alpha-beta T cell proliferation	1/60	13/23328	0.0329	0.0553	1
BP	GO:0042541	hemoglobin biosynthetic process	1/60	13/23328	0.0329	0.0553	1
BP	GO:0045628	regulation of T-helper 2 cell differentiation	1/60	13/23328	0.0329	0.0553	1
BP	GO:0045906	negative regulation of vasoconstriction	1/60	13/23328	0.0329	0.0553	1
BP	GO:0048102	autophagic cell death	1/60	13/23328	0.0329	0.0553	1
BP	GO:0055091	phospholipid homeostasis	1/60	13/23328	0.0329	0.0553	1
BP	GO:0061052	negative regulation of cell growth involved in cardiac muscle cell development	1/60	13/23328	0.0329	0.0553	1
BP	GO:0061418	regulation of transcription from RNA polymerase II promoter in response to hypoxia	1/60	13/23328	0.0329	0.0553	1
BP	GO:0070091	glucagon secretion	1/60	13/23328	0.0329	0.0553	1
BP	GO:0070092	regulation of glucagon secretion	1/60	13/23328	0.0329	0.0553	1
BP	GO:0071294	cellular response to zinc ion	1/60	13/23328	0.0329	0.0553	1
BP	GO:0071838	cell proliferation in bone marrow	1/60	13/23328	0.0329	0.0553	1
BP	GO:0072540	T-helper 17 cell lineage commitment	1/60	13/23328	0.0329	0.0553	1
BP	GO:0097011	cellular response to granulocyte macrophage colony-stimulating factor stimulus	1/60	13/23328	0.0329	0.0553	1
BP	GO:0097688	glutamate receptor clustering	1/60	13/23328	0.0329	0.0553	1
BP	GO:0110154	RNA decapping	1/60	13/23328	0.0329	0.0553	1
BP	GO:0110156	methylguanosine-cap decapping	1/60	13/23328	0.0329	0.0553	1
BP	GO:2001054	negative regulation of mesenchymal cell apoptotic process	1/60	13/23328	0.0329	0.0553	1
BP	GO:0008298	intracellular mRNA localization	1/60	14/23328	0.0354	0.0566	1
BP	GO:0019896	axonal transport of mitochondrion	1/60	14/23328	0.0354	0.0566	1
BP	GO:0021984	adenohypophysis development	1/60	14/23328	0.0354	0.0566	1
BP	GO:0031915	positive regulation of synaptic plasticity	1/60	14/23328	0.0354	0.0566	1
BP	GO:0032494	response to peptidoglycan	1/60	14/23328	0.0354	0.0566	1
BP	GO:0035358	regulation of peroxisome proliferator activated receptor signaling pathway	1/60	14/23328	0.0354	0.0566	1

BP	GO:0036498	IRE1-mediated unfolded protein response	1/60	14/23328	0.0354	0.0566	1
BP	GO:0042532	negative regulation of tyrosine phosphorylation of STAT protein	1/60	14/23328	0.0354	0.0566	1
BP	GO:0043558	regulation of translational initiation in response to stress	1/60	14/23328	0.0354	0.0566	1
BP	GO:0044804	autophagy of nucleus	1/60	14/23328	0.0354	0.0566	1
BP	GO:0045188	regulation of circadian sleep/wake cycle, non-REM sleep	1/60	14/23328	0.0354	0.0566	1
BP	GO:0046642	negative regulation of alpha-beta T cell proliferation	1/60	14/23328	0.0354	0.0566	1
BP	GO:0046886	positive regulation of hormone biosynthetic process	1/60	14/23328	0.0354	0.0566	1
BP	GO:0051290	protein heterotetramerization	1/60	14/23328	0.0354	0.0566	1
BP	GO:0060211	regulation of nuclear-transcribed mRNA poly(A) tail shortening	1/60	14/23328	0.0354	0.0566	1
BP	GO:0070365	hepatocyte differentiation	1/60	14/23328	0.0354	0.0566	1
BP	GO:0097012	response to granulocyte macrophage colony-stimulating factor	1/60	14/23328	0.0354	0.0566	1
BP	GO:1903624	regulation of DNA catabolic process	1/60	14/23328	0.0354	0.0566	1
BP	GO:2000347	positive regulation of hepatocyte proliferation	1/60	14/23328	0.0354	0.0566	1
BP	GO:2001279	regulation of unsaturated fatty acid biosynthetic process	1/60	14/23328	0.0354	0.0566	1
BP	GO:0010958	regulation of amino acid import across plasma membrane	1/60	15/23328	0.0379	0.0583	1
BP	GO:0019081	viral translation	1/60	15/23328	0.0379	0.0583	1
BP	GO:0023035	CD40 signaling pathway	1/60	15/23328	0.0379	0.0583	1
BP	GO:0030299	intestinal cholesterol absorption	1/60	15/23328	0.0379	0.0583	1
BP	GO:0031650	regulation of heat generation	1/60	15/23328	0.0379	0.0583	1
BP	GO:0032511	late endosome to vacuole transport via multivesicular body sorting pathway	1/60	15/23328	0.0379	0.0583	1
BP	GO:0032530	regulation of microvillus organization	1/60	15/23328	0.0379	0.0583	1
BP	GO:0032933	SREBP signaling pathway	1/60	15/23328	0.0379	0.0583	1

BP	GO:0035745	T-helper 2 cell cytokine production	1/60	15/23328	0.0379	0.0583	1
BP	GO:0042748	circadian sleep/wake cycle, non-REM sleep	1/60	15/23328	0.0379	0.0583	1
BP	GO:0042976	activation of Janus kinase activity	1/60	15/23328	0.0379	0.0583	1
BP	GO:0044793	negative regulation by host of viral process	1/60	15/23328	0.0379	0.0583	1
BP	GO:0047484	regulation of response to osmotic stress	1/60	15/23328	0.0379	0.0583	1
BP	GO:0060049	regulation of protein glycosylation	1/60	15/23328	0.0379	0.0583	1
BP	GO:0060396	growth hormone receptor signaling pathway	1/60	15/23328	0.0379	0.0583	1
BP	GO:0060442	branching involved in prostate gland morphogenesis	1/60	15/23328	0.0379	0.0583	1
BP	GO:0071280	cellular response to copper ion	1/60	15/23328	0.0379	0.0583	1
BP	GO:0071378	cellular response to growth hormone stimulus	1/60	15/23328	0.0379	0.0583	1
BP	GO:0098712	L-glutamate import across plasma membrane	1/60	15/23328	0.0379	0.0583	1
BP	GO:0099527	postsynapse to nucleus signaling pathway	1/60	15/23328	0.0379	0.0583	1
BP	GO:1902043	positive regulation of extrinsic apoptotic signaling pathway via death domain receptors	1/60	15/23328	0.0379	0.0583	1
BP	GO:1902165	regulation of intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator	1/60	15/23328	0.0379	0.0583	1
BP	GO:1903587	regulation of blood vessel endothelial cell proliferation involved in sprouting angiogenesis	1/60	15/23328	0.0379	0.0583	1
BP	GO:1903789	regulation of amino acid transmembrane transport	1/60	15/23328	0.0379	0.0583	1
BP	GO:1903799	negative regulation of production of miRNAs involved in gene silencing by miRNA	1/60	15/23328	0.0379	0.0583	1
BP	GO:1904478	regulation of intestinal absorption	1/60	15/23328	0.0379	0.0583	1
BP	GO:0002070	epithelial cell maturation	1/60	16/23328	0.0404	0.0594	1

BP	GO:0002295	T-helper cell lineage commitment	1/60	16/23328	0.0404	0.0594	1
BP	GO:0002407	dendritic cell chemotaxis	1/60	16/23328	0.0404	0.0594	1
BP	GO:0002467	germinal center formation	1/60	16/23328	0.0404	0.0594	1
BP	GO:0002830	positive regulation of type 2 immune response	1/60	16/23328	0.0404	0.0594	1
BP	GO:0006103	2-oxoglutarate metabolic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:0006620	posttranslational protein targeting to endoplasmic reticulum membrane	1/60	16/23328	0.0404	0.0594	1
BP	GO:0006658	phosphatidylserine metabolic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:0010224	response to UV-B	1/60	16/23328	0.0404	0.0594	1
BP	GO:0035337	fatty-acyl-CoA metabolic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:0035590	purinergic nucleotide receptor signaling pathway	1/60	16/23328	0.0404	0.0594	1
BP	GO:0035641	locomotory exploration behavior	1/60	16/23328	0.0404	0.0594	1
BP	GO:0042308	negative regulation of protein import into nucleus	1/60	16/23328	0.0404	0.0594	1
BP	GO:0042640	anagen	1/60	16/23328	0.0404	0.0594	1
BP	GO:0043518	negative regulation of DNA damage response, signal transduction by p53 class mediator	1/60	16/23328	0.0404	0.0594	1
BP	GO:0044827	modulation by host of viral genome replication	1/60	16/23328	0.0404	0.0594	1
BP	GO:0045820	negative regulation of glycolytic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:0045947	negative regulation of translational initiation	1/60	16/23328	0.0404	0.0594	1
BP	GO:0050862	positive regulation of T cell receptor signaling pathway	1/60	16/23328	0.0404	0.0594	1
BP	GO:0051938	L-glutamate import	1/60	16/23328	0.0404	0.0594	1
BP	GO:0060100	positive regulation of phagocytosis, engulfment	1/60	16/23328	0.0404	0.0594	1
BP	GO:0070486	leukocyte aggregation	1/60	16/23328	0.0404	0.0594	1
BP	GO:0071243	cellular response to arsenic-containing substance	1/60	16/23328	0.0404	0.0594	1

BP	GO:0071498	cellular response to fluid shear stress	1/60	16/23328	0.0404	0.0594	1
BP	GO:0071501	cellular response to sterol depletion	1/60	16/23328	0.0404	0.0594	1
BP	GO:0072537	fibroblast activation	1/60	16/23328	0.0404	0.0594	1
BP	GO:0072673	lamellipodium morphogenesis	1/60	16/23328	0.0404	0.0594	1
BP	GO:1904590	negative regulation of protein import	1/60	16/23328	0.0404	0.0594	1
BP	GO:1905155	positive regulation of membrane invagination	1/60	16/23328	0.0404	0.0594	1
BP	GO:2000628	regulation of miRNA metabolic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:2001053	regulation of mesenchymal cell apoptotic process	1/60	16/23328	0.0404	0.0594	1
BP	GO:0006991	response to sterol depletion	1/60	17/23328	0.0429	0.0609	1
BP	GO:0010713	negative regulation of collagen metabolic process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0019048	modulation by virus of host process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0032225	regulation of synaptic transmission, dopaminergic	1/60	17/23328	0.0429	0.0609	1
BP	GO:0032306	regulation of prostaglandin secretion	1/60	17/23328	0.0429	0.0609	1
BP	GO:0032957	inositol trisphosphate metabolic process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0032966	negative regulation of collagen biosynthetic process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0040015	negative regulation of multicellular organism growth	1/60	17/23328	0.0429	0.0609	1
BP	GO:0044320	cellular response to leptin stimulus	1/60	17/23328	0.0429	0.0609	1
BP	GO:0045064	T-helper 2 cell differentiation	1/60	17/23328	0.0429	0.0609	1
BP	GO:0046755	viral budding	1/60	17/23328	0.0429	0.0609	1
BP	GO:0048853	forebrain morphogenesis	1/60	17/23328	0.0429	0.0609	1
BP	GO:0050665	hydrogen peroxide biosynthetic process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0051014	actin filament severing	1/60	17/23328	0.0429	0.0609	1
BP	GO:0060644	mammary gland epithelial cell differentiation	1/60	17/23328	0.0429	0.0609	1
BP	GO:0061952	midbody abscission	1/60	17/23328	0.0429	0.0609	1
BP	GO:0070243	regulation of thymocyte apoptotic process	1/60	17/23328	0.0429	0.0609	1

BP	GO:0070262	peptidyl-serine dephosphorylation	1/60	17/23328	0.0429	0.0609	1
BP	GO:0071636	positive regulation of transforming growth factor beta production	1/60	17/23328	0.0429	0.0609	1
BP	GO:0090336	positive regulation of brown fat cell differentiation	1/60	17/23328	0.0429	0.0609	1
BP	GO:0097152	mesenchymal cell apoptotic process	1/60	17/23328	0.0429	0.0609	1
BP	GO:0099640	axo-dendritic protein transport	1/60	17/23328	0.0429	0.0609	1
BP	GO:1900119	positive regulation of execution phase of apoptosis	1/60	17/23328	0.0429	0.0609	1
BP	GO:1902894	negative regulation of pri- miRNA transcription by RNA polymerase II	1/60	17/23328	0.0429	0.0609	1
BP	GO:2001028	positive regulation of endothelial cell chemotaxis	1/60	17/23328	0.0429	0.0609	1
BP	GO:0000188	inactivation of MAPK activity	1/60	18/23328	0.0453	0.0625	1
BP	GO:0006700	C21-steroid hormone biosynthetic process	1/60	18/23328	0.0453	0.0625	1
BP	GO:0010801	negative regulation of peptidyl- threonine phosphorylation	1/60	18/23328	0.0453	0.0625	1
BP	GO:0021756	striatum development	1/60	18/23328	0.0453	0.0625	1
BP	GO:0030033	microvillus assembly	1/60	18/23328	0.0453	0.0625	1
BP	GO:0033631	cell-cell adhesion mediated by integrin	1/60	18/23328	0.0453	0.0625	1
BP	GO:0035633	maintenance of blood-brain barrier	1/60	18/23328	0.0453	0.0625	1
BP	GO:0042026	protein refolding	1/60	18/23328	0.0453	0.0625	1
BP	GO:0042448	progesterone metabolic process	1/60	18/23328	0.0453	0.0625	1
BP	GO:0044241	lipid digestion	1/60	18/23328	0.0453	0.0625	1
BP	GO:0050710	negative regulation of cytokine secretion	1/60	18/23328	0.0453	0.0625	1
BP	GO:0060416	response to growth hormone	1/60	18/23328	0.0453	0.0625	1
BP	GO:0060576	intestinal epithelial cell development	1/60	18/23328	0.0453	0.0625	1
BP	GO:0061158	3'-UTR-mediated mRNA destabilization	1/60	18/23328	0.0453	0.0625	1
BP	GO:0070102	interleukin-6-mediated signaling pathway	1/60	18/23328	0.0453	0.0625	1
BP	GO:0098856	intestinal lipid absorption	1/60	18/23328	0.0453	0.0625	1

BP	GO:1900153	positive regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay	1/60	18/23328	0.0453	0.0625	1
BP	GO:1901673	regulation of mitotic spindle assembly	1/60	18/23328	0.0453	0.0625	1
BP	GO:1904706	negative regulation of vascular associated smooth muscle cell proliferation	1/60	18/23328	0.0453	0.0625	1
BP	GO:1990000	amyloid fibril formation	1/60	18/23328	0.0453	0.0625	1
BP	GO:0002544	chronic inflammatory response	1/60	19/23328	0.0478	0.0639	1
BP	GO:0002726	positive regulation of T cell cytokine production	1/60	19/23328	0.0478	0.0639	1
BP	GO:0006027	glycosaminoglycan catabolic process	1/60	19/23328	0.0478	0.0639	1
BP	GO:0006089	lactate metabolic process	1/60	19/23328	0.0478	0.0639	1
BP	GO:0006309	apoptotic DNA fragmentation	1/60	19/23328	0.0478	0.0639	1
BP	GO:0006622	protein targeting to lysosome	1/60	19/23328	0.0478	0.0639	1
BP	GO:0006656	phosphatidylcholine biosynthetic process	1/60	19/23328	0.0478	0.0639	1
BP	GO:0017121	plasma membrane phospholipid scrambling	1/60	19/23328	0.0478	0.0639	1
BP	GO:0020027	hemoglobin metabolic process	1/60	19/23328	0.0478	0.0639	1
BP	GO:0030502	negative regulation of bone mineralization	1/60	19/23328	0.0478	0.0639	1
BP	GO:0032352	positive regulation of hormone metabolic process	1/60	19/23328	0.0478	0.0639	1
BP	GO:0034138	toll-like receptor 3 signaling pathway	1/60	19/23328	0.0478	0.0639	1
BP	GO:0035994	response to muscle stretch	1/60	19/23328	0.0478	0.0639	1
BP	GO:0043373	CD4-positive, alpha-beta T cell lineage commitment	1/60	19/23328	0.0478	0.0639	1
BP	GO:0043652	engulfment of apoptotic cell	1/60	19/23328	0.0478	0.0639	1
BP	GO:0045721	negative regulation of gluconeogenesis	1/60	19/23328	0.0478	0.0639	1
BP	GO:0045837	negative regulation of membrane potential	1/60	19/23328	0.0478	0.0639	1
BP	GO:0060965	negative regulation of gene silencing by miRNA	1/60	19/23328	0.0478	0.0639	1
BP	GO:0071071	regulation of phospholipid biosynthetic process	1/60	19/23328	0.0478	0.0639	1

BP	GO:0072578	neurotransmitter-gated ion channel clustering	1/60	19/23328	0.0478	0.0639	1
BP	GO:0097623	potassium ion export across plasma membrane	1/60	19/23328	0.0478	0.0639	1
BP	GO:1903599	positive regulation of autophagy of mitochondrion	1/60	19/23328	0.0478	0.0639	1
BP	GO:1903960	negative regulation of anion transmembrane transport	1/60	19/23328	0.0478	0.0639	1
BP	GO:0008209	androgen metabolic process regulation of	1/60	20/23328	0.0502	0.0657	1
BP	GO:0031664	lipopolysaccharide-mediated signaling pathway	1/60	20/23328	0.0502	0.0657	1
BP	GO:0032095	regulation of response to food	1/60	20/23328	0.0502	0.0657	1
BP	GO:0032310	prostaglandin secretion	1/60	20/23328	0.0502	0.0657	1
BP	GO:0035970	peptidyl-threonine dephosphorylation	1/60	20/23328	0.0502	0.0657	1
BP	GO:0043555	regulation of translation in response to stress	1/60	20/23328	0.0502	0.0657	1
BP	GO:0044321	response to leptin	1/60	20/23328	0.0502	0.0657	1
BP	GO:0045986	negative regulation of smooth muscle contraction	1/60	20/23328	0.0502	0.0657	1
BP	GO:0060252	positive regulation of glial cell proliferation	1/60	20/23328	0.0502	0.0657	1
BP	GO:0060547	negative regulation of necrotic cell death	1/60	20/23328	0.0502	0.0657	1
BP	GO:0070935	3'-UTR-mediated mRNA stabilization	1/60	20/23328	0.0502	0.0657	1
BP	GO:1900151	regulation of nuclear-transcribed mRNA catabolic process, deadenylation-dependent decay	1/60	20/23328	0.0502	0.0657	1
BP	GO:1901028	regulation of mitochondrial outer membrane permeabilization involved in apoptotic signaling pathway	1/60	20/23328	0.0502	0.0657	1
BP	GO:1903909	regulation of receptor clustering	1/60	20/23328	0.0502	0.0657	1
BP	GO:1904385	cellular response to angiotensin blood vessel endothelial cell	1/60	20/23328	0.0502	0.0657	1
BP	GO:0002043	proliferation involved in sprouting angiogenesis	1/60	21/23328	0.0527	0.0671	1
BP	GO:0002363	alpha-beta T cell lineage commitment	1/60	21/23328	0.0527	0.0671	1

BP	GO:0010869	regulation of receptor biosynthetic process	1/60	21/23328	0.0527	0.0671	1
BP	GO:0031065	positive regulation of histone deacetylation	1/60	21/23328	0.0527	0.0671	1
BP	GO:0032332	positive regulation of chondrocyte differentiation	1/60	21/23328	0.0527	0.0671	1
BP	GO:0034643	establishment of mitochondrion localization, microtubule-mediated	1/60	21/23328	0.0527	0.0671	1
BP	GO:0036336	dendritic cell migration	1/60	21/23328	0.0527	0.0671	1
BP	GO:0043931	ossification involved in bone maturation	1/60	21/23328	0.0527	0.0671	1
BP	GO:0045948	positive regulation of translational initiation	1/60	21/23328	0.0527	0.0671	1
BP	GO:0046697	decidualization	1/60	21/23328	0.0527	0.0671	1
BP	GO:0047497	mitochondrion transport along microtubule	1/60	21/23328	0.0527	0.0671	1
BP	GO:0051023	regulation of immunoglobulin secretion	1/60	21/23328	0.0527	0.0671	1
BP	GO:0051956	negative regulation of amino acid transport	1/60	21/23328	0.0527	0.0671	1
BP	GO:0060149	negative regulation of posttranscriptional gene silencing	1/60	21/23328	0.0527	0.0671	1
BP	GO:0060456	positive regulation of digestive system process	1/60	21/23328	0.0527	0.0671	1
BP	GO:0060967	negative regulation of gene silencing by RNA	1/60	21/23328	0.0527	0.0671	1
BP	GO:0090026	positive regulation of monocyte chemotaxis	1/60	21/23328	0.0527	0.0671	1
BP	GO:1902004	positive regulation of amyloid-beta formation	1/60	21/23328	0.0527	0.0671	1
BP	GO:1902254	negative regulation of intrinsic apoptotic signaling pathway by p53 class mediator	1/60	21/23328	0.0527	0.0671	1
BP	GO:2000726	negative regulation of cardiac muscle cell differentiation	1/60	21/23328	0.0527	0.0671	1
BP	GO:0003323	type B pancreatic cell development	1/60	22/23328	0.0551	0.0683	1
BP	GO:0014850	response to muscle activity	1/60	22/23328	0.0551	0.0683	1
BP	GO:0015813	L-glutamate transmembrane transport	1/60	22/23328	0.0551	0.0683	1

BP	GO:0031649	heat generation	1/60	22/23328	0.0551	0.0683	1
BP	GO:0032366	intracellular sterol transport	1/60	22/23328	0.0551	0.0683	1
BP	GO:0032367	intracellular cholesterol transport	1/60	22/23328	0.0551	0.0683	1
BP	GO:0034377	plasma lipoprotein particle assembly	1/60	22/23328	0.0551	0.0683	1
BP	GO:0042438	melanin biosynthetic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:0044273	sulfur compound catabolic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:0044851	hair cycle phase	1/60	22/23328	0.0551	0.0683	1
BP	GO:0045624	positive regulation of T-helper cell differentiation	1/60	22/23328	0.0551	0.0683	1
BP	GO:0046337	phosphatidylethanolamine metabolic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:0048532	anatomical structure arrangement	1/60	22/23328	0.0551	0.0683	1
BP	GO:0060749	mammary gland alveolus development	1/60	22/23328	0.0551	0.0683	1
BP	GO:0061377	mammary gland lobule development	1/60	22/23328	0.0551	0.0683	1
BP	GO:0070242	thymocyte apoptotic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:1900543	negative regulation of purine nucleotide metabolic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:1901223	negative regulation of NIK/NF-kappaB signaling	1/60	22/23328	0.0551	0.0683	1
BP	GO:1901741	positive regulation of myoblast fusion	1/60	22/23328	0.0551	0.0683	1
BP	GO:1903055	positive regulation of extracellular matrix organization	1/60	22/23328	0.0551	0.0683	1
BP	GO:1990776	response to angiotensin	1/60	22/23328	0.0551	0.0683	1
BP	GO:2000353	positive regulation of endothelial cell apoptotic process	1/60	22/23328	0.0551	0.0683	1
BP	GO:2001026	regulation of endothelial cell chemotaxis	1/60	22/23328	0.0551	0.0683	1
BP	GO:0002719	negative regulation of cytokine production involved in immune response	1/60	23/23328	0.0575	0.0700	1
BP	GO:0023019	signal transduction involved in regulation of gene expression	1/60	23/23328	0.0575	0.0700	1
BP	GO:0034405	response to fluid shear stress	1/60	23/23328	0.0575	0.0700	1

BP	GO:0035278	miRNA mediated inhibition of translation	1/60	23/23328	0.0575	0.0700	1
BP	GO:0043369	CD4-positive or CD8-positive, alpha-beta T cell lineage commitment	1/60	23/23328	0.0575	0.0700	1
BP	GO:0045980	negative regulation of nucleotide metabolic process	1/60	23/23328	0.0575	0.0700	1
BP	GO:0046931	pore complex assembly	1/60	23/23328	0.0575	0.0700	1
BP	GO:0050857	positive regulation of antigen receptor-mediated signaling pathway	1/60	23/23328	0.0575	0.0700	1
BP	GO:0051291	protein heterooligomerization	1/60	23/23328	0.0575	0.0700	1
BP	GO:0051969	regulation of transmission of nerve impulse	1/60	23/23328	0.0575	0.0700	1
BP	GO:0070977	bone maturation	1/60	23/23328	0.0575	0.0700	1
BP	GO:1901626	regulation of postsynaptic membrane organization	1/60	23/23328	0.0575	0.0700	1
BP	GO:1902410	mitotic cytokinetic process	1/60	23/23328	0.0575	0.0700	1
BP	GO:1903306	negative regulation of regulated secretory pathway	1/60	23/23328	0.0575	0.0700	1
BP	GO:2000345	regulation of hepatocyte proliferation	1/60	23/23328	0.0575	0.0700	1
BP	GO:0002903	negative regulation of B cell apoptotic process	1/60	24/23328	0.0600	0.0717	1
BP	GO:0006582	melanin metabolic process	1/60	24/23328	0.0600	0.0717	1
BP	GO:0015732	prostaglandin transport	1/60	24/23328	0.0600	0.0717	1
BP	GO:0021544	subpallium development	1/60	24/23328	0.0600	0.0717	1
BP	GO:0030728	ovulation	1/60	24/23328	0.0600	0.0717	1
BP	GO:0032691	negative regulation of interleukin-1 beta production	1/60	24/23328	0.0600	0.0717	1
BP	GO:0035743	CD4-positive, alpha-beta T cell cytokine production	1/60	24/23328	0.0600	0.0717	1
BP	GO:0040033	negative regulation of translation, ncRNA-mediated	1/60	24/23328	0.0600	0.0717	1
BP	GO:0044550	secondary metabolite biosynthetic process	1/60	24/23328	0.0600	0.0717	1
BP	GO:0045324	late endosome to vacuole transport	1/60	24/23328	0.0600	0.0717	1
BP	GO:0045736	negative regulation of cyclin-dependent protein serine/threonine kinase activity	1/60	24/23328	0.0600	0.0717	1

BP	GO:0045974	regulation of translation, ncRNA-mediated	1/60	24/23328	0.0600	0.0717	1
BP	GO:0046823	negative regulation of nucleocytoplasmic transport	1/60	24/23328	0.0600	0.0717	1
BP	GO:0048670	regulation of collateral sprouting	1/60	24/23328	0.0600	0.0717	1
BP	GO:0051654	establishment of mitochondrion localization	1/60	24/23328	0.0600	0.0717	1
BP	GO:0090335	regulation of brown fat cell differentiation	1/60	24/23328	0.0600	0.0717	1
BP	GO:0010884	positive regulation of lipid storage	1/60	25/23328	0.0624	0.0732	1
BP	GO:0010954	positive regulation of protein processing	1/60	25/23328	0.0624	0.0732	1
BP	GO:0019068	virion assembly	1/60	25/23328	0.0624	0.0732	1
BP	GO:0032753	positive regulation of interleukin-4 production	1/60	25/23328	0.0624	0.0732	1
BP	GO:0032897	negative regulation of viral transcription	1/60	25/23328	0.0624	0.0732	1
BP	GO:0035384	thioester biosynthetic process	1/60	25/23328	0.0624	0.0732	1
BP	GO:0046426	negative regulation of receptor signaling pathway via JAK- STAT	1/60	25/23328	0.0624	0.0732	1
BP	GO:0046688	response to copper ion	1/60	25/23328	0.0624	0.0732	1
BP	GO:0060575	intestinal epithelial cell differentiation	1/60	25/23328	0.0624	0.0732	1
BP	GO:0070633	transepithelial transport	1/60	25/23328	0.0624	0.0732	1
BP	GO:0071108	protein K48-linked deubiquitination	1/60	25/23328	0.0624	0.0732	1
BP	GO:0071616	acyl-CoA biosynthetic process	1/60	25/23328	0.0624	0.0732	1
BP	GO:0090169	regulation of spindle assembly	1/60	25/23328	0.0624	0.0732	1
BP	GO:1901739	regulation of myoblast fusion	1/60	25/23328	0.0624	0.0732	1
BP	GO:1902230	negative regulation of intrinsic apoptotic signaling pathway in response to DNA damage	1/60	25/23328	0.0624	0.0732	1
BP	GO:1902993	positive regulation of amyloid precursor protein catabolic process	1/60	25/23328	0.0624	0.0732	1
BP	GO:1903798	regulation of production of miRNAs involved in gene silencing by miRNA	1/60	25/23328	0.0624	0.0732	1

BP	GO:1905208	negative regulation of cardiocyte differentiation	1/60	25/23328	0.0624	0.0732	1
BP	GO:0000289	nuclear-transcribed mRNA poly(A) tail shortening	1/60	26/23328	0.0648	0.0749	1
BP	GO:0000737	DNA catabolic process, endonucleolytic	1/60	26/23328	0.0648	0.0749	1
BP	GO:0032104	regulation of response to extracellular stimulus	1/60	26/23328	0.0648	0.0749	1
BP	GO:0032107	regulation of response to nutrient levels	1/60	26/23328	0.0648	0.0749	1
BP	GO:0032303	regulation of icosanoid secretion	1/60	26/23328	0.0648	0.0749	1
BP	GO:0032800	receptor biosynthetic process	1/60	26/23328	0.0648	0.0749	1
BP	GO:0065005	protein-lipid complex assembly	1/60	26/23328	0.0648	0.0749	1
BP	GO:0070168	negative regulation of biomineral tissue development	1/60	26/23328	0.0648	0.0749	1
BP	GO:0070233	negative regulation of T cell apoptotic process	1/60	26/23328	0.0648	0.0749	1
BP	GO:0070920	regulation of production of small RNA involved in gene silencing by RNA	1/60	26/23328	0.0648	0.0749	1
BP	GO:0071549	cellular response to dexamethasone stimulus	1/60	26/23328	0.0648	0.0749	1
BP	GO:0110150	negative regulation of biomineralization	1/60	26/23328	0.0648	0.0749	1
BP	GO:1901380	negative regulation of potassium ion transmembrane transport	1/60	26/23328	0.0648	0.0749	1
BP	GO:1904030	negative regulation of cyclin-dependent protein kinase activity	1/60	26/23328	0.0648	0.0749	1
BP	GO:1904893	negative regulation of receptor signaling pathway via STAT	1/60	26/23328	0.0648	0.0749	1
BP	GO:0002052	positive regulation of neuroblast proliferation	1/60	27/23328	0.0672	0.0760	1
BP	GO:0002068	glandular epithelial cell development	1/60	27/23328	0.0672	0.0760	1
BP	GO:0006882	cellular zinc ion homeostasis	1/60	27/23328	0.0672	0.0760	1
BP	GO:0030194	positive regulation of blood coagulation	1/60	27/23328	0.0672	0.0760	1
BP	GO:0030212	hyaluronan metabolic process	1/60	27/23328	0.0672	0.0760	1
BP	GO:0032528	microvillus organization	1/60	27/23328	0.0672	0.0760	1

BP	GO:0046885	regulation of hormone biosynthetic process	1/60	27/23328	0.0672	0.0760	1
BP	GO:0048305	immunoglobulin secretion	1/60	27/23328	0.0672	0.0760	1
BP	GO:0048799	animal organ maturation	1/60	27/23328	0.0672	0.0760	1
BP	GO:0051443	positive regulation of ubiquitin-protein transferase activity	1/60	27/23328	0.0672	0.0760	1
BP	GO:0060343	trabecula formation	1/60	27/23328	0.0672	0.0760	1
BP	GO:0061298	retina vasculature development in camera-type eye	1/60	27/23328	0.0672	0.0760	1
BP	GO:0071677	positive regulation of mononuclear cell migration	1/60	27/23328	0.0672	0.0760	1
BP	GO:0090103	cochlea morphogenesis	1/60	27/23328	0.0672	0.0760	1
BP	GO:0150077	regulation of neuroinflammatory response	1/60	27/23328	0.0672	0.0760	1
BP	GO:1900017	positive regulation of cytokine production involved in inflammatory response	1/60	27/23328	0.0672	0.0760	1
BP	GO:1900048	positive regulation of hemostasis	1/60	27/23328	0.0672	0.0760	1
BP	GO:1903319	positive regulation of protein maturation	1/60	27/23328	0.0672	0.0760	1
BP	GO:0006026	aminoglycan catabolic process	1/60	28/23328	0.0696	0.0775	1
BP	GO:0010460	positive regulation of heart rate	1/60	28/23328	0.0696	0.0775	1
BP	GO:0030878	thyroid gland development	1/60	28/23328	0.0696	0.0775	1
BP	GO:0033233	regulation of protein sumoylation	1/60	28/23328	0.0696	0.0775	1
BP	GO:0045648	positive regulation of erythrocyte differentiation	1/60	28/23328	0.0696	0.0775	1
BP	GO:0045922	negative regulation of fatty acid metabolic process	1/60	28/23328	0.0696	0.0775	1
BP	GO:0048596	embryonic camera-type eye morphogenesis	1/60	28/23328	0.0696	0.0775	1
BP	GO:0048820	hair follicle maturation	1/60	28/23328	0.0696	0.0775	1
BP	GO:0051016	barbed-end actin filament capping	1/60	28/23328	0.0696	0.0775	1
BP	GO:0055069	zinc ion homeostasis	1/60	28/23328	0.0696	0.0775	1
BP	GO:0060445	branching involved in salivary gland morphogenesis	1/60	28/23328	0.0696	0.0775	1
BP	GO:0061436	establishment of skin barrier	1/60	28/23328	0.0696	0.0775	1
BP	GO:0071480	cellular response to gamma radiation	1/60	28/23328	0.0696	0.0775	1

BP	GO:0001516	prostaglandin biosynthetic process	1/60	29/23328	0.0720	0.0785	1
BP	GO:0001919	regulation of receptor recycling	1/60	29/23328	0.0720	0.0785	1
BP	GO:0002507	tolerance induction	1/60	29/23328	0.0720	0.0785	1
BP	GO:0010586	miRNA metabolic process	1/60	29/23328	0.0720	0.0785	1
BP	GO:0010893	positive regulation of steroid biosynthetic process	1/60	29/23328	0.0720	0.0785	1
BP	GO:0030262	apoptotic nuclear changes	1/60	29/23328	0.0720	0.0785	1
BP	GO:0031063	regulation of histone deacetylation	1/60	29/23328	0.0720	0.0785	1
BP	GO:0031295	T cell costimulation	1/60	29/23328	0.0720	0.0785	1
BP	GO:0042403	thyroid hormone metabolic process	1/60	29/23328	0.0720	0.0785	1
BP	GO:0043032	positive regulation of macrophage activation	1/60	29/23328	0.0720	0.0785	1
BP	GO:0045109	intermediate filament organization	1/60	29/23328	0.0720	0.0785	1
BP	GO:0045187	regulation of circadian sleep/wake cycle, sleep	1/60	29/23328	0.0720	0.0785	1
BP	GO:0045589	regulation of regulatory T cell differentiation	1/60	29/23328	0.0720	0.0785	1
BP	GO:0046457	prostanoid biosynthetic process	1/60	29/23328	0.0720	0.0785	1
BP	GO:0060571	morphogenesis of an epithelial fold	1/60	29/23328	0.0720	0.0785	1
BP	GO:0061050	regulation of cell growth involved in cardiac muscle cell development	1/60	29/23328	0.0720	0.0785	1
BP	GO:0071353	cellular response to interleukin-4	1/60	29/23328	0.0720	0.0785	1
BP	GO:0071548	response to dexamethasone	1/60	29/23328	0.0720	0.0785	1
BP	GO:0090312	positive regulation of protein deacetylation	1/60	29/23328	0.0720	0.0785	1
BP	GO:0097345	mitochondrial outer membrane permeabilization	1/60	29/23328	0.0720	0.0785	1
BP	GO:0002360	T cell lineage commitment	1/60	30/23328	0.0744	0.0797	1
BP	GO:0002724	regulation of T cell cytokine production	1/60	30/23328	0.0744	0.0797	1
BP	GO:0003309	type B pancreatic cell differentiation	1/60	30/23328	0.0744	0.0797	1
BP	GO:0006767	water-soluble vitamin metabolic process	1/60	30/23328	0.0744	0.0797	1
BP	GO:0006829	zinc ion transport	1/60	30/23328	0.0744	0.0797	1

		cellular component disassembly					
BP	GO:0006921	involved in execution phase of apoptosis	1/60	30/23328	0.0744	0.0797	1
BP	GO:0009262	deoxyribonucleotide metabolic process	1/60	30/23328	0.0744	0.0797	1
BP	GO:0030947	regulation of vascular endothelial growth factor receptor signaling pathway	1/60	30/23328	0.0744	0.0797	1
BP	GO:0035162	embryonic hemopoiesis	1/60	30/23328	0.0744	0.0797	1
BP	GO:0035767	endothelial cell chemotaxis	1/60	30/23328	0.0744	0.0797	1
BP	GO:0043372	positive regulation of CD4-positive, alpha-beta T cell differentiation	1/60	30/23328	0.0744	0.0797	1
BP	GO:0043457	regulation of cellular respiration	1/60	30/23328	0.0744	0.0797	1
BP	GO:0050802	circadian sleep/wake cycle, sleep	1/60	30/23328	0.0744	0.0797	1
BP	GO:0050820	positive regulation of coagulation	1/60	30/23328	0.0744	0.0797	1
BP	GO:0051085	chaperone cofactor-dependent protein refolding	1/60	30/23328	0.0744	0.0797	1
BP	GO:0060143	positive regulation of syncytium formation by plasma membrane fusion	1/60	30/23328	0.0744	0.0797	1
BP	GO:0061082	myeloid leukocyte cytokine production	1/60	30/23328	0.0744	0.0797	1
BP	GO:0072539	T-helper 17 cell differentiation	1/60	30/23328	0.0744	0.0797	1
BP	GO:0120178	steroid hormone biosynthetic process	1/60	30/23328	0.0744	0.0797	1
BP	GO:1903579	negative regulation of ATP metabolic process	1/60	30/23328	0.0744	0.0797	1
BP	GO:0001963	synaptic transmission, dopaminergic	1/60	31/23328	0.0768	0.0809	1
BP	GO:0002230	positive regulation of defense response to virus by host	1/60	31/23328	0.0768	0.0809	1
BP	GO:0002828	regulation of type 2 immune response	1/60	31/23328	0.0768	0.0809	1
BP	GO:0031294	lymphocyte costimulation	1/60	31/23328	0.0768	0.0809	1
BP	GO:0032365	intracellular lipid transport	1/60	31/23328	0.0768	0.0809	1
BP	GO:0033137	negative regulation of peptidyl-serine phosphorylation	1/60	31/23328	0.0768	0.0809	1
BP	GO:0035640	exploration behavior	1/60	31/23328	0.0768	0.0809	1
BP	GO:0042168	heme metabolic process	1/60	31/23328	0.0768	0.0809	1

BP	GO:0044319	wound healing, spreading of cells	1/60	31/23328	0.0768	0.0809	1
BP	GO:0044788	modulation by host of viral process	1/60	31/23328	0.0768	0.0809	1
BP	GO:0045920	negative regulation of exocytosis	1/60	31/23328	0.0768	0.0809	1
BP	GO:0045932	negative regulation of muscle contraction	1/60	31/23328	0.0768	0.0809	1
BP	GO:0048011	neurotrophin TRK receptor signaling pathway	1/60	31/23328	0.0768	0.0809	1
BP	GO:0061036	positive regulation of cartilage development	1/60	31/23328	0.0768	0.0809	1
BP	GO:0070670	response to interleukin-4	1/60	31/23328	0.0768	0.0809	1
BP	GO:0090505	epiboly involved in wound healing	1/60	31/23328	0.0768	0.0809	1
BP	GO:1900117	regulation of execution phase of apoptosis	1/60	31/23328	0.0768	0.0809	1
BP	GO:1902253	regulation of intrinsic apoptotic signaling pathway by p53 class mediator	1/60	31/23328	0.0768	0.0809	1
BP	GO:1902932	positive regulation of alcohol biosynthetic process	1/60	31/23328	0.0768	0.0809	1
BP	GO:0001893	maternal placenta development	1/60	32/23328	0.0792	0.0820	1
BP	GO:0002902	regulation of B cell apoptotic process	1/60	32/23328	0.0792	0.0820	1
BP	GO:0008206	bile acid metabolic process	1/60	32/23328	0.0792	0.0820	1
BP	GO:0010043	response to zinc ion	1/60	32/23328	0.0792	0.0820	1
BP	GO:0010614	negative regulation of cardiac muscle hypertrophy	1/60	32/23328	0.0792	0.0820	1
BP	GO:0010939	regulation of necrotic cell death	1/60	32/23328	0.0792	0.0820	1
BP	GO:0016242	negative regulation of macroautophagy	1/60	32/23328	0.0792	0.0820	1
BP	GO:0032673	regulation of interleukin-4 production	1/60	32/23328	0.0792	0.0820	1
BP	GO:0032692	negative regulation of interleukin-1 production	1/60	32/23328	0.0792	0.0820	1
BP	GO:0032958	inositol phosphate biosynthetic process	1/60	32/23328	0.0792	0.0820	1
BP	GO:0042749	regulation of circadian sleep/wake cycle	1/60	32/23328	0.0792	0.0820	1
BP	GO:0048668	collateral sprouting	1/60	32/23328	0.0792	0.0820	1

BP	GO:0051150	regulation of smooth muscle cell differentiation	1/60	32/23328	0.0792	0.0820	1
BP	GO:0055022	negative regulation of cardiac muscle tissue growth	1/60	32/23328	0.0792	0.0820	1
BP	GO:0060561	apoptotic process involved in morphogenesis	1/60	32/23328	0.0792	0.0820	1
BP	GO:0061117	negative regulation of heart growth	1/60	32/23328	0.0792	0.0820	1
BP	GO:0070536	protein K63-linked deubiquitination	1/60	32/23328	0.0792	0.0820	1
BP	GO:0090504	epiboly	1/60	32/23328	0.0792	0.0820	1
BP	GO:1901797	negative regulation of signal transduction by p53 class mediator	1/60	32/23328	0.0792	0.0820	1
BP	GO:1902110	positive regulation of mitochondrial membrane permeability involved in apoptotic process	1/60	32/23328	0.0792	0.0820	1
BP	GO:2000352	negative regulation of endothelial cell apoptotic process	1/60	32/23328	0.0792	0.0820	1
BP	GO:2000515	positive, alpha-beta T cell activation	1/60	32/23328	0.0792	0.0820	1
BP	GO:0006084	acetyl-CoA metabolic process	1/60	33/23328	0.0815	0.0836	1
BP	GO:0022410	circadian sleep/wake cycle process	1/60	33/23328	0.0815	0.0836	1
BP	GO:0032369	negative regulation of lipid transport	1/60	33/23328	0.0815	0.0836	1
BP	GO:0033081	regulation of T cell differentiation in thymus	1/60	33/23328	0.0815	0.0836	1
BP	GO:0033561	regulation of water loss via skin	1/60	33/23328	0.0815	0.0836	1
BP	GO:0045066	regulatory T cell differentiation	1/60	33/23328	0.0815	0.0836	1
BP	GO:0045616	regulation of keratinocyte differentiation	1/60	33/23328	0.0815	0.0836	1
BP	GO:0060740	prostate gland epithelium morphogenesis	1/60	33/23328	0.0815	0.0836	1
BP	GO:0060969	negative regulation of gene silencing	1/60	33/23328	0.0815	0.0836	1
BP	GO:0061157	mRNA destabilization	1/60	33/23328	0.0815	0.0836	1
BP	GO:0002021	response to dietary excess	1/60	34/23328	0.0839	0.0848	1
BP	GO:0006884	cell volume homeostasis	1/60	34/23328	0.0839	0.0848	1

BP	GO:0014741	negative regulation of muscle hypertrophy	1/60	34/23328	0.0839	0.0848	1
BP	GO:0021591	ventricular system development	1/60	34/23328	0.0839	0.0848	1
BP	GO:0032509	endosome transport via multivesicular body sorting pathway	1/60	34/23328	0.0839	0.0848	1
BP	GO:0035883	enteroendocrine cell differentiation	1/60	34/23328	0.0839	0.0848	1
BP	GO:0048048	embryonic eye morphogenesis	1/60	34/23328	0.0839	0.0848	1
BP	GO:0060512	prostate gland morphogenesis	1/60	34/23328	0.0839	0.0848	1
BP	GO:0090022	regulation of neutrophil chemotaxis	1/60	34/23328	0.0839	0.0848	1
BP	GO:1902686	mitochondrial outer membrane permeabilization involved in programmed cell death	1/60	34/23328	0.0839	0.0848	1
BP	GO:1903146	regulation of autophagy of mitochondrion	1/60	34/23328	0.0839	0.0848	1
BP	GO:1904646	cellular response to amyloid-beta	1/60	34/23328	0.0839	0.0848	1
BP	GO:2000108	positive regulation of leukocyte apoptotic process	1/60	34/23328	0.0839	0.0848	1
BP	GO:0006308	DNA catabolic process	1/60	35/23328	0.0863	0.0855	1
BP	GO:0006458	de novo' protein folding	1/60	35/23328	0.0863	0.0855	1
BP	GO:0006623	protein targeting to vacuole	1/60	35/23328	0.0863	0.0855	1
BP	GO:0007031	peroxisome organization	1/60	35/23328	0.0863	0.0855	1
BP	GO:0010837	regulation of keratinocyte proliferation	1/60	35/23328	0.0863	0.0855	1
BP	GO:0032094	response to food	1/60	35/23328	0.0863	0.0855	1
BP	GO:0033866	nucleoside bisphosphate biosynthetic process	1/60	35/23328	0.0863	0.0855	1
BP	GO:0034030	ribonucleoside bisphosphate biosynthetic process	1/60	35/23328	0.0863	0.0855	1
BP	GO:0034033	purine nucleoside bisphosphate biosynthetic process	1/60	35/23328	0.0863	0.0855	1
BP	GO:0034122	negative regulation of toll-like receptor signaling pathway	1/60	35/23328	0.0863	0.0855	1
BP	GO:0043516	regulation of DNA damage response, signal transduction by p53 class mediator	1/60	35/23328	0.0863	0.0855	1
BP	GO:0045987	positive regulation of smooth muscle contraction	1/60	35/23328	0.0863	0.0855	1
BP	GO:0046677	response to antibiotic	1/60	35/23328	0.0863	0.0855	1

BP	GO:0050832	defense response to fungus	1/60	35/23328	0.0863	0.0855	1
BP	GO:0050869	negative regulation of B cell activation	1/60	35/23328	0.0863	0.0855	1
BP	GO:0051084	de novo' posttranslational protein folding	1/60	35/23328	0.0863	0.0855	1
BP	GO:0055090	acylglycerol homeostasis	1/60	35/23328	0.0863	0.0855	1
BP	GO:0060142	regulation of syncytium formation by plasma membrane fusion	1/60	35/23328	0.0863	0.0855	1
BP	GO:0060236	regulation of mitotic spindle organization	1/60	35/23328	0.0863	0.0855	1
BP	GO:0070328	triglyceride homeostasis	1/60	35/23328	0.0863	0.0855	1
BP	GO:0072538	T-helper 17 type immune response	1/60	35/23328	0.0863	0.0855	1
BP	GO:1900181	negative regulation of protein localization to nucleus	1/60	35/23328	0.0863	0.0855	1
BP	GO:1902003	regulation of amyloid-beta formation	1/60	35/23328	0.0863	0.0855	1
BP	GO:0002701	negative regulation of production of molecular mediator of immune response	1/60	36/23328	0.0886	0.0871	1
BP	GO:0034381	plasma lipoprotein particle clearance	1/60	36/23328	0.0886	0.0871	1
BP	GO:0042745	circadian sleep/wake cycle	1/60	36/23328	0.0886	0.0871	1
BP	GO:0042832	defense response to protozoan	1/60	36/23328	0.0886	0.0871	1
BP	GO:0050779	RNA destabilization	1/60	36/23328	0.0886	0.0871	1
BP	GO:2000191	regulation of fatty acid transport	1/60	36/23328	0.0886	0.0871	1
BP	GO:2000516	positive regulation of CD4-positive, alpha-beta T cell activation	1/60	36/23328	0.0886	0.0871	1
BP	GO:0007435	salivary gland morphogenesis	1/60	37/23328	0.0910	0.0886	1
BP	GO:0021680	cerebellar Purkinje cell layer development	1/60	37/23328	0.0910	0.0886	1
BP	GO:0035794	positive regulation of mitochondrial membrane permeability	1/60	37/23328	0.0910	0.0886	1
BP	GO:0045047	protein targeting to ER	1/60	37/23328	0.0910	0.0886	1
BP	GO:1902229	regulation of intrinsic apoptotic signaling pathway in response to DNA damage	1/60	37/23328	0.0910	0.0886	1
BP	GO:0001706	endoderm formation	1/60	38/23328	0.0933	0.0894	1

BP	GO:0010831	positive regulation of myotube differentiation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0014002	astrocyte development	1/60	38/23328	0.0933	0.0894	1
BP	GO:0019432	triglyceride biosynthetic process	1/60	38/23328	0.0933	0.0894	1
BP	GO:0032733	positive regulation of interleukin-10 production	1/60	38/23328	0.0933	0.0894	1
BP	GO:0033238	regulation of cellular amine metabolic process	1/60	38/23328	0.0933	0.0894	1
BP	GO:0035335	peptidyl-tyrosine dephosphorylation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0038084	vascular endothelial growth factor signaling pathway	1/60	38/23328	0.0933	0.0894	1
BP	GO:0043267	negative regulation of potassium ion transport	1/60	38/23328	0.0933	0.0894	1
BP	GO:0043304	regulation of mast cell degranulation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0045601	regulation of endothelial cell differentiation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0045622	regulation of T-helper cell differentiation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0045940	positive regulation of steroid metabolic process	1/60	38/23328	0.0933	0.0894	1
BP	GO:0046627	negative regulation of insulin receptor signaling pathway	1/60	38/23328	0.0933	0.0894	1
BP	GO:0046640	regulation of alpha-beta T cell proliferation	1/60	38/23328	0.0933	0.0894	1
BP	GO:0051953	negative regulation of amine transport	1/60	38/23328	0.0933	0.0894	1
BP	GO:0051968	positive regulation of synaptic transmission, glutamatergic	1/60	38/23328	0.0933	0.0894	1
BP	GO:0071985	multivesicular body sorting pathway	1/60	38/23328	0.0933	0.0894	1
BP	GO:1904037	positive regulation of epithelial cell apoptotic process	1/60	38/23328	0.0933	0.0894	1
BP	GO:2000463	positive regulation of excitatory postsynaptic potential	1/60	38/23328	0.0933	0.0894	1
BP	GO:0006739	NADP metabolic process	1/60	39/23328	0.0956	0.0905	1
BP	GO:0006778	porphyrin-containing compound metabolic process	1/60	39/23328	0.0956	0.0905	1
BP	GO:0007212	dopamine receptor signaling pathway	1/60	39/23328	0.0956	0.0905	1
BP	GO:0021983	pituitary gland development	1/60	39/23328	0.0956	0.0905	1

BP	GO:0032506	cytokinetic process	1/60	39/23328	0.0956	0.0905	1
BP	GO:0032735	positive regulation of interleukin-12 production	1/60	39/23328	0.0956	0.0905	1
BP	GO:0033006	regulation of mast cell activation involved in immune response	1/60	39/23328	0.0956	0.0905	1
BP	GO:0042554	superoxide anion generation	1/60	39/23328	0.0956	0.0905	1
BP	GO:0060251	regulation of glial cell proliferation	1/60	39/23328	0.0956	0.0905	1
BP	GO:0061462	protein localization to lysosome	1/60	39/23328	0.0956	0.0905	1
BP	GO:0071827	plasma lipoprotein particle organization	1/60	39/23328	0.0956	0.0905	1
BP	GO:0090224	regulation of spindle organization	1/60	39/23328	0.0956	0.0905	1
BP	GO:1902108	regulation of mitochondrial membrane permeability involved in apoptotic process	1/60	39/23328	0.0956	0.0905	1
BP	GO:0001562	response to protozoan	1/60	40/23328	0.0980	0.0915	1
BP	GO:0001881	receptor recycling	1/60	40/23328	0.0980	0.0915	1
BP	GO:0007616	long-term memory	1/60	40/23328	0.0980	0.0915	1
BP	GO:0009409	response to cold	1/60	40/23328	0.0980	0.0915	1
BP	GO:0030431	sleep	1/60	40/23328	0.0980	0.0915	1
BP	GO:0031076	embryonic camera-type eye development	1/60	40/23328	0.0980	0.0915	1
BP	GO:0032633	interleukin-4 production	1/60	40/23328	0.0980	0.0915	1
BP	GO:0038179	neurotrophin signaling pathway	1/60	40/23328	0.0980	0.0915	1
BP	GO:0040019	positive regulation of embryonic development	1/60	40/23328	0.0980	0.0915	1
BP	GO:0042092	type 2 immune response	1/60	40/23328	0.0980	0.0915	1
BP	GO:0043368	positive T cell selection	1/60	40/23328	0.0980	0.0915	1
BP	GO:0060259	regulation of feeding behavior	1/60	40/23328	0.0980	0.0915	1
BP	GO:0071542	dopaminergic neuron differentiation	1/60	40/23328	0.0980	0.0915	1
BP	GO:1902692	regulation of neuroblast proliferation	1/60	40/23328	0.0980	0.0915	1
BP	GO:1903959	regulation of anion transmembrane transport	1/60	40/23328	0.0980	0.0915	1
BP	GO:1904645	response to amyloid-beta	1/60	40/23328	0.0980	0.0915	1
BP	GO:0002369	T cell cytokine production	1/60	41/23328	0.1003	0.0928	1
BP	GO:0007431	salivary gland development	1/60	41/23328	0.1003	0.0928	1
BP	GO:0008207	C21-steroid hormone metabolic process	1/60	41/23328	0.1003	0.0928	1

BP	GO:0014037	Schwann cell differentiation	1/60	41/23328	0.1003	0.0928	1
BP	GO:0034205	amyloid-beta formation	1/60	41/23328	0.1003	0.0928	1
BP	GO:0046164	alcohol catabolic process	1/60	41/23328	0.1003	0.0928	1
BP	GO:0051693	actin filament capping	1/60	41/23328	0.1003	0.0928	1
BP	GO:0071364	cellular response to epidermal growth factor stimulus	1/60	41/23328	0.1003	0.0928	1
BP	GO:0072595	maintenance of protein localization in organelle	1/60	41/23328	0.1003	0.0928	1
BP	GO:0072599	establishment of protein localization to endoplasmic reticulum	1/60	41/23328	0.1003	0.0928	1
BP	GO:1900744	regulation of p38MAPK cascade	1/60	41/23328	0.1003	0.0928	1
BP	GO:1902991	regulation of amyloid precursor protein catabolic process	1/60	41/23328	0.1003	0.0928	1
BP	GO:0030501	positive regulation of bone mineralization	1/60	42/23328	0.1026	0.0944	1
BP	GO:0046633	alpha-beta T cell proliferation	1/60	42/23328	0.1026	0.0944	1
BP	GO:0051154	negative regulation of striated muscle cell differentiation	1/60	42/23328	0.1026	0.0944	1
BP	GO:1900077	negative regulation of cellular response to insulin stimulus	1/60	42/23328	0.1026	0.0944	1
BP	GO:2000279	negative regulation of DNA biosynthetic process	1/60	42/23328	0.1026	0.0944	1
BP	GO:0001783	B cell apoptotic process	1/60	43/23328	0.1049	0.0954	1
BP	GO:0003298	physiological muscle hypertrophy	1/60	43/23328	0.1049	0.0954	1
BP	GO:0003301	physiological cardiac muscle hypertrophy	1/60	43/23328	0.1049	0.0954	1
BP	GO:0035774	positive regulation of insulin secretion involved in cellular response to glucose stimulus	1/60	43/23328	0.1049	0.0954	1
BP	GO:0046636	negative regulation of alpha-beta T cell activation	1/60	43/23328	0.1049	0.0954	1
BP	GO:0046782	regulation of viral transcription	1/60	43/23328	0.1049	0.0954	1
BP	GO:0055026	negative regulation of cardiac muscle tissue development	1/60	43/23328	0.1049	0.0954	1
BP	GO:0061049	cell growth involved in cardiac muscle cell development	1/60	43/23328	0.1049	0.0954	1
BP	GO:0070232	regulation of T cell apoptotic process	1/60	43/23328	0.1049	0.0954	1

BP	GO:0071825	protein-lipid complex subunit organization	1/60	43/23328	0.1049	0.0954	1
BP	GO:1901381	positive regulation of potassium ion transmembrane transport	1/60	43/23328	0.1049	0.0954	1
BP	GO:1902742	apoptotic process involved in development	1/60	43/23328	0.1049	0.0954	1
BP	GO:0007080	mitotic metaphase plate congression	1/60	44/23328	0.1072	0.0964	1
BP	GO:0010559	regulation of glycoprotein biosynthetic process	1/60	44/23328	0.1072	0.0964	1
BP	GO:0016925	protein sumoylation	1/60	44/23328	0.1072	0.0964	1
BP	GO:0032350	regulation of hormone metabolic process	1/60	44/23328	0.1072	0.0964	1
BP	GO:0033628	regulation of cell adhesion mediated by integrin	1/60	44/23328	0.1072	0.0964	1
BP	GO:0045823	positive regulation of heart contraction	1/60	44/23328	0.1072	0.0964	1
BP	GO:0046621	negative regulation of organ growth	1/60	44/23328	0.1072	0.0964	1
BP	GO:0048854	brain morphogenesis	1/60	44/23328	0.1072	0.0964	1
BP	GO:0050691	regulation of defense response to virus by host	1/60	44/23328	0.1072	0.0964	1
BP	GO:0070849	response to epidermal growth factor	1/60	44/23328	0.1072	0.0964	1
BP	GO:1901998	toxin transport	1/60	44/23328	0.1072	0.0964	1
BP	GO:1903523	negative regulation of blood circulation	1/60	44/23328	0.1072	0.0964	1
BP	GO:0010464	regulation of mesenchymal cell proliferation	1/60	45/23328	0.1095	0.0979	1
BP	GO:0010824	regulation of centrosome duplication	1/60	45/23328	0.1095	0.0979	1
BP	GO:0032873	negative regulation of stress-activated MAPK cascade	1/60	45/23328	0.1095	0.0979	1
BP	GO:0042181	ketone biosynthetic process	1/60	45/23328	0.1095	0.0979	1
BP	GO:0050856	regulation of T cell receptor signaling pathway	1/60	45/23328	0.1095	0.0979	1
BP	GO:0070303	negative regulation of stress-activated protein kinase signaling cascade	1/60	45/23328	0.1095	0.0979	1
BP	GO:1902743	regulation of lamellipodium organization	1/60	45/23328	0.1095	0.0979	1

BP	GO:0010799	regulation of peptidyl-threonine phosphorylation	1/60	46/23328	0.1118	0.0992	1
BP	GO:0019083	viral transcription	1/60	46/23328	0.1118	0.0992	1
BP	GO:0030835	negative regulation of actin filament depolymerization	1/60	46/23328	0.1118	0.0992	1
BP	GO:0043616	keratinocyte proliferation	1/60	46/23328	0.1118	0.0992	1
BP	GO:0045740	positive regulation of DNA replication	1/60	46/23328	0.1118	0.0992	1
BP	GO:0048536	spleen development	1/60	46/23328	0.1118	0.0992	1
BP	GO:0090317	negative regulation of intracellular protein transport	1/60	46/23328	0.1118	0.0992	1
BP	GO:0098926	postsynaptic signal transduction	1/60	46/23328	0.1118	0.0992	1
BP	GO:0001941	postsynaptic membrane organization	1/60	47/23328	0.1141	0.1003	1
BP	GO:0002820	negative regulation of adaptive immune response	1/60	47/23328	0.1141	0.1003	1
BP	GO:0010718	positive regulation of epithelial to mesenchymal transition	1/60	47/23328	0.1141	0.1003	1
BP	GO:0033013	tetrapyrrole metabolic process	1/60	47/23328	0.1141	0.1003	1
BP	GO:0043124	negative regulation of I-kappaB kinase/NF-kappaB signaling	1/60	47/23328	0.1141	0.1003	1
BP	GO:0043277	apoptotic cell clearance	1/60	47/23328	0.1141	0.1003	1
BP	GO:0045581	negative regulation of T cell differentiation	1/60	47/23328	0.1141	0.1003	1
BP	GO:0046460	neutral lipid biosynthetic process	1/60	47/23328	0.1141	0.1003	1
BP	GO:0046463	acylglycerol biosynthetic process	1/60	47/23328	0.1141	0.1003	1
BP	GO:0051646	mitochondrion localization	1/60	47/23328	0.1141	0.1003	1
BP	GO:0060135	maternal process involved in female pregnancy	1/60	47/23328	0.1141	0.1003	1
BP	GO:0010862	positive regulation of pathway-restricted SMAD protein phosphorylation	1/60	48/23328	0.1164	0.1018	1
BP	GO:0010883	regulation of lipid storage	1/60	48/23328	0.1164	0.1018	1
BP	GO:0032965	regulation of collagen biosynthetic process	1/60	48/23328	0.1164	0.1018	1
BP	GO:0044848	biological phase	1/60	48/23328	0.1164	0.1018	1
BP	GO:0045907	positive regulation of vasoconstriction	1/60	48/23328	0.1164	0.1018	1
BP	GO:0070527	platelet aggregation	1/60	48/23328	0.1164	0.1018	1

BP	GO:1902622	regulation of neutrophil migration	1/60	48/23328	0.1164	0.1018	1
BP	GO:0006692	prostanoid metabolic process	1/60	49/23328	0.1187	0.1031	1
BP	GO:0006693	prostaglandin metabolic process	1/60	49/23328	0.1187	0.1031	1
BP	GO:0010332	response to gamma radiation	1/60	49/23328	0.1187	0.1031	1
BP	GO:0035196	production of miRNAs involved in gene silencing by miRNA	1/60	49/23328	0.1187	0.1031	1
BP	GO:0042755	eating behavior	1/60	49/23328	0.1187	0.1031	1
BP	GO:0046638	positive regulation of alpha-beta T cell differentiation	1/60	49/23328	0.1187	0.1031	1
BP	GO:0048255	mRNA stabilization	1/60	49/23328	0.1187	0.1031	1
BP	GO:0090102	cochlea development	1/60	49/23328	0.1187	0.1031	1
BP	GO:1903018	regulation of glycoprotein metabolic process	1/60	49/23328	0.1187	0.1031	1
BP	GO:1905953	negative regulation of lipid localization	1/60	49/23328	0.1187	0.1031	1
BP	GO:2000725	regulation of cardiac muscle cell differentiation	1/60	49/23328	0.1187	0.1031	1
BP	GO:0007032	endosome organization	1/60	50/23328	0.1209	0.1042	1
BP	GO:0007520	myoblast fusion	1/60	50/23328	0.1209	0.1042	1
BP	GO:0008333	endosome to lysosome transport	1/60	50/23328	0.1209	0.1042	1
BP	GO:0032309	icosanoid secretion	1/60	50/23328	0.1209	0.1042	1
BP	GO:0032715	negative regulation of interleukin-6 production	1/60	50/23328	0.1209	0.1042	1
BP	GO:0043370	regulation of CD4-positive, alpha-beta T cell differentiation	1/60	50/23328	0.1209	0.1042	1
BP	GO:0043392	negative regulation of DNA binding	1/60	50/23328	0.1209	0.1042	1
BP	GO:0051438	regulation of ubiquitin-protein transferase activity	1/60	50/23328	0.1209	0.1042	1
BP	GO:0070169	positive regulation of biomineral tissue development	1/60	50/23328	0.1209	0.1042	1
BP	GO:0110151	positive regulation of biomineralization	1/60	50/23328	0.1209	0.1042	1
BP	GO:1903573	negative regulation of response to endoplasmic reticulum stress nuclear-transcribed mRNA	1/60	50/23328	0.1209	0.1042	1
BP	GO:0000288	catabolic process, deadenylation-dependent decay	1/60	51/23328	0.1232	0.1051	1
BP	GO:0008089	anterograde axonal transport	1/60	51/23328	0.1232	0.1051	1
BP	GO:0031050	dsRNA processing	1/60	51/23328	0.1232	0.1051	1

BP	GO:0031663	lipopolysaccharide-mediated signaling pathway	1/60	51/23328	0.1232	0.1051	1
BP	GO:0032330	regulation of chondrocyte differentiation	1/60	51/23328	0.1232	0.1051	1
BP	GO:0032722	positive regulation of chemokine production	1/60	51/23328	0.1232	0.1051	1
BP	GO:0042987	amyloid precursor protein catabolic process	1/60	51/23328	0.1232	0.1051	1
BP	GO:0043303	mast cell degranulation	1/60	51/23328	0.1232	0.1051	1
BP	GO:0046189	phenol-containing compound biosynthetic process	1/60	51/23328	0.1232	0.1051	1
BP	GO:0046470	phosphatidylcholine metabolic process	1/60	51/23328	0.1232	0.1051	1
BP	GO:0070918	production of small RNA involved in gene silencing by RNA	1/60	51/23328	0.1232	0.1051	1
BP	GO:0071470	cellular response to osmotic stress	1/60	51/23328	0.1232	0.1051	1
BP	GO:0090311	regulation of protein deacetylation	1/60	51/23328	0.1232	0.1051	1
BP	GO:0002279	mast cell activation involved in immune response	1/60	52/23328	0.1255	0.1062	1
BP	GO:0002448	mast cell mediated immunity	1/60	52/23328	0.1255	0.1062	1
BP	GO:0002639	positive regulation of immunoglobulin production	1/60	52/23328	0.1255	0.1062	1
BP	GO:0009620	response to fungus	1/60	52/23328	0.1255	0.1062	1
BP	GO:0030857	negative regulation of epithelial cell differentiation	1/60	52/23328	0.1255	0.1062	1
BP	GO:0043268	positive regulation of potassium ion transport	1/60	52/23328	0.1255	0.1062	1
BP	GO:0045104	intermediate filament cytoskeleton organization	1/60	52/23328	0.1255	0.1062	1
BP	GO:0045933	positive regulation of muscle contraction	1/60	52/23328	0.1255	0.1062	1
BP	GO:0061014	positive regulation of mRNA catabolic process	1/60	52/23328	0.1255	0.1062	1
BP	GO:0065002	intracellular protein transmembrane transport	1/60	52/23328	0.1255	0.1062	1
BP	GO:0140353	lipid export from cell	1/60	52/23328	0.1255	0.1062	1
BP	GO:1900015	regulation of cytokine production involved in inflammatory response	1/60	52/23328	0.1255	0.1062	1

BP	GO:0001662	behavioral fear response	1/60	53/23328	0.1277	0.1070	1
BP	GO:0001960	negative regulation of cytokine-mediated signaling pathway	1/60	53/23328	0.1277	0.1070	1
BP	GO:0009395	phospholipid catabolic process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0030850	prostate gland development	1/60	53/23328	0.1277	0.1070	1
BP	GO:0032720	negative regulation of tumor necrosis factor production	1/60	53/23328	0.1277	0.1070	1
BP	GO:0034605	cellular response to heat	1/60	53/23328	0.1277	0.1070	1
BP	GO:0044058	regulation of digestive system process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0045103	intermediate filament-based process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0046148	pigment biosynthetic process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0046902	regulation of mitochondrial membrane permeability	1/60	53/23328	0.1277	0.1070	1
BP	GO:0050435	amyloid-beta metabolic process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0051055	negative regulation of lipid biosynthetic process	1/60	53/23328	0.1277	0.1070	1
BP	GO:0051955	regulation of amino acid transport	1/60	53/23328	0.1277	0.1070	1
BP	GO:0061383	trabecula morphogenesis	1/60	53/23328	0.1277	0.1070	1
BP	GO:0002209	behavioral defense response	1/60	54/23328	0.1300	0.1079	1
BP	GO:0010823	negative regulation of mitochondrion organization	1/60	54/23328	0.1300	0.1079	1
BP	GO:0014009	glial cell proliferation	1/60	54/23328	0.1300	0.1079	1
BP	GO:0035272	exocrine system development	1/60	54/23328	0.1300	0.1079	1
BP	GO:0042743	hydrogen peroxide metabolic process	1/60	54/23328	0.1300	0.1079	1
BP	GO:0043300	regulation of leukocyte degranulation	1/60	54/23328	0.1300	0.1079	1
BP	GO:0045687	positive regulation of glial cell differentiation	1/60	54/23328	0.1300	0.1079	1
BP	GO:0048546	digestive tract morphogenesis	1/60	54/23328	0.1300	0.1079	1
BP	GO:0071806	protein transmembrane transport	1/60	54/23328	0.1300	0.1079	1
BP	GO:1902476	chloride transmembrane transport	1/60	54/23328	0.1300	0.1079	1
BP	GO:1903556	negative regulation of tumor necrosis factor superfamily cytokine production	1/60	54/23328	0.1300	0.1079	1

		regulation of vascular					
BP	GO:1904705	associated smooth muscle cell proliferation	1/60	54/23328	0.1300	0.1079	1
BP	GO:1990874	vascular associated smooth muscle cell proliferation	1/60	54/23328	0.1300	0.1079	1
BP	GO:2000649	regulation of sodium ion transmembrane transporter activity	1/60	54/23328	0.1300	0.1079	1
BP	GO:0002534	cytokine production involved in inflammatory response	1/60	55/23328	0.1322	0.1091	1
BP	GO:0002720	positive regulation of cytokine production involved in immune response	1/60	55/23328	0.1322	0.1091	1
BP	GO:0010712	regulation of collagen metabolic process	1/60	55/23328	0.1322	0.1091	1
BP	GO:0030834	regulation of actin filament depolymerization	1/60	55/23328	0.1322	0.1091	1
BP	GO:0042531	positive regulation of tyrosine phosphorylation of STAT protein	1/60	55/23328	0.1322	0.1091	1
BP	GO:0045604	regulation of epidermal cell differentiation	1/60	55/23328	0.1322	0.1091	1
BP	GO:0050891	multicellular organismal water homeostasis	1/60	55/23328	0.1322	0.1091	1
BP	GO:0002704	negative regulation of leukocyte mediated immunity	1/60	56/23328	0.1344	0.1100	1
BP	GO:0021587	cerebellum morphogenesis	1/60	56/23328	0.1344	0.1100	1
BP	GO:0043647	inositol phosphate metabolic process	1/60	56/23328	0.1344	0.1100	1
BP	GO:0045620	negative regulation of lymphocyte differentiation	1/60	56/23328	0.1344	0.1100	1
BP	GO:0050732	negative regulation of peptidyl-tyrosine phosphorylation	1/60	56/23328	0.1344	0.1100	1
BP	GO:0050873	brown fat cell differentiation	1/60	56/23328	0.1344	0.1100	1
BP	GO:0051568	histone H3-K4 methylation	1/60	56/23328	0.1344	0.1100	1
BP	GO:0070265	necrotic cell death	1/60	56/23328	0.1344	0.1100	1
BP	GO:0098586	cellular response to virus	1/60	56/23328	0.1344	0.1100	1
BP	GO:0098815	modulation of excitatory postsynaptic potential	1/60	56/23328	0.1344	0.1100	1
BP	GO:1900449	regulation of glutamate receptor signaling pathway	1/60	56/23328	0.1344	0.1100	1
BP	GO:1903350	response to dopamine	1/60	56/23328	0.1344	0.1100	1

BP	GO:1903351	cellular response to dopamine	1/60	56/23328	0.1344	0.1100	1
BP	GO:0002067	glandular epithelial cell differentiation	1/60	57/23328	0.1367	0.1108	1
BP	GO:0010463	mesenchymal cell proliferation	1/60	57/23328	0.1367	0.1108	1
BP	GO:0019748	secondary metabolic process	1/60	57/23328	0.1367	0.1108	1
BP	GO:0032964	collagen biosynthetic process	1/60	57/23328	0.1367	0.1108	1
BP	GO:0033003	regulation of mast cell activation	1/60	57/23328	0.1367	0.1108	1
BP	GO:0043030	regulation of macrophage activation	1/60	57/23328	0.1367	0.1108	1
BP	GO:0043489	RNA stabilization	1/60	57/23328	0.1367	0.1108	1
BP	GO:0045058	T cell selection	1/60	57/23328	0.1367	0.1108	1
BP	GO:0060761	negative regulation of response to cytokine stimulus	1/60	57/23328	0.1367	0.1108	1
BP	GO:0071622	regulation of granulocyte chemotaxis	1/60	57/23328	0.1367	0.1108	1
BP	GO:1902373	negative regulation of mRNA catabolic process	1/60	57/23328	0.1367	0.1108	1
BP	GO:2000648	positive regulation of stem cell proliferation	1/60	57/23328	0.1367	0.1108	1
BP	GO:0001755	neural crest cell migration	1/60	58/23328	0.1389	0.1122	1
BP	GO:0010656	negative regulation of muscle cell apoptotic process	1/60	58/23328	0.1389	0.1122	1
BP	GO:0032653	regulation of interleukin-10 production	1/60	58/23328	0.1389	0.1122	1
BP	GO:0032655	regulation of interleukin-12 production	1/60	58/23328	0.1389	0.1122	1
BP	GO:0042596	fear response	1/60	58/23328	0.1389	0.1122	1
BP	GO:0045071	negative regulation of viral genome replication	1/60	58/23328	0.1389	0.1122	1
BP	GO:0002011	morphogenesis of an epithelial sheet	1/60	59/23328	0.1411	0.1138	1
BP	GO:0007164	establishment of tissue polarity	1/60	59/23328	0.1411	0.1138	1
BP	GO:0030042	actin filament depolymerization	1/60	59/23328	0.1411	0.1138	1
BP	GO:0021517	ventral spinal cord development	1/60	60/23328	0.1433	0.1147	1
BP	GO:0021575	hindbrain morphogenesis	1/60	60/23328	0.1433	0.1147	1
BP	GO:0045744	negative regulation of G protein-coupled receptor signaling pathway	1/60	60/23328	0.1433	0.1147	1
BP	GO:0046605	regulation of centrosome cycle	1/60	60/23328	0.1433	0.1147	1
BP	GO:0051310	metaphase plate congression	1/60	60/23328	0.1433	0.1147	1

BP	GO:0070098	chemokine-mediated signaling pathway	1/60	60/23328	0.1433	0.1147	1
BP	GO:0070231	T cell apoptotic process	1/60	60/23328	0.1433	0.1147	1
BP	GO:1901016	regulation of potassium ion transmembrane transporter activity	1/60	60/23328	0.1433	0.1147	1
BP	GO:1901616	organic hydroxy compound catabolic process	1/60	60/23328	0.1433	0.1147	1
BP	GO:2001238	positive regulation of extrinsic apoptotic signaling pathway	1/60	60/23328	0.1433	0.1147	1
BP	GO:0006446	regulation of translational initiation	1/60	61/23328	0.1456	0.1160	1
BP	GO:0032615	interleukin-12 production	1/60	61/23328	0.1456	0.1160	1
BP	GO:0045824	negative regulation of innate immune response	1/60	61/23328	0.1456	0.1160	1
BP	GO:0048286	lung alveolus development	1/60	61/23328	0.1456	0.1160	1
BP	GO:0051851	modulation by host of symbiont process	1/60	61/23328	0.1456	0.1160	1
BP	GO:0006081	cellular aldehyde metabolic process	1/60	62/23328	0.1478	0.1168	1
BP	GO:0006900	vesicle budding from membrane	1/60	62/23328	0.1478	0.1168	1
BP	GO:0030330	DNA damage response, signal transduction by p53 class mediator	1/60	62/23328	0.1478	0.1168	1
BP	GO:0031640	killing of cells of other organism	1/60	62/23328	0.1478	0.1168	1
BP	GO:0032613	interleukin-10 production	1/60	62/23328	0.1478	0.1168	1
BP	GO:0046513	ceramide biosynthetic process	1/60	62/23328	0.1478	0.1168	1
BP	GO:0048512	circadian behavior	1/60	62/23328	0.1478	0.1168	1
BP	GO:0050854	regulation of antigen receptor-mediated signaling pathway	1/60	62/23328	0.1478	0.1168	1
BP	GO:0051148	negative regulation of muscle cell differentiation	1/60	62/23328	0.1478	0.1168	1
BP	GO:0051926	negative regulation of calcium ion transport	1/60	62/23328	0.1478	0.1168	1
BP	GO:0060393	regulation of pathway-restricted SMAD protein phosphorylation	1/60	62/23328	0.1478	0.1168	1
BP	GO:1903078	positive regulation of protein localization to plasma membrane	1/60	62/23328	0.1478	0.1168	1
BP	GO:1905207	regulation of cardiocyte differentiation	1/60	62/23328	0.1478	0.1168	1

BP	GO:0001947	heart looping	1/60	63/23328	0.1500	0.1182	1
BP	GO:0010830	regulation of myotube differentiation	1/60	63/23328	0.1500	0.1182	1
BP	GO:0030104	water homeostasis	1/60	63/23328	0.1500	0.1182	1
BP	GO:0050994	regulation of lipid catabolic process	1/60	63/23328	0.1500	0.1182	1
BP	GO:0070936	protein K48-linked ubiquitination	1/60	63/23328	0.1500	0.1182	1
BP	GO:0071479	cellular response to ionizing radiation	1/60	63/23328	0.1500	0.1182	1
BP	GO:0001658	branching involved in ureteric bud morphogenesis	1/60	64/23328	0.1521	0.1194	1
BP	GO:0007622	rhythmic behavior	1/60	64/23328	0.1521	0.1194	1
BP	GO:0046173	polyol biosynthetic process	1/60	64/23328	0.1521	0.1194	1
BP	GO:0050707	regulation of cytokine secretion	1/60	64/23328	0.1521	0.1194	1
BP	GO:0070059	intrinsic apoptotic signaling pathway in response to endoplasmic reticulum stress	1/60	64/23328	0.1521	0.1194	1
BP	GO:1902305	regulation of sodium ion transmembrane transport	1/60	64/23328	0.1521	0.1194	1
BP	GO:1903510	mucopolysaccharide metabolic process	1/60	64/23328	0.1521	0.1194	1
BP	GO:0034121	regulation of toll-like receptor signaling pathway	1/60	65/23328	0.1543	0.1207	1
BP	GO:0042093	T-helper cell differentiation	1/60	65/23328	0.1543	0.1207	1
BP	GO:0060389	pathway-restricted SMAD protein phosphorylation	1/60	65/23328	0.1543	0.1207	1
BP	GO:0098840	protein transport along microtubule	1/60	65/23328	0.1543	0.1207	1
BP	GO:0099118	microtubule-based protein transport	1/60	65/23328	0.1543	0.1207	1
BP	GO:0002294	CD4-positive, alpha-beta T cell differentiation involved in immune response	1/60	66/23328	0.1565	0.1221	1
BP	GO:0042982	amyloid precursor protein metabolic process	1/60	66/23328	0.1565	0.1221	1
BP	GO:0070972	protein localization to endoplasmic reticulum	1/60	66/23328	0.1565	0.1221	1
BP	GO:0002293	alpha-beta T cell differentiation involved in immune response	1/60	67/23328	0.1587	0.1231	1
BP	GO:0006940	regulation of smooth muscle contraction	1/60	67/23328	0.1587	0.1231	1

BP	GO:0021695	cerebellar cortex development	1/60	67/23328	0.1587	0.1231	1
BP	GO:0033209	tumor necrosis factor-mediated signaling pathway	1/60	67/23328	0.1587	0.1231	1
BP	GO:0051298	centrosome duplication	1/60	67/23328	0.1587	0.1231	1
BP	GO:0070613	regulation of protein processing	1/60	67/23328	0.1587	0.1231	1
BP	GO:0090307	mitotic spindle assembly	1/60	67/23328	0.1587	0.1231	1
BP	GO:0002287	alpha-beta T cell activation involved in immune response	1/60	68/23328	0.1609	0.1239	1
BP	GO:0007566	embryo implantation	1/60	68/23328	0.1609	0.1239	1
BP	GO:0015800	acidic amino acid transport	1/60	68/23328	0.1609	0.1239	1
BP	GO:0030837	negative regulation of actin filament polymerization	1/60	68/23328	0.1609	0.1239	1
BP	GO:0032507	maintenance of protein location in cell	1/60	68/23328	0.1609	0.1239	1
BP	GO:0046635	positive regulation of alpha-beta T cell activation	1/60	68/23328	0.1609	0.1239	1
BP	GO:0046637	regulation of alpha-beta T cell differentiation	1/60	68/23328	0.1609	0.1239	1
BP	GO:0050771	negative regulation of axonogenesis	1/60	68/23328	0.1609	0.1239	1
BP	GO:0071868	cellular response to monoamine stimulus	1/60	68/23328	0.1609	0.1239	1
BP	GO:0071870	cellular response to catecholamine stimulus	1/60	68/23328	0.1609	0.1239	1
BP	GO:0097194	execution phase of apoptosis	1/60	68/23328	0.1609	0.1239	1
BP	GO:0099601	regulation of neurotransmitter receptor activity	1/60	68/23328	0.1609	0.1239	1
BP	GO:1901264	carbohydrate derivative transport	1/60	68/23328	0.1609	0.1239	1
BP	GO:1902369	negative regulation of RNA catabolic process	1/60	68/23328	0.1609	0.1239	1
BP	GO:0000281	mitotic cytokinesis	1/60	69/23328	0.1630	0.1248	1
BP	GO:0006801	superoxide metabolic process	1/60	69/23328	0.1630	0.1248	1
BP	GO:0021536	diencephalon development	1/60	69/23328	0.1630	0.1248	1
BP	GO:0033627	cell adhesion mediated by integrin	1/60	69/23328	0.1630	0.1248	1
BP	GO:0061371	determination of heart left/right asymmetry	1/60	69/23328	0.1630	0.1248	1
BP	GO:0071867	response to monoamine	1/60	69/23328	0.1630	0.1248	1
BP	GO:0071869	response to catecholamine	1/60	69/23328	0.1630	0.1248	1
BP	GO:1904377	positive regulation of protein localization to cell periphery	1/60	69/23328	0.1630	0.1248	1

BP	GO:0003143	embryonic heart tube morphogenesis	1/60	70/23328	0.1652	0.1259	1
BP	GO:0006766	vitamin metabolic process	1/60	70/23328	0.1652	0.1259	1
BP	GO:0007405	neuroblast proliferation	1/60	70/23328	0.1652	0.1259	1
BP	GO:0030512	negative regulation of transforming growth factor beta receptor signaling pathway	1/60	70/23328	0.1652	0.1259	1
BP	GO:0045669	positive regulation of osteoblast differentiation	1/60	70/23328	0.1652	0.1259	1
BP	GO:0150076	neuroinflammatory response	1/60	70/23328	0.1652	0.1259	1
BP	GO:1903317	regulation of protein maturation	1/60	70/23328	0.1652	0.1259	1
BP	GO:2000179	positive regulation of neural precursor cell proliferation	1/60	70/23328	0.1652	0.1259	1
BP	GO:0006635	fatty acid beta-oxidation	1/60	71/23328	0.1673	0.1271	1
BP	GO:0007492	endoderm development	1/60	71/23328	0.1673	0.1271	1
BP	GO:0043113	receptor clustering	1/60	71/23328	0.1673	0.1271	1
BP	GO:0043407	negative regulation of MAP kinase activity	1/60	71/23328	0.1673	0.1271	1
BP	GO:0060675	ureteric bud morphogenesis	1/60	71/23328	0.1673	0.1271	1
BP	GO:0061035	regulation of cartilage development	1/60	71/23328	0.1673	0.1271	1
BP	GO:1901796	regulation of signal transduction by p53 class mediator	1/60	71/23328	0.1673	0.1271	1
BP	GO:0010611	regulation of cardiac muscle hypertrophy	1/60	72/23328	0.1695	0.1285	1
BP	GO:0072171	mesonephric tubule morphogenesis	1/60	72/23328	0.1695	0.1285	1
BP	GO:1903845	negative regulation of cellular response to transforming growth factor beta stimulus	1/60	72/23328	0.1695	0.1285	1
BP	GO:0002711	positive regulation of T cell mediated immunity	1/60	73/23328	0.1716	0.1298	1
BP	GO:0002886	regulation of myeloid leukocyte mediated immunity	1/60	73/23328	0.1716	0.1298	1
BP	GO:0042130	negative regulation of T cell proliferation	1/60	73/23328	0.1716	0.1298	1
BP	GO:0043627	response to estrogen	1/60	73/23328	0.1716	0.1298	1
BP	GO:0051155	positive regulation of striated muscle cell differentiation	1/60	73/23328	0.1716	0.1298	1
BP	GO:0002292	T cell differentiation involved in immune response	1/60	74/23328	0.1738	0.1310	1

BP	GO:0007029	endoplasmic reticulum organization	1/60	74/23328	0.1738	0.1310	1
BP	GO:0007422	peripheral nervous system development	1/60	74/23328	0.1738	0.1310	1
BP	GO:0043299	leukocyte degranulation	1/60	74/23328	0.1738	0.1310	1
BP	GO:2001021	negative regulation of response to DNA damage stimulus	1/60	74/23328	0.1738	0.1310	1
BP	GO:0014743	regulation of muscle hypertrophy	1/60	75/23328	0.1759	0.1319	1
BP	GO:0032642	regulation of chemokine production	1/60	75/23328	0.1759	0.1319	1
BP	GO:0034109	homotypic cell-cell adhesion	1/60	75/23328	0.1759	0.1319	1
BP	GO:0046626	regulation of insulin receptor signaling pathway	1/60	75/23328	0.1759	0.1319	1
BP	GO:0051145	smooth muscle cell differentiation	1/60	75/23328	0.1759	0.1319	1
BP	GO:0097755	positive regulation of blood vessel diameter	1/60	75/23328	0.1759	0.1319	1
BP	GO:0098661	inorganic anion transmembrane transport	1/60	75/23328	0.1759	0.1319	1
BP	GO:1903725	regulation of phospholipid metabolic process	1/60	75/23328	0.1759	0.1319	1
BP	GO:0000079	regulation of cyclin-dependent protein serine/threonine kinase activity	1/60	76/23328	0.1780	0.1331	1
BP	GO:0045576	mast cell activation	1/60	76/23328	0.1780	0.1331	1
BP	GO:0050663	cytokine secretion	1/60	76/23328	0.1780	0.1331	1
BP	GO:0051865	protein autoubiquitination	1/60	76/23328	0.1780	0.1331	1
BP	GO:1901606	alpha-amino acid catabolic process	1/60	76/23328	0.1780	0.1331	1
BP	GO:0010822	positive regulation of mitochondrion organization	1/60	77/23328	0.1801	0.1343	1
BP	GO:0016575	histone deacetylation	1/60	77/23328	0.1801	0.1343	1
BP	GO:0030433	ubiquitin-dependent ERAD pathway	1/60	77/23328	0.1801	0.1343	1
BP	GO:0045843	negative regulation of striated muscle tissue development	1/60	77/23328	0.1801	0.1343	1
BP	GO:0071277	cellular response to calcium ion	1/60	77/23328	0.1801	0.1343	1
BP	GO:1901224	positive regulation of NIK/NF-kappaB signaling	1/60	77/23328	0.1801	0.1343	1
BP	GO:0003208	cardiac ventricle morphogenesis	1/60	78/23328	0.1823	0.1354	1

BP	GO:0032088	negative regulation of NF-kappaB transcription factor activity	1/60	78/23328	0.1823	0.1354	1
BP	GO:0050000	chromosome localization	1/60	78/23328	0.1823	0.1354	1
BP	GO:0051303	establishment of chromosome localization	1/60	78/23328	0.1823	0.1354	1
BP	GO:0061180	mammary gland epithelium development	1/60	78/23328	0.1823	0.1354	1
BP	GO:0032418	lysosome localization	1/60	79/23328	0.1844	0.1364	1
BP	GO:0032602	chemokine production	1/60	79/23328	0.1844	0.1364	1
BP	GO:0034644	cellular response to UV	1/60	79/23328	0.1844	0.1364	1
BP	GO:0045471	response to ethanol	1/60	79/23328	0.1844	0.1364	1
BP	GO:0051966	regulation of synaptic transmission, glutamatergic	1/60	79/23328	0.1844	0.1364	1
BP	GO:0055021	regulation of cardiac muscle tissue growth	1/60	79/23328	0.1844	0.1364	1
BP	GO:0032729	positive regulation of interferon-gamma production	1/60	80/23328	0.1865	0.1375	1
BP	GO:0050688	regulation of defense response to virus	1/60	80/23328	0.1865	0.1375	1
BP	GO:0072078	nephron tubule morphogenesis	1/60	80/23328	0.1865	0.1375	1
BP	GO:1901862	negative regulation of muscle tissue development	1/60	80/23328	0.1865	0.1375	1
BP	GO:1901880	negative regulation of protein depolymerization	1/60	80/23328	0.1865	0.1375	1
BP	GO:1904029	regulation of cyclin-dependent protein kinase activity	1/60	80/23328	0.1865	0.1375	1
BP	GO:0045682	regulation of epidermis development	1/60	81/23328	0.1886	0.1390	1
BP	GO:0019915	lipid storage	1/60	82/23328	0.1907	0.1401	1
BP	GO:0030193	regulation of blood coagulation	1/60	82/23328	0.1907	0.1401	1
BP	GO:0050805	negative regulation of synaptic transmission	1/60	82/23328	0.1907	0.1401	1
BP	GO:0051262	protein tetramerization	1/60	82/23328	0.1907	0.1401	1
BP	GO:0072088	nephron epithelium morphogenesis	1/60	82/23328	0.1907	0.1401	1
BP	GO:0002532	production of molecular mediator involved in inflammatory response	1/60	83/23328	0.1928	0.1410	1
BP	GO:0030168	platelet activation	1/60	83/23328	0.1928	0.1410	1
BP	GO:0032272	negative regulation of protein polymerization	1/60	83/23328	0.1928	0.1410	1

BP	GO:0044106	cellular amine metabolic process	1/60	83/23328	0.1928	0.1410	1
BP	GO:0061178	regulation of insulin secretion involved in cellular response to glucose stimulus	1/60	83/23328	0.1928	0.1410	1
BP	GO:0072384	organelle transport along microtubule	1/60	83/23328	0.1928	0.1410	1
BP	GO:1900046	regulation of hemostasis	1/60	83/23328	0.1928	0.1410	1
BP	GO:1903901	negative regulation of viral life cycle	1/60	83/23328	0.1928	0.1410	1
BP	GO:0003151	outflow tract morphogenesis	1/60	84/23328	0.1948	0.1422	1
BP	GO:0014032	neural crest cell development	1/60	84/23328	0.1948	0.1422	1
BP	GO:0030148	sphingolipid biosynthetic process	1/60	84/23328	0.1948	0.1422	1
BP	GO:0050766	positive regulation of phagocytosis	1/60	84/23328	0.1948	0.1422	1
BP	GO:0072028	nephron morphogenesis	1/60	84/23328	0.1948	0.1422	1
BP	GO:0006835	dicarboxylic acid transport	1/60	85/23328	0.1969	0.1433	1
BP	GO:0030203	glycosaminoglycan metabolic process	1/60	85/23328	0.1969	0.1433	1
BP	GO:0043367	CD4-positive, alpha-beta T cell differentiation	1/60	85/23328	0.1969	0.1433	1
BP	GO:0006970	response to osmotic stress	1/60	86/23328	0.1990	0.1441	1
BP	GO:0035050	embryonic heart tube development	1/60	86/23328	0.1990	0.1441	1
BP	GO:0048708	astrocyte differentiation	1/60	86/23328	0.1990	0.1441	1
BP	GO:0050818	regulation of coagulation	1/60	86/23328	0.1990	0.1441	1
BP	GO:0061333	renal tubule morphogenesis	1/60	86/23328	0.1990	0.1441	1
BP	GO:0097581	lamellipodium organization	1/60	86/23328	0.1990	0.1441	1
BP	GO:1905897	regulation of response to endoplasmic reticulum stress	1/60	86/23328	0.1990	0.1441	1
BP	GO:0060420	regulation of heart growth	1/60	87/23328	0.2011	0.1456	1
BP	GO:0006112	energy reserve metabolic process	1/60	88/23328	0.2031	0.1465	1
BP	GO:0010827	regulation of glucose transmembrane transport	1/60	88/23328	0.2031	0.1465	1
BP	GO:0035914	skeletal muscle cell differentiation	1/60	88/23328	0.2031	0.1465	1
BP	GO:0050672	negative regulation of lymphocyte proliferation	1/60	88/23328	0.2031	0.1465	1
BP	GO:0060079	excitatory postsynaptic potential	1/60	88/23328	0.2031	0.1465	1

BP	GO:0062207	regulation of pattern recognition receptor signaling pathway	1/60	88/23328	0.2031	0.1465	1
BP	GO:1903312	negative regulation of mRNA metabolic process	1/60	88/23328	0.2031	0.1465	1
BP	GO:0014031	mesenchymal cell development	1/60	89/23328	0.2052	0.1476	1
BP	GO:0032945	negative regulation of mononuclear cell proliferation	1/60	89/23328	0.2052	0.1476	1
BP	GO:0042770	signal transduction in response to DNA damage	1/60	89/23328	0.2052	0.1476	1
BP	GO:0051149	positive regulation of muscle cell differentiation	1/60	89/23328	0.2052	0.1476	1
BP	GO:0051702	interaction with symbiont	1/60	89/23328	0.2052	0.1476	1
BP	GO:0006672	ceramide metabolic process	1/60	90/23328	0.2072	0.1485	1
BP	GO:0009063	cellular amino acid catabolic process	1/60	90/23328	0.2072	0.1485	1
BP	GO:0019226	transmission of nerve impulse	1/60	90/23328	0.2072	0.1485	1
BP	GO:0043242	negative regulation of protein-containing complex disassembly	1/60	90/23328	0.2072	0.1485	1
BP	GO:0046888	negative regulation of hormone secretion	1/60	90/23328	0.2072	0.1485	1
BP	GO:0048864	stem cell development	1/60	90/23328	0.2072	0.1485	1
BP	GO:1900076	regulation of cellular response to insulin stimulus	1/60	90/23328	0.2072	0.1485	1
BP	GO:0001938	positive regulation of endothelial cell proliferation	1/60	91/23328	0.2093	0.1495	1
BP	GO:0002088	lens development in camera-type eye	1/60	91/23328	0.2093	0.1495	1
BP	GO:0014033	neural crest cell differentiation	1/60	91/23328	0.2093	0.1495	1
BP	GO:0040014	regulation of multicellular organism growth	1/60	91/23328	0.2093	0.1495	1
BP	GO:0042632	cholesterol homeostasis	1/60	91/23328	0.2093	0.1495	1
BP	GO:0072091	regulation of stem cell proliferation	1/60	91/23328	0.2093	0.1495	1
BP	GO:0000045	autophagosome assembly	1/60	92/23328	0.2113	0.1504	1
BP	GO:0002275	myeloid cell activation involved in immune response	1/60	92/23328	0.2113	0.1504	1
BP	GO:0002832	negative regulation of response to biotic stimulus	1/60	92/23328	0.2113	0.1504	1
BP	GO:0035773	insulin secretion involved in cellular response to glucose stimulus	1/60	92/23328	0.2113	0.1504	1

BP	GO:0045685	regulation of glial cell differentiation	1/60	92/23328	0.2113	0.1504	1
BP	GO:0055092	sterol homeostasis	1/60	92/23328	0.2113	0.1504	1
BP	GO:0002028	regulation of sodium ion transport	1/60	93/23328	0.2134	0.1516	1
BP	GO:0007215	glutamate receptor signaling pathway	1/60	93/23328	0.2134	0.1516	1
BP	GO:0009308	amine metabolic process	1/60	93/23328	0.2134	0.1516	1
BP	GO:0033077	T cell differentiation in thymus	1/60	93/23328	0.2134	0.1516	1
BP	GO:0010717	regulation of epithelial to mesenchymal transition	1/60	94/23328	0.2154	0.1526	1
BP	GO:0061640	cytoskeleton-dependent cytokinesis	1/60	94/23328	0.2154	0.1526	1
BP	GO:0070664	negative regulation of leukocyte proliferation	1/60	94/23328	0.2154	0.1526	1
BP	GO:1901879	regulation of protein depolymerization	1/60	94/23328	0.2154	0.1526	1
BP	GO:1903313	positive regulation of mRNA metabolic process	1/60	94/23328	0.2154	0.1526	1
BP	GO:0002251	organ or tissue specific immune response	1/60	95/23328	0.2174	0.1539	1
BP	GO:0055013	cardiac muscle cell development	1/60	95/23328	0.2174	0.1539	1
BP	GO:0002690	positive regulation of leukocyte chemotaxis	1/60	96/23328	0.2194	0.1551	1
BP	GO:0030838	positive regulation of actin filament polymerization	1/60	96/23328	0.2194	0.1551	1
BP	GO:0045638	negative regulation of myeloid cell differentiation	1/60	96/23328	0.2194	0.1551	1
BP	GO:0002027	regulation of heart rate	1/60	97/23328	0.2215	0.1562	1
BP	GO:0010660	regulation of muscle cell apoptotic process	1/60	97/23328	0.2215	0.1562	1
BP	GO:0045069	regulation of viral genome replication	1/60	97/23328	0.2215	0.1562	1
BP	GO:1905037	autophagosome organization	1/60	97/23328	0.2215	0.1562	1
BP	GO:0030279	negative regulation of ossification	1/60	98/23328	0.2235	0.1572	1
BP	GO:0045833	negative regulation of lipid metabolic process	1/60	98/23328	0.2235	0.1572	1
BP	GO:0071482	cellular response to light stimulus	1/60	98/23328	0.2235	0.1572	1
BP	GO:0072080	nephron tubule development	1/60	98/23328	0.2235	0.1572	1

BP	GO:0099565	chemical synaptic transmission, postsynaptic	1/60	98/23328	0.2235	0.1572	1
BP	GO:0006805	xenobiotic metabolic process	1/60	99/23328	0.2255	0.1583	1
BP	GO:0036503	ERAD pathway	1/60	99/23328	0.2255	0.1583	1
BP	GO:0043502	regulation of muscle adaptation	1/60	99/23328	0.2255	0.1583	1
BP	GO:0045185	maintenance of protein location	1/60	99/23328	0.2255	0.1583	1
BP	GO:0006476	protein deacetylation	1/60	100/23328	0.2275	0.1593	1
BP	GO:0010771	negative regulation of cell morphogenesis involved in differentiation	1/60	100/23328	0.2275	0.1593	1
BP	GO:0042102	positive regulation of T cell proliferation	1/60	100/23328	0.2275	0.1593	1
BP	GO:0042116	macrophage activation	1/60	100/23328	0.2275	0.1593	1
BP	GO:0009062	fatty acid catabolic process	1/60	101/23328	0.2295	0.1600	1
BP	GO:0031058	positive regulation of histone modification	1/60	101/23328	0.2295	0.1600	1
BP	GO:0032092	positive regulation of protein binding	1/60	101/23328	0.2295	0.1600	1
BP	GO:0032755	positive regulation of interleukin-6 production	1/60	101/23328	0.2295	0.1600	1
BP	GO:0033555	multicellular organismal response to stress	1/60	101/23328	0.2295	0.1600	1
BP	GO:0055006	cardiac cell development	1/60	101/23328	0.2295	0.1600	1
BP	GO:0060993	kidney morphogenesis	1/60	101/23328	0.2295	0.1600	1
BP	GO:0001704	formation of primary germ layer	1/60	102/23328	0.2315	0.1610	1
BP	GO:0007006	mitochondrial membrane organization	1/60	102/23328	0.2315	0.1610	1
BP	GO:0010657	muscle cell apoptotic process	1/60	102/23328	0.2315	0.1610	1
BP	GO:0035418	protein localization to synapse	1/60	102/23328	0.2315	0.1610	1
BP	GO:0045582	positive regulation of T cell differentiation	1/60	102/23328	0.2315	0.1610	1
BP	GO:0003300	cardiac muscle hypertrophy	1/60	103/23328	0.2334	0.1621	1
BP	GO:0006821	chloride transport	1/60	103/23328	0.2334	0.1621	1
BP	GO:0055024	regulation of cardiac muscle tissue development	1/60	103/23328	0.2334	0.1621	1
BP	GO:0071466	cellular response to xenobiotic stimulus	1/60	103/23328	0.2334	0.1621	1
BP	GO:0001657	ureteric bud development	1/60	104/23328	0.2354	0.1627	1
BP	GO:0006413	translational initiation	1/60	104/23328	0.2354	0.1627	1
BP	GO:0043488	regulation of mRNA stability	1/60	104/23328	0.2354	0.1627	1
BP	GO:0061326	renal tubule development	1/60	104/23328	0.2354	0.1627	1

BP	GO:0072163	mesonephric epithelium development	1/60	104/23328	0.2354	0.1627	1
BP	GO:0072164	mesonephric tubule development	1/60	104/23328	0.2354	0.1627	1
BP	GO:1901222	regulation of NIK/NF-kappaB signaling	1/60	104/23328	0.2354	0.1627	1
BP	GO:1902106	negative regulation of leukocyte differentiation	1/60	104/23328	0.2354	0.1627	1
BP	GO:0000077	DNA damage checkpoint	1/60	105/23328	0.2374	0.1639	1
BP	GO:0002444	myeloid leukocyte mediated immunity	1/60	105/23328	0.2374	0.1639	1
BP	GO:0006022	aminoglycan metabolic process	1/60	106/23328	0.2394	0.1650	1
BP	GO:0021510	spinal cord development	1/60	106/23328	0.2394	0.1650	1
BP	GO:0110110	positive regulation of animal organ morphogenesis	1/60	106/23328	0.2394	0.1650	1
BP	GO:0001823	mesonephros development	1/60	107/23328	0.2413	0.1658	1
BP	GO:0014897	striated muscle hypertrophy	1/60	107/23328	0.2413	0.1658	1
BP	GO:0019395	fatty acid oxidation	1/60	107/23328	0.2413	0.1658	1
BP	GO:0050709	negative regulation of protein secretion	1/60	107/23328	0.2413	0.1658	1
BP	GO:0090174	organelle membrane fusion	1/60	107/23328	0.2413	0.1658	1
BP	GO:0000956	nuclear-transcribed mRNA catabolic process	1/60	108/23328	0.2433	0.1665	1
BP	GO:0002224	toll-like receptor signaling pathway	1/60	108/23328	0.2433	0.1665	1
BP	GO:0006641	triglyceride metabolic process	1/60	108/23328	0.2433	0.1665	1
BP	GO:0021987	cerebral cortex development	1/60	108/23328	0.2433	0.1665	1
BP	GO:0045446	endothelial cell differentiation	1/60	108/23328	0.2433	0.1665	1
BP	GO:0045639	positive regulation of myeloid cell differentiation	1/60	108/23328	0.2433	0.1665	1
BP	GO:0048704	embryonic skeletal system morphogenesis	1/60	108/23328	0.2433	0.1665	1
BP	GO:0055017	cardiac muscle tissue growth	1/60	108/23328	0.2433	0.1665	1
BP	GO:0001959	regulation of cytokine-mediated signaling pathway	1/60	109/23328	0.2452	0.1671	1
BP	GO:0002062	chondrocyte differentiation	1/60	109/23328	0.2452	0.1671	1
BP	GO:0002702	positive regulation of production of molecular mediator of immune response	1/60	109/23328	0.2452	0.1671	1
BP	GO:0014896	muscle hypertrophy	1/60	109/23328	0.2452	0.1671	1
BP	GO:0021549	cerebellum development	1/60	109/23328	0.2452	0.1671	1

BP	GO:0035249	synaptic transmission, glutamatergic	1/60	109/23328	0.2452	0.1671	1
BP	GO:0051028	mRNA transport	1/60	109/23328	0.2452	0.1671	1
BP	GO:0051668	localization within membrane	1/60	109/23328	0.2452	0.1671	1
BP	GO:1900006	positive regulation of dendrite development	1/60	109/23328	0.2452	0.1671	1
BP	GO:1905477	positive regulation of protein localization to membrane	1/60	109/23328	0.2452	0.1671	1
BP	GO:0006275	regulation of DNA replication	1/60	110/23328	0.2472	0.1682	1
BP	GO:0038061	NIK/NF-kappaB signaling	1/60	110/23328	0.2472	0.1682	1
BP	GO:0035601	protein deacylation	1/60	111/23328	0.2491	0.1693	1
BP	GO:0072009	nephron epithelium development	1/60	111/23328	0.2491	0.1693	1
BP	GO:0098732	macromolecule deacylation	1/60	111/23328	0.2491	0.1693	1
BP	GO:0007009	plasma membrane organization	1/60	112/23328	0.2511	0.1705	1
BP	GO:0051225	spindle assembly	1/60	112/23328	0.2511	0.1705	1
BP	GO:0031570	DNA integrity checkpoint	1/60	113/23328	0.2530	0.1717	1
BP	GO:0001892	embryonic placenta development	1/60	114/23328	0.2549	0.1724	1
BP	GO:0006939	smooth muscle contraction	1/60	114/23328	0.2549	0.1724	1
BP	GO:0032649	regulation of interferon-gamma production	1/60	114/23328	0.2549	0.1724	1
BP	GO:0060078	regulation of postsynaptic membrane potential	1/60	114/23328	0.2549	0.1724	1
BP	GO:0071346	cellular response to interferon- gamma	1/60	114/23328	0.2549	0.1724	1
BP	GO:1903076	regulation of protein localization to plasma membrane	1/60	114/23328	0.2549	0.1724	1
BP	GO:0016579	protein deubiquitination	1/60	115/23328	0.2569	0.1734	1
BP	GO:0019079	viral genome replication	1/60	115/23328	0.2569	0.1734	1
BP	GO:0019751	polyol metabolic process	1/60	115/23328	0.2569	0.1734	1
BP	GO:0090100	positive regulation of transmembrane receptor protein serine/threonine kinase signaling pathway	1/60	115/23328	0.2569	0.1734	1
BP	GO:0002792	negative regulation of peptide secretion	1/60	116/23328	0.2588	0.1742	1
BP	GO:0007052	mitotic spindle organization	1/60	116/23328	0.2588	0.1742	1
BP	GO:0034968	histone lysine methylation	1/60	116/23328	0.2588	0.1742	1
BP	GO:0042472	inner ear morphogenesis	1/60	116/23328	0.2588	0.1742	1
BP	GO:0043487	regulation of RNA stability	1/60	116/23328	0.2588	0.1742	1

BP	GO:0051952	regulation of amine transport	1/60	116/23328	0.2588	0.1742	1
BP	GO:0006612	protein targeting to membrane	1/60	117/23328	0.2607	0.1751	1
BP	GO:0045621	positive regulation of lymphocyte differentiation	1/60	117/23328	0.2607	0.1751	1
BP	GO:1905269	positive regulation of chromatin organization	1/60	117/23328	0.2607	0.1751	1
BP	GO:0014020	primary neural tube formation	1/60	118/23328	0.2626	0.1758	1
BP	GO:0018107	peptidyl-threonine phosphorylation	1/60	118/23328	0.2626	0.1758	1
BP	GO:0021782	glial cell development	1/60	118/23328	0.2626	0.1758	1
BP	GO:0046632	alpha-beta T cell differentiation	1/60	118/23328	0.2626	0.1758	1
BP	GO:0060419	heart growth	1/60	118/23328	0.2626	0.1758	1
BP	GO:2000177	regulation of neural precursor cell proliferation	1/60	118/23328	0.2626	0.1758	1
BP	GO:0000187	activation of MAPK activity	1/60	119/23328	0.2645	0.1768	1
BP	GO:0060759	regulation of response to cytokine stimulus	1/60	119/23328	0.2645	0.1768	1
BP	GO:2000278	regulation of DNA biosynthetic process	1/60	119/23328	0.2645	0.1768	1
BP	GO:0015837	amine transport	1/60	121/23328	0.2683	0.1788	1
BP	GO:0022037	metencephalon development	1/60	121/23328	0.2683	0.1788	1
BP	GO:0046467	membrane lipid biosynthetic process	1/60	121/23328	0.2683	0.1788	1
BP	GO:0046620	regulation of organ growth	1/60	121/23328	0.2683	0.1788	1
BP	GO:0072329	monocarboxylic acid catabolic process	1/60	121/23328	0.2683	0.1788	1
BP	GO:1901136	carbohydrate derivative catabolic process	1/60	121/23328	0.2683	0.1788	1
BP	GO:0007098	centrosome cycle	1/60	122/23328	0.2702	0.1795	1
BP	GO:0031109	microtubule polymerization or depolymerization	1/60	122/23328	0.2702	0.1795	1
BP	GO:0045807	positive regulation of endocytosis	1/60	122/23328	0.2702	0.1795	1
BP	GO:0050868	negative regulation of T cell activation	1/60	122/23328	0.2702	0.1795	1
BP	GO:0090101	negative regulation of transmembrane receptor protein serine/threonine kinase signaling pathway	1/60	122/23328	0.2702	0.1795	1
BP	GO:1903828	negative regulation of cellular protein localization	1/60	122/23328	0.2702	0.1795	1

BP	GO:0008286	insulin receptor signaling pathway	1/60	123/23328	0.2721	0.1805	1
BP	GO:0048565	digestive tract development	1/60	123/23328	0.2721	0.1805	1
BP	GO:0051261	protein depolymerization	1/60	123/23328	0.2721	0.1805	1
BP	GO:0006997	nucleus organization	1/60	124/23328	0.2740	0.1816	1
BP	GO:0043500	muscle adaptation	1/60	124/23328	0.2740	0.1816	1
BP	GO:0010212	response to ionizing radiation	1/60	125/23328	0.2759	0.1826	1
BP	GO:0043123	positive regulation of I-kappaB kinase/NF-kappaB signaling	1/60	125/23328	0.2759	0.1826	1
BP	GO:1902414	protein localization to cell junction	1/60	125/23328	0.2759	0.1826	1
BP	GO:0051053	negative regulation of DNA metabolic process	1/60	126/23328	0.2777	0.1837	1
BP	GO:1901216	positive regulation of neuron death	1/60	126/23328	0.2777	0.1837	1
BP	GO:0008277	regulation of G protein-coupled receptor signaling pathway	1/60	127/23328	0.2796	0.1845	1
BP	GO:0014902	myotube differentiation	1/60	127/23328	0.2796	0.1845	1
BP	GO:0018210	peptidyl-threonine modification	1/60	127/23328	0.2796	0.1845	1
BP	GO:0051101	regulation of DNA binding	1/60	127/23328	0.2796	0.1845	1
BP	GO:0060996	dendritic spine development	1/60	127/23328	0.2796	0.1845	1
BP	GO:0010811	positive regulation of cell-substrate adhesion	1/60	128/23328	0.2815	0.1852	1
BP	GO:0032609	interferon-gamma production	1/60	128/23328	0.2815	0.1852	1
BP	GO:0043244	regulation of protein-containing complex disassembly	1/60	128/23328	0.2815	0.1852	1
BP	GO:0051592	response to calcium ion	1/60	128/23328	0.2815	0.1852	1
BP	GO:0061013	regulation of mRNA catabolic process	1/60	128/23328	0.2815	0.1852	1
BP	GO:0061387	regulation of extent of cell growth	1/60	128/23328	0.2815	0.1852	1
BP	GO:0032273	positive regulation of protein polymerization	1/60	129/23328	0.2833	0.1860	1
BP	GO:0046434	organophosphate catabolic process	1/60	129/23328	0.2833	0.1860	1
BP	GO:0061844	antimicrobial humoral immune response mediated by antimicrobial peptide	1/60	129/23328	0.2833	0.1860	1
BP	GO:0042177	negative regulation of protein catabolic process	1/60	130/23328	0.2852	0.1871	1
BP	GO:0050852	T cell receptor signaling pathway	1/60	130/23328	0.2852	0.1871	1

BP	GO:0006665	sphingolipid metabolic process	1/60	131/23328	0.2870	0.1880	1
BP	GO:0007368	determination of left/right symmetry	1/60	131/23328	0.2870	0.1880	1
BP	GO:0018022	peptidyl-lysine methylation	1/60	131/23328	0.2870	0.1880	1
BP	GO:0010469	regulation of signaling receptor activity	1/60	132/23328	0.2889	0.1889	1
BP	GO:0031023	microtubule organizing center organization	1/60	132/23328	0.2889	0.1889	1
BP	GO:0099175	regulation of postsynapse organization	1/60	132/23328	0.2889	0.1889	1
BP	GO:0001841	neural tube formation	1/60	133/23328	0.2907	0.1899	1
BP	GO:0001936	regulation of endothelial cell proliferation	1/60	134/23328	0.2925	0.1908	1
BP	GO:0009791	post-embryonic development	1/60	134/23328	0.2925	0.1908	1
BP	GO:1903038	negative regulation of leukocyte cell-cell adhesion	1/60	134/23328	0.2925	0.1908	1
BP	GO:0030177	positive regulation of Wnt signaling pathway	1/60	135/23328	0.2944	0.1916	1
BP	GO:0070646	protein modification by small protein removal	1/60	135/23328	0.2944	0.1916	1
BP	GO:1901655	cellular response to ketone	1/60	135/23328	0.2944	0.1916	1
BP	GO:0055123	digestive system development	1/60	136/23328	0.2962	0.1927	1
BP	GO:0007050	cell cycle arrest	1/60	137/23328	0.2980	0.1937	1
BP	GO:0034341	response to interferon-gamma	1/60	137/23328	0.2980	0.1937	1
BP	GO:0006639	acylglycerol metabolic process	1/60	138/23328	0.2998	0.1944	1
BP	GO:0042471	ear morphogenesis	1/60	138/23328	0.2998	0.1944	1
BP	GO:0048284	organelle fusion	1/60	138/23328	0.2998	0.1944	1
BP	GO:0048675	axon extension	1/60	138/23328	0.2998	0.1944	1
BP	GO:0050671	positive regulation of lymphocyte proliferation	1/60	138/23328	0.2998	0.1944	1
BP	GO:0055007	cardiac muscle cell differentiation	1/60	139/23328	0.3017	0.1955	1
BP	GO:0006638	neutral lipid metabolic process	1/60	140/23328	0.3035	0.1963	1
BP	GO:0009855	determination of bilateral symmetry	1/60	140/23328	0.3035	0.1963	1
BP	GO:0032946	positive regulation of mononuclear cell proliferation	1/60	140/23328	0.3035	0.1963	1
BP	GO:1904375	regulation of protein localization to cell periphery	1/60	140/23328	0.3035	0.1963	1
BP	GO:0009152	purine ribonucleotide biosynthetic process	1/60	141/23328	0.3053	0.1972	1
BP	GO:0009799	specification of symmetry	1/60	141/23328	0.3053	0.1972	1

BP	GO:0048706	embryonic skeletal system development	1/60	142/23328	0.3071	0.1980	1
BP	GO:1902850	microtubule cytoskeleton organization involved in mitosis	1/60	142/23328	0.3071	0.1980	1
BP	GO:0002708	positive regulation of lymphocyte mediated immunity	1/60	144/23328	0.3106	0.1998	1
BP	GO:0015698	inorganic anion transport	1/60	144/23328	0.3106	0.1998	1
BP	GO:0016571	histone methylation	1/60	144/23328	0.3106	0.1998	1
BP	GO:0043624	cellular protein complex disassembly	1/60	144/23328	0.3106	0.1998	1
BP	GO:0071333	cellular response to glucose stimulus	1/60	144/23328	0.3106	0.1998	1
BP	GO:0072089	stem cell proliferation	1/60	144/23328	0.3106	0.1998	1
BP	GO:0072073	kidney epithelium development	1/60	145/23328	0.3124	0.2008	1
BP	GO:0035637	multicellular organismal signaling	1/60	146/23328	0.3142	0.2018	1
BP	GO:0071331	cellular response to hexose stimulus	1/60	146/23328	0.3142	0.2018	1
BP	GO:0002824	positive regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	1/60	147/23328	0.3160	0.2024	1
BP	GO:0003206	cardiac chamber morphogenesis	1/60	147/23328	0.3160	0.2024	1
BP	GO:0003231	cardiac ventricle development	1/60	147/23328	0.3160	0.2024	1
BP	GO:0045667	regulation of osteoblast differentiation	1/60	147/23328	0.3160	0.2024	1
BP	GO:0051092	positive regulation of NF-kappaB transcription factor activity	1/60	147/23328	0.3160	0.2024	1
BP	GO:0071326	cellular response to monosaccharide stimulus	1/60	147/23328	0.3160	0.2024	1
BP	GO:0001935	endothelial cell proliferation	1/60	149/23328	0.3195	0.2045	1
BP	GO:0009260	ribonucleotide biosynthetic process	1/60	150/23328	0.3213	0.2052	1
BP	GO:0061025	membrane fusion	1/60	150/23328	0.3213	0.2052	1
BP	GO:0000070	mitotic sister chromatid segregation	1/60	151/23328	0.3230	0.2062	1
BP	GO:0072006	nephron development	1/60	151/23328	0.3230	0.2062	1
BP	GO:0070665	positive regulation of leukocyte proliferation	1/60	152/23328	0.3248	0.2071	1

		negative regulation of cellular				
BP	GO:0090288	response to growth factor stimulus	1/60	152/23328	0.3248	0.2071 1
BP	GO:0055088	lipid homeostasis	1/60	153/23328	0.3265	0.2081 1
BP	GO:0008360	regulation of cell shape	1/60	154/23328	0.3283	0.2091 1
BP	GO:0001838	embryonic epithelial tube formation	1/60	155/23328	0.3300	0.2099 1
BP	GO:0007292	female gamete generation	1/60	155/23328	0.3300	0.2099 1
BP	GO:0071322	cellular response to carbohydrate stimulus	1/60	155/23328	0.3300	0.2099 1
BP	GO:0002687	positive regulation of leukocyte migration	1/60	156/23328	0.3318	0.2109 1
BP	GO:0006937	regulation of muscle contraction	1/60	156/23328	0.3318	0.2109 1
BP	GO:0021543	pallium development	1/60	157/23328	0.3335	0.2116 1
BP	GO:0046390	ribose phosphate biosynthetic process	1/60	157/23328	0.3335	0.2116 1
BP	GO:0050657	nucleic acid transport	1/60	157/23328	0.3335	0.2116 1
BP	GO:0050658	RNA transport	1/60	157/23328	0.3335	0.2116 1
BP	GO:1903900	regulation of viral life cycle	1/60	159/23328	0.3369	0.2136 1
BP	GO:0000910	cytokinesis	1/60	160/23328	0.3386	0.2143 1
BP	GO:0006164	purine nucleotide biosynthetic process	1/60	160/23328	0.3386	0.2143 1
BP	GO:0007088	regulation of mitotic nuclear division	1/60	160/23328	0.3386	0.2143 1
BP	GO:0051236	establishment of RNA localization	1/60	160/23328	0.3386	0.2143 1
BP	GO:0072175	epithelial tube formation	1/60	162/23328	0.3421	0.2162 1
BP	GO:0001678	cellular glucose homeostasis	1/60	163/23328	0.3438	0.2171 1
BP	GO:0031056	regulation of histone modification	1/60	163/23328	0.3438	0.2171 1
BP	GO:0019730	antimicrobial humoral response	1/60	165/23328	0.3472	0.2191 1
BP	GO:0072522	purine-containing compound biosynthetic process	1/60	165/23328	0.3472	0.2191 1
BP	GO:0030509	BMP signaling pathway	1/60	167/23328	0.3505	0.2209 1
BP	GO:0051100	negative regulation of binding	1/60	167/23328	0.3505	0.2209 1
BP	GO:0071897	DNA biosynthetic process	1/60	169/23328	0.3539	0.2229 1
BP	GO:1904064	positive regulation of cation transmembrane transport	1/60	170/23328	0.3556	0.2239 1
BP	GO:0030902	hindbrain development	1/60	171/23328	0.3572	0.2247 1
BP	GO:0051494	negative regulation of cytoskeleton organization	1/60	171/23328	0.3572	0.2247 1

BP	GO:0060041	retina development in camera-type eye	1/60	172/23328	0.3589	0.2257	1
BP	GO:0071230	cellular response to amino acid stimulus	1/60	173/23328	0.3606	0.2266	1
BP	GO:0006643	membrane lipid metabolic process	1/60	174/23328	0.3622	0.2274	1
BP	GO:1901654	response to ketone	1/60	174/23328	0.3622	0.2274	1
BP	GO:0009612	response to mechanical stimulus	1/60	176/23328	0.3655	0.2292	1
BP	GO:0010977	negative regulation of neuron projection development	1/60	176/23328	0.3655	0.2292	1
BP	GO:2001257	regulation of cation channel activity	1/60	176/23328	0.3655	0.2292	1
BP	GO:0016202	regulation of striated muscle tissue development	1/60	177/23328	0.3672	0.2299	1
BP	GO:0035051	cardiocyte differentiation	1/60	177/23328	0.3672	0.2299	1
BP	GO:0035148	tube formation	1/60	177/23328	0.3672	0.2299	1
BP	GO:0050821	protein stabilization	1/60	178/23328	0.3688	0.2307	1
BP	GO:0071772	response to BMP	1/60	178/23328	0.3688	0.2307	1
BP	GO:0071773	cellular response to BMP stimulus	1/60	178/23328	0.3688	0.2307	1
BP	GO:0007051	spindle organization	1/60	179/23328	0.3705	0.2316	1
BP	GO:0000075	cell cycle checkpoint	1/60	180/23328	0.3721	0.2323	1
BP	GO:1901861	regulation of muscle tissue development	1/60	180/23328	0.3721	0.2323	1
BP	GO:1902107	positive regulation of leukocyte differentiation	1/60	180/23328	0.3721	0.2323	1
BP	GO:0000819	sister chromatid segregation	1/60	181/23328	0.3737	0.2330	1
BP	GO:0001659	temperature homeostasis	1/60	181/23328	0.3737	0.2330	1
BP	GO:0045088	regulation of innate immune response	1/60	181/23328	0.3737	0.2330	1
BP	GO:0006403	RNA localization	1/60	182/23328	0.3753	0.2338	1
BP	GO:0048813	dendrite morphogenesis	1/60	182/23328	0.3753	0.2338	1
BP	GO:0006479	protein methylation	1/60	183/23328	0.3770	0.2344	1
BP	GO:0008016	regulation of heart contraction	1/60	183/23328	0.3770	0.2344	1
BP	GO:0008213	protein alkylation	1/60	183/23328	0.3770	0.2344	1
BP	GO:0016331	morphogenesis of embryonic epithelium	1/60	183/23328	0.3770	0.2344	1
BP	GO:0030534	adult behavior	1/60	184/23328	0.3786	0.2352	1
BP	GO:2001235	positive regulation of apoptotic signaling pathway	1/60	184/23328	0.3786	0.2352	1

BP	GO:0002705	positive regulation of leukocyte mediated immunity	1/60	185/23328	0.3802	0.2359	1
BP	GO:0048754	branching morphogenesis of an epithelial tube	1/60	185/23328	0.3802	0.2359	1
BP	GO:0071229	cellular response to acid chemical	1/60	185/23328	0.3802	0.2359	1
BP	GO:0034767	positive regulation of ion transmembrane transport	1/60	187/23328	0.3834	0.2378	1
BP	GO:0001764	neuron migration	1/60	189/23328	0.3866	0.2396	1
BP	GO:0055002	striated muscle cell development	1/60	190/23328	0.3882	0.2404	1
BP	GO:0120032	regulation of plasma membrane bounded cell projection assembly	1/60	190/23328	0.3882	0.2404	1
BP	GO:0051783	regulation of nuclear division	1/60	191/23328	0.3898	0.2412	1
BP	GO:0061351	neural precursor cell proliferation	1/60	191/23328	0.3898	0.2412	1
BP	GO:0060491	regulation of cell projection assembly	1/60	192/23328	0.3913	0.2419	1
BP	GO:2001252	positive regulation of chromosome organization	1/60	192/23328	0.3913	0.2419	1
BP	GO:0006486	protein glycosylation	1/60	193/23328	0.3929	0.2425	1
BP	GO:0015931	nucleobase-containing compound transport	1/60	193/23328	0.3929	0.2425	1
BP	GO:0043413	macromolecule glycosylation	1/60	193/23328	0.3929	0.2425	1
BP	GO:1903305	regulation of regulated secretory pathway	1/60	193/23328	0.3929	0.2425	1
BP	GO:0003205	cardiac chamber development	1/60	194/23328	0.3945	0.2433	1
BP	GO:0021915	neural tube development	1/60	194/23328	0.3945	0.2433	1
BP	GO:0007519	skeletal muscle tissue development	1/60	196/23328	0.3976	0.2451	1
BP	GO:0050773	regulation of dendrite development	1/60	197/23328	0.3992	0.2459	1
BP	GO:0030307	positive regulation of cell growth	1/60	198/23328	0.4008	0.2468	1
BP	GO:0001906	cell killing	1/60	200/23328	0.4039	0.2482	1
BP	GO:0006839	mitochondrial transport	1/60	200/23328	0.4039	0.2482	1
BP	GO:0051099	positive regulation of binding	1/60	200/23328	0.4039	0.2482	1
BP	GO:0099173	postsynapse organization	1/60	200/23328	0.4039	0.2482	1
BP	GO:1902905	positive regulation of supramolecular fiber organization	1/60	200/23328	0.4039	0.2482	1

BP	GO:0009566	fertilization	1/60	201/23328	0.4054	0.2489	1
BP	GO:0070507	regulation of microtubule cytoskeleton organization	1/60	201/23328	0.4054	0.2489	1
BP	GO:0048736	appendage development	1/60	202/23328	0.4069	0.2496	1
BP	GO:0060173	limb development	1/60	202/23328	0.4069	0.2496	1
BP	GO:0001649	osteoblast differentiation	1/60	205/23328	0.4116	0.2520	1
BP	GO:0045216	cell-cell junction organization	1/60	205/23328	0.4116	0.2520	1
BP	GO:0048469	cell maturation	1/60	205/23328	0.4116	0.2520	1
BP	GO:0055001	muscle cell development	1/60	205/23328	0.4116	0.2520	1
BP	GO:0060538	skeletal muscle organ development	1/60	206/23328	0.4131	0.2527	1
BP	GO:1902115	regulation of organelle assembly	1/60	206/23328	0.4131	0.2527	1
BP	GO:0031345	negative regulation of cell projection organization	1/60	207/23328	0.4146	0.2534	1
BP	GO:0035265	organ growth	1/60	207/23328	0.4146	0.2534	1
BP	GO:0050770	regulation of axonogenesis	1/60	208/23328	0.4161	0.2541	1
BP	GO:0070085	glycosylation	1/60	208/23328	0.4161	0.2541	1
BP	GO:0098742	cell-cell adhesion via plasma- membrane adhesion molecules	1/60	209/23328	0.4176	0.2549	1
BP	GO:1902275	regulation of chromatin organization	1/60	210/23328	0.4191	0.2556	1
BP	GO:2000027	regulation of animal organ morphogenesis	1/60	210/23328	0.4191	0.2556	1
BP	GO:0097305	response to alcohol	1/60	212/23328	0.4222	0.2574	1
BP	GO:0051651	maintenance of location in cell	1/60	213/23328	0.4237	0.2582	1
BP	GO:0010810	regulation of cell-substrate adhesion	1/60	214/23328	0.4252	0.2590	1
BP	GO:0006402	mRNA catabolic process	1/60	217/23328	0.4296	0.2615	1
BP	GO:0051054	positive regulation of DNA metabolic process	1/60	217/23328	0.4296	0.2615	1
BP	GO:0050871	positive regulation of B cell activation	1/60	220/23328	0.4341	0.2641	1
BP	GO:0060047	heart contraction	1/60	221/23328	0.4355	0.2648	1
BP	GO:0030324	lung development	1/60	222/23328	0.4370	0.2653	1
BP	GO:0043547	positive regulation of GTPase activity	1/60	222/23328	0.4370	0.2653	1
BP	GO:0060348	bone development	1/60	222/23328	0.4370	0.2653	1
BP	GO:2001020	regulation of response to DNA damage stimulus	1/60	222/23328	0.4370	0.2653	1

BP	GO:0051259	protein complex oligomerization	1/60	223/23328	0.4384	0.2660	1
BP	GO:0030323	respiratory tube development	1/60	225/23328	0.4414	0.2676	1
BP	GO:0051495	positive regulation of cytoskeleton organization	1/60	225/23328	0.4414	0.2676	1
BP	GO:0043406	positive regulation of MAP kinase activity	1/60	226/23328	0.4428	0.2683	1
BP	GO:0016197	endosomal transport	1/60	228/23328	0.4457	0.2700	1
BP	GO:0016485	protein processing	1/60	229/23328	0.4471	0.2707	1
BP	GO:0003015	heart process	1/60	231/23328	0.4500	0.2722	1
BP	GO:0043393	regulation of protein binding	1/60	231/23328	0.4500	0.2722	1
BP	GO:0032872	regulation of stress-activated MAPK cascade	1/60	232/23328	0.4514	0.2730	1
BP	GO:0090150	establishment of protein localization to membrane	1/60	233/23328	0.4529	0.2737	1
BP	GO:0006470	protein dephosphorylation	1/60	235/23328	0.4557	0.2751	1
BP	GO:0031334	positive regulation of protein-containing complex assembly	1/60	235/23328	0.4557	0.2751	1
BP	GO:0070302	regulation of stress-activated protein kinase signaling cascade	1/60	235/23328	0.4557	0.2751	1
BP	GO:0045930	negative regulation of mitotic cell cycle	1/60	236/23328	0.4571	0.2758	1
BP	GO:0000209	protein polyubiquitination	1/60	237/23328	0.4585	0.2764	1
BP	GO:0048863	stem cell differentiation	1/60	237/23328	0.4585	0.2764	1
BP	GO:0006898	receptor-mediated endocytosis	1/60	240/23328	0.4627	0.2788	1
BP	GO:0034764	positive regulation of transmembrane transport	1/60	243/23328	0.4669	0.2812	1
BP	GO:0007568	aging	1/60	251/23328	0.4779	0.2877	1
BP	GO:0048705	skeletal system morphogenesis	1/60	253/23328	0.4806	0.2892	1
BP	GO:0006401	RNA catabolic process	1/60	254/23328	0.4820	0.2897	1
BP	GO:0017157	regulation of exocytosis	1/60	254/23328	0.4820	0.2897	1
BP	GO:0060541	respiratory system development	1/60	254/23328	0.4820	0.2897	1
BP	GO:0007626	locomotory behavior	1/60	258/23328	0.4873	0.2925	1
BP	GO:0032886	regulation of microtubule-based process	1/60	258/23328	0.4873	0.2925	1
BP	GO:0048738	cardiac muscle tissue development	1/60	258/23328	0.4873	0.2925	1
BP	GO:0032412	regulation of ion transmembrane transporter activity	1/60	259/23328	0.4887	0.2932	1
BP	GO:0045055	regulated exocytosis	1/60	261/23328	0.4913	0.2947	1

BP	GO:0098813	nuclear chromosome segregation	1/60	262/23328	0.4926	0.2953	1
BP	GO:1903311	regulation of mRNA metabolic process	1/60	266/23328	0.4979	0.2984	1
BP	GO:0140014	mitotic nuclear division	1/60	268/23328	0.5005	0.2998	1
BP	GO:0022898	regulation of transmembrane transporter activity	1/60	270/23328	0.5031	0.3012	1
BP	GO:0009101	glycoprotein biosynthetic process	1/60	273/23328	0.5070	0.3034	1
BP	GO:0003007	heart morphogenesis	1/60	277/23328	0.5121	0.3062	1
BP	GO:0050807	regulation of synapse organization	1/60	277/23328	0.5121	0.3062	1
BP	GO:0032409	regulation of transporter activity	1/60	280/23328	0.5159	0.3084	1
BP	GO:0070588	calcium ion transmembrane transport	1/60	282/23328	0.5184	0.3097	1
BP	GO:0031647	regulation of protein stability	1/60	287/23328	0.5246	0.3133	1
BP	GO:0050803	regulation of synapse structure or activity	1/60	289/23328	0.5271	0.3147	1
BP	GO:0071902	positive regulation of protein serine/threonine kinase activity	1/60	291/23328	0.5296	0.3160	1
BP	GO:0045165	cell fate commitment	1/60	292/23328	0.5308	0.3166	1
BP	GO:0051604	protein maturation	1/60	294/23328	0.5332	0.3179	1
BP	GO:0043414	macromolecule methylation	1/60	297/23328	0.5369	0.3200	1
BP	GO:0006936	muscle contraction	1/60	298/23328	0.5381	0.3205	1
BP	GO:0050851	antigen receptor-mediated signaling pathway	1/60	299/23328	0.5393	0.3211	1
BP	GO:0043087	regulation of GTPase activity	1/60	303/23328	0.5441	0.3238	1
BP	GO:0030111	regulation of Wnt signaling pathway	1/60	304/23328	0.5453	0.3244	1
BP	GO:1990830	cellular response to leukemia inhibitory factor	1/60	311/23328	0.5535	0.3292	1
BP	GO:0045927	positive regulation of growth	1/60	312/23328	0.5547	0.3296	1
BP	GO:1990823	response to leukemia inhibitory factor	1/60	312/23328	0.5547	0.3296	1
BP	GO:0007548	sex differentiation	1/60	315/23328	0.5581	0.3315	1
BP	GO:0001822	kidney development	1/60	318/23328	0.5616	0.3334	1
BP	GO:0007059	chromosome segregation	1/60	324/23328	0.5684	0.3373	1
BP	GO:0002429	immune response-activating cell surface receptor signaling pathway	1/60	330/23328	0.5751	0.3410	1
BP	GO:0007204	positive regulation of cytosolic calcium ion concentration	1/60	330/23328	0.5751	0.3410	1

BP	GO:0002757	immune response-activating signal transduction	1/60	331/23328	0.5762	0.3415	1
BP	GO:0072001	renal system development	1/60	333/23328	0.5784	0.3427	1
BP	GO:0043270	positive regulation of ion transport	1/60	334/23328	0.5795	0.3432	1
BP	GO:0002768	immune response-regulating cell surface receptor signaling pathway	1/60	342/23328	0.5882	0.3482	1
BP	GO:0002764	immune response-regulating signaling pathway regulation of cell	1/60	345/23328	0.5914	0.3499	1
BP	GO:0010769	morphogenesis involved in differentiation	1/60	351/23328	0.5978	0.3534	1
BP	GO:0031589	cell-substrate adhesion	1/60	351/23328	0.5978	0.3534	1
BP	GO:0034470	ncRNA processing	1/60	355/23328	0.6020	0.3557	1
BP	GO:0033044	regulation of chromosome organization	1/60	369/23328	0.6163	0.3640	1
BP	GO:0016311	dephosphorylation	1/60	374/23328	0.6213	0.3668	1
BP	GO:0051480	regulation of cytosolic calcium ion concentration	1/60	375/23328	0.6223	0.3673	1
BP	GO:0001655	urogenital system development	1/60	376/23328	0.6233	0.3677	1
BP	GO:0006887	exocytosis	1/60	389/23328	0.6359	0.3750	1
BP	GO:0006959	humoral immune response	1/60	406/23328	0.6517	0.3842	1
BP	GO:0002253	activation of immune response	1/60	416/23328	0.6607	0.3893	1
BP	GO:0000280	nuclear division	1/60	418/23328	0.6625	0.3902	1
BP	GO:0007264	small GTPase mediated signal transduction	1/60	437/23328	0.6789	0.3997	1
BP	GO:0042742	defense response to bacterium	1/60	464/23328	0.7009	0.4125	1
BP	GO:0048285	organelle fission	1/60	472/23328	0.7071	0.4159	1
BP	GO:0006874	cellular calcium ion homeostasis	1/60	476/23328	0.7102	0.4176	1
BP	GO:0050808	synapse organization	1/60	479/23328	0.7125	0.4187	1
BP	GO:0007409	axonogenesis	1/60	482/23328	0.7147	0.4199	1
BP	GO:0055074	calcium ion homeostasis	1/60	493/23328	0.7229	0.4245	1
CC	GO:0005845	mRNA cap binding complex	1/61	10/23271	0.0259	0.0959	1
CC	GO:0034518	RNA cap binding complex	1/61	10/23271	0.0259	0.0959	1
CC	GO:0046581	intercellular canaliculus	1/61	10/23271	0.0259	0.0959	1
CC	GO:0070578	RISC-loading complex	1/61	11/23271	0.0285	0.0961	1
CC	GO:0034045	phagophore assembly site membrane	1/61	12/23271	0.0310	0.0961	1

CC	GO:0034663	endoplasmic reticulum chaperone complex	1/61	12/23271	0.03100.0961	1
CC	GO:0043020	NADPH oxidase complex	1/61	12/23271	0.03100.0961	1
CC	GO:0048188	Set1C/COMPASS complex	1/61	12/23271	0.03100.0961	1
CC	GO:0071437	invadopodium	1/61	14/23271	0.03610.1062	1
CC	GO:0030014	CCR4-NOT complex mitochondria-associated	1/61	16/23271	0.04110.1158	1
CC	GO:0044233	endoplasmic reticulum membrane	1/61	16/23271	0.04110.1158	1
CC	GO:0034361	very-low-density lipoprotein particle	1/61	19/23271	0.04870.1286	1
CC	GO:0034385	triglyceride-rich plasma lipoprotein particle	1/61	19/23271	0.04870.1286	1
CC	GO:0090543	Flemming body	1/61	19/23271	0.04870.1286	1
CC	GO:0097449	astrocyte projection	1/61	20/23271	0.05120.1286	1
CC	GO:0005640	nuclear outer membrane	1/61	21/23271	0.05370.1286	1
CC	GO:0031528	microvillus membrane	1/61	21/23271	0.05370.1286	1
CC	GO:0045120	pronucleus	1/61	23/23271	0.05860.1296	1
CC	GO:0000178	exosome (RNase complex)	1/61	24/23271	0.06110.1296	1
CC	GO:0005782	peroxisomal matrix	1/61	24/23271	0.06110.1296	1
CC	GO:0030057	desmosome	1/61	24/23271	0.06110.1296	1
CC	GO:0031907	microbody lumen	1/61	24/23271	0.06110.1296	1
CC	GO:1905354	exoribonuclease complex	1/61	24/23271	0.06110.1296	1
CC	GO:0002080	acrosomal membrane	1/61	25/23271	0.06350.1327	1
CC	GO:0044232	organelle membrane contact site	1/61	28/23271	0.07090.1457	1
CC	GO:1902555	endoribonuclease complex	1/61	30/23271	0.07580.1509	1
CC	GO:0008180	COP9 signalosome	1/61	34/23271	0.08540.1537	1
CC	GO:0034358	plasma lipoprotein particle	1/61	34/23271	0.08540.1537	1
CC	GO:0097225	sperm midpiece	1/61	34/23271	0.08540.1537	1
CC	GO:1990777	lipoprotein particle	1/61	34/23271	0.08540.1537	1
CC	GO:0031463	Cul3-RING ubiquitin ligase complex	1/61	35/23271	0.08780.1537	1
CC	GO:0097386	glial cell projection	1/61	35/23271	0.08780.1537	1
CC	GO:0005790	smooth endoplasmic reticulum	1/61	36/23271	0.09020.1537	1
CC	GO:1905348	endonuclease complex	1/61	36/23271	0.09020.1537	1
CC	GO:0032994	protein-lipid complex	1/61	37/23271	0.09260.1557	1
CC	GO:0016235	aggresome	1/61	38/23271	0.09500.1577	1
CC	GO:0005637	nuclear inner membrane	1/61	45/23271	0.11150.1754	1
CC	GO:0034707	chloride channel complex	1/61	46/23271	0.11380.1754	1
CC	GO:0005771	multivesicular body	1/61	51/23271	0.12540.1847	1

CC	GO:0031312	extrinsic component of organelle membrane	1/61	56/23271	0.1368	0.1991	1
CC	GO:0001917	photoreceptor inner segment	1/61	60/23271	0.1459	0.2076	1
CC	GO:0014704	intercalated disc	1/61	62/23271	0.1504	0.2116	1
CC	GO:0000502	proteasome complex	1/61	64/23271	0.1548	0.2155	1
CC	GO:0016328	lateral plasma membrane	1/61	66/23271	0.1593	0.2194	1
CC	GO:0005905	clathrin-coated pit	1/61	69/23271	0.1659	0.2243	1
CC	GO:0010494	cytoplasmic stress granule	1/61	70/23271	0.1681	0.2243	1
CC	GO:1905369	endopeptidase complex	1/61	70/23271	0.1681	0.2243	1
CC	GO:0005793	endoplasmic reticulum-Golgi intermediate compartment	1/61	72/23271	0.1724	0.2278	1
CC	GO:0005844	polysome	1/61	74/23271	0.1768	0.2312	1
CC	GO:0016605	PML body	1/61	75/23271	0.1789	0.2317	1
CC	GO:0016234	inclusion body	1/61	76/23271	0.1811	0.2322	1
CC	GO:0031526	brush border membrane	1/61	78/23271	0.1854	0.2353	1
CC	GO:0035097	histone methyltransferase complex	1/61	80/23271	0.1897	0.2384	1
CC	GO:1902554	serine/threonine protein kinase complex	1/61	83/23271	0.1961	0.2441	1
CC	GO:0005788	endoplasmic reticulum lumen	1/61	85/23271	0.2003	0.2446	1
CC	GO:0044291	cell-cell contact zone	1/61	85/23271	0.2003	0.2446	1
CC	GO:0030667	secretory granule membrane	1/61	88/23271	0.2066	0.2500	1
CC	GO:0030864	cortical actin cytoskeleton	1/61	89/23271	0.2087	0.2502	1
CC	GO:0005791	rough endoplasmic reticulum	1/61	93/23271	0.2170	0.2577	1
CC	GO:0032432	actin filament bundle	1/61	95/23271	0.2211	0.2579	1
CC	GO:1905368	peptidase complex	1/61	95/23271	0.2211	0.2579	1
CC	GO:0098839	postsynaptic density membrane	1/61	97/23271	0.2252	0.2603	1
CC	GO:1902911	protein kinase complex	1/61	99/23271	0.2293	0.2627	1
CC	GO:0031234	extrinsic component of cytoplasmic side of plasma membrane	1/61	104/23271	0.2393	0.2717	1
CC	GO:0034708	methyltransferase complex	1/61	105/23271	0.2414	0.2717	1
CC	GO:0045335	phagocytic vesicle	1/61	111/23271	0.2533	0.2827	1
CC	GO:0022626	cytosolic ribosome	1/61	115/23271	0.2611	0.2862	1
CC	GO:0030672	synaptic vesicle membrane	1/61	116/23271	0.2630	0.2862	1
CC	GO:0099501	exocytic vesicle membrane	1/61	116/23271	0.2630	0.2862	1
CC	GO:0005814	centriole	1/61	119/23271	0.2689	0.2901	1
CC	GO:0030863	cortical cytoskeleton	1/61	123/23271	0.2765	0.2959	1
CC	GO:0005765	lysosomal membrane	1/61	130/23271	0.2898	0.2978	1
CC	GO:0098852	lytic vacuole membrane	1/61	130/23271	0.2898	0.2978	1
CC	GO:0001669	acrosomal vesicle	1/61	134/23271	0.2972	0.3011	1

CC	GO:0072686	mitotic spindle	1/61	135/23271	0.2991	0.3011	1
CC	GO:0099634	postsynaptic specialization membrane	1/61	136/23271	0.3009	0.3011	1
CC	GO:0005912	adherens junction	1/61	138/23271	0.3046	0.3011	1
CC	GO:0005903	brush border	1/61	140/23271	0.3083	0.3019	1
CC	GO:0036126	sperm flagellum	1/61	141/23271	0.3101	0.3019	1
CC	GO:0030658	transport vesicle membrane	1/61	147/23271	0.3209	0.3055	1
CC	GO:0031256	leading edge membrane	1/61	150/23271	0.3263	0.3084	1
CC	GO:0030176	integral component of endoplasmic reticulum membrane	1/61	153/23271	0.3316	0.3105	1
CC	GO:0097729	9+2 motile cilium	1/61	154/23271	0.3334	0.3105	1
CC	GO:0090575	RNA polymerase II transcription regulator complex intrinsic component of	1/61	159/23271	0.3421	0.3142	1
CC	GO:0031227	endoplasmic reticulum membrane	1/61	161/23271	0.3456	0.3151	1
CC	GO:0031461	cullin-RING ubiquitin ligase complex	1/61	163/23271	0.3491	0.3154	1
CC	GO:0042383	sarcolemma	1/61	164/23271	0.3508	0.3154	1
CC	GO:0009898	cytoplasmic side of plasma membrane	1/61	169/23271	0.3593	0.3208	1
CC	GO:0005774	vacuolar membrane	1/61	183/23271	0.3826	0.3393	1
CC	GO:0098562	cytoplasmic side of membrane	1/61	186/23271	0.3875	0.3404	1
CC	GO:0098802	plasma membrane signaling receptor complex	1/61	187/23271	0.3891	0.3404	1
CC	GO:0019897	extrinsic component of plasma membrane	1/61	189/23271	0.3923	0.3409	1
CC	GO:0043197	dendritic spine	1/61	195/23271	0.4019	0.3469	1
CC	GO:0044309	neuron spine	1/61	200/23271	0.4097	0.3490	1
CC	GO:0098862	cluster of actin-based cell projections	1/61	200/23271	0.4097	0.3490	1
CC	GO:0005770	late endosome	1/61	219/23271	0.4387	0.3713	1
CC	GO:0099699	integral component of synaptic membrane	1/61	226/23271	0.4490	0.3775	1
CC	GO:0005840	ribosome	1/61	234/23271	0.4606	0.3847	1
CC	GO:0061695	transferase complex, transferring phosphorus- containing groups	1/61	241/23271	0.4705	0.3905	1
CC	GO:0099240	intrinsic component of synaptic membrane	1/61	244/23271	0.4747	0.3913	1
CC	GO:0031965	nuclear membrane	1/61	246/23271	0.4775	0.3913	1

CC	GO:0005759	mitochondrial matrix	1/61	273/23271	0.5136	0.4182	1
CC	GO:0000151	ubiquitin ligase complex	1/61	285/23271	0.5289	0.4280	1
CC	GO:0034702	ion channel complex	1/61	296/23271	0.5425	0.4345	1
CC	GO:0005819	spindle	1/61	297/23271	0.5437	0.4345	1
CC	GO:0005938	cell cortex	1/61	307/23271	0.5557	0.4414	1
CC	GO:1902495	transmembrane transporter complex	1/61	312/23271	0.5615	0.4433	1
CC	GO:1990351	transporter complex	1/61	319/23271	0.5696	0.4452	1
CC	GO:0016607	nuclear speck	1/61	320/23271	0.5708	0.4452	1
CC	GO:0045211	postsynaptic membrane	1/61	330/23271	0.5820	0.4512	1
CC	GO:0030659	cytoplasmic vesicle membrane	1/61	337/23271	0.5898	0.4545	1
CC	GO:0012506	vesicle membrane	1/61	363/23271	0.6172	0.4729	1
CC	GO:0031301	integral component of organelle membrane	1/61	368/23271	0.6223	0.4739	1
CC	GO:0031300	intrinsic component of organelle membrane	1/61	403/23271	0.6560	0.4967	1
CC	GO:0019866	organelle inner membrane	1/61	489/23271	0.7267	0.5470	1
MF	GO:0005381	iron ion transmembrane transporter activity	1/58	10/22669	0.0253	0.0704	1
MF	GO:0008526	phosphatidylinositol transfer activity	1/58	10/22669	0.0253	0.0704	1
MF	GO:0016175	superoxide-generating NAD(P)H oxidase activity	1/58	10/22669	0.0253	0.0704	1
MF	GO:0050544	arachidonic acid binding	1/58	10/22669	0.0253	0.0704	1
MF	GO:0061578	Lys63-specific deubiquitinase activity	1/58	10/22669	0.0253	0.0704	1
MF	GO:0102391	decanoate-CoA ligase activity	1/58	10/22669	0.0253	0.0704	1
MF	GO:0005247	voltage-gated chloride channel activity	1/58	11/22669	0.0278	0.0704	1
MF	GO:0008330	protein tyrosine/threonine phosphatase activity	1/58	11/22669	0.0278	0.0704	1
MF	GO:0017128	phospholipid scramblase activity	1/58	11/22669	0.0278	0.0704	1
MF	GO:0019107	myristoyltransferase activity	1/58	11/22669	0.0278	0.0704	1
MF	GO:0047676	arachidonate-CoA ligase activity	1/58	11/22669	0.0278	0.0704	1
MF	GO:0050542	icosanoid binding	1/58	11/22669	0.0278	0.0704	1
MF	GO:0050543	icosatetraenoic acid binding	1/58	11/22669	0.0278	0.0704	1
MF	GO:0001224	RNA polymerase II transcription cofactor binding	1/58	12/22669	0.0303	0.0748	1
MF	GO:0005536	glucose binding	1/58	12/22669	0.0303	0.0748	1

MF	GO:0008525	phosphatidylcholine transporter activity	1/58	13/22669	0.0328	0.0770	1
MF	GO:0017017	MAP kinase tyrosine/serine/threonine phosphatase activity	1/58	13/22669	0.0328	0.0770	1
MF	GO:0042301	phosphate ion binding	1/58	13/22669	0.0328	0.0770	1
MF	GO:0004303	estradiol 17-beta-dehydrogenase activity	1/58	14/22669	0.0352	0.0771	1
MF	GO:0004467	long-chain fatty acid-CoA ligase activity	1/58	14/22669	0.0352	0.0771	1
MF	GO:0015562	efflux transmembrane transporter activity	1/58	14/22669	0.0352	0.0771	1
MF	GO:0016595	glutamate binding	1/58	14/22669	0.0352	0.0771	1
MF	GO:0033549	MAP kinase phosphatase activity	1/58	14/22669	0.0352	0.0771	1
MF	GO:0070700	BMP receptor binding	1/58	14/22669	0.0352	0.0771	1
MF	GO:0005229	intracellular calcium activated chloride channel activity	1/58	15/22669	0.0377	0.0790	1
MF	GO:0016725	oxidoreductase activity, acting on CH or CH2 groups	1/58	15/22669	0.0377	0.0790	1
MF	GO:0045236	CXCR chemokine receptor binding	1/58	15/22669	0.0377	0.0790	1
MF	GO:0061778	intracellular chloride channel activity	1/58	15/22669	0.0377	0.0790	1
MF	GO:0008308	voltage-gated anion channel activity	1/58	16/22669	0.0402	0.0798	1
MF	GO:0030228	lipoprotein particle receptor activity	1/58	16/22669	0.0402	0.0798	1
MF	GO:0050664	oxidoreductase activity, acting on NAD(P)H, oxygen as acceptor	1/58	16/22669	0.0402	0.0798	1
MF	GO:0016290	palmitoyl-CoA hydrolase activity	1/58	17/22669	0.0426	0.0830	1
MF	GO:0071617	lysophospholipid acyltransferase activity	1/58	17/22669	0.0426	0.0830	1
MF	GO:0008199	ferric iron binding	1/58	18/22669	0.0451	0.0851	1
MF	GO:0034185	apolipoprotein binding modified amino acid	1/58	18/22669	0.0451	0.0851	1
MF	GO:0072349	transmembrane transporter activity	1/58	18/22669	0.0451	0.0851	1
MF	GO:0031434	mitogen-activated protein kinase kinase binding	1/58	19/22669	0.0475	0.0872	1

MF	GO:0055106	ubiquitin-protein transferase regulator activity	1/58	20/22669	0.0500	0.0900	1
MF	GO:0120020	cholesterol transfer activity	1/58	20/22669	0.0500	0.0900	1
MF	GO:0120015	sterol transfer activity	1/58	21/22669	0.0524	0.0920	1
MF	GO:0005540	hyaluronic acid binding	1/58	22/22669	0.0548	0.0920	1
MF	GO:0016408	C-acyltransferase activity	1/58	22/22669	0.0548	0.0920	1
MF	GO:0120014	phospholipid transfer activity	1/58	22/22669	0.0548	0.0920	1
MF	GO:0051787	misfolded protein binding	1/58	23/22669	0.0572	0.0920	1
		RNA polymerase II core					
MF	GO:0000979	promoter sequence-specific DNA binding	1/58	24/22669	0.0597	0.0920	1
MF	GO:0070696	transmembrane receptor protein serine/threonine kinase binding	1/58	24/22669	0.0597	0.0920	1
MF	GO:0140303	intramembrane lipid transporter activity	1/58	24/22669	0.0597	0.0920	1
MF	GO:0005160	transforming growth factor beta receptor binding	1/58	25/22669	0.0621	0.0920	1
MF	GO:0005212	structural constituent of eye lens	1/58	25/22669	0.0621	0.0920	1
MF	GO:0005227	calcium activated cation channel activity	1/58	25/22669	0.0621	0.0920	1
MF	GO:0016866	intramolecular transferase activity	1/58	25/22669	0.0621	0.0920	1
MF	GO:0019957	C-C chemokine binding	1/58	25/22669	0.0621	0.0920	1
MF	GO:0048027	mRNA 5'-UTR binding	1/58	25/22669	0.0621	0.0920	1
MF	GO:0001618	virus receptor activity	1/58	26/22669	0.0645	0.0920	1
MF	GO:0047617	acyl-CoA hydrolase activity	1/58	26/22669	0.0645	0.0920	1
MF	GO:0140272	exogenous protein binding	1/58	26/22669	0.0645	0.0920	1
MF	GO:1904680	peptide transmembrane transporter activity	1/58	27/22669	0.0669	0.0947	1
MF	GO:0001223	transcription coactivator binding	1/58	28/22669	0.0693	0.0953	1
MF	GO:0016289	CoA hydrolase activity	1/58	28/22669	0.0693	0.0953	1
MF	GO:0035925	mRNA 3'-UTR AU-rich region binding	1/58	28/22669	0.0693	0.0953	1
MF	GO:0017091	AU-rich element binding	1/58	29/22669	0.0716	0.0965	1
MF	GO:0030291	protein serine/threonine kinase inhibitor activity	1/58	29/22669	0.0716	0.0965	1
MF	GO:0045499	chemorepellent activity	1/58	29/22669	0.0716	0.0965	1
MF	GO:0015248	sterol transporter activity	1/58	30/22669	0.0740	0.0990	1
MF	GO:0071813	lipoprotein particle binding	1/58	31/22669	0.0764	0.1008	1
MF	GO:0071814	protein-lipid complex binding	1/58	31/22669	0.0764	0.1008	1

MF	GO:0033612	receptor serine/threonine kinase binding	1/58	32/22669	0.0788	0.1025	1
MF	GO:0035035	histone acetyltransferase binding	1/58	32/22669	0.0788	0.1025	1
MF	GO:0019956	chemokine binding	1/58	33/22669	0.0811	0.1035	1
MF	GO:0051059	NF-kappaB binding	1/58	33/22669	0.0811	0.1035	1
MF	GO:0008198	ferrous iron binding	1/58	35/22669	0.0858	0.1081	1
MF	GO:0005154	epidermal growth factor receptor binding	1/58	36/22669	0.0882	0.1089	1
MF	GO:0015175	neutral amino acid transmembrane transporter activity	1/58	36/22669	0.0882	0.1089	1
MF	GO:0031369	translation initiation factor binding	1/58	37/22669	0.0905	0.1104	1
MF	GO:0008138	protein tyrosine/serine/threonine phosphatase activity	1/58	38/22669	0.0928	0.1104	1
MF	GO:0033764	steroid dehydrogenase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor	1/58	38/22669	0.0928	0.1104	1
MF	GO:0046915	transition metal ion transmembrane transporter activity	1/58	38/22669	0.0928	0.1104	1
MF	GO:1901682	sulfur compound transmembrane transporter activity	1/58	38/22669	0.0928	0.1104	1
MF	GO:0035255	ionotropic glutamate receptor binding	1/58	39/22669	0.0952	0.1124	1
MF	GO:0042805	actinin binding	1/58	40/22669	0.0975	0.1124	1
MF	GO:0043531	ADP binding	1/58	40/22669	0.0975	0.1124	1
MF	GO:0051539	4 iron, 4 sulfur cluster binding	1/58	40/22669	0.0975	0.1124	1
MF	GO:0001965	G-protein alpha-subunit binding	1/58	41/22669	0.0998	0.1137	1
MF	GO:0120013	lipid transfer activity	1/58	41/22669	0.0998	0.1137	1
MF	GO:0022839	ion gated channel activity	1/58	42/22669	0.1021	0.1150	1
MF	GO:0051019	mitogen-activated protein kinase binding	1/58	42/22669	0.1021	0.1150	1
MF	GO:0018024	histone-lysine N-methyltransferase activity	1/58	43/22669	0.1044	0.1155	1
MF	GO:0004177	aminopeptidase activity	1/58	44/22669	0.1067	0.1155	1
MF	GO:0008009	chemokine activity	1/58	44/22669	0.1067	0.1155	1
MF	GO:0042169	SH2 domain binding	1/58	44/22669	0.1067	0.1155	1

MF	GO:0042887	amide transmembrane transporter activity	1/58	44/22669	0.1067	0.1155	1
MF	GO:0016229	steroid dehydrogenase activity	1/58	45/22669	0.1090	0.1173	1
MF	GO:0008374	O-acyltransferase activity	1/58	46/22669	0.1113	0.1184	1
MF	GO:0015485	cholesterol binding	1/58	46/22669	0.1113	0.1184	1
MF	GO:0050661	NADP binding	1/58	48/22669	0.1158	0.1219	1
MF	GO:0051879	Hsp90 protein binding	1/58	48/22669	0.1158	0.1219	1
MF	GO:0001102	RNA polymerase II activating transcription factor binding	1/58	49/22669	0.1181	0.1236	1
MF	GO:0001046	core promoter sequence-specific DNA binding	1/58	50/22669	0.1203	0.1240	1
MF	GO:0016790	thiolester hydrolase activity	1/58	50/22669	0.1203	0.1240	1
MF	GO:0004601	peroxidase activity	1/58	53/22669	0.1271	0.1282	1
MF	GO:0004879	nuclear receptor activity	1/58	53/22669	0.1271	0.1282	1
MF	GO:0017046	peptide hormone binding	1/58	53/22669	0.1271	0.1282	1
MF	GO:0098531	ligand-activated transcription factor activity	1/58	53/22669	0.1271	0.1282	1
MF	GO:0003707	steroid hormone receptor activity	1/58	54/22669	0.1293	0.1298	1
MF	GO:0032934	sterol binding	1/58	55/22669	0.1316	0.1313	1
MF	GO:0016836	hydro-lyase activity	1/58	56/22669	0.1338	0.1329	1
MF	GO:0016278	lysine N-methyltransferase activity	1/58	57/22669	0.1360	0.1330	1
MF	GO:0016279	protein-lysine N-methyltransferase activity	1/58	57/22669	0.1360	0.1330	1
MF	GO:0042054	histone methyltransferase activity	1/58	57/22669	0.1360	0.1330	1
MF	GO:0001540	amyloid-beta binding	1/58	58/22669	0.1382	0.1338	1
MF	GO:0016684	oxidoreductase activity, acting on peroxide as acceptor	1/58	58/22669	0.1382	0.1338	1
MF	GO:0001221	transcription cofactor binding	1/58	59/22669	0.1404	0.1353	1
MF	GO:0005507	copper ion binding	1/58	61/22669	0.1449	0.1375	1
MF	GO:0051287	NAD binding	1/58	61/22669	0.1449	0.1375	1
MF	GO:0043022	ribosome binding	1/58	62/22669	0.1470	0.1382	1
MF	GO:0070063	RNA polymerase binding	1/58	62/22669	0.1470	0.1382	1
MF	GO:0000049	tRNA binding	1/58	64/22669	0.1514	0.1409	1
MF	GO:0051536	iron-sulfur cluster binding	1/58	66/22669	0.1558	0.1435	1
MF	GO:0051540	metal cluster binding	1/58	66/22669	0.1558	0.1435	1
MF	GO:0004722	protein serine/threonine phosphatase activity	1/58	67/22669	0.1579	0.1435	1
MF	GO:0016835	carbon-oxygen lyase activity	1/58	67/22669	0.1579	0.1435	1

MF	GO:0035254	glutamate receptor binding	1/58	67/22669	0.1579	0.1435	1
MF	GO:0016597	amino acid binding	1/58	70/22669	0.1644	0.1487	1
MF	GO:0002039	p53 binding	1/58	71/22669	0.1665	0.1492	1
MF	GO:0005518	collagen binding	1/58	71/22669	0.1665	0.1492	1
MF	GO:0005254	chloride channel activity	1/58	73/22669	0.1708	0.1516	1
MF	GO:0038024	cargo receptor activity	1/58	76/22669	0.1772	0.1566	1
MF	GO:0042379	chemokine receptor binding	1/58	78/22669	0.1814	0.1596	1
MF	GO:0048029	monosaccharide binding	1/58	82/22669	0.1898	0.1657	1
MF	GO:0005253	anion channel activity	1/58	83/22669	0.1919	0.1657	1
MF	GO:0008081	phosphoric diester hydrolase activity	1/58	83/22669	0.1919	0.1657	1
MF	GO:0016651	oxidoreductase activity, acting on NAD(P)H	1/58	83/22669	0.1919	0.1657	1
MF	GO:0016209	antioxidant activity	1/58	84/22669	0.1939	0.1668	1
MF	GO:0043178	alcohol binding	1/58	85/22669	0.1960	0.1678	1
MF	GO:0008276	protein methyltransferase activity	1/58	88/22669	0.2022	0.1716	1
MF	GO:0042562	hormone binding	1/58	88/22669	0.2022	0.1716	1
MF	GO:0048306	calcium-dependent protein binding	1/58	89/22669	0.2042	0.1726	1
MF	GO:0008238	exopeptidase activity	1/58	91/22669	0.2083	0.1752	1
MF	GO:0004620	phospholipase activity	1/58	93/22669	0.2124	0.1779	1
MF	GO:0031490	chromatin DNA binding	1/58	94/22669	0.2144	0.1788	1
MF	GO:0003730	mRNA 3'-UTR binding	1/58	98/22669	0.2224	0.1816	1
MF	GO:0004725	protein tyrosine phosphatase activity	1/58	98/22669	0.2224	0.1816	1
MF	GO:0004896	cytokine receptor activity	1/58	98/22669	0.2224	0.1816	1
MF	GO:0004843	thiol-dependent ubiquitin-specific protease activity	1/58	99/22669	0.2244	0.1824	1
MF	GO:0101005	ubiquitinyl hydrolase activity ATPase-coupled	1/58	100/22669	0.2264	0.1833	1
MF	GO:0042626	transmembrane transporter activity	1/58	101/22669	0.2284	0.1841	1
MF	GO:0015108	chloride transmembrane transporter activity	1/58	102/22669	0.2304	0.1849	1
MF	GO:0051219	phosphoprotein binding	1/58	104/22669	0.2344	0.1865	1
MF	GO:0008242	omega peptidase activity	1/58	107/22669	0.2402	0.1904	1
MF	GO:0015399	primary active transmembrane transporter activity	1/58	108/22669	0.2422	0.1912	1
MF	GO:0005496	steroid binding	1/58	119/22669	0.2634	0.2071	1
MF	GO:0140375	immune receptor activity	1/58	123/22669	0.2709	0.2113	1

MF	GO:0045182 translation regulator activity	1/58	127/22669	0.2784	0.2154	1
MF	GO:0016298 lipase activity	1/58	128/22669	0.2802	0.2159	1
MF	GO:0047485 protein N-terminus binding	1/58	129/22669	0.2821	0.2165	1
MF	GO:0005179 hormone activity	1/58	130/22669	0.2839	0.2170	1
MF	GO:0015103 inorganic anion transmembrane transporter activity	1/58	136/22669	0.2949	0.2246	1
MF	GO:0043021 ribonucleoprotein complex binding	1/58	146/22669	0.3129	0.2354	1
MF	GO:0019838 growth factor binding	1/58	147/22669	0.3146	0.2358	1
MF	GO:0035257 nuclear hormone receptor binding	1/58	152/22669	0.3234	0.2405	1
MF	GO:0072509 divalent inorganic cation transmembrane transporter activity	1/58	163/22669	0.3423	0.2536	1
MF	GO:0004721 phosphoprotein phosphatase activity	1/58	171/22669	0.3558	0.2626	1
MF	GO:0003714 transcription corepressor activity	1/58	176/22669	0.3640	0.2677	1
MF	GO:0051427 hormone receptor binding	1/58	181/22669	0.3722	0.2726	1
MF	GO:0004252 serine-type endopeptidase activity	1/58	186/22669	0.3803	0.2775	1
MF	GO:0005244 voltage-gated ion channel activity	1/58	190/22669	0.3866	0.2800	1
MF	GO:0022832 voltage-gated channel activity	1/58	190/22669	0.3866	0.2800	1
MF	GO:0008236 serine-type peptidase activity	1/58	207/22669	0.4130	0.2980	1
MF	GO:0051015 actin filament binding	1/58	210/22669	0.4175	0.3001	1
MF	GO:0017171 serine hydrolase activity	1/58	212/22669	0.4205	0.3011	1
MF	GO:0005539 glycosaminoglycan binding	1/58	213/22669	0.4220	0.3011	1
MF	GO:0015291 secondary active transmembrane transporter activity	1/58	231/22669	0.4483	0.3187	1
MF	GO:0005096 GTPase activator activity	1/58	238/22669	0.4582	0.3245	1
MF	GO:0030695 GTPase regulator activity	1/58	258/22669	0.4856	0.3426	1
MF	GO:0008017 microtubule binding	1/58	260/22669	0.4882	0.3433	1
MF	GO:0016791 phosphatase activity	1/58	271/22669	0.5026	0.3521	1
MF	GO:0030246 carbohydrate binding	1/58	274/22669	0.5065	0.3535	1
MF	GO:0060589 nucleoside-triphosphatase regulator activity	1/58	298/22669	0.5363	0.3729	1
MF	GO:0001664 G protein-coupled receptor binding	1/58	310/22669	0.5505	0.3815	1
MF	GO:0022836 gated channel activity	1/58	323/22669	0.5654	0.3904	1

MF	GO:0005261	cation channel activity	1/58	327/22669	0.5699	0.3921	1
MF	GO:0015631	tubulin binding	1/58	366/22669	0.6114	0.4191	1
MF	GO:0004842	ubiquitin-protein transferase activity	1/58	418/22669	0.6607	0.4513	1
MF	GO:0005216	ion channel activity	1/58	421/22669	0.6633	0.4515	1
MF	GO:0046873	metal ion transmembrane transporter activity	1/58	426/22669	0.6677	0.4529	1
MF	GO:0003779	actin binding	1/58	434/22669	0.6746	0.4549	1
MF	GO:0019787	ubiquitin-like protein transferase activity	1/58	435/22669	0.6754	0.4549	1
MF	GO:0004175	endopeptidase activity	1/58	453/22669	0.6903	0.4628	1
MF	GO:0008047	enzyme activator activity	1/58	460/22669	0.6959	0.4628	1
MF	GO:0015267	channel activity	1/58	461/22669	0.6967	0.4628	1
MF	GO:0022803	passive transmembrane transporter activity	1/58	461/22669	0.6967	0.4628	1

Table S8 Significant Enrichment Results of GO Analysis of IRGs

ON	TOL	OG	ID	Description	GeneRatio	BgR	pval	qval	o	C
Y						atio	ue	ue	u	nt
			GO:			369	5.30	9.79		
BP	0019	221		cytokine-mediated signaling pathway	63/292	/23	E-	E-	6	3
			GO:			418	2.96	2.73		
BP	0032	103		positive regulation of response to external stimulus	62/292	/23	E-	E-	6	2
			GO:			303	2.37	1.46		
BP	0060	326		cell chemotaxis	54/292	/23	E-	E-	5	4
			GO:			449	6.23	2.88		
BP	0001	819		positive regulation of cytokine production	60/292	/23	E-	E-	6	0
			GO:			372	3.27	1.21		
BP	0050	727		regulation of inflammatory response	53/292	/23	E-	E-	5	3
			GO:			360	1.47	4.53		
BP	0050	900		leukocyte migration	51/292	/23	E-	E-	5	1
			GO:			493	4.55	1.18		
BP	0055	074		calcium ion homeostasis	56/292	/23	E-	E-	5	6
						328	37	34		

	GO:		224	5.12	1.18	4
BP	0050 regulation of chemotaxis	42/292	/23	E-	E-	2
	920		328	37	34	
	GO:		219	4.07	8.34	4
BP	0030 leukocyte chemotaxis	41/292	/23	E-	E-	1
	595		328	36	34	
	GO:		476	1.28	2.37	5
BP	0006 cellular calcium ion homeostasis	53/292	/23	E-	E-	3
	874		328	34	32	
	GO:		375	3.50	5.87	4
BP	0051 regulation of cytosolic calcium ion concentration	48/292	/23	E-	E-	8
	480		328	34	32	
	GO:		330	2.78	4.28	4
BP	0007 positive regulation of cytosolic calcium ion concentration	45/292	/23	E-	E-	5
	204		328	33	31	
	GO:		322	1.38	1.95	4
BP	0018 peptidyl-tyrosine phosphorylation	44/292	/23	E-	E-	4
	108		328	32	30	
	GO:		325	2.06	2.72	4
BP	0018 peptidyl-tyrosine modification	44/292	/23	E-	E-	4
	212		328	32	30	
	GO:		219	6.20	7.63	3
BP	0097 myeloid leukocyte migration	37/292	/23	E-	E-	7
	529		328	31	29	
	GO:		278	2.22	2.56	3
BP	0031 positive regulation of defense response	39/292	/23	E-	E-	9
	349		328	29	27	
	GO:		234	1.27	1.38	3
BP	0032 regulation of mononuclear cell proliferation	36/292	/23	E-	E-	6
	944		328	28	26	
	GO:		440	8.23	8.44	4
BP	0002 regulation of immune effector process	45/292	/23	E-	E-	5
	697		328	28	26	
	GO:		149	1.28	1.20	3
BP	0050 positive regulation of chemotaxis	30/292	/23	E-	E-	0
	921		328	27	25	
	GO:		231	1.30	1.20	3
BP	0050 regulation of lymphocyte proliferation	35/292	/23	E-	E-	5
	670		328	27	25	
	GO:		251	1.62	1.42	3
BP	0070 regulation of leukocyte proliferation	36/292	/23	E-	E-	6
	663		328	27	25	

	GO:		356	2.10	1.76	4
BP	1901 regulation of vasculature development	41/292	/23	E-	E-	1
	342		328	27	25	
	GO:		440	8.57	6.66	4
BP	0045 positive regulation of protein kinase activity	44/292	/23	E-	E-	4
	860		328	27	25	
	GO:		263	8.67	6.66	3
BP	0050 regulation of peptidyl-tyrosine phosphorylation	36/292	/23	E-	E-	6
	730		328	27	25	
	GO:		195	1.92	1.42	3
BP	0050 positive regulation of peptidyl-tyrosine phosphorylation	32/292	/23	E-	E-	2
	731		328	26	24	
	GO:		384	4.16	2.95	4
BP	0032 negative regulation of response to external stimulus	41/292	/23	E-	E-	1
	102		328	26	24	
	GO:		320	6.22	4.10	3
BP	0032 mononuclear cell proliferation	38/292	/23	E-	E-	8
	943		328	26	24	
	GO:		320	6.22	4.10	3
BP	0045 regulation of angiogenesis	38/292	/23	E-	E-	8
	765		328	26	24	
	GO:		389	6.90	4.39	4
BP	0002 response to molecule of bacterial origin	41/292	/23	E-	E-	1
	237		328	26	24	
	GO:		344	7.73	4.75	3
BP	0070 leukocyte proliferation	39/292	/23	E-	E-	9
	661		328	26	24	
	GO:		126	9.86	5.87	2
BP	0071 granulocyte chemotaxis	27/292	/23	E-	E-	7
	621		328	26	24	
	GO:		445	1.37	7.89	4
BP	0019 second-messenger-mediated signaling	43/292	/23	E-	E-	3
	932		328	25	24	
	GO:		231	3.11	1.74	3
BP	0002 myeloid leukocyte activation	33/292	/23	E-	E-	3
	274		328	25	23	
	GO:		317	5.33	2.89	3
BP	0046 lymphocyte proliferation	37/292	/23	E-	E-	7
	651		328	25	23	
	GO:		438	7.10	3.75	4
BP	0050 epithelial cell proliferation	42/292	/23	E-	E-	2
	673		328	25	23	

	GO:		496	1.19	6.11	4
BP	0050 positive regulation of cell activation	44/292	/23	E-	E-	4
	867		328	24	23	
	GO:		155	1.84	9.20	2
BP	0097 granulocyte migration	28/292	/23	E-	E-	8
	530		328	24	23	
	GO:		99/	2.21	1.07	2
BP	0030 neutrophil chemotaxis	24/292	233	E-	E-	4
	593		28	24	22	
	GO:		479	2.63	1.25	4
BP	0002 positive regulation of leukocyte activation	43/292	/23	E-	E-	3
	696		328	24	22	
	GO:		368	1.02	4.71	3
BP	0032 response to lipopolysaccharide	38/292	/23	E-	E-	8
	496		328	23	22	
	GO:		427	2.45	1.10	4
BP	0022 regulation of cell-cell adhesion	40/292	/23	E-	E-	0
	407		328	23	21	
	GO:		124	3.34	1.47	2
BP	1990 neutrophil migration	25/292	/23	E-	E-	5
	266		328	23	21	
	GO:		140	4.10	1.76	2
BP	0032 positive regulation of mononuclear cell proliferation	26/292	/23	E-	E-	6
	946		328	23	21	
	GO:		372	1.53	6.41	3
BP	0050 regulation of epithelial cell proliferation	37/292	/23	E-	E-	7
	678		328	22	21	
	GO:		427	2.27	9.30	3
BP	0001 ameboidal-type cell migration	39/292	/23	E-	E-	9
	667		328	22	21	
	GO:		152	3.75	1.50	2
BP	0070 positive regulation of leukocyte proliferation	26/292	/23	E-	E-	6
	665		328	22	20	
	GO:		435	4.44	1.74	3
BP	0045 positive regulation of cell adhesion	39/292	/23	E-	E-	9
	785		328	22	20	
	GO:		138	5.50	2.11	2
BP	0050 positive regulation of lymphocyte proliferation	25/292	/23	E-	E-	5
	671		328	22	20	
	GO:		156	7.50	2.82	2
BP	0002 positive regulation of leukocyte migration	26/292	/23	E-	E-	6
	687		328	22	20	

BP	GO: 0002 regulation of production of molecular mediator of immune response	26/292	159	1.24	4.59	2
	700		/23	E-	E-	6
			328	21	20	
	GO:		325	1.74	6.30	3
BP	0070 ERK1 and ERK2 cascade	34/292	/23	E-	E-	4
	371		328	21	20	
	GO:		286	3.63	1.29	3
BP	0009 response to virus	32/292	/23	E-	E-	2
	615		328	21	19	
	GO:		152	6.61	2.30	2
BP	0050 positive regulation of inflammatory response	25/292	/23	E-	E-	5
	729		328	21	19	
	GO:		364	6.97	2.38	3
BP	0046 hormone secretion	35/292	/23	E-	E-	5
	879		328	21	19	
	GO:		416	7.26	2.39	3
BP	0070 neuron death	37/292	/23	E-	E-	7
	997		328	21	19	
	GO:		170	7.27	2.39	2
BP	0048 smooth muscle cell proliferation	26/292	/23	E-	E-	6
	659		328	21	19	
	GO:		107	9.41	3.05	2
BP	0002 cytokine production involved in immune response	22/292	/23	E-	E-	2
	367		328	21	19	
	GO:		372	1.42	4.52	3
BP	0009 hormone transport	35/292	/23	E-	E-	5
	914		328	20	19	
	GO:		60/	1.94	6.06	1
BP	0070 chemokine-mediated signaling pathway	18/292	233	E-	E-	8
	098		28	20	19	
	GO:		196	2.13	6.54	2
BP	0097 receptor signaling pathway via STAT	27/292	/23	E-	E-	7
	696		328	20	19	
	GO:		217	2.50	7.55	2
BP	0002 regulation of leukocyte migration	28/292	/23	E-	E-	8
	685		328	20	19	
	GO:		128	3.11	9.26	2
BP	0032 interferon-gamma production	23/292	/23	E-	E-	3
	609		328	20	19	
	GO:		308	3.49	1.02	3
BP	0070 regulation of ERK1 and ERK2 cascade	32/292	/23	E-	E-	2
	372		328	20	18	

	GO:		492	3.60	1.04	3
BP	0009 response to wounding	39/292	/23	E-	E-	9
	611		328	20	18	
	GO:		114	4.09	1.16	2
BP	0032 regulation of interferon-gamma production	22/292	/23	E-	E-	2
	649		328	20	18	
	GO:		265	4.74	1.32	3
BP	0022 positive regulation of cell-cell adhesion	30/292	/23	E-	E-	0
	409		328	20	18	
	GO:		191	1.50	4.13	2
BP	0007 receptor signaling pathway via JAK-STAT	26/292	/23	E-	E-	6
	259		328	19	18	
	GO:		121	1.60	4.35	2
BP	0002 regulation of leukocyte chemotaxis	22/292	/23	E-	E-	2
	688		328	19	18	
	GO:		213	1.95	5.13	2
BP	0002 regulation of adaptive immune response	27/292	/23	E-	E-	7
	819		328	19	18	
	GO:		213	1.95	5.13	2
BP	0042 T cell proliferation	27/292	/23	E-	E-	7
	098		328	19	18	
	GO:		377	1.98	5.14	3
BP	1901 regulation of neuron death	34/292	/23	E-	E-	4
	214		328	19	18	
	GO:		303	2.19	5.60	3
BP	0046 regulation of hormone secretion	31/292	/23	E-	E-	1
	883		328	19	18	
	GO:		236	2.47	6.25	2
BP	0033 muscle cell proliferation	28/292	/23	E-	E-	8
	002		328	19	18	
	GO:		216	2.82	7.03	2
BP	0070 positive regulation of ERK1 and ERK2 cascade	27/292	/23	E-	E-	7
	374		328	19	18	
	GO:		309	3.88	9.54	3
BP	1903 regulation of leukocyte cell-cell adhesion	31/292	/23	E-	E-	1
	037		328	19	18	
	GO:		96/	4.27	1.02	2
BP	0002 positive regulation of leukocyte chemotaxis	20/292	233	E-	E-	0
	690		28	19	17	
	GO:		70/	4.35	1.02	1
BP	1990 response to chemokine	18/292	233	E-	E-	8
	868		28	19	17	

	GO:		70/	4.35	1.02		1
BP	1990 cellular response to chemokine	18/292	233	E-	E-		8
	869		28	19	17		
	GO:		241	4.36	1.02		2
BP	0001 morphogenesis of a branching structure	28/292	/23	E-	E-		8
	763		328	19	17		
	GO:		361	4.59	1.06		3
BP	0002 production of molecular mediator of immune response	33/292	/23	E-	E-		3
	440		328	19	17		
	GO:		388	4.88	1.11		3
BP	1903 positive regulation of secretion by cell	34/292	/23	E-	E-		4
	532		328	19	17		
	GO:	adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	445	5.76	1.29		3
BP	0002	36/292	/23	E-	E-		6
	460		328	19	17		
	GO:		222	5.80	1.29		2
BP	0061 morphogenesis of a branching epithelium	27/292	/23	E-	E-		7
	138		328	19	17		
	GO:		291	6.90	1.52		3
BP	0002 regulation of response to biotic stimulus	30/292	/23	E-	E-		0
	831		328	19	17		
	GO:		165	8.05	1.75		2
BP	0048 regulation of smooth muscle cell proliferation	24/292	/23	E-	E-		4
	660		328	19	17		
	GO:		275	1.46	3.13		2
BP	0060 developmental growth involved in morphogenesis	29/292	/23	E-	E-		9
	560		328	18	17		
	GO:		210	1.69	3.59		2
BP	2000 regulation of animal organ morphogenesis	26/292	/23	E-	E-		6
	027		328	18	17		
	GO:		440	3.13	6.56		3
BP	0051 positive regulation of secretion	35/292	/23	E-	E-		5
	047		328	18	17		
	GO:		175	3.28	6.81		2
BP	0042 regulation of T cell proliferation	24/292	/23	E-	E-		4
	129		328	18	17		
	GO:		260	3.35	6.86		2
BP	0001 negative regulation of cytokine production	28/292	/23	E-	E-		8
	818		328	18	17		
	GO:		106	3.43	6.96		2
BP	0110 positive regulation of animal organ morphogenesis	20/292	/23	E-	E-		0
	110		328	18	17		

	GO:		239	3.98	7.97				
BP	0051	defense response to virus	27/292	/23	E-	E-			2
	607			328	18	17			7
	GO:		107	4.18	8.29				2
BP	1904	positive regulation of receptor signaling	20/292	/23	E-	E-			0
	894	pathway via STAT		328	18	17			
	GO:		197	4.32	8.47				2
BP	0002	regulation of adaptive immune response based on somatic recombination of immune receptors built from immunoglobulin superfamily domains	25/292	/23	E-	E-			5
	822			328	18	17			
	GO:		242	5.49	1.07				2
BP	0032	activation of protein kinase activity	27/292	/23	E-	E-			7
	147			328	18	16			
	GO:		221	6.15	1.18				2
BP	1903	positive regulation of leukocyte cell-cell adhesion	26/292	/23	E-	E-			6
	039			328	18	16			
	GO:		424	7.65	1.45				3
BP	1903	regulation of hemopoiesis	34/292	/23	E-	E-			4
	706			328	18	16			
	GO:		224	8.62	1.62				2
BP	1903	positive regulation of hemopoiesis	26/292	/23	E-	E-			6
	708			328	18	16			
	GO:		345	9.40	1.75				3
BP	0007	leukocyte cell-cell adhesion	31/292	/23	E-	E-			1
	159			328	18	16			
	GO:		295	9.97	1.83				2
BP	0071	cellular response to molecule of bacterial origin	29/292	/23	E-	E-			9
	219			328	18	16			
	GO:		320	1.00	1.83				3
BP	0071	cellular response to biotic stimulus	30/292	/23	E-	E-			0
	216			328	17	16			
	GO:		321	1.09	1.98				3
BP	0050	regulation of T cell activation	30/292	/23	E-	E-			0
	863			328	17	16			
	GO:		273	1.22	2.19				2
BP	0002	positive regulation of immune effector process	28/292	/23	E-	E-			8
	699			328	17	16			
	GO:		85/	1.91	3.39				1
BP	0002	regulation of cytokine production involved in immune response	18/292	233	E-	E-			8
	718			28	17	16			
	GO:		73/	2.68	4.72				1
BP	0014	positive regulation of phosphatidylinositol 3-kinase signaling	17/292	233	E-	E-			7
	068			28	17	16			

	GO:		214	3.23	5.62		2
BP	0019	calcium-mediated signaling	25/292	/23	E-	E-	5
	722			328	17	16	
	GO:		173	3.41	5.89		2
BP	1904	regulation of receptor signaling pathway via	23/292	/23	E-	E-	3
	892	STAT		328	17	16	
	GO:		154	3.53	6.04		2
BP	0022	gland morphogenesis	22/292	/23	E-	E-	2
	612			328	17	16	
	GO:		103	3.78	6.38		1
BP	0046	positive regulation of receptor signaling	19/292	/23	E-	E-	9
	427	pathway via JAK-STAT		328	17	16	
	GO:		285	3.81	6.38		2
BP	0071	cellular response to lipopolysaccharide	28/292	/23	E-	E-	8
	222			328	17	16	
	GO:		89/	4.59	7.63		1
BP	0071	mononuclear cell migration	18/292	233	E-	E-	8
	674			28	17	16	
	GO:		225	1.08	1.77		2
BP	0048	mesenchymal cell differentiation	25/292	/23	E-	E-	5
	762			328	16	15	
	GO:		109	1.15	1.88		1
BP	0002	positive regulation of production of	19/292	/23	E-	E-	9
	702	molecular mediator of immune response		328	16	15	
	GO:		110	1.38	2.23		1
BP	0002	acute inflammatory response	19/292	/23	E-	E-	9
	526			328	16	15	
	GO:		44/	1.39	2.24		1
BP	0050	negative chemotaxis	14/292	233	E-	E-	4
	919			28	16	15	
	GO:		326	1.48	2.33		2
BP	0040	negative regulation of locomotion	29/292	/23	E-	E-	9
	013			328	16	15	
	GO:		326	1.48	2.33		2
BP	0051	negative regulation of cellular component	29/292	/23	E-	E-	9
	271	movement		328	16	15	
	GO:		208	1.89	2.95		2
BP	0050	positive regulation of epithelial cell	24/292	/23	E-	E-	4
	679	proliferation		328	16	15	
	GO:		129	1.93	3.00		2
BP	0061	antimicrobial humoral immune response	20/292	/23	E-	E-	0
	844	mediated by antimicrobial peptide		328	16	15	

	GO:		168	2.35	3.61		
BP	0046	regulation of receptor signaling pathway via JAK-STAT	22/292	/23	E-	E-	2
	425			328	16	15	2
	GO:		416	2.50	3.81		
BP	0051	positive regulation of lymphocyte activation	32/292	/23	E-	E-	3
	251			328	16	15	2
	GO:		100	4.11	6.21		
BP	0042	macrophage activation	18/292	/23	E-	E-	1
	116			328	16	15	8
	GO:		71/	4.15	6.23		
BP	0042	regulation of tyrosine phosphorylation of STAT protein	16/292	233	E-	E-	1
	509			28	16	15	6
	GO:		270	8.67	1.29		
BP	0043	regulation of neuron apoptotic process	26/292	/23	E-	E-	2
	523			328	16	14	6
	GO:		349	9.01	1.33		
BP	0042	wound healing	29/292	/23	E-	E-	2
	060			328	16	14	9
	GO:		75/	1.06	1.55		
BP	0007	tyrosine phosphorylation of STAT protein	16/292	233	E-	E-	1
	260			28	15	14	6
	GO:		409	1.13	1.65		
BP	0048	regulation of developmental growth	31/292	/23	E-	E-	3
	638			328	15	14	1
	GO:		181	1.17	1.68		
BP	0001	temperature homeostasis	22/292	/23	E-	E-	2
	659			328	15	14	2
	GO:		226	1.27	1.81		
BP	0043	positive regulation of MAP kinase activity	24/292	/23	E-	E-	2
	406			328	15	14	4
	GO:		251	1.44	2.04		
BP	1901	negative regulation of neuron death	25/292	/23	E-	E-	2
	215			328	15	14	5
	GO:		228	1.55	2.18		
BP	0031	negative regulation of defense response	24/292	/23	E-	E-	2
	348			328	15	14	4
	GO:		109	2.02	2.82		
BP	0051	positive regulation of protein kinase B signaling	18/292	/23	E-	E-	1
	897			328	15	14	8
	GO:		165	2.06	2.86		
BP	0019	antimicrobial humoral response	21/292	/23	E-	E-	2
	730			328	15	14	1

	GO:		281	2.28	3.13	
BP	0060 mesenchyme development	26/292	/23	E-	E-	2
	485		328	15	14	6
	GO:		146	2.30	3.13	2
BP	0019 sensory perception of pain	20/292	/23	E-	E-	0
	233		328	15	14	
	GO:		334	2.31	3.13	2
BP	0043 positive regulation of ion transport	28/292	/23	E-	E-	8
	270		328	15	14	
	GO:		188	2.62	3.53	2
BP	0045 positive regulation of angiogenesis	22/292	/23	E-	E-	2
	766		328	15	14	
	GO:		167	2.64	3.53	2
BP	0032 interleukin-6 production	21/292	/23	E-	E-	1
	635		328	15	14	
	GO:		80/	3.16	4.20	1
BP	0032 positive regulation of interferon-gamma production	16/292	233	E-	E-	6
	729		28	15	14	
	GO:		261	3.59	4.73	2
BP	0002 regulation of leukocyte mediated immunity	25/292	/23	E-	E-	5
	703		328	15	14	
	GO:		427	3.72	4.86	3
BP	0010 regulation of metal ion transport	31/292	/23	E-	E-	1
	959		328	15	14	
	GO:		81/	3.90	5.06	1
BP	0071 cellular response to interleukin-1	16/292	233	E-	E-	6
	347		28	15	14	
	GO:		400	4.46	5.75	3
BP	1901 response to peptide	30/292	/23	E-	E-	0
	652		328	15	14	
	GO:		114	4.59	5.88	1
BP	2000 positive regulation of reactive oxygen species metabolic process	18/292	/23	E-	E-	8
	379		328	15	14	
	GO:		462	4.89	6.22	3
BP	0002 negative regulation of immune system process	32/292	/23	E-	E-	2
	683		328	15	14	
	GO:		291	5.28	6.67	2
BP	0071 positive regulation of protein serine/threonine kinase activity	26/292	/23	E-	E-	6
	902		328	15	14	
	GO:		134	6.10	7.65	1
BP	0001 regulation of endothelial cell proliferation	19/292	/23	E-	E-	9
	936		328	15	14	

BP	GO: 0014 066	regulation of phosphatidylinositol 3-kinase signaling	17/292	99/ 233 28	6.26 E- 15	7.81 E- 14	1 7
BP	GO: 0002 821	positive regulation of adaptive immune response	20/292	154/ /23 328	6.57 E- 15	8.14 E- 14	2 0
BP	GO: 0001 558	regulation of cell growth	31/292	438/ /23 328	7.45 E- 15	9.17 E- 14	3 1
BP	GO: 0150 076	neuroinflammatory response	15/292	70/ 233 28	7.88 E- 15	9.63 E- 14	1 5
BP	GO: 0050 728	negative regulation of inflammatory response	20/292	156/ /23 328	8.47 E- 15	1.03 E- 13	2 0
BP	GO: 0051 402	neuron apoptotic process	26/292	298/ /23 328	9.31 E- 15	1.12 E- 13	2 6
BP	GO: 0051 048	negative regulation of secretion	23/292	223/ /23 328	9.58 E- 15	1.15 E- 13	2 3
BP	GO: 0050 870	positive regulation of T cell activation	22/292	200/ /23 328	9.67 E- 15	1.15 E- 13	2 2
BP	GO: 1901 343	negative regulation of vasculature development	19/292	139/ /23 328	1.22 E- 14	1.44 E- 13	1 9
BP	GO: 0072 676	lymphocyte migration	17/292	103/ /23 328	1.25 E- 14	1.47 E- 13	1 7
BP	GO: 0060 562	epithelial tube morphogenesis	29/292	387/ /23 328	1.34 E- 14	1.56 E- 13	2 9
BP	GO: 0042 088	T-helper 1 type immune response	13/292	47/ 233 28	1.36 E- 14	1.58 E- 13	1 3
BP	GO: 0050 886	endocrine process	17/292	104/ /23 328	1.47 E- 14	1.70 E- 13	1 7
BP	GO: 0001 503	ossification	29/292	394/ /23 328	2.12 E- 14	2.43 E- 13	2 9

	GO:		471	5.32	5.57	3
BP	0048 gland development	31/292	/23	E-	E-	1
	732		328	14	13	
	GO:		409	5.52	5.76	2
BP	0030 lymphocyte differentiation	29/292	/23	E-	E-	9
	098		328	14	13	
	GO:		295	6.04	6.27	2
BP	0010 epithelial cell migration	25/292	/23	E-	E-	5
	631		328	14	13	
	GO:		113	6.13	6.32	1
BP	0030 regulation of axon extension	17/292	/23	E-	E-	7
	516		328	14	13	
	GO:		96/	6.49	6.65	1
BP	0070 response to interleukin-1	16/292	233	E-	E-	6
	555		28	14	13	
	GO:		196	6.74	6.87	2
BP	0043 protein kinase B signaling	21/292	/23	E-	E-	1
	491		328	14	13	
	GO:		297	7.05	7.15	2
BP	0090 epithelium migration	25/292	/23	E-	E-	5
	132		328	14	13	
	GO:		53/	7.63	7.69	1
BP	0048 lymphocyte chemotaxis	13/292	233	E-	E-	3
	247		28	14	13	
	GO:		415	8.00	8.03	2
BP	0051 regulation of DNA-binding transcription factor activity	29/292	/23	E-	E-	9
	090		328	14	13	
	GO:		299	8.21	8.19	2
BP	0090 tissue migration	25/292	/23	E-	E-	5
	130		328	14	13	
	GO:		301	9.55	9.48	2
BP	0043 regulation of MAP kinase activity	25/292	/23	E-	E-	5
	405		328	14	13	
	GO:		224	1.02	1.01	2
BP	0003 vascular process in circulatory system	22/292	/23	E-	E-	2
	018		328	13	12	
	GO:		100	1.26	1.24	1
BP	0042 positive regulation of T cell proliferation	16/292	/23	E-	E-	6
	102		328	13	12	
	GO:		55/	1.29	1.25	1
BP	0042 positive regulation of tyrosine phosphorylation of STAT protein	13/292	233	E-	E-	3
	531		28	13	12	

	GO:		55/	1.29	1.25		1
BP	0050 negative regulation of chemotaxis	13/292	233	E-	E-		3
	922		28	13	12		
	GO:		33/	1.48	1.43		1
BP	0048 regulation of axon extension involved in	11/292	233	E-	E-		1
	841 axon guidance		28	13	12		
	GO:		56/	1.66	1.59		1
BP	0061 glial cell activation	13/292	233	E-	E-		3
	900		28	13	12		
	GO:		309	1.73	1.65		2
BP	1902 regulation of leukocyte differentiation	25/292	/23	E-	E-		5
	105		328	13	12		
	GO:		207	1.99	1.90		2
BP	2000 regulation of reactive oxygen species	21/292	/23	E-	E-		1
	377 metabolic process		328	13	12		
	GO:		57/	2.12	2.01		1
BP	0002 monocyte chemotaxis	13/292	233	E-	E-		3
	548		28	13	12		
	GO:		185	2.28	2.13		2
BP	0031 regulation of nervous system process	20/292	/23	E-	E-		0
	644		328	13	12		
	GO:		185	2.28	2.13		2
BP	0048 branching morphogenesis of an epithelial	20/292	/23	E-	E-		0
	754 tube		328	13	12		
	GO:		45/	2.35	2.19		1
BP	0071 semaphorin-plexin signaling pathway	12/292	233	E-	E-		2
	526		28	13	12		
	GO:		209	2.41	2.24		2
BP	0008 regulation of blood pressure	21/292	/23	E-	E-		1
	217		328	13	12		
	GO:		58/	2.70	2.50		1
BP	0032 regulation of interleukin-10 production	13/292	233	E-	E-		3
	653		28	13	12		
	GO:		235	2.73	2.51		2
BP	0010 regulation of epithelial cell migration	22/292	/23	E-	E-		2
	632		328	13	12		
	GO:		470	3.07	2.81		3
BP	0009 protein secretion	30/292	/23	E-	E-		0
	306		328	13	12		
	GO:		106	3.23	2.92		1
BP	0035 CD4-positive, alpha-beta T cell activation	16/292	/23	E-	E-		6
	710		328	13	12		

	GO:		471	3.25	2.92		
BP	0035	establishment of protein localization to extracellular region	30/292	/23	E-	E-	3
	592			328	13	12	0
	GO:		166	3.26	2.92		
BP	0046	alpha-beta T cell activation	19/292	/23	E-	E-	1
	631			328	13	12	9
	GO:		166	3.26	2.92		
BP	0051	regulation of protein kinase B signaling	19/292	/23	E-	E-	1
	896			328	13	12	9
	GO:		215	4.21	3.75		
BP	0007	I-kappaB kinase/NF-kappaB signaling	21/292	/23	E-	E-	2
	249			328	13	12	1
	GO:		413	4.61	4.09		
BP	2001	regulation of apoptotic signaling pathway	28/292	/23	E-	E-	2
	233			328	13	12	8
	GO:		478	4.74	4.19		
BP	0071	protein localization to extracellular region	30/292	/23	E-	E-	3
	692			328	13	12	0
	GO:		75/	4.80	4.22		
BP	0032	interleukin-8 production	14/292	233	E-	E-	1
	637			28	13	12	4
	GO:		27/	5.66	4.95		
BP	0048	negative regulation of axon extension involved in axon guidance	10/292	233	E-	E-	1
	843			28	13	12	0
	GO:		482	5.87	5.11		
BP	0007	axonogenesis	30/292	/23	E-	E-	3
	409			328	13	12	0
	GO:		219	6.04	5.24		
BP	0007	adenylate cyclase-modulating G protein-coupled receptor signaling pathway	21/292	/23	E-	E-	2
	188			328	13	12	1
	GO:		37/	6.27	5.38		
BP	0048	axon extension involved in axon guidance	11/292	233	E-	E-	1
	846			28	13	12	1
	GO:		37/	6.27	5.38		
BP	1902	neuron projection extension involved in neuron projection guidance	11/292	233	E-	E-	1
	284			28	13	12	1
	GO:		299	6.38	5.45		
BP	1901	cellular response to peptide	24/292	/23	E-	E-	2
	653			328	13	12	4
	GO:		28/	8.71	7.40		
BP	1902	negative regulation of axon guidance	10/292	233	E-	E-	1
	668			28	13	12	0

	GO:		363	9.38	7.94	2
BP	0019 regulation of lipid metabolic process	26/292	/23	E-	E-	6
	216		328	13	12	
	GO:		200	9.94	8.38	2
BP	0001 cell killing	20/292	/23	E-	E-	0
	906		328	13	12	
	GO:		251	1.04	8.72	2
BP	0007 axon guidance	22/292	/23	E-	E-	2
	411		328	12	12	
	GO:		252	1.13	9.41	2
BP	0097 neuron projection guidance	22/292	/23	E-	E-	2
	485		328	12	12	
	GO:		156	1.21	1.00	1
BP	0032 regulation of interleukin-6 production	18/292	/23	E-	E-	8
	675		328	12	11	
	GO:		180	1.41	1.17	1
BP	1902 positive regulation of leukocyte differentiation	19/292	/23	E-	E-	9
	107		328	12	11	
	GO:		138	1.76	1.44	1
BP	0048 axon extension	17/292	/23	E-	E-	7
	675		328	12	11	
	GO:		138	1.76	1.44	1
BP	0071 leukocyte apoptotic process	17/292	/23	E-	E-	7
	887		328	12	11	
	GO:		30/	1.95	1.59	1
BP	0002 regulation of T-helper 1 type immune response	10/292	233	E-	E-	0
	825		28	12	11	
	GO:		208	2.07	1.68	2
BP	0050 regulation of axonogenesis	20/292	/23	E-	E-	0
	770		328	12	11	
	GO:		41/	2.22	1.79	1
BP	0002 T cell cytokine production	11/292	233	E-	E-	1
	369		28	12	11	
	GO:		101	2.30	1.85	1
BP	0032 positive regulation of interleukin-6 production	15/292	/23	E-	E-	5
	755		328	12	11	
	GO:		120	2.33	1.87	1
BP	0032 regulation of tumor necrosis factor production	16/292	/23	E-	E-	6
	680		328	12	11	
	GO:		186	2.55	2.03	1
BP	1903 regulation of response to wounding	19/292	/23	E-	E-	9
	034		328	12	11	

	GO:		164	2.86	2.27	
BP	0048 phosphatidylinositol-mediated signaling	18/292	/23	E-	E-	1
	015		328	12	11	8
	GO:		264	2.87	2.27	
BP	0045 negative regulation of growth	22/292	/23	E-	E-	2
	926		328	12	11	2
	GO:		69/	2.93	2.31	
BP	0032 regulation of interleukin-8 production	13/292	233	E-	E-	1
	677		28	12	11	3
	GO:		122	3.02	2.36	
BP	0016 negative regulation of angiogenesis	16/292	/23	E-	E-	1
	525		328	12	11	6
	GO:		122	3.02	2.36	
BP	1903 regulation of tumor necrosis factor	16/292	/23	E-	E-	1
	555 superfamily cytokine production		328	12	11	6
	GO:		188	3.08	2.40	
BP	0034 response to tumor necrosis factor	19/292	/23	E-	E-	1
	612		328	12	11	9
	GO:		165	3.17	2.46	
BP	2001 regulation of extrinsic apoptotic signaling	18/292	/23	E-	E-	1
	236 pathway		328	12	11	8
	GO:		55/	3.21	2.48	
BP	0002 regulation of acute inflammatory response	12/292	233	E-	E-	1
	673		28	12	11	2
	GO:		267	3.59	2.76	
BP	0048 developmental cell growth	22/292	/23	E-	E-	2
	588		328	12	11	2
	GO:		241	3.87	2.96	
BP	0030 regulation of ossification	21/292	/23	E-	E-	2
	278		328	12	11	1
	GO:		167	3.90	2.97	
BP	0048 inositol lipid-mediated signaling	18/292	/23	E-	E-	1
	017		328	12	11	8
	GO:		56/	4.04	3.06	
BP	0044 regulation of endocrine process	12/292	233	E-	E-	1
	060		28	12	11	2
	GO:		126	5.00	3.77	
BP	0032 tumor necrosis factor production	16/292	/23	E-	E-	1
	640		328	12	11	6
	GO:		126	5.00	3.77	
BP	2000 negative regulation of blood vessel	16/292	/23	E-	E-	1
	181 morphogenesis		328	12	11	6

	GO: G protein-coupled receptor signaling		246	5.74	4.31	2
BP	0007 pathway, coupled to cyclic nucleotide second messenger	21/292	/23	E-	E-	1
	187		328	12	11	
	GO: pattern recognition receptor signaling		149	6.20	4.63	1
BP	0002 pathway	17/292	/23	E-	E-	7
	221		328	12	11	
	GO: neural crest cell migration		58/	6.30	4.69	1
BP	0001	12/292	233	E-	E-	2
	755		28	12	11	
	GO: tumor necrosis factor superfamily cytokine production		128	6.39	4.74	1
BP	0071	16/292	/23	E-	E-	6
	706		328	12	11	
	GO: regulation of calcium ion transport		275	6.45	4.76	2
BP	0051	22/292	/23	E-	E-	2
	924		328	12	11	
	GO: regulation of lymphocyte mediated immunity		196	6.48	4.76	1
BP	0002	19/292	/23	E-	E-	9
	706		328	12	11	
	GO: negative regulation of hormone secretion		90/	6.55	4.78	1
BP	0046	14/292	233	E-	E-	4
	888		28	12	11	
	GO: stem cell development		90/	6.55	4.78	1
BP	0048	14/292	233	E-	E-	4
	864		28	12	11	
	GO: regulation of blood circulation		248	6.70	4.87	2
BP	1903	21/292	/23	E-	E-	1
	522		328	12	11	
	GO: regulation of protein secretion		365	6.97	5.02	2
BP	0050	25/292	/23	E-	E-	5
	708		328	12	11	
	GO: negative regulation of nervous system development		365	6.97	5.02	2
BP	0051	25/292	/23	E-	E-	5
	961		328	12	11	
	GO: CD4-positive, alpha-beta T cell cytokine production		24/	7.40	5.31	
BP	0035	9/292	233	E-	E-	9
	743		28	12	11	
	GO: mammary gland morphogenesis		59/	7.82	5.60	1
BP	0060	12/292	233	E-	E-	2
	443		28	12	11	
	GO: feeding behavior		130	8.14	5.79	1
BP	0007	16/292	/23	E-	E-	6
	631		328	12	11	

	GO:		432	8.16	5.79		2
BP	0002 lymphocyte mediated immunity	27/292	/23	E-	E-		7
	449		328	12	11		
	GO:		110	8.20	5.79		1
BP	2000 regulation of leukocyte apoptotic process	15/292	/23	E-	E-		5
	106		328	12	11		
	GO:		337	8.23	5.79		2
BP	0050 negative regulation of neurogenesis	24/292	/23	E-	E-		4
	768		328	12	11		
	GO:		199	8.48	5.95		1
BP	0030 negative regulation of cell growth	19/292	/23	E-	E-		9
	308		328	12	11		
	GO:		46/	8.86	6.19		1
BP	1902 regulation of axon guidance	11/292	233	E-	E-		1
	667		28	12	11		
	GO:		154	1.06	7.39		1
BP	0002 positive regulation of response to biotic stimulus	17/292	/23	E-	E-		7
	833		328	11	11		
	GO:		47/	1.14	7.93		1
BP	0030 negative regulation of axon extension	11/292	233	E-	E-		1
	517		28	11	11		
	GO:		61/	1.19	8.23		1
BP	0032 interleukin-12 production	12/292	233	E-	E-		2
	615		28	11	11		
	GO:		203	1.20	8.29		1
BP	0002 lymphocyte activation involved in immune response	19/292	/23	E-	E-		9
	285		328	11	11		
	GO:		285	1.31	8.96		2
BP	0002 leukocyte activation involved in immune response	22/292	/23	E-	E-		2
	366		328	11	11		
	GO:		442	1.38	9.43		2
BP	0071 regulation of protein serine/threonine kinase activity	27/292	/23	E-	E-		7
	900		328	11	11		
	GO:		78/	1.51	1.03		1
BP	0061 mammary gland epithelium development	13/292	233	E-	E-		3
	180		28	11	10		
	GO:		260	1.65	1.12		2
BP	0051 positive regulation of DNA-binding transcription factor activity	21/292	/23	E-	E-		1
	091		328	11	10		
	GO:		182	1.68	1.14		1
BP	0043 negative regulation of neuron apoptotic process	18/292	/23	E-	E-		8
	524		328	11	10		

	GO:			289	1.72	1.16	
BP	0002	cell activation involved in immune response	22/292	/23	E-	E-	2
	263			328	11	10	2
	GO:			63/	1.78	1.20	
BP	0032	positive regulation of tumor necrosis factor	12/292	233	E-	E-	1
	760	production		28	11	10	2
	GO:			137	1.83	1.23	
BP	0034	response to interferon-gamma	16/292	/23	E-	E-	1
	341			328	11	10	6
	GO:			37/	2.09	1.39	
BP	0002	positive regulation of acute inflammatory	10/292	233	E-	E-	1
	675	response		28	11	10	0
	GO:			64/	2.17	1.44	
BP	1903	positive regulation of tumor necrosis factor	12/292	233	E-	E-	1
	557	superfamily cytokine production		28	11	10	2
	GO:			185	2.21	1.46	
BP	0002	positive regulation of leukocyte mediated	18/292	/23	E-	E-	1
	705	immunity		328	11	10	8
	GO:			185	2.21	1.46	
BP	0043	regulation of I-kappaB kinase/NF-kappaB	18/292	/23	E-	E-	1
	122	signaling		328	11	10	8
	GO:			237	2.29	1.51	
BP	0048	stem cell differentiation	20/292	/23	E-	E-	2
	863			328	11	10	0
	GO:			387	2.47	1.62	
BP	0010	negative regulation of cell development	25/292	/23	E-	E-	2
	721			328	11	10	5
	GO:			213	2.80	1.83	
BP	0008	regulation of cell size	19/292	/23	E-	E-	1
	361			328	11	10	9
	GO:			330	3.52	2.28	
BP	0048	homeostasis of number of cells	23/292	/23	E-	E-	2
	872			328	11	10	3
	GO:			243	3.61	2.34	
BP	0034	positive regulation of transmembrane	20/292	/23	E-	E-	2
	764	transport		328	11	10	0
	GO:			52/	3.75	2.42	
BP	0032	positive regulation of interleukin-8	11/292	233	E-	E-	1
	757	production		28	11	10	1
	GO:			167	3.92	2.52	
BP	0045	positive regulation of lipid metabolic process	17/292	/23	E-	E-	1
	834			328	11	10	7

	GO:		84/	4.01	2.57	1
BP	0014 neural crest cell development	13/292	233	E-	E-	3
	032		28	11	10	
	GO:		68/	4.60	2.94	1
BP	0050 negative regulation of axonogenesis	12/292	233	E-	E-	2
	771		28	11	10	
	GO:		169	4.74	3.02	1
BP	0071 cellular response to tumor necrosis factor	17/292	/23	E-	E-	7
	356		328	11	10	
	GO:		146	4.86	3.08	1
BP	0061 regulation of wound healing	16/292	/23	E-	E-	6
	041		328	11	10	
	GO:		40/	4.93	3.11	1
BP	0042 type 2 immune response	10/292	233	E-	E-	0
	092		28	11	10	
	GO:		29/	5.36	3.38	
BP	0002 tolerance induction	9/292	233	E-	E-	9
	507		28	11	10	
	GO:		69/	5.51	3.46	1
BP	0048 positive regulation of fibroblast proliferation	12/292	233	E-	E-	2
	146		28	11	10	
	GO:		249	5.61	3.51	2
BP	0010 glial cell differentiation	20/292	/23	E-	E-	0
	001		328	11	10	
	GO:		41/	6.44	4.00	1
BP	0006 acute-phase response	10/292	233	E-	E-	0
	953		28	11	10	
	GO:		41/	6.44	4.00	1
BP	0060 mammary gland duct morphogenesis	10/292	233	E-	E-	0
	603		28	11	10	
	GO:		198	6.88	4.26	1
BP	1990 neuron projection extension	18/292	/23	E-	E-	8
	138		328	11	10	
	GO:		55/	7.19	4.44	1
BP	0002 positive regulation of cytokine production	11/292	233	E-	E-	1
	involved in immune response		28	11	10	
	720		13/	7.21	4.44	
	GO:		13/	7.21	4.44	
BP	0001 fever generation	7/292	233	E-	E-	7
	660		28	11	10	
	GO:		150	7.33	4.48	1
BP	0010 positive regulation of epithelial cell migration	16/292	/23	E-	E-	6
	634		328	11	10	

	GO:		150	7.33	4.48	
BP	0031 regeneration	16/292	/23	E-	E-	1
	099		328	11	10	6
	GO:		108	8.28	5.04	1
BP	0045 positive regulation of myeloid cell differentiation	14/292	/23	E-	E-	4
	639		328	11	10	
	GO:		129	8.44	5.12	1
BP	0033 positive regulation of peptidyl-serine phosphorylation	15/292	/23	E-	E-	5
	138		328	11	10	
	GO:		89/	8.53	5.16	1
BP	0014 mesenchymal cell development	13/292	233	E-	E-	3
	031		28	11	10	
	GO:		176	9.04	5.43	1
BP	0035 regulation of tube diameter	17/292	/23	E-	E-	7
	296		328	11	10	
	GO:		176	9.04	5.43	1
BP	0097 regulation of blood vessel diameter	17/292	/23	E-	E-	7
	746		328	11	10	
	GO:		21/	9.68	5.80	
BP	1901 regulation of lymphocyte chemotaxis	8/292	233	E-	E-	8
	623		28	11	10	
	GO:		177	9.89	5.90	1
BP	0035 regulation of tube size	17/292	/23	E-	E-	7
	150		328	11	10	
	GO:		414	1.04	6.20	2
BP	0030 myeloid cell differentiation	25/292	/23	E-	E-	5
	099		328	10	10	
	GO:		131	1.05	6.25	1
BP	0048 negative regulation of developmental growth	15/292	/23	E-	E-	5
	640		328	10	10	
	GO:		91/	1.14	6.70	1
BP	0014 positive regulation of gliogenesis	13/292	233	E-	E-	3
	015		28	10	10	
	GO:		91/	1.14	6.70	1
BP	0014 neural crest cell differentiation	13/292	233	E-	E-	3
	033		28	10	10	
	GO:		132	1.17	6.90	1
BP	0002 T cell mediated immunity	15/292	/23	E-	E-	5
	456		328	10	10	
	GO:		58/	1.32	7.75	1
BP	0032 regulation of interleukin-12 production	11/292	233	E-	E-	1
	655		28	10	10	

	GO:		181	1.41	8.21				
BP	0045 regulation of innate immune response	17/292	/23	E-	E-				1
	088		328	10	10				7
	GO:		420	1.41	8.21				2
BP	0006 calcium ion transport	25/292	/23	E-	E-				5
	816		328	10	10				
	GO:		22/	1.50	8.73				
BP	0031 heat generation	8/292	233	E-	E-				8
	649		28	10	10				
	GO:		75/	1.53	8.84				1
BP	0032 regulation of chemokine production	12/292	233	E-	E-				2
	642		28	10	10				
	GO:		113	1.54	8.86				1
BP	0050 regulation of phagocytosis	14/292	/23	E-	E-				4
	764		328	10	10				
	GO:		45/	1.75	1.01				1
BP	0050 positive chemotaxis	10/292	233	E-	E-				0
	918		28	10	09				
	GO:		159	1.77	1.01				1
BP	1990 adaptive thermogenesis	16/292	/23	E-	E-				6
	845		328	10	09				
	GO:		77/	2.10	1.20				1
BP	0006 nitric oxide biosynthetic process	12/292	233	E-	E-				2
	809		28	10	09				
	GO:		23/	2.28	1.30				
BP	0002 positive regulation of T-helper 1 type immune response	8/292	233	E-	E-				8
	827		28	10	09				
	GO:		61/	2.35	1.33				1
BP	0060 endocrine hormone secretion	11/292	233	E-	E-				1
	986		28	10	09				
	GO:		467	2.53	1.43				2
BP	0070 divalent metal ion transport	26/292	/23	E-	E-				6
	838		328	10	09				
	GO:		118	2.76	1.56				1
BP	0046 alpha-beta T cell differentiation	14/292	/23	E-	E-				4
	632		328	10	09				
	GO:		164	2.81	1.58				1
BP	0033 regulation of peptidyl-serine phosphorylation	16/292	/23	E-	E-				6
	135		328	10	09				
	GO:		164	2.81	1.58				1
BP	0046 positive regulation of hormone secretion	16/292	/23	E-	E-				6
	887		328	10	09				

	GO:		79/	2.87	1.60	
BP	0032 chemokine production	12/292	233	E-	E-	1
	602		28	10	09	2
	GO:		79/	2.87	1.60	
BP	0051 positive regulation of cell division	12/292	233	E-	E-	1
	781		28	10	09	2
	GO:		470	2.91	1.62	
BP	0072 divalent inorganic cation transport	26/292	/23	E-	E-	2
	511		328	10	09	6
	GO:		24/	3.38	1.88	
BP	0030 ovulation	8/292	233	E-	E-	8
	728		28	10	09	
	GO:		48/	3.48	1.91	
BP	0001 microglial cell activation	10/292	233	E-	E-	1
	774		28	10	09	0
	GO:		48/	3.48	1.91	
BP	0002 leukocyte activation involved in inflammatory response	10/292	233	E-	E-	1
	269		28	10	09	0
	GO:		48/	3.48	1.91	
BP	0045 positive regulation of nitric oxide biosynthetic process	10/292	233	E-	E-	1
	429		28	10	09	0
	GO:		406	3.85	2.11	
BP	0006 humoral immune response	24/292	/23	E-	E-	2
	959		328	10	09	4
	GO:		81/	3.87	2.11	
BP	0046 nitric oxide metabolic process	12/292	233	E-	E-	1
	209		28	10	09	2
	GO:		220	3.89	2.12	
BP	0002 myeloid leukocyte differentiation	18/292	/23	E-	E-	1
	573		328	10	09	8
	GO:		477	3.99	2.16	
BP	0048 reproductive structure development	26/292	/23	E-	E-	2
	608		328	10	09	6
	GO:		144	4.07	2.20	
BP	0002 positive regulation of lymphocyte mediated immunity	15/292	/23	E-	E-	1
	708		328	10	09	5
	GO:		49/	4.32	2.33	
BP	1904 positive regulation of nitric oxide metabolic process	10/292	233	E-	E-	1
	407		28	10	09	0
	GO:		195	4.52	2.43	
BP	0019 cAMP-mediated signaling	17/292	/23	E-	E-	1
	933		328	10	09	7

	GO:		376	4.66	2.50	2
BP	0001 urogenital system development	23/292	/23	E-	E-	3
	655		328	10	09	
	GO:		481	4.77	2.55	2
BP	0061 reproductive system development	26/292	/23	E-	E-	6
	458		328	10	09	
	GO:		223	4.84	2.58	1
BP	0019 cyclic-nucleotide-mediated signaling	18/292	/23	E-	E-	8
	935		328	10	09	
	GO:		312	4.87	2.59	2
BP	0045 positive regulation of growth	21/292	/23	E-	E-	1
	927		328	10	09	
	GO:		196	4.90	2.60	1
BP	0048 tissue remodeling	17/292	/23	E-	E-	7
	771		328	10	09	
	GO:		224	5.21	2.75	1
BP	0045 regulation of myeloid cell differentiation	18/292	/23	E-	E-	8
	637		328	10	09	
	GO:		413	5.42	2.86	2
BP	0032 regulation of cellular component size	24/292	/23	E-	E-	4
	535		328	10	09	
	GO:		125	6.00	3.16	1
BP	1903 reactive oxygen species biosynthetic process	14/292	/23	E-	E-	4
	409		328	10	09	
	GO:		37/	6.10	3.20	
BP	2000 positive regulation of signaling receptor activity	9/292	233	E-	E-	9
	273		28	10	09	
	GO:		51/	6.58	3.44	1
BP	0032 positive regulation of chemokine production	10/292	233	E-	E-	0
	722		28	10	09	
	GO:		67/	6.76	3.52	1
BP	0060 regulation of morphogenesis of a branching structure	11/292	233	E-	E-	1
	688		28	10	09	
	GO:		85/	6.89	3.58	1
BP	0043 CD4-positive, alpha-beta T cell differentiation	12/292	233	E-	E-	2
	367		28	10	09	
	GO:		10/	7.36	3.81	
BP	0031 regulation of fever generation	6/292	233	E-	E-	6
	620		28	10	09	
	GO:		17/	7.83	4.05	
BP	0140 positive regulation of lymphocyte chemotaxis	7/292	233	E-	E-	7
	131		28	10	09	

	GO:		38/	7.91	4.06	
BP	0014 astrocyte development	9/292	233	E-	E-	9
	002		28	10	09	
	GO:		38/	7.91	4.06	
BP	0032 positive regulation of interleukin-10	9/292	233	E-	E-	9
	733 production		28	10	09	
	GO:		86/	7.91	4.06	
BP	2001 reactive nitrogen species metabolic process	12/292	233	E-	E-	1
	057		28	10	09	2
	GO:		231	8.56	4.38	
BP	2001 negative regulation of apoptotic signaling	18/292	/23	E-	E-	1
	234 pathway		328	10	09	8
	GO:		69/	9.38	4.78	
BP	0045 regulation of nitric oxide biosynthetic	11/292	233	E-	E-	1
	428 process		28	10	09	1
	GO:		108	1.01	5.14	
BP	0002 toll-like receptor signaling pathway	13/292	/23	E-	E-	1
	224		328	09	09	3
	GO:		358	1.04	5.25	
BP	0062 regulation of small molecule metabolic	22/292	/23	E-	E-	2
	012 process		328	09	09	2
	GO:		109	1.13	5.74	
BP	0048 fibroblast proliferation	13/292	/23	E-	E-	1
	144		328	09	09	3
	GO:		110	1.27	6.41	
BP	0032 interleukin-1 production	13/292	/23	E-	E-	1
	612		328	09	09	3
	GO:		71/	1.29	6.48	
BP	0002 inflammatory response to antigenic stimulus	11/292	233	E-	E-	1
	437		28	09	09	1
	GO:		210	1.42	7.12	
BP	0050 negative regulation of cell activation	17/292	/23	E-	E-	1
	866		328	09	09	7
	GO:		399	1.47	7.35	
BP	0042 muscle cell differentiation	23/292	/23	E-	E-	2
	692		328	09	09	3
	GO:		158	1.50	7.48	
BP	0050 negative regulation of immune response	15/292	/23	E-	E-	1
	777		328	09	09	5
	GO:		91/	1.54	7.64	
BP	0001 positive regulation of endothelial cell	12/292	233	E-	E-	1
	938 proliferation		28	09	09	2

	GO:		91/	1.54	7.64	1
BP	0032 interleukin-1 beta production	12/292	233	E-	E-	2
	611		28	09	09	
	GO:		91/	1.54	7.64	1
BP	1903 positive regulation of blood circulation	12/292	233	E-	E-	2
	524		28	09	09	
	GO:		212	1.64	8.10	1
BP	0043 endothelial cell migration	17/292	/23	E-	E-	7
	542		328	09	09	
	GO:		368	1.73	8.50	2
BP	0007 transmembrane receptor protein	22/292	/23	E-	E-	2
	178 serine/threonine kinase signaling pathway		328	09	09	
	GO:		56/	1.73	8.51	1
BP	0071 regulation of mononuclear cell migration	10/292	233	E-	E-	0
	675		28	09	09	
	GO:		92/	1.76	8.60	1
BP	0014 smooth muscle cell migration	12/292	233	E-	E-	2
	909		28	09	09	
	GO:		113	1.78	8.70	1
BP	0003 renal system process	13/292	/23	E-	E-	3
	014		328	09	09	
	GO:		19/	1.99	9.66	
BP	0048 astrocyte activation	7/292	233	E-	E-	7
	143		28	09	09	
	GO:		114	1.99	9.66	1
BP	0071 cellular response to interferon-gamma	13/292	/23	E-	E-	3
	346		328	09	09	
	GO:		74/	2.03	9.83	1
BP	0002 T cell differentiation involved in immune response	11/292	233	E-	E-	1
	292		28	09	09	
	GO:		74/	2.03	9.83	1
BP	0007 peripheral nervous system development	11/292	233	E-	E-	1
	422		28	09	09	
	GO:		115	2.22	1.07	1
BP	0001 leukocyte homeostasis	13/292	/23	E-	E-	3
	776		328	09	08	
	GO:		189	2.28	1.10	1
BP	0002 negative regulation of leukocyte activation	16/292	/23	E-	E-	6
	695		328	09	08	
	GO:		276	2.30	1.10	1
BP	0061 connective tissue development	19/292	/23	E-	E-	9
	448		328	09	08	

	GO:		217	2.34	1.12	
BP	0048 positive regulation of developmental growth	17/292	/23	E-	E-	1
	639		328	09	08	7
	GO:		75/	2.36	1.12	
BP	0051 smooth muscle cell differentiation	11/292	233	E-	E-	1
	145		28	09	08	1
	GO:		164	2.52	1.19	
BP	0030 mammary gland development	15/292	/23	E-	E-	1
	879		328	09	08	5
	GO:		30/	2.52	1.19	
BP	0010 positive regulation of phospholipase C activity	8/292	233	E-	E-	8
	863		28	09	08	
	GO:		30/	2.52	1.19	
BP	0061 myeloid leukocyte cytokine production	8/292	233	E-	E-	8
	082		28	09	08	
	GO:		278	2.60	1.22	
BP	0030 negative regulation of cell migration	19/292	/23	E-	E-	1
	336		328	09	08	9
	GO:		140	2.70	1.27	
BP	0007 adenylate cyclase-activating G protein-coupled receptor signaling pathway	14/292	/23	E-	E-	1
	189		328	09	08	4
	GO:		117	2.75	1.29	
BP	0002 T cell activation involved in immune response	13/292	/23	E-	E-	1
	286		328	09	08	3
	GO:		96/	2.89	1.35	
BP	2000 positive regulation of reproductive process	12/292	233	E-	E-	1
	243		28	09	08	2
	GO:		59/	2.96	1.38	
BP	0060 positive regulation of lipase activity	10/292	233	E-	E-	1
	193		28	09	08	0
	GO:		166	2.98	1.39	
BP	0010 regulation of endothelial cell migration	15/292	/23	E-	E-	1
	594		328	09	08	5
	GO:		77/	3.15	1.46	
BP	1901 positive regulation of NIK/NF-kappaB signaling	11/292	233	E-	E-	1
	224		28	09	08	1
	GO:		31/	3.36	1.56	
BP	0045 positive regulation of epidermal growth factor receptor signaling pathway	8/292	233	E-	E-	8
	742		28	09	08	
	GO:		119	3.39	1.56	
BP	0000 activation of MAPK activity	13/292	/23	E-	E-	1
	187		328	09	08	3

	GO:		119	3.39	1.56	1
BP	0060 regulation of response to cytokine stimulus	13/292	/23	E-	E-	3
	759		328	09	08	
	GO:		60/	3.51	1.62	1
BP	0072 T cell migration	10/292	233	E-	E-	0
	678		28	09	08	
	GO:		98/	3.68	1.69	1
BP	0032 regulation of interleukin-1 production	12/292	233	E-	E-	2
	652		28	09	08	
	GO:		144	3.90	1.78	1
BP	0106 cold-induced thermogenesis	14/292	/23	E-	E-	4
	106		328	09	08	
	GO:		144	3.90	1.78	1
BP	0120 regulation of cold-induced thermogenesis	14/292	/23	E-	E-	4
	161		328	09	08	
	GO:		285	3.91	1.78	1
BP	0030 peptide hormone secretion	19/292	/23	E-	E-	9
	072		328	09	08	
	GO:		79/	4.16	1.89	1
BP	0002 regulation of immunoglobulin production	11/292	233	E-	E-	1
	637		28	09	08	
	GO:		100	4.65	2.11	1
BP	0010 negative regulation of cell morphogenesis	12/292	/23	E-	E-	2
	involved in differentiation		328	09	08	
	771					
	GO:		80/	4.77	2.16	1
BP	0032 regulation of interleukin-1 beta production	11/292	233	E-	E-	1
	651		28	09	08	
	GO:		46/	4.90	2.21	
BP	0010 positive regulation of phospholipase activity	9/292	233	E-	E-	9
	518		28	09	08	
	GO:		147	5.10	2.30	1
BP	0051 positive regulation of NF-kappaB	14/292	/23	E-	E-	4
	transcription factor activity		328	09	08	
	092					
	GO:		200	5.17	2.32	1
BP	0051 cartilage development	16/292	/23	E-	E-	6
	216		328	09	08	
	GO:		290	5.20	2.33	1
BP	0007 negative regulation of cell adhesion	19/292	/23	E-	E-	9
	162		328	09	08	
	GO:		101	5.22	2.33	1
BP	2001 negative regulation of extrinsic apoptotic	12/292	/23	E-	E-	2
	signaling pathway		328	09	08	
	237					

	GO:		259	5.29	2.36	1
BP	0045 negative regulation of neuron differentiation	18/292	/23	E-	E-	8
	665		328	09	08	
	GO:		291	5.50	2.45	1
BP	2000 negative regulation of cell motility	19/292	/23	E-	E-	9
	146		328	09	08	
	GO:		124	5.63	2.50	1
BP	0003 regulation of systemic arterial blood pressure	13/292	/23	E-	E-	3
	073		328	09	08	
	GO:		63/	5.76	2.55	1
BP	1903 positive regulation of reactive oxygen species biosynthetic process	10/292	233	E-	E-	0
	428		28	09	08	
	GO:		33/	5.79	2.56	
BP	1901 positive regulation of ERBB signaling pathway	8/292	233	E-	E-	8
	186		28	09	08	
	GO:		103	6.55	2.89	1
BP	0042 vasoconstriction	12/292	/23	E-	E-	2
	310		328	09	08	
	GO:		176	6.65	2.92	1
BP	0010 negative regulation of neuron projection development	15/292	/23	E-	E-	5
	977		328	09	08	
	GO:		104	7.32	3.21	1
BP	1901 regulation of NIK/NF-kappaB signaling	12/292	/23	E-	E-	2
	222		328	09	08	
	GO:		34/	7.50	3.28	
BP	1900 regulation of phospholipase C activity	8/292	233	E-	E-	8
	274		28	09	08	
	GO:		65/	7.90	3.44	1
BP	0042 T-helper cell differentiation	10/292	233	E-	E-	0
	093		28	09	08	
	GO:		65/	7.90	3.44	1
BP	2000 regulation of CD4-positive, alpha-beta T cell activation	10/292	233	E-	E-	0
	514		28	09	08	
	GO:		84/	8.09	3.51	1
BP	0050 positive regulation of phagocytosis	11/292	233	E-	E-	1
	766		28	09	08	
	GO:		106	9.12	3.95	1
BP	0014 muscle cell migration	12/292	/23	E-	E-	2
	812		328	09	08	
	GO:		85/	9.19	3.96	1
BP	0007 neuropeptide signaling pathway	11/292	233	E-	E-	1
	218		28	09	08	

	GO:		85/	9.19	3.96		1
BP	0014	regulation of smooth muscle cell migration	11/292	233	E-	E-	1
	910			28	09	08	1
	GO:		66/	9.20	3.96		1
BP	0002	CD4-positive, alpha-beta T cell	10/292	233	E-	E-	0
	294	differentiation involved in immune response		28	09	08	
	GO:		154	9.33	4.00		1
BP	0014	regulation of gliogenesis	14/292	/23	E-	E-	4
	013			328	09	08	
	GO:		107	1.02	4.34		1
BP	0048	regulation of fibroblast proliferation	12/292	/23	E-	E-	2
	145			328	08	08	
	GO:		107	1.02	4.34		1
BP	1903	regulation of reactive oxygen species	12/292	/23	E-	E-	2
	426	biosynthetic process		328	08	08	
	GO:		336	1.04	4.43		2
BP	0043	response to peptide hormone	20/292	/23	E-	E-	0
	434			328	08	08	
	GO:		86/	1.04	4.43		1
BP	0048	astrocyte differentiation	11/292	233	E-	E-	1
	708			28	08	08	
	GO:		67/	1.07	4.54		1
BP	0002	alpha-beta T cell differentiation involved in	10/292	233	E-	E-	0
	293	immune response		28	08	08	
	GO:		68/	1.24	5.25		1
BP	0002	alpha-beta T cell activation involved in	10/292	233	E-	E-	0
	287	immune response		28	08	08	
	GO:		109	1.26	5.29		1
BP	0001	regulation of cytokine-mediated signaling	12/292	/23	E-	E-	2
	959	pathway		328	08	08	
	GO:		109	1.26	5.29		1
BP	0097	negative regulation of blood vessel diameter	12/292	/23	E-	E-	2
	756			328	08	08	
	GO:		51/	1.28	5.37		
BP	0031	lipopolysaccharide-mediated signaling	9/292	233	E-	E-	9
	663	pathway		28	08	08	
	GO:		51/	1.28	5.37		
BP	0060	positive regulation of response to cytokine	9/292	233	E-	E-	9
	760	stimulus		28	08	08	
	GO:		24/	1.29	5.41		
BP	0036	response to sterol	7/292	233	E-	E-	7
	314			28	08	08	

	GO:		133	1.33	5.53	1
BP	0044 regulation of anion transport	13/292	/23	E-	E-	3
	070		328	08	08	
	GO:		88/	1.33	5.56	1
BP	0050 negative regulation of lymphocyte proliferation	11/292	233	E-	E-	1
	672		28	08	08	
	GO:		110	1.39	5.78	1
BP	0038 NIK/NF-kappaB signaling	12/292	/23	E-	E-	2
	061		328	08	08	
	GO:		110	1.39	5.78	1
BP	0045 positive regulation of innate immune response	12/292	/23	E-	E-	2
	089		328	08	08	
	GO:		159	1.41	5.81	1
BP	0009 response to temperature stimulus	14/292	/23	E-	E-	4
	266		328	08	08	
	GO:		159	1.41	5.81	1
BP	0045 regulation of T cell differentiation	14/292	/23	E-	E-	4
	580		328	08	08	
	GO:		89/	1.51	6.20	1
BP	0032 negative regulation of mononuclear cell proliferation	11/292	233	E-	E-	1
	945		28	08	08	
	GO:		187	1.51	6.22	1
BP	0034 positive regulation of ion transmembrane transport	15/292	/23	E-	E-	5
	767		328	08	08	
	GO:		52/	1.53	6.27	
BP	0002 positive regulation of immunoglobulin production	9/292	233	E-	E-	9
	639		28	08	08	
	GO:		52/	1.53	6.27	
BP	0140 lipid export from cell	9/292	233	E-	E-	9
	353		28	08	08	
	GO:		70/	1.66	6.75	1
BP	2000 negative regulation of leukocyte apoptotic process	10/292	233	E-	E-	0
	107		28	08	08	
	GO:		15/	1.66	6.75	
BP	0010 regulation of T cell chemotaxis	6/292	233	E-	E-	6
	819		28	08	08	
	GO:		15/	1.66	6.75	
BP	0031 regulation of heat generation	6/292	233	E-	E-	6
	650		28	08	08	
	GO:		15/	1.66	6.75	
BP	0050 induction of positive chemotaxis	6/292	233	E-	E-	6
	930		28	08	08	

	GO:		25/	1.78	7.19	
BP	0034 regulation of heterotypic cell-cell adhesion	7/292	233	E-	E-	7
	114		28	08	08	
	GO:		191	2.01	8.11	1
BP	0051 regulation of nuclear division	15/292	/23	E-	E-	5
	783		328	08	08	
	GO:		191	2.01	8.11	1
BP	0061 neural precursor cell proliferation	15/292	/23	E-	E-	5
	351		328	08	08	
	GO:		351	2.16	8.70	2
BP	0010 regulation of cell morphogenesis involved in differentiation	20/292	/23	E-	E-	0
	769		328	08	08	
	GO:		165	2.26	9.07	1
BP	0051 regulation of muscle cell differentiation	14/292	/23	E-	E-	4
	147		328	08	08	
	GO:		253	2.34	9.35	1
BP	0071 cellular response to peptide hormone stimulus	17/292	/23	E-	E-	7
	375		328	08	08	
	GO:		26/	2.40	9.57	
BP	0050 positive regulation of positive chemotaxis	7/292	233	E-	E-	7
	927		28	08	08	
	GO:		39/	2.41	9.57	
BP	0032 positive regulation of interleukin-12 production	8/292	233	E-	E-	8
	735		28	08	08	
	GO:		39/	2.41	9.57	
BP	2000 positive regulation of lymphocyte migration	8/292	233	E-	E-	8
	403		28	08	08	
	GO:		55/	2.56	1.02	
BP	0010 regulation of collagen metabolic process	9/292	233	E-	E-	9
	712		28	08	07	
	GO:		16/	2.63	1.04	
BP	0002 positive regulation of type 2 immune response	6/292	233	E-	E-	6
	830		28	08	07	
	GO:		195	2.66	1.05	1
BP	2000 regulation of reproductive process	15/292	/23	E-	E-	5
	241		328	08	07	
	GO:		94/	2.69	1.06	1
BP	0070 negative regulation of leukocyte proliferation	11/292	233	E-	E-	1
	664		28	08	07	
	GO:		95/	3.01	1.18	1
BP	0051 regulation of oxidoreductase activity	11/292	233	E-	E-	1
	341		28	08	07	

	GO:		56/	3.02	1.19	
BP	0051 regulation of sensory perception of pain	9/292	233	E-	E-	9
	930		28	08	07	
	GO:		118	3.09	1.21	1
BP	1904 epithelial cell apoptotic process	12/292	/23	E-	E-	2
	019		328	08	07	
	GO:		27/	3.21	1.26	
BP	0050 regulation of positive chemotaxis	7/292	233	E-	E-	7
	926		28	08	07	
	GO:		361	3.45	1.34	2
BP	1904 regulation of cation transmembrane transport	20/292	/23	E-	E-	0
	062		328	08	07	
	GO:		57/	3.55	1.38	
BP	0043 regulation of macrophage activation	9/292	233	E-	E-	9
	030		28	08	07	
	GO:		57/	3.55	1.38	
BP	0051 regulation of sensory perception	9/292	233	E-	E-	9
	931		28	08	07	
	GO:		41/	3.66	1.42	
BP	0098 regulation of renal system process	8/292	233	E-	E-	8
	801		28	08	07	
	GO:		230	3.76	1.45	1
BP	0002 positive regulation of peptide secretion	16/292	/23	E-	E-	6
	793		328	08	07	
	GO:		58/	4.15	1.60	
BP	0010 regulation of phospholipase activity	9/292	233	E-	E-	9
	517		28	08	07	
	GO:		99/	4.65	1.79	1
BP	0007 phospholipase C-activating G protein-coupled receptor signaling pathway	11/292	233	E-	E-	1
	200		28	08	07	
	GO:		333	4.81	1.85	1
BP	0072 renal system development	19/292	/23	E-	E-	9
	001		328	08	07	
	GO:		79/	5.45	2.09	1
BP	0060 regulation of lipase activity	10/292	233	E-	E-	0
	191		28	08	07	
	GO:		408	5.48	2.10	2
BP	0003 muscle system process	21/292	/23	E-	E-	1
	012		328	08	07	
	GO:		29/	5.52	2.11	
BP	0060 branching involved in mammary gland duct morphogenesis	7/292	233	E-	E-	7
	444		28	08	07	

	GO:		60/	5.64	2.15	
BP	2000	regulation of lymphocyte migration	9/292	233	E-	E- 9
	401			28	08	07
	GO:		372	5.64	2.15	2
BP	0010	positive regulation of neuron projection	20/292	/23	E-	E- 0
	976	development		328	08	07
	GO:		207	5.89	2.23	1
BP	0031	negative regulation of cell projection	15/292	/23	E-	E- 5
	345	organization		328	08	07
	GO:		303	5.95	2.25	1
BP	0043	regulation of GTPase activity	18/292	/23	E-	E- 8
	087			328	08	07
	GO:		80/	6.16	2.33	1
BP	0050	regulation of defense response to virus	10/292	233	E-	E- 0
	688			28	08	07
	GO:		489	6.51	2.46	2
BP	0034	regulation of ion transmembrane transport	23/292	/23	E-	E- 3
	765			328	08	07
	GO:		44/	6.56	2.47	
BP	0032	regulation of monooxygenase activity	8/292	233	E-	E- 8
	768			28	08	07
	GO:		44/	6.56	2.47	
BP	1902	positive regulation of pri-miRNA	8/292	233	E-	E- 8
	895	transcription by RNA polymerase II		28	08	07
	GO:		81/	6.95	2.61	1
BP	0051	positive regulation of nuclear division	10/292	233	E-	E- 0
	785			28	08	07
	GO:		10/	7.11	2.66	
BP	0035	T-helper 1 cell cytokine production	5/292	233	E-	E- 5
	744			28	08	07
	GO:		30/	7.13	2.66	
BP	0002	regulation of T cell cytokine production	7/292	233	E-	E- 7
	724			28	08	07
	GO:		62/	7.57	2.82	
BP	0014	positive regulation of smooth muscle cell	9/292	233	E-	E- 9
	911	migration		28	08	07
	GO:		104	7.79	2.90	1
BP	0045	positive regulation of ossification	11/292	/23	E-	E- 1
	778			328	08	07
	GO:		45/	7.90	2.93	
BP	0001	positive regulation of cytokine-mediated	8/292	233	E-	E- 8
	961	signaling pathway		28	08	07

	GO:		45/	7.90	2.93	
BP	0045	positive regulation of fatty acid metabolic process	8/292	233	E-	E- 8
	923			28	08	07
	GO:		417	7.92	2.93	2
BP	0042	B cell activation	21/292	/23	E-	E- 1
	113			328	08	07
	GO:		183	8.34	3.08	1
BP	0008	regulation of heart contraction	14/292	/23	E-	E- 4
	016			328	08	07
	GO:		105	8.60	3.17	1
BP	0046	regulation of alpha-beta T cell activation	11/292	/23	E-	E- 1
	634			328	08	07
	GO:		19/	8.64	3.17	
BP	0002	regulation of tolerance induction	6/292	233	E-	E- 6
	643			28	08	07
	GO:		19/	8.64	3.17	
BP	0002	positive regulation of T cell cytokine production	6/292	233	E-	E- 6
	726			28	08	07
	GO:		184	8.93	3.27	1
BP	0046	regulation of lipid biosynthetic process	14/292	/23	E-	E- 4
	890			328	08	07
	GO:		420	8.94	3.27	2
BP	0007	muscle organ development	21/292	/23	E-	E- 1
	517			328	08	07
	GO:		31/	9.11	3.30	
BP	0002	regulation of type 2 immune response	7/292	233	E-	E- 7
	828			28	08	07
	GO:		31/	9.11	3.30	
BP	0042	regulation of hair cycle	7/292	233	E-	E- 7
	634			28	08	07
	GO:		31/	9.11	3.30	
BP	0045	negative regulation of myoblast differentiation	7/292	233	E-	E- 7
	662			28	08	07
	GO:		31/	9.11	3.30	
BP	0048	lymph node development	7/292	233	E-	E- 7
	535			28	08	07
	GO:		130	9.15	3.31	1
BP	0032	regulation of lipid transport	12/292	/23	E-	E- 2
	368			328	08	07
	GO:		157	9.65	3.48	1
BP	0060	calcium ion transport into cytosol	13/292	/23	E-	E- 3
	402			328	08	07

	GO:		157	9.65	3.48		
BP	0062	positive regulation of small molecule	13/292	/23	E-	E-	1
	013	metabolic process		328	08	07	3
	GO:		64/	1.01	3.62		
BP	0050	regulation of cytokine secretion	9/292	233	E-	E-	9
	707			28	07	07	
	GO:		132	1.08	3.89		1
BP	0010	regulation of signaling receptor activity	12/292	/23	E-	E-	2
	469			328	07	07	
	GO:		47/	1.13	4.03		
BP	0048	macrophage chemotaxis	8/292	233	E-	E-	8
	246			28	07	07	
	GO:		47/	1.13	4.03		
BP	2001	regulation of extrinsic apoptotic signaling	8/292	233	E-	E-	8
	239	pathway in absence of ligand		28	07	07	
	GO:		65/	1.15	4.12		
BP	0045	positive regulation of mitotic nuclear division	9/292	233	E-	E-	9
	840			28	07	07	
	GO:		133	1.18	4.19		1
BP	0042	molting cycle	12/292	/23	E-	E-	2
	303			328	07	07	
	GO:		133	1.18	4.19		1
BP	0042	hair cycle	12/292	/23	E-	E-	2
	633			328	07	07	
	GO:		20/	1.22	4.33		
BP	0010	T cell chemotaxis	6/292	233	E-	E-	6
	818			28	07	07	
	GO:		20/	1.22	4.33		
BP	0048	eosinophil chemotaxis	6/292	233	E-	E-	6
	245			28	07	07	
	GO:		318	1.23	4.35		1
BP	0001	kidney development	18/292	/23	E-	E-	8
	822			328	07	07	
	GO:		354	1.25	4.42		1
BP	0050	regulation of body fluid levels	19/292	/23	E-	E-	9
	878			328	07	07	
	GO:		109	1.27	4.46		1
BP	0051	release of sequestered calcium ion into	11/292	/23	E-	E-	1
	209	cytosol		328	07	07	1
	GO:		252	1.33	4.67		1
BP	0045	fat cell differentiation	16/292	/23	E-	E-	6
	444			328	07	07	

	GO:		48/	1.34	4.69	
BP	0022 ovulation cycle process	8/292	233	E-	E-	8
	602		28	07	07	
	GO:		48/	1.34	4.69	
BP	0032 regulation of collagen biosynthetic process	8/292	233	E-	E-	8
	965		28	07	07	
	GO:		320	1.35	4.72	
BP	0051 maintenance of location	18/292	/23	E-	E-	1
	235		328	07	07	8
	GO:		87/	1.39	4.83	
BP	0034 regulation of tissue remodeling	10/292	233	E-	E-	1
	103		28	07	07	0
	GO:		221	1.39	4.84	
BP	0060 heart contraction	15/292	/23	E-	E-	1
	047		328	07	07	5
	GO:		110	1.39	4.84	
BP	0051 negative regulation of sequestering of calcium ion	11/292	/23	E-	E-	1
	283		328	07	07	1
	GO:		33/	1.45	5.02	
BP	0042 neutrophil activation	7/292	233	E-	E-	7
	119		28	07	07	
	GO:		222	1.47	5.10	
BP	0043 positive regulation of GTPase activity	15/292	/23	E-	E-	1
	547		328	07	07	5
	GO:		358	1.49	5.16	
BP	0045 positive regulation of cell cycle	19/292	/23	E-	E-	1
	787		328	07	07	9
	GO:		136	1.51	5.18	
BP	0051 positive regulation of calcium ion transport	12/292	/23	E-	E-	1
	928		328	07	07	2
	GO:		136	1.51	5.18	
BP	0097 calcium ion transmembrane import into cytosol	12/292	/23	E-	E-	1
	553		328	07	07	2
	GO:		192	1.51	5.19	
BP	0022 negative regulation of cell-cell adhesion	14/292	/23	E-	E-	1
	408		328	07	07	4
	GO:		192	1.51	5.19	
BP	0045 regulation of lymphocyte differentiation	14/292	/23	E-	E-	1
	619		328	07	07	4
	GO:		111	1.53	5.24	
BP	0019 regulation of steroid metabolic process	11/292	/23	E-	E-	1
	218		328	07	07	1

	GO:		88/	1.55	5.28	
BP	0010	regulation of glucose transmembrane transport	10/292	233	E-	E-
	827			28	07	07
	GO:		112	1.68	5.72	
BP	0051	regulation of sequestering of calcium ion	11/292	/23	E-	E-
	282			328	07	07
	GO:		68/	1.72	5.86	
BP	0002	positive regulation of myeloid leukocyte differentiation	9/292	233	E-	E-
	763			28	07	07
	GO:		165	1.73	5.87	
BP	1905	regulation of lipid localization	13/292	/23	E-	E-
	952			328	07	07
	GO:		34/	1.80	6.12	
BP	0010	positive regulation of collagen metabolic process	7/292	233	E-	E-
	714			28	07	07
	GO:		113	1.84	6.21	
BP	0001	hair follicle development	11/292	/23	E-	E-
	942			328	07	07
	GO:		113	1.84	6.21	
BP	0051	sequestering of calcium ion	11/292	/23	E-	E-
	208			328	07	07
	GO:		114	2.01	6.77	
BP	0006	smooth muscle contraction	11/292	/23	E-	E-
	939			328	07	07
	GO:		114	2.01	6.77	
BP	1905	regulation of morphogenesis of an epithelium	11/292	/23	E-	E-
	330			328	07	07
	GO:		91/	2.13	7.16	
BP	0032	regulation of organic acid transport	10/292	233	E-	E-
	890			28	07	07
	GO:		70/	2.22	7.46	
BP	0030	regulation of B cell proliferation	9/292	233	E-	E-
	888			28	07	07
	GO:		331	2.23	7.46	
BP	0018	peptidyl-serine phosphorylation	18/292	/23	E-	E-
	105			328	07	07
	GO:		35/	2.23	7.46	
BP	0050	defense response to fungus	7/292	233	E-	E-
	832			28	07	07
	GO:		22/	2.30	7.67	
BP	0051	regulation of hair follicle development	6/292	233	E-	E-
	797			28	07	07

	GO:		22/	2.30	7.67	
BP	0060 branch elongation of an epithelium	6/292	233	E-	E-	6
	602		28	07	07	
	GO:		116	2.40	7.96	1
BP	0022 molting cycle process	11/292	/23	E-	E-	1
	404		328	07	07	
	GO:		116	2.40	7.96	1
BP	0022 hair cycle process	11/292	/23	E-	E-	1
	405		328	07	07	
	GO:		116	2.40	7.96	1
BP	0098 skin epidermis development	11/292	/23	E-	E-	1
	773		328	07	07	
	GO:		170	2.44	8.08	1
BP	1904 positive regulation of cation transmembrane transport	13/292	/23	E-	E-	3
	064		328	07	07	
	GO:		231	2.47	8.14	1
BP	0003 heart process	15/292	/23	E-	E-	5
	015		328	07	07	
	GO:		52/	2.56	8.39	
BP	0009 response to fungus	8/292	233	E-	E-	8
	620		28	07	07	
	GO:		52/	2.56	8.39	
BP	0032 positive regulation of type I interferon production	8/292	233	E-	E-	8
	481		28	07	07	
	GO:		52/	2.56	8.39	
BP	0032 positive regulation of interleukin-1 beta production	8/292	233	E-	E-	8
	731		28	07	07	
	GO:		299	2.60	8.53	1
BP	0007 learning or memory	17/292	/23	E-	E-	7
	611		328	07	07	
	GO:		36/	2.74	8.95	
BP	0010 vascular endothelial growth factor production	7/292	233	E-	E-	7
	573		28	07	07	
	GO:		36/	2.74	8.95	
BP	1902 positive regulation of neutrophil migration	7/292	233	E-	E-	7
	624		28	07	07	
	GO:		336	2.78	9.07	1
BP	0050 cognition	18/292	/23	E-	E-	8
	890		328	07	07	
	GO:		118	2.86	9.31	1
BP	0021 glial cell development	11/292	/23	E-	E-	1
	782		328	07	07	

	GO:		94/	2.90	9.42			
BP	1904	regulation of epithelial cell apoptotic process	10/292	233	E-	E-		1
	035			28	07	07		0
	GO:		53/	2.98	9.61			
BP	0002	positive regulation of B cell mediated immunity	8/292	233	E-	E-		8
	714			28	07	07		
	GO:		53/	2.98	9.61			
BP	0002	positive regulation of immunoglobulin mediated immune response	8/292	233	E-	E-		8
	891			28	07	07		
	GO:		53/	2.98	9.61			
BP	0010	negative regulation of endothelial cell migration	8/292	233	E-	E-		8
	596			28	07	07		
	GO:		53/	2.98	9.61			
BP	0051	regulation of amino acid transport	8/292	233	E-	E-		8
	955			28	07	07		
	GO:		145	3.04	9.78			
BP	0072	kidney epithelium development	12/292	/23	E-	E-		1
	073			328	07	07		2
	GO:		235	3.07	9.88			
BP	0090	regulation of peptide hormone secretion	15/292	/23	E-	E-		1
	276			328	07	07		5
	GO:		23/	3.08	9.90			
BP	0002	negative regulation of cytokine production involved in immune response	6/292	233	E-	E-		6
	719			28	07	07		
	GO:		73/	3.21	1.03			
BP	0042	negative regulation of T cell proliferation	9/292	233	E-	E-		9
	130			28	07	06		
	GO:		54/	3.46	1.10			
BP	0034	heterotypic cell-cell adhesion	8/292	233	E-	E-		8
	113			28	07	06		
	GO:		54/	3.46	1.10			
BP	0045	positive regulation of glial cell differentiation	8/292	233	E-	E-		8
	687			28	07	06		
	GO:		54/	3.46	1.10			
BP	1904	regulation of vascular associated smooth muscle cell proliferation	8/292	233	E-	E-		8
	705			28	07	06		
	GO:		54/	3.46	1.10			
BP	1990	vascular associated smooth muscle cell proliferation	8/292	233	E-	E-		8
	874			28	07	06		
	GO:		13/	3.52	1.11			
BP	0002	T cell tolerance induction	5/292	233	E-	E-		5
	517			28	07	06		

	GO:		13/	3.52	1.11	
BP	0031 positive regulation of heat generation	5/292	233	E-	E-	5
	652		28	07	06	
	GO:		13/	3.52	1.11	
BP	0045 positive regulation of epidermal growth factor-activated receptor activity	5/292	233	E-	E-	5
	741		28	07	06	
	GO:		207	3.81	1.20	1
BP	0035 organ growth	14/292	/23	E-	E-	4
	265		328	07	06	
	GO:		177	3.89	1.23	1
BP	0060 cytosolic calcium ion transport	13/292	/23	E-	E-	3
	401		328	07	06	
	GO:		97/	3.90	1.23	1
BP	0120 positive regulation of cold-induced thermogenesis	10/292	233	E-	E-	0
	162		28	07	06	
	GO:		273	3.92	1.23	1
BP	0042 glucose homeostasis	16/292	/23	E-	E-	6
	593		328	07	06	
	GO:		55/	4.00	1.25	
BP	0003 regulation of systemic arterial blood pressure mediated by a chemical signal	8/292	233	E-	E-	8
	044		28	07	06	
	GO:		55/	4.00	1.25	
BP	2000 regulation of endothelial cell apoptotic process	8/292	233	E-	E-	8
	351		28	07	06	
	GO:		208	4.04	1.26	1
BP	0001 response to hypoxia	14/292	/23	E-	E-	4
	666		328	07	06	
	GO:		24/	4.07	1.27	
BP	0070 interleukin-1-mediated signaling pathway	6/292	233	E-	E-	6
	498		28	07	06	
	GO:		24/	4.07	1.27	
BP	0072 eosinophil migration	6/292	233	E-	E-	6
	677		28	07	06	
	GO:		149	4.08	1.27	1
BP	0046 female sex differentiation	12/292	/23	E-	E-	2
	660		328	07	06	
	GO:		345	4.10	1.27	1
BP	0002 immune response-regulating signaling pathway	18/292	/23	E-	E-	8
	764		328	07	06	
	GO:		274	4.12	1.28	1
BP	0033 carbohydrate homeostasis	16/292	/23	E-	E-	6
	500		328	07	06	

	GO:		209	4.28	1.32				1
BP	0043	regulation of cysteine-type endopeptidase activity involved in apoptotic process	14/292	/23	E-	E-			4
	281			328	07	06			
	GO:			98/	4.30	1.33			1
BP	0060	SMAD protein signal transduction	10/292	233	E-	E-			0
	395			28	07	06			
	GO:			123	4.36	1.35			1
BP	0002	sprouting angiogenesis	11/292	/23	E-	E-			1
	040			328	07	06			
	GO:			76/	4.56	1.41			
BP	0050	cytokine secretion	9/292	233	E-	E-			9
	663			28	07	06			
	GO:			56/	4.62	1.42			
BP	1902	regulation of pri-miRNA transcription by RNA polymerase II	8/292	233	E-	E-			8
	893			28	07	06			
	GO:			464	4.64	1.43			2
BP	0042	defense response to bacterium	21/292	/23	E-	E-			1
	742			328	07	06			
	GO:			39/	4.89	1.50			
BP	0033	myeloid cell apoptotic process	7/292	233	E-	E-			7
	028			28	07	06			
	GO:			39/	4.89	1.50			
BP	0036	granulocyte activation	7/292	233	E-	E-			7
	230			28	07	06			
	GO:			125	5.13	1.57			1
BP	0043	positive regulation of I-kappaB kinase/NF-kappaB signaling	11/292	/23	E-	E-			1
	123			328	07	06			
	GO:			100	5.19	1.58			1
BP	0046	positive regulation of lipid biosynthetic process	10/292	/23	E-	E-			0
	889			328	07	06			
	GO:			57/	5.32	1.62			
BP	0032	collagen biosynthetic process	8/292	233	E-	E-			8
	964			28	07	06			
	GO:			57/	5.32	1.62			
BP	0071	regulation of granulocyte chemotaxis	8/292	233	E-	E-			8
	622			28	07	06			
	GO:			315	5.41	1.64			1
BP	0007	sex differentiation	17/292	/23	E-	E-			7
	548			328	07	06			
	GO:			14/	5.42	1.64			
BP	0010	positive regulation of T cell chemotaxis	5/292	233	E-	E-			5
	820			28	07	06			

	GO:		14/	5.42	1.64	
BP	0035 positive regulation of renal sodium excretion	5/292	233	E-	E-	5
	815		28	07	06	
	GO:		126	5.56	1.68	1
BP	0007 digestion	11/292	/23	E-	E-	1
	586		328	07	06	
	GO:		126	5.56	1.68	1
BP	1901 positive regulation of neuron death	11/292	/23	E-	E-	1
	216		328	07	06	
	GO:		78/	5.71	1.71	
BP	0019 regulation of vasoconstriction	9/292	233	E-	E-	9
	229		28	07	06	
	GO:		78/	5.71	1.71	
BP	0070 regulation of lymphocyte apoptotic process	9/292	233	E-	E-	9
	228		28	07	06	
	GO:		78/	5.71	1.71	
BP	1903 positive regulation of response to wounding	9/292	233	E-	E-	9
	036		28	07	06	
	GO: regulation of transmembrane receptor		247	5.81	1.74	1
BP	0090 protein serine/threonine kinase signaling	15/292	/23	E-	E-	5
	092 pathway		328	07	06	
	GO:		40/	5.86	1.75	
BP	0046 regulation of activated T cell proliferation	7/292	233	E-	E-	7
	006		28	07	06	
	GO:		58/	6.10	1.82	
BP	0061 pri-miRNA transcription by RNA polymerase	8/292	233	E-	E-	8
	614 II		28	07	06	
	GO:		58/	6.10	1.82	
BP	0072 endothelial cell apoptotic process	8/292	233	E-	E-	8
	577		28	07	06	
	GO:		472	6.13	1.82	2
BP	0045 positive regulation of neuron differentiation	21/292	/23	E-	E-	1
	666		328	07	06	
	GO:		102	6.25	1.86	1
BP	0070 lymphocyte apoptotic process	10/292	/23	E-	E-	0
	227		328	07	06	
	GO:		357	6.73	2.00	1
BP	0018 peptidyl-serine modification	18/292	/23	E-	E-	8
	209		328	07	06	
	GO:		26/	6.81	2.01	
BP	0007 copulation	6/292	233	E-	E-	6
	620		28	07	06	

	GO:		26/	6.81	2.01	
BP	0031 animal organ regeneration	6/292	233	E-	E-	6
	100		28	07	06	
	GO:		26/	6.81	2.01	
BP	0042 positive regulation of activated T cell proliferation	6/292	233	E-	E-	6
	104		28	07	06	
	GO:		26/	6.81	2.01	
BP	0045 positive regulation of fatty acid biosynthetic process	6/292	233	E-	E-	6
	723		28	07	06	
	GO:		103	6.85	2.02	1
BP	0010 regulation of calcium ion transport into cytosol	10/292	/23	E-	E-	0
	522		328	07	06	
	GO:		80/	7.11	2.08	
BP	0038 signal transduction in absence of ligand	9/292	233	E-	E-	9
	034		28	07	06	
	GO:		80/	7.11	2.08	
BP	0097 extrinsic apoptotic signaling pathway in absence of ligand	9/292	233	E-	E-	9
	192		28	07	06	
	GO:		218	7.11	2.08	1
BP	0048 response to steroid hormone	14/292	/23	E-	E-	4
	545		328	07	06	
	GO:		478	7.51	2.20	2
BP	0031 positive regulation of cell projection organization	21/292	/23	E-	E-	1
	346		328	07	06	
	GO:		158	7.66	2.24	1
BP	0051 negative regulation of lymphocyte activation	12/292	/23	E-	E-	2
	250		328	07	06	
	GO:		60/	7.97	2.32	
BP	0070 T cell apoptotic process	8/292	233	E-	E-	8
	231		28	07	06	
	GO:		60/	7.97	2.32	
BP	1905 macrophage migration	8/292	233	E-	E-	8
	517		28	07	06	
	GO:		15/	8.05	2.34	
BP	0035 T-helper 2 cell cytokine production	5/292	233	E-	E-	5
	745		28	07	06	
	GO:		105	8.19	2.38	1
BP	1905 positive regulation of lipid localization	10/292	/23	E-	E-	0
	954		328	07	06	
	GO:		131	8.22	2.38	1
BP	0002 regulation of myeloid leukocyte differentiation	11/292	/23	E-	E-	1
	761		328	07	06	

	GO:		254	8.26	2.39	
BP	0090 positive regulation of cell cycle process	15/292	/23	E-	E-	1
	068		328	07	06	5
	GO:		27/	8.67	2.49	
BP	0010 macrophage derived foam cell differentiation	6/292	233	E-	E-	6
	742		28	07	06	
	GO:		27/	8.67	2.49	
BP	0048 immunoglobulin secretion	6/292	233	E-	E-	6
	305		28	07	06	
	GO:		27/	8.67	2.49	
BP	0071 positive regulation of mononuclear cell migration	6/292	233	E-	E-	6
	677		28	07	06	
	GO:		27/	8.67	2.49	
BP	0090 positive regulation of neutrophil chemotaxis	6/292	233	E-	E-	6
	023		28	07	06	
	GO:		160	8.76	2.51	1
BP	0007 regulation of mitotic nuclear division	12/292	/23	E-	E-	2
	088		328	07	06	
	GO:		160	8.76	2.51	1
BP	0051 regulation of cell division	12/292	/23	E-	E-	2
	302		328	07	06	
	GO:		82/	8.79	2.51	
BP	0032 positive regulation of lipid transport	9/292	233	E-	E-	9
	370		28	07	06	
	GO:		61/	9.07	2.59	
BP	0032 positive regulation of interleukin-1 production	8/292	233	E-	E-	8
	732		28	07	06	
	GO:		61/	9.07	2.59	
BP	0042 ovulation cycle	8/292	233	E-	E-	8
	698		28	07	06	
	GO:		257	9.58	2.73	1
BP	0051 stress-activated MAPK cascade	15/292	/23	E-	E-	5
	403		328	07	06	
	GO:		43/	9.82	2.79	
BP	0032 interleukin-17 production	7/292	233	E-	E-	7
	620		28	07	06	
	GO:		43/	9.82	2.79	
BP	0070 regulation of T cell apoptotic process	7/292	233	E-	E-	7
	232		28	07	06	
	GO:		134	1.03	2.92	1
BP	0002 negative regulation of immune effector process	11/292	/23	E-	E-	1
	698		328	06	06	1

	GO:		84/	1.08	3.06	
BP	0051 response to glucocorticoid	9/292	233	E-	E-	9
	384		28	06	06	
	GO:		28/	1.09	3.08	
BP	0060 branching involved in salivary gland	6/292	233	E-	E-	6
	445 morphogenesis		28	06	06	
	GO:		28/	1.09	3.08	
BP	0090 foam cell differentiation	6/292	233	E-	E-	6
	077		28	06	06	
	GO:		44/	1.15	3.24	
BP	0043 regulation of vascular permeability	7/292	233	E-	E-	7
	114		28	06	06	
	GO:		44/	1.15	3.24	
BP	0045 positive regulation of heart contraction	7/292	233	E-	E-	7
	823		28	06	06	
	GO:		44/	1.15	3.24	
BP	0050 regulation of defense response to virus by	7/292	233	E-	E-	7
	691 host		28	06	06	
	GO:		16/	1.16	3.24	
BP	0042 vitamin D metabolic process	5/292	233	E-	E-	5
	359		28	06	06	
	GO:		16/	1.16	3.24	
BP	0043 penile erection	5/292	233	E-	E-	5
	084		28	06	06	
	GO:		63/	1.17	3.26	
BP	0045 regulation of myoblast differentiation	8/292	233	E-	E-	8
	661		28	06	06	
	GO:		262	1.22	3.40	
BP	0002 immunoglobulin production	15/292	/23	E-	E-	1
	377		328	06	06	5
	GO:		298	1.25	3.49	
BP	0006 muscle contraction	16/292	/23	E-	E-	1
	936		328	06	06	6
	GO:		229	1.28	3.56	
BP	0030 insulin secretion	14/292	/23	E-	E-	1
	073		328	06	06	4
	GO:		374	1.31	3.64	
BP	0044 symbiotic process	18/292	/23	E-	E-	1
	403		328	06	06	8
	GO:		45/	1.35	3.75	
BP	0030 positive regulation of B cell proliferation	7/292	233	E-	E-	7
	890		28	06	06	

	GO:		29/	1.36	3.76	
BP	0031 T cell costimulation	6/292	233	E-	E-	6
	295		28	06	06	
	GO:		29/	1.36	3.76	
BP	0043 positive regulation of macrophage activation	6/292	233	E-	E-	6
	032		28	06	06	
	GO:		29/	1.36	3.76	
BP	0071 positive regulation of granulocyte chemotaxis	6/292	233	E-	E-	6
	624		28	06	06	
	GO:		111	1.37	3.77	1
BP	0030 osteoclast differentiation	10/292	/23	E-	E-	0
	316		328	06	06	
	GO:		111	1.37	3.77	1
BP	0032 collagen metabolic process	10/292	/23	E-	E-	0
	963		328	06	06	
	GO:		111	1.37	3.77	1
BP	1904 glucose transmembrane transport	10/292	/23	E-	E-	0
	659		328	06	06	
	GO:		301	1.43	3.92	1
BP	0048 rhythmic process	16/292	/23	E-	E-	6
	511		328	06	06	
	GO:		112	1.49	4.08	1
BP	0008 hexose transmembrane transport	10/292	/23	E-	E-	0
	645		328	06	06	
	GO:		65/	1.49	4.08	1
BP	0060 pathway-restricted SMAD protein phosphorylation	8/292	233	E-	E-	8
	389		28	06	06	
	GO:		169	1.56	4.28	1
BP	0032 positive regulation of stress-activated MAPK cascade	12/292	/23	E-	E-	2
	874		328	06	06	
	GO:		46/	1.58	4.31	
BP	2000 regulation of T cell migration	7/292	233	E-	E-	7
	404		28	06	06	
	GO:		88/	1.60	4.35	
BP	0002 B cell activation involved in immune response	9/292	233	E-	E-	9
	312		28	06	06	
	GO:		88/	1.60	4.35	
BP	0031 response to corticosteroid	9/292	233	E-	E-	9
	960		28	06	06	
	GO:		88/	1.60	4.35	
BP	0062 regulation of pattern recognition receptor signaling pathway	9/292	233	E-	E-	9
	207		28	06	06	

	GO:			88/	1.60	4.35	
BP	1900	positive regulation of protein localization to nucleus	9/292	233	E-	E-	9
	182			28	06	06	
	GO:			234	1.65	4.47	1
BP	0036	response to decreased oxygen levels	14/292	/23	E-	E-	4
	293			328	06	06	
	GO:			234	1.65	4.47	1
BP	2000	regulation of cysteine-type endopeptidase activity	14/292	/23	E-	E-	4
	116			328	06	06	
	GO:			342	1.68	4.52	1
BP	0002	immune response-regulating cell surface receptor signaling pathway	17/292	/23	E-	E-	7
	768			328	06	06	
	GO:			66/	1.68	4.52	
BP	0032	interleukin-2 production	8/292	233	E-	E-	8
	623			28	06	06	
	GO:			30/	1.68	4.54	
BP	0001	organ induction	6/292	233	E-	E-	6
	759			28	06	06	
	GO:			114	1.75	4.71	1
BP	0015	monosaccharide transmembrane transport	10/292	/23	E-	E-	0
	749			328	06	06	
	GO:			171	1.77	4.75	1
BP	0045	positive regulation of mitotic cell cycle	12/292	/23	E-	E-	2
	931			328	06	06	
	GO:			171	1.77	4.75	1
BP	0070	positive regulation of stress-activated protein kinase signaling cascade	12/292	/23	E-	E-	2
	304			328	06	06	
	GO:			236	1.83	4.89	1
BP	0008	gonad development	14/292	/23	E-	E-	4
	406			328	06	06	
	GO:			47/	1.84	4.89	
BP	0001	regulation of systemic arterial blood pressure by hormone	7/292	233	E-	E-	7
	990			28	06	06	
	GO:			47/	1.84	4.89	
BP	0010	positive regulation of epithelial to mesenchymal transition	7/292	233	E-	E-	7
	718			28	06	06	
	GO:			47/	1.84	4.89	
BP	0043	negative regulation of I-kappaB kinase/NF-kappaB signaling	7/292	233	E-	E-	7
	124			28	06	06	
	GO:			115	1.90	5.04	1
BP	0008	female gonad development	10/292	/23	E-	E-	0
	585			328	06	06	

	GO:		115	1.90	5.04	1
BP	0034 carbohydrate transmembrane transport	10/292	/23	E-	E-	0
	219		328	06	06	
	GO: positive regulation of transmembrane		115	1.90	5.04	1
BP	0090 receptor protein serine/threonine kinase	10/292	/23	E-	E-	0
	100 signaling pathway		328	06	06	
	GO: stress-activated protein kinase signaling		272	1.94	5.15	1
BP	0031 cascade	15/292	/23	E-	E-	5
	098		328	06	06	
	GO:		346	1.96	5.19	1
BP	0052 regulation of endopeptidase activity	17/292	/23	E-	E-	7
	548		328	06	06	
	GO:		273	2.03	5.37	1
BP	0071 anatomical structure maturation	15/292	/23	E-	E-	5
	695		328	06	06	
	GO:		205	2.05	5.40	1
BP	0001 osteoblast differentiation	13/292	/23	E-	E-	3
	649		328	06	06	
	GO:		116	2.05	5.40	1
BP	0002 negative regulation of peptide secretion	10/292	/23	E-	E-	0
	792		328	06	06	
	GO:		116	2.05	5.40	1
BP	0051 regulation of amine transport	10/292	/23	E-	E-	0
	952		328	06	06	
	GO:		31/	2.07	5.42	
BP	0031 lymphocyte costimulation	6/292	233	E-	E-	6
	294		28	06	06	
	GO: positive regulation of collagen biosynthetic		31/	2.07	5.42	
BP	0032 process	6/292	233	E-	E-	6
	967		28	06	06	
	GO:		31/	2.07	5.42	
BP	0044 regulation of excretion	6/292	233	E-	E-	6
	062		28	06	06	
	GO:		144	2.10	5.49	1
BP	0072 stem cell proliferation	11/292	/23	E-	E-	1
	089		328	06	06	
	GO:		68/	2.11	5.51	
BP	0002 regulation of B cell mediated immunity	8/292	233	E-	E-	8
	712		28	06	06	
	GO: regulation of immunoglobulin mediated		68/	2.11	5.51	
BP	0002 immune response	8/292	233	E-	E-	8
	889		28	06	06	

	GO:		348	2.12	5.51		1
BP	0051 positive regulation of protein transport	17/292	/23	E-	E-		7
	222		328	06	06		
	GO:		174	2.13	5.51		1
BP	0043 negative regulation of ion transport	12/292	/23	E-	E-		2
	271		328	06	06		
	GO:		48/	2.13	5.51		
BP	0010 positive regulation of pathway-restricted SMAD protein phosphorylation	7/292	233	E-	E-		7
	862		28	06	06		
	GO:		48/	2.13	5.51		
BP	0050 activated T cell proliferation	7/292	233	E-	E-		7
	798		28	06	06		
	GO:		48/	2.13	5.51		
BP	1902 regulation of neutrophil migration	7/292	233	E-	E-		7
	622		28	06	06		
	GO:		91/	2.13	5.51		
BP	0044 cellular response to fibroblast growth factor stimulus	9/292	233	E-	E-		9
	344		28	06	06		
	GO:		117	2.22	5.74		
BP	0045 positive regulation of lymphocyte differentiation	10/292	/23	E-	E-		1
	621		328	06	06		0
	GO:		240	2.23	5.74		
BP	0045 development of primary sexual characteristics	14/292	/23	E-	E-		1
	137		328	06	06		4
	GO:		18/	2.23	5.74		
BP	0032 positive regulation of interleukin-17 production	5/292	233	E-	E-		5
	740		28	06	06		
	GO:		92/	2.34	6.01		
BP	0045 regulation of glial cell differentiation	9/292	233	E-	E-		9
	685		28	06	06		
	GO:		69/	2.36	6.07		
BP	0042 regulation of epidermal growth factor receptor signaling pathway	8/292	233	E-	E-		8
	058		28	06	06		
	GO:		313	2.37	6.08		
BP	0008 epidermis development	16/292	/23	E-	E-		1
	544		328	06	06		6
	GO:		176	2.40	6.14		
BP	0007 gastrulation	12/292	/23	E-	E-		1
	369		328	06	06		2
	GO:		118	2.40	6.14		
BP	0046 development of primary female sexual characteristics	10/292	/23	E-	E-		1
	545		328	06	06		0

BP	GO: cellular response to transforming growth factor beta stimulus	13/292	208	2.41	6.15	1
	560		/23	E-	E-	3
			328	06	06	
BP	GO: acute inflammatory response to antigenic stimulus	6/292	32/	2.52	6.41	
	438		233	E-	E-	6
			28	06	06	
BP	GO: regulation of vascular endothelial growth factor production	6/292	32/	2.52	6.41	
	574		233	E-	E-	6
			28	06	06	
BP	GO: regulation of smooth muscle cell differentiation	6/292	32/	2.52	6.41	
	150		233	E-	E-	6
			28	06	06	
BP	GO: myoblast differentiation	9/292	93/	2.56	6.49	
	445		233	E-	E-	9
			28	06	06	
BP	GO: response to fibroblast growth factor	9/292	93/	2.56	6.49	
	774		233	E-	E-	9
			28	06	06	
BP	GO: odontogenesis	10/292	119	2.59	6.56	1
	476		/23	E-	E-	0
			328	06	06	
BP	GO: blood vessel endothelial cell migration	10/292	119	2.59	6.56	1
	534		/23	E-	E-	0
			328	06	06	
BP	GO: immunoglobulin production involved in immunoglobulin mediated immune response	8/292	70/	2.64	6.67	
	381		233	E-	E-	8
			28	06	06	
BP	GO: regulation of muscle system process	14/292	244	2.70	6.82	1
	257		/23	E-	E-	4
			328	06	06	
BP	GO: negative regulation of epithelial cell proliferation	11/292	148	2.74	6.91	1
	680		/23	E-	E-	1
			328	06	06	
BP	GO: regulation of blood vessel endothelial cell migration	9/292	94/	2.80	7.04	
	535		233	E-	E-	9
			28	06	06	
BP	GO: regulation of cellular response to growth factor stimulus	15/292	281	2.90	7.29	1
	287		/23	E-	E-	5
			328	06	06	
BP	GO: receptor metabolic process	13/292	212	2.97	7.45	1
	112		/23	E-	E-	3
			328	06	06	

	GO:		212	2.97	7.45	
BP	0071 response to transforming growth factor beta	13/292	/23	E-	E-	1
	559		328	06	06	3
	GO: positive regulation of myeloid leukocyte		19/	2.99	7.49	
BP	0061 cytokine production involved in immune	5/292	233	E-	E-	5
	081 response		28	06	06	
	GO:		121	3.01	7.54	
BP	0015 amine transport	10/292	/23	E-	E-	1
	837		328	06	06	0
	GO: positive regulation of osteoclast		33/	3.05	7.59	
BP	0045 differentiation	6/292	233	E-	E-	6
	672		28	06	06	
	GO:		33/	3.05	7.59	
BP	0050 regulation of nitric-oxide synthase activity	6/292	233	E-	E-	6
	999		28	06	06	
	GO: negative regulation of epithelial cell		72/	3.27	8.15	
BP	0010 migration	8/292	233	E-	E-	8
	633		28	06	06	
	GO:		97/	3.64	9.03	
BP	0002 regulation of T cell mediated immunity	9/292	233	E-	E-	9
	709		28	06	06	
	GO:		34/	3.66	9.03	
BP	0002 response to dietary excess	6/292	233	E-	E-	6
	021		28	06	06	
	GO:		34/	3.66	9.03	
BP	0033 regulation of myeloid cell apoptotic process	6/292	233	E-	E-	6
	032		28	06	06	
	GO:		34/	3.66	9.03	
BP	0090 regulation of neutrophil chemotaxis	6/292	233	E-	E-	6
	022		28	06	06	
	GO:		34/	3.66	9.03	
BP	1904 cellular response to amyloid-beta	6/292	233	E-	E-	6
	646		28	06	06	
	GO: positive regulation of leukocyte apoptotic		34/	3.66	9.03	
BP	2000 process	6/292	233	E-	E-	6
	108		28	06	06	
	GO:		34/	3.66	9.03	
BP	2000 positive regulation of T cell migration	6/292	233	E-	E-	6
	406		28	06	06	
	GO:		52/	3.70	9.10	
BP	0048 autonomic nervous system development	7/292	233	E-	E-	7
	483		28	06	06	

	GO:		52/	3.70	9.10	
BP	0051 positive regulation of oxidoreductase activity	7/292	233	E-	E-	7
	353		28	06	06	
	GO:		52/	3.70	9.10	
BP	1904 negative regulation of epithelial cell apoptotic process	7/292	233	E-	E-	7
	036		28	06	06	
	GO:		124	3.76	9.23	
BP	0051 regulation of striated muscle cell differentiation	10/292	/23	E-	E-	1
	153		328	06	06	0
	GO:		364	3.88	9.50	
BP	1904 positive regulation of establishment of protein localization	17/292	/23	E-	E-	1
	951		328	06	06	7
	GO:		20/	3.95	9.61	
BP	0032 response to muramyl dipeptide	5/292	233	E-	E-	5
	495		28	06	06	
	GO:		20/	3.95	9.61	
BP	0033 negative regulation of myeloid cell apoptotic process	5/292	233	E-	E-	5
	033		28	06	06	
	GO:		20/	3.95	9.61	
BP	0045 regulation of macrophage differentiation	5/292	233	E-	E-	5
	649		28	06	06	
	GO:		20/	3.95	9.61	
BP	0060 positive regulation of glial cell proliferation	5/292	233	E-	E-	5
	252		28	06	06	
	GO:		20/	3.95	9.61	
BP	0070 response to cholesterol	5/292	233	E-	E-	5
	723		28	06	06	
	GO:		74/	4.03	9.80	
BP	1901 regulation of ERBB signaling pathway	8/292	233	E-	E-	8
	184		28	06	06	
	GO:		218	4.04	9.80	
BP	0043 regulation of symbiotic process	13/292	/23	E-	E-	1
	903		328	06	06	3
	GO:		53/	4.22	1.02	
BP	0044 regulation of digestive system process	7/292	233	E-	E-	7
	058		28	06	05	
	GO:		53/	4.22	1.02	
BP	0048 negative regulation of smooth muscle cell proliferation	7/292	233	E-	E-	7
	662		28	06	05	
	GO:		126	4.35	1.05	
BP	0001 liver development	10/292	/23	E-	E-	1
	889		328	06	05	0

	GO:		126	4.35	1.05				1
BP	0031	regulation of cell killing	10/292	/23	E-	E-			0
	341			328	06	05			
	GO:			35/	4.37	1.05			
BP	0032	regulation of interleukin-17 production	6/292	233	E-	E-			6
	660			28	06	05			
	GO:			35/	4.37	1.05			
BP	0060	regulation of syncytium formation by plasma membrane fusion	6/292	233	E-	E-			6
	142			28	06	05			
	GO:			75/	4.47	1.07			
BP	0097	positive regulation of blood vessel diameter	8/292	233	E-	E-			8
	755			28	06	05			
	GO:			330	4.66	1.12			1
BP	0002	immune response-activating cell surface receptor signaling pathway	16/292	/23	E-	E-			6
	429			328	06	05			
	GO:			54/	4.80	1.15			
BP	0014	glial cell proliferation	7/292	233	E-	E-			7
	009			28	06	05			
	GO:			54/	4.80	1.15			
BP	0035	exocrine system development	7/292	233	E-	E-			7
	272			28	06	05			
	GO:			331	4.85	1.16			1
BP	0002	immune response-activating signal transduction	16/292	/23	E-	E-			6
	757			328	06	05			
	GO:			222	4.93	1.18			1
BP	0030	lung development	13/292	/23	E-	E-			3
	324			328	06	05			
	GO:			21/	5.13	1.22			
BP	0043	positive regulation of vascular permeability	5/292	233	E-	E-			5
	117			28	06	05			
	GO:			21/	5.13	1.22			
BP	0070	positive regulation of lymphocyte apoptotic process	5/292	233	E-	E-			5
	230			28	06	05			
	GO:			36/	5.19	1.23			
BP	0002	negative regulation of production of molecular mediator of immune response	6/292	233	E-	E-			6
	701			28	06	05			
	GO:			36/	5.19	1.23			
BP	0003	axis elongation	6/292	233	E-	E-			6
	401			28	06	05			
	GO:			36/	5.19	1.23			
BP	0042	defense response to protozoan	6/292	233	E-	E-			6
	832			28	06	05			

	GO:		36/	5.19	1.23	
BP	2000	positive regulation of CD4-positive, alpha-beta T cell activation	6/292	233	E-	E- 6
	516			28	06	05
	GO:			129	5.37	1.27
BP	0061	hepaticobiliary system development	10/292	/23	E-	E- 1
	008			328	06	05 0
	GO:			102	5.52	1.31
BP	0045	positive regulation of T cell differentiation	9/292	/23	E-	E- 9
	582			328	06	05
	GO:			225	5.70	1.35
BP	0030	respiratory tube development	13/292	/23	E-	E- 1
	323			328	06	05 3
	GO:			416	5.81	1.37
BP	0002	activation of immune response	18/292	/23	E-	E- 1
	253			328	06	05 8
	GO:			103	5.99	1.41
BP	0007	epidermal growth factor receptor signaling pathway	9/292	/23	E-	E- 9
	173			328	06	05
	GO:			103	5.99	1.41
BP	0010	positive regulation of endothelial cell migration	9/292	/23	E-	E- 9
	595			328	06	05
	GO:			37/	6.13	1.44
BP	0007	salivary gland morphogenesis	6/292	233	E-	E- 6
	435			28	06	05
	GO:			104	6.48	1.52
BP	0001	ureteric bud development	9/292	/23	E-	E- 9
	657			328	06	05
	GO:			104	6.48	1.52
BP	0072	mesonephric epithelium development	9/292	/23	E-	E- 9
	163			328	06	05
	GO:			104	6.48	1.52
BP	0072	mesonephric tubule development	9/292	/23	E-	E- 9
	164			328	06	05
	GO:			22/	6.57	1.53
BP	0044	hair cycle phase	5/292	233	E-	E- 5
	851			28	06	05
	GO:			162	6.57	1.53
BP	0006	amino acid transport	11/292	/23	E-	E- 1
	865			328	06	05 1
	GO:			79/	6.62	1.54
BP	0051	regulation of release of sequestered calcium ion into cytosol	8/292	233	E-	E- 8
	279			28	06	05

	GO:		463	6.81	1.59	
BP	0009 positive regulation of catabolic process	19/292	/23	E-	E-	1
	896		328	06	05	9
	GO:		421	6.84	1.59	
BP	0052 regulation of peptidase activity	18/292	/23	E-	E-	1
	547		328	06	05	8
	GO:		195	6.90	1.60	
BP	0006 regulation of carbohydrate metabolic process	12/292	/23	E-	E-	1
	109		328	06	05	2
	GO:		57/	6.94	1.61	
BP	0033 regulation of mast cell activation	7/292	233	E-	E-	7
	003		28	06	05	
	GO:		57/	6.94	1.61	
BP	0043 positive regulation of blood vessel endothelial cell migration	7/292	233	E-	E-	7
	536		28	06	05	
	GO:		57/	6.94	1.61	
BP	0045 T cell selection	7/292	233	E-	E-	7
	058		28	06	05	
	GO:		302	6.95	1.61	
BP	0030 extracellular matrix organization	15/292	/23	E-	E-	1
	198		328	06	05	5
	GO:		163	6.97	1.61	
BP	1903 regulation of calcium ion transmembrane transport	11/292	/23	E-	E-	1
	169		328	06	05	1
	GO:		38/	7.20	1.66	
BP	0002 regulation of inflammatory response to antigenic stimulus	6/292	233	E-	E-	6
	861		28	06	05	
	GO:		38/	7.20	1.66	
BP	0090 regulation of superoxide metabolic process	6/292	233	E-	E-	6
	322		28	06	05	
	GO:		303	7.23	1.66	
BP	0043 extracellular structure organization	15/292	/23	E-	E-	1
	062		328	06	05	5
	GO:		164	7.39	1.69	
BP	0051 negative regulation of protein transport	11/292	/23	E-	E-	1
	224		328	06	05	1
	GO:		11/	7.41	1.69	
BP	0002 regulation of T cell tolerance induction	4/292	233	E-	E-	4
	664		28	06	05	
	GO:		11/	7.41	1.69	
BP	0002 regulation of chronic inflammatory response	4/292	233	E-	E-	4
	676		28	06	05	

	GO:			11/	7.41	1.69	
BP	0034	negative regulation of heterotypic cell-cell adhesion	4/292	233	E-	E-	4
	115			28	06	05	
	GO:			11/	7.41	1.69	
BP	0060	regulation of branching involved in salivary gland morphogenesis	4/292	233	E-	E-	4
	693			28	06	05	
	GO:			11/	7.41	1.69	
BP	0070	regulation of cell-cell adhesion involved in gastrulation	4/292	233	E-	E-	4
	587			28	06	05	
	GO:			134	7.53	1.72	1
BP	0045	regulation of embryonic development	10/292	/23	E-	E-	0
	995			328	06	05	
	GO:			58/	7.80	1.78	
BP	0010	fibroblast migration	7/292	233	E-	E-	7
	761			28	06	05	
	GO:			58/	7.80	1.78	
BP	0048	inositol phosphate-mediated signaling	7/292	233	E-	E-	7
	016			28	06	05	
	GO:			232	7.94	1.80	1
BP	0032	regulation of stress-activated MAPK cascade	13/292	/23	E-	E-	3
	872			328	06	05	
	GO:			198	8.06	1.83	1
BP	0030	positive regulation of cell growth	12/292	/23	E-	E-	2
	307			328	06	05	
	GO:			107	8.19	1.85	
BP	0001	mesonephros development	9/292	/23	E-	E-	9
	823			328	06	05	
	GO:			107	8.19	1.85	
BP	0050	negative regulation of protein secretion	9/292	/23	E-	E-	9
	709			328	06	05	
	GO:			23/	8.30	1.87	
BP	0010	regulation of macrophage derived foam cell differentiation	5/292	233	E-	E-	5
	743			28	06	05	
	GO:			23/	8.30	1.87	
BP	0032	positive regulation of interferon-alpha production	5/292	233	E-	E-	5
	727			28	06	05	
	GO:			23/	8.30	1.87	
BP	0032	positive regulation of superoxide anion generation	5/292	233	E-	E-	5
	930			28	06	05	
	GO:			23/	8.30	1.87	
BP	0051	regulation of transmission of nerve impulse	5/292	233	E-	E-	5
	969			28	06	05	

	GO:		39/	8.42	1.89	
BP	0042 superoxide anion generation	6/292	233	E-	E-	6
	554		28	06	05	
	GO:		39/	8.42	1.89	
BP	0050 positive regulation of cytokine secretion	6/292	233	E-	E-	6
	715		28	06	05	
	GO:		470	8.42	1.89	
BP	0060 muscle tissue development	19/292	/23	E-	E-	1
	537		328	06	05	9
	GO:		199	8.48	1.90	
BP	0050 positive regulation of protein secretion	12/292	/23	E-	E-	1
	714		328	06	05	2
	GO:		270	8.66	1.94	
BP	0050 regulation of B cell activation	14/292	/23	E-	E-	1
	864		328	06	05	4
	GO:		82/	8.75	1.96	
BP	0032 regulation of type I interferon production	8/292	233	E-	E-	8
	479		28	06	05	
	GO:		108	8.83	1.97	
BP	0043 regulation of carbohydrate biosynthetic process	9/292	/23	E-	E-	9
	255		328	06	05	
	GO:		235	9.12	2.03	
BP	0032 response to insulin	13/292	/23	E-	E-	1
	868		328	06	05	3
	GO:		235	9.12	2.03	
BP	0070 regulation of stress-activated protein kinase signaling cascade	13/292	/23	E-	E-	1
	302		328	06	05	3
	GO:		309	9.13	2.03	
BP	0008 steroid metabolic process	15/292	/23	E-	E-	1
	202		328	06	05	5
	GO:		309	9.13	2.03	
BP	0016 viral process	15/292	/23	E-	E-	1
	032		328	06	05	5
	GO:		390	9.60	2.13	
BP	0051 regulation of binding	17/292	/23	E-	E-	1
	098		328	06	05	7
	GO:		40/	9.81	2.16	
BP	0001 response to protozoan	6/292	233	E-	E-	6
	562		28	06	05	
	GO:		40/	9.81	2.16	
BP	0043 regulation of phosphatidylinositol 3-kinase activity	6/292	233	E-	E-	6
	551		28	06	05	

	GO:		40/	9.81	2.16	
BP	1904 response to amyloid-beta	6/292	233	E-	E-	6
	645		28	06	05	
	GO:		60/	9.81	2.16	
BP	0010 positive regulation of calcium ion transport	7/292	233	E-	E-	7
	524 into cytosol		28	06	05	
	GO:		60/	9.81	2.16	
BP	0090 positive regulation of wound healing	7/292	233	E-	E-	7
	303		28	06	05	
	GO:		169	9.83	2.16	1
BP	0007 transforming growth factor beta receptor	11/292	/23	E-	E-	1
	179 signaling pathway		328	06	05	
	GO:		169	9.83	2.16	1
BP	1904 negative regulation of establishment of	11/292	/23	E-	E-	1
	950 protein localization		328	06	05	
	GO:		202	9.87	2.17	1
BP	0000 response to reactive oxygen species	12/292	/23	E-	E-	2
	302		328	06	05	
	GO:		110	1.03	2.25	
BP	0022 digestive system process	9/292	/23	E-	E-	9
	600		328	05	05	
	GO:		139	1.04	2.28	1
BP	0010 regulation of cellular ketone metabolic	10/292	/23	E-	E-	0
	565 process		328	05	05	
	GO:		139	1.04	2.28	1
BP	1900 regulation of protein localization to nucleus	10/292	/23	E-	E-	0
	180		328	05	05	
	GO:		12/	1.10	2.40	
BP	0001 response to yeast	4/292	233	E-	E-	4
	878		28	05	05	
	GO:		12/	1.10	2.40	
BP	0051 positive regulation of hair follicle	4/292	233	E-	E-	4
	798 development		28	05	05	
	GO:		12/	1.10	2.40	
BP	0070 cell-cell adhesion involved in gastrulation	4/292	233	E-	E-	4
	586		28	05	05	
	GO:		111	1.10	2.41	
BP	0008 intrinsic apoptotic signaling pathway in	9/292	/23	E-	E-	9
	630 response to DNA damage		328	05	05	
	GO:		41/	1.14	2.47	
BP	0007 salivary gland development	6/292	233	E-	E-	6
	431		28	05	05	

	GO:		41/	1.14	2.47	
BP	0010 regulation of gastrulation	6/292	233	E-	E-	6
	470		28	05	05	
	GO:		41/	1.14	2.47	
BP	0030 macrophage differentiation	6/292	233	E-	E-	6
	225		28	05	05	
	GO:		112	1.19	2.58	
BP	0038 ERBB signaling pathway	9/292	/23	E-	E-	9
	127		328	05	05	
	GO:		62/	1.22	2.65	
BP	0051 negative regulation of muscle cell differentiation	7/292	233	E-	E-	7
	148		28	05	05	
	GO:		62/	1.22	2.65	
BP	0060 regulation of pathway-restricted SMAD protein phosphorylation	7/292	233	E-	E-	7
	393		28	05	05	
	GO:		86/	1.25	2.70	
BP	0032 type I interferon production	8/292	233	E-	E-	8
	606		28	05	05	
	GO:		207	1.26	2.73	
BP	0030 intracellular receptor signaling pathway	12/292	/23	E-	E-	1
	522		328	05	05	2
	GO:		25/	1.28	2.77	
BP	0035 regulation of renal sodium excretion	5/292	233	E-	E-	5
	813		28	05	05	
	GO:		25/	1.28	2.77	
BP	1901 regulation of myoblast fusion	5/292	233	E-	E-	5
	739		28	05	05	
	GO:		358	1.29	2.78	
BP	0006 phagocytosis	16/292	/23	E-	E-	1
	909		328	05	05	6
	GO:		42/	1.31	2.82	
BP	0010 specification of animal organ identity	6/292	233	E-	E-	6
	092		28	05	05	
	GO:		42/	1.31	2.82	
BP	0010 regulation of fibroblast migration	6/292	233	E-	E-	6
	762		28	05	05	
	GO:		42/	1.31	2.82	
BP	0046 alpha-beta T cell proliferation	6/292	233	E-	E-	6
	633		28	05	05	
	GO:		63/	1.36	2.92	
BP	0010 regulation of myotube differentiation	7/292	233	E-	E-	7
	830		28	05	05	

	GO:		114	1.37	2.94	
BP	0042 B cell proliferation	9/292	/23	E-	E-	9
	100		328	05	05	
	GO:		282	1.41	3.02	1
BP	0070 calcium ion transmembrane transport	14/292	/23	E-	E-	4
	588		328	05	05	
	GO:		144	1.42	3.03	1
BP	0001 epithelial to mesenchymal transition	10/292	/23	E-	E-	0
	837		328	05	05	
	GO:		43/	1.51	3.22	
BP	0002 cytoplasmic pattern recognition receptor signaling pathway	6/292	233	E-	E-	6
	753		28	05	05	
	GO:		43/	1.51	3.22	
BP	0042 regulation of fatty acid biosynthetic process	6/292	233	E-	E-	6
	304		28	05	05	
	GO:		447	1.54	3.27	1
BP	0014 striated muscle tissue development	18/292	/23	E-	E-	8
	706		328	05	05	
	GO:		13/	1.57	3.32	
BP	0042 positive regulation of odontogenesis	4/292	233	E-	E-	4
	482		28	05	05	
	GO:		13/	1.57	3.32	
BP	0042 positive regulation of hair cycle	4/292	233	E-	E-	4
	635		28	05	05	
	GO:		26/	1.57	3.32	
BP	0010 positive regulation of vascular endothelial growth factor production	5/292	233	E-	E-	5
	575		28	05	05	
	GO:		26/	1.57	3.32	
BP	0032 receptor biosynthetic process	5/292	233	E-	E-	5
	800		28	05	05	
	GO:		26/	1.57	3.32	
BP	0032 regulation of superoxide anion generation	5/292	233	E-	E-	5
	928		28	05	05	
	GO:		26/	1.57	3.32	
BP	0034 negative regulation of tissue remodeling	5/292	233	E-	E-	5
	104		28	05	05	
	GO:		26/	1.57	3.32	
BP	0035 steroid hormone secretion	5/292	233	E-	E-	5
	929		28	05	05	
	GO:		89/	1.61	3.39	
BP	0051 positive regulation of muscle cell differentiation	8/292	233	E-	E-	8
	149		28	05	05	

	GO:		65/	1.68	3.53	
BP	0034	regulation of toll-like receptor signaling pathway	7/292	233	E-	E- 7
	121			28	05	05
	GO:			213	1.68	3.53
BP	0051	maintenance of location in cell	12/292	/23	E-	E- 1
	651			328	05	05 2
	GO:			147	1.70	3.57
BP	0003	cardiac ventricle development	10/292	/23	E-	E- 1
	231			328	05	05 0
	GO:			147	1.70	3.57
BP	0045	regulation of osteoblast differentiation	10/292	/23	E-	E- 1
	667			328	05	05 0
	GO:			287	1.72	3.61
BP	0070	response to oxygen levels	14/292	/23	E-	E- 1
	482			328	05	05 4
	GO:			44/	1.73	3.62
BP	1903	negative regulation of blood circulation	6/292	233	E-	E- 6
	523			28	05	05
	GO:			327	1.78	3.73
BP	0021	developmental maturation	15/292	/23	E-	E- 1
	700			328	05	05 5
	GO:			118	1.81	3.78
BP	2000	regulation of neural precursor cell proliferation	9/292	/23	E-	E- 9
	177			328	05	05
	GO:			410	1.83	3.82
BP	0032	regulation of actin filament-based process	17/292	/23	E-	E- 1
	970			328	05	05 7
	GO:			215	1.84	3.84
BP	0048	inner ear development	12/292	/23	E-	E- 1
	839			328	05	05 2
	GO:			91/	1.89	3.94
BP	0042	cholesterol homeostasis	8/292	233	E-	E- 8
	632			28	05	05
	GO:			91/	1.89	3.94
BP	0072	regulation of stem cell proliferation	8/292	233	E-	E- 8
	091			28	05	05
	GO:			27/	1.91	3.95
BP	0014	phasic smooth muscle contraction	5/292	233	E-	E- 5
	821			28	05	05
	GO:			27/	1.91	3.95
BP	0014	vascular associated smooth muscle contraction	5/292	233	E-	E- 5
	829			28	05	05

	GO:		27/	1.91	3.95	
BP	0032	positive regulation of monooxygenase activity	5/292	233	E-	E- 5
	770			28	05	05
	GO:		27/	1.91	3.95	
BP	0035	renal sodium excretion	5/292	233	E-	E- 5
	812			28	05	05
	GO:		27/	1.91	3.95	
BP	0060	labyrinthine layer morphogenesis	5/292	233	E-	E- 5
	713			28	05	05
	GO:		149	1.91	3.95	1
BP	0007	memory	10/292	/23	E-	E- 0
	613			328	05	05
	GO:		45/	1.97	4.06	
BP	0001	negative regulation of endothelial cell proliferation	6/292	233	E-	E- 6
	937			28	05	05
	GO:		45/	1.97	4.06	
BP	0003	regulation of animal organ formation	6/292	233	E-	E- 6
	156			28	05	05
	GO:		45/	1.97	4.06	
BP	0031	developmental induction	6/292	233	E-	E- 6
	128			28	05	05
	GO:		45/	1.97	4.06	
BP	0061	leukocyte adhesion to vascular endothelial cell	6/292	233	E-	E- 6
	756			28	05	05
	GO:		45/	1.97	4.06	
BP	0090	positive regulation of kidney development	6/292	233	E-	E- 6
	184			28	05	05
	GO:		92/	2.05	4.21	
BP	0055	sterol homeostasis	8/292	233	E-	E- 8
	092			28	05	05
	GO:		120	2.07	4.25	
BP	0030	bone mineralization	9/292	/23	E-	E- 9
	282			328	05	05
	GO:		254	2.08	4.26	1
BP	0060	respiratory system development	13/292	/23	E-	E- 3
	541			328	05	05
	GO:		292	2.08	4.26	1
BP	0045	cell fate commitment	14/292	/23	E-	E- 4
	165			328	05	05
	GO:		151	2.15	4.39	1
BP	0008	carbohydrate transport	10/292	/23	E-	E- 0
	643			328	05	05

	GO:			14/	2.18	4.45	
BP	0045	positive regulation of macrophage differentiation	4/292	233	E-	E-	4
	651			28	05	05	
	GO:			14/	2.18	4.45	
BP	1905	regulation of vascular associated smooth muscle cell differentiation	4/292	233	E-	E-	4
	063			28	05	05	
	GO:			184	2.18	4.45	
BP	2001	positive regulation of apoptotic signaling pathway	11/292	/23	E-	E-	1
	235			328	05	05	1
	GO:			46/	2.25	4.57	
BP	0061	positive regulation of protein tyrosine kinase activity	6/292	233	E-	E-	6
	098			28	05	05	
	GO:			68/	2.26	4.59	
BP	0046	regulation of glucose import	7/292	233	E-	E-	7
	324			28	05	05	
	GO:			68/	2.26	4.59	
BP	0046	positive regulation of alpha-beta T cell activation	7/292	233	E-	E-	7
	635			28	05	05	
	GO:			68/	2.26	4.59	
BP	0046	regulation of alpha-beta T cell differentiation	7/292	233	E-	E-	7
	637			28	05	05	
	GO:			28/	2.30	4.65	
BP	0032	regulation of interferon-alpha production	5/292	233	E-	E-	5
	647			28	05	05	
	GO:			28/	2.30	4.65	
BP	0048	hair follicle maturation	5/292	233	E-	E-	5
	820			28	05	05	
	GO:			28/	2.30	4.65	
BP	0090	regulation of monocyte chemotaxis	5/292	233	E-	E-	5
	025			28	05	05	
	GO:			28/	2.30	4.65	
BP	2000	negative regulation of neural precursor cell proliferation	5/292	233	E-	E-	5
	178			28	05	05	
	GO:			257	2.35	4.75	
BP	0002	epithelial cell development	13/292	/23	E-	E-	1
	064			328	05	05	3
	GO:			122	2.37	4.76	
BP	0003	endothelium development	9/292	/23	E-	E-	9
	158			328	05	05	
	GO:			122	2.37	4.76	
BP	0050	negative regulation of T cell activation	9/292	/23	E-	E-	9
	868			328	05	05	

	GO:		94/	2.40	4.83	
BP	0009 response to heat	8/292	233	E-	E-	8
	408		28	05	05	
	GO:		69/	2.49	4.99	
BP	0006 superoxide metabolic process	7/292	233	E-	E-	7
	801		28	05	05	
	GO:		69/	2.49	4.99	
BP	0033 cell adhesion mediated by integrin	7/292	233	E-	E-	7
	627		28	05	05	
	GO:		378	2.51	5.03	1
BP	0009 response to extracellular stimulus	16/292	/23	E-	E-	6
	991		328	05	05	
	GO:		47/	2.55	5.10	
BP	0043 positive regulation of multi-organism process	6/292	233	E-	E-	6
	902		28	05	05	
	GO:		70/	2.74	5.47	
BP	0007 neuroblast proliferation	7/292	233	E-	E-	7
	405		28	05	05	
	GO:		29/	2.76	5.49	
BP	0001 prostaglandin biosynthetic process	5/292	233	E-	E-	5
	516		28	05	05	
	GO:		29/	2.76	5.49	
BP	0007 regulation of epidermal growth factor-activated receptor activity	5/292	233	E-	E-	5
	176		28	05	05	
	GO:		29/	2.76	5.49	
BP	0035 response to nicotine	5/292	233	E-	E-	5
	094		28	05	05	
	GO:		29/	2.76	5.49	
BP	0046 prostanoid biosynthetic process	5/292	233	E-	E-	5
	457		28	05	05	
	GO:		48/	2.88	5.73	
BP	0044 biological phase	6/292	233	E-	E-	6
	848		28	05	05	
	GO:		425	2.88	5.73	1
BP	0001 negative regulation of protein phosphorylation	17/292	/23	E-	E-	7
	933		328	05	05	
	GO:		190	2.94	5.82	1
BP	0050 regulation of insulin secretion	11/292	/23	E-	E-	1
	796		328	05	05	
	GO:		15/	2.94	5.82	
BP	0010 regulation of macrophage cytokine production	4/292	233	E-	E-	4
	935		28	05	05	

	GO:		15/	2.94	5.82	
BP	0070	positive regulation of T cell apoptotic process	4/292	233	E-	E- 4
	234			28	05	05
	GO:		15/	2.94	5.82	
BP	1903	negative regulation of production of miRNAs involved in gene silencing by miRNA	4/292	233	E-	E- 4
	799			28	05	05
	GO:		71/	3.00	5.94	
BP	0061	regulation of cartilage development	7/292	233	E-	E- 7
	035			28	05	05
	GO:		97/	3.02	5.94	
BP	0001	vasculogenesis	8/292	233	E-	E- 8
	570			28	05	05
	GO:		97/	3.02	5.94	
BP	0002	regulation of heart rate	8/292	233	E-	E- 8
	027			28	05	05
	GO:		97/	3.02	5.94	
BP	0019	regulation of fatty acid metabolic process	8/292	233	E-	E- 8
	217			28	05	05
	GO:		471	3.06	6.03	
BP	0042	negative regulation of phosphorylation	18/292	/23	E-	E- 1
	326			328	05	05 8
	GO:		344	3.20	6.29	
BP	0045	positive regulation of proteolysis	15/292	/23	E-	E- 1
	862			328	05	05 5
	GO:		49/	3.25	6.38	
BP	0043	regulation of lipid kinase activity	6/292	233	E-	E- 6
	550			28	05	05
	GO:		98/	3.25	6.38	
BP	0030	negative regulation of ossification	8/292	233	E-	E- 8
	279			28	05	05
	GO:		30/	3.27	6.39	
BP	0032	interferon-alpha production	5/292	233	E-	E- 5
	607			28	05	05
	GO:		30/	3.27	6.39	
BP	0035	endothelial cell chemotaxis	5/292	233	E-	E- 5
	767			28	05	05
	GO:		30/	3.27	6.39	
BP	0043	positive regulation of phosphatidylinositol 3-kinase activity	5/292	233	E-	E- 5
	552			28	05	05
	GO:		30/	3.27	6.39	
BP	0072	T-helper 17 cell differentiation	5/292	233	E-	E- 5
	539			28	05	05

	GO:		72/	3.29	6.42		
BP	0045 cellular extravasation	7/292	233	E-	E-	7	
	123		28	05	05		
	GO:		128	3.46	6.75		
BP	0010 regulation of glucose metabolic process	9/292	/23	E-	E-	9	
	906		328	05	05		
	GO:		73/	3.60	7.01		
BP	0051 positive regulation of striated muscle cell differentiation	7/292	233	E-	E-	7	
	155		28	05	05		
	GO:		50/	3.66	7.11		
BP	0043 regulation of CD4-positive, alpha-beta T cell differentiation	6/292	233	E-	E-	6	
	370		28	05	05		
	GO:		31/	3.86	7.48		
BP	0002 positive regulation of defense response to virus by host	5/292	233	E-	E-	5	
	230		28	05	05		
	GO:		31/	3.86	7.48		
BP	0042 regulation of odontogenesis	5/292	233	E-	E-	5	
	481		28	05	05		
	GO:		31/	3.86	7.48		
BP	0072 hepatocyte proliferation	5/292	233	E-	E-	5	
	574		28	05	05		
	GO:		31/	3.86	7.48		
BP	0072 epithelial cell proliferation involved in liver morphogenesis	5/292	233	E-	E-	5	
	575		28	05	05		
	GO:		16/	3.89	7.51		
BP	0002 germinal center formation	4/292	233	E-	E-	4	
	467		28	05	05		
	GO:		16/	3.89	7.51		
BP	0051 negative regulation of smooth muscle cell differentiation	4/292	233	E-	E-	4	
	151		28	05	05		
	GO:		196	3.91	7.54		1
BP	0072 monocarboxylic acid biosynthetic process	11/292	/23	E-	E-	1	
	330		328	05	05		
	GO:		162	3.93	7.56		1
BP	0010 regulation of cellular carbohydrate metabolic process	10/292	/23	E-	E-	0	
	675		328	05	05		
	GO:		162	3.93	7.56		1
BP	0031 biomineral tissue development	10/292	/23	E-	E-	0	
	214		328	05	05		
	GO:		162	3.93	7.56		1
BP	0110 biomineralization	10/292	/23	E-	E-	0	
	148		328	05	05		

	GO:		101	4.04	7.77	
BP	0033 multicellular organismal response to stress	8/292	/23	E-	E-	8
	555		328	05	05	
	GO:		75/	4.30	8.23	
BP	0042 regulation of protein import into nucleus	7/292	233	E-	E-	7
	306		28	05	05	
	GO:		75/	4.30	8.23	
BP	0048 animal organ formation	7/292	233	E-	E-	7
	645		28	05	05	
	GO:		75/	4.30	8.23	
BP	0051 positive regulation of small GTPase mediated signal transduction	7/292	233	E-	E-	7
	057		28	05	05	
	GO:		75/	4.30	8.23	
BP	1903 regulation of sprouting angiogenesis	7/292	233	E-	E-	7
	670		28	05	05	
	GO:		396	4.39	8.40	
BP	0031 positive regulation of cellular catabolic process	16/292	/23	E-	E-	1
	331		328	05	05	6
	GO:		32/	4.53	8.62	
BP	0031 negative regulation of nervous system process	5/292	233	E-	E-	5
	645		28	05	05	
	GO:		32/	4.53	8.62	
BP	0045 positive regulation of isotype switching	5/292	233	E-	E-	5
	830		28	05	05	
	GO:		32/	4.53	8.62	
BP	0060 apoptotic process involved in morphogenesis	5/292	233	E-	E-	5
	561		28	05	05	
	GO:		32/	4.53	8.62	
BP	0060 embryonic placenta morphogenesis	5/292	233	E-	E-	5
	669		28	05	05	
	GO:		32/	4.53	8.62	
BP	2000 negative regulation of endothelial cell apoptotic process	5/292	233	E-	E-	5
	352		28	05	05	
	GO:		52/	4.59	8.70	
BP	0001 blood vessel remodeling	6/292	233	E-	E-	6
	974		28	05	05	
	GO:		52/	4.59	8.70	
BP	0042 positive regulation of protein import into nucleus	6/292	233	E-	E-	6
	307		28	05	05	
	GO:		52/	4.59	8.70	
BP	0043 positive regulation of potassium ion transport	6/292	233	E-	E-	6
	268		28	05	05	

	GO:		165	4.59	8.70	
BP	0006 protein import into nucleus	10/292	/23	E-	E-	1
	606		328	05	05	0
	GO:		103	4.65	8.81	
BP	0050 positive regulation of axonogenesis	8/292	/23	E-	E-	8
	772		328	05	05	
	GO:		76/	4.68	8.84	
BP	0008 fibroblast growth factor receptor signaling pathway	7/292	233	E-	E-	7
	543		28	05	05	
	GO:		76/	4.68	8.84	
BP	0045 mast cell activation	7/292	233	E-	E-	7
	576		28	05	05	
	GO:		76/	4.68	8.84	
BP	0045 regulation of osteoclast differentiation	7/292	233	E-	E-	7
	670		28	05	05	
	GO:		275	4.74	8.94	
BP	0043 skin development	13/292	/23	E-	E-	1
	588		328	05	05	3
	GO:		201	4.91	9.25	
BP	0032 cellular response to insulin stimulus	11/292	/23	E-	E-	1
	869		328	05	05	1
	GO:		134	4.97	9.34	
BP	1903 negative regulation of leukocyte cell-cell adhesion	9/292	/23	E-	E-	9
	038		328	05	05	
	GO:		104	4.99	9.37	
BP	0048 negative regulation of viral process	8/292	/23	E-	E-	8
	525		328	05	05	
	GO:		17/	5.03	9.43	
BP	0010 macrophage cytokine production	4/292	233	E-	E-	4
	934		28	05	05	
	GO:		17/	5.03	9.43	
BP	0032 response to progesterone	4/292	233	E-	E-	4
	570		28	05	05	
	GO:		17/	5.03	9.43	
BP	0035 cellular response to hepatocyte growth factor stimulus	4/292	233	E-	E-	4
	729		28	05	05	
	GO:		77/	5.10	9.54	
BP	0043 positive regulation of JUN kinase activity	7/292	233	E-	E-	7
	507		28	05	05	
	GO:		53/	5.12	9.56	
BP	0006 regulation of gluconeogenesis	6/292	233	E-	E-	6
	111		28	05	05	

	GO:		53/	5.12	9.56	
BP	0030 prostate gland development	6/292	233	E-	E-	6
	850		28	05	05	
	GO:		33/	5.29	9.85	
BP	0072 liver morphogenesis	5/292	233	E-	E-	5
	576		28	05	05	
	GO:		33/	5.29	9.85	
BP	1901 negative regulation of signal transduction in absence of ligand	5/292	233	E-	E-	5
	099		28	05	05	
	GO:		33/	5.29	9.85	
BP	2001 negative regulation of extrinsic apoptotic signaling pathway in absence of ligand	5/292	233	E-	E-	5
	240		28	05	05	
	GO:		105	5.34	9.94	
BP	0001 regulation of leukocyte mediated cytotoxicity	8/292	/23	E-	E-	8
	910		328	05	05	
	GO:		240	5.41	0.00	
BP	0006 receptor-mediated endocytosis	12/292	/23	E-	010	1
	898		328	05	057	2
	GO:		78/	5.54	0.00	
BP	0008 extrinsic apoptotic signaling pathway via death domain receptors	7/292	233	E-	010	7
	625		28	05	275	
	GO:		78/	5.54	0.00	
BP	0050 regulation of steroid biosynthetic process	7/292	233	E-	010	7
	810		28	05	275	
	GO:		361	5.55	0.00	
BP	0032 regulation of actin cytoskeleton organization	15/292	/23	E-	010	1
	956		328	05	275	5
	GO:		169	5.62	0.00	
BP	0051 import into nucleus	10/292	/23	E-	010	1
	170		328	05	404	0
	GO:		54/	5.70	0.00	
BP	0055 positive regulation of cardiac muscle tissue development	6/292	233	E-	010	6
	025		28	05	534	
	GO:		79/	6.01	0.00	
BP	0002 lymphocyte homeostasis	7/292	233	E-	011	7
	260		28	05	11	
	GO:		364	6.09	0.00	
BP	0006 lipid transport	15/292	/23	E-	011	1
	869		328	05	233	5
	GO:		34/	6.14	0.00	
BP	0032 positive regulation of interferon-beta production	5/292	233	E-	011	5
	728		28	05	277	

	GO:		34/	6.14	0.00	
BP	0043	negative regulation of blood vessel	5/292	233	E-	011 5
	537	endothelial cell migration		28	05	277
	GO:		34/	6.14	0.00	
BP	0062	detection of stimulus involved in sensory	5/292	233	E-	011 5
	149	perception of pain		28	05	277
	GO:		34/	6.14	0.00	
BP	0090	positive regulation of lipid kinase activity	5/292	233	E-	011 5
	218			28	05	277
	GO:		171	6.21	0.00	1
BP	0010	positive regulation of peptidase activity	10/292	/23	E-	011 0
	952			328	05	396
	GO:		55/	6.33	0.00	
BP	0002	cytokine production involved in inflammatory	6/292	233	E-	011 6
	534	response		28	05	584
	GO:		55/	6.33	0.00	
BP	0032	interferon-beta production	6/292	233	E-	011 6
	608			28	05	584
	GO:		55/	6.33	0.00	
BP	0032	positive regulation of organic acid transport	6/292	233	E-	011 6
	892			28	05	584
	GO:		18/	6.41	0.00	
BP	0036	cellular response to sterol	4/292	233	E-	011 4
	315			28	05	706
	GO:		18/	6.41	0.00	
BP	0042	protein refolding	4/292	233	E-	011 4
	026			28	05	706
	GO:		409	6.43	0.00	1
BP	0006	response to oxidative stress	16/292	/23	E-	011 6
	979			328	05	739
	GO:		108	6.53	0.00	
BP	0045	endothelial cell differentiation	8/292	/23	E-	011 8
	446			328	05	896
	GO:		108	6.53	0.00	
BP	0055	cardiac muscle tissue growth	8/292	/23	E-	011 8
	017			328	05	896
	GO:		246	6.86	0.00	1
BP	0043	ear development	12/292	/23	E-	012 2
	583			328	05	482
	GO:		140	6.98	0.00	
BP	0046	positive regulation of JNK cascade	9/292	/23	E-	012 9
	330			328	05	695

	GO:		56/	7.01	0.00	
BP	0007 mating	6/292	233	E-	012	6
	618		28	05	726	
	GO:		56/	7.01	0.00	
BP	0045 positive regulation of blood pressure	6/292	233	E-	012	6
	777		28	05	726	
	GO:		81/	7.06	0.00	
BP	0021 nerve development	7/292	233	E-	012	7
	675		28	05	731	
	GO:		81/	7.06	0.00	
BP	0043 positive regulation of neuron apoptotic process	7/292	233	E-	012	7
	525		28	05	731	
	GO:		81/	7.06	0.00	
BP	0045 regulation of epidermis development	7/292	233	E-	012	7
	682		28	05	731	
	GO:		81/	7.06	0.00	
BP	1904 regulation of protein import	7/292	233	E-	012	7
	589		28	05	731	
	GO:		35/	7.09	0.00	
BP	0001 myeloid dendritic cell activation	5/292	233	E-	012	5
	773		28	05	731	
	GO:		35/	7.09	0.00	
BP	0010 regulation of macrophage chemotaxis	5/292	233	E-	012	5
	758		28	05	731	
	GO:		35/	7.09	0.00	
BP	0014 glutamate secretion	5/292	233	E-	012	5
	047		28	05	731	
	GO:		35/	7.09	0.00	
BP	0072 T-helper 17 type immune response	5/292	233	E-	012	5
	538		28	05	731	
	GO:		35/	7.09	0.00	
BP	1990 response to nerve growth factor	5/292	233	E-	012	5
	089		28	05	731	
	GO:		35/	7.09	0.00	
BP	1990 cellular response to nerve growth factor stimulus	5/292	233	E-	012	5
	090		28	05	731	
	GO:		413	7.21	0.00	
BP	0010 lipid localization	16/292	/23	E-	012	1
	876		328	05	939	6
	GO:		141	7.38	0.00	
BP	0001 leukocyte mediated cytotoxicity	9/292	/23	E-	013	9
	909		328	05	232	

	GO:		175	7.53	0.00		1
BP	0007 learning	10/292	/23	E-	013		0
	612		328	05	496		
	GO:		211	7.61	0.00		1
BP	0042 cellular ketone metabolic process	11/292	/23	E-	013		1
	180		328	05	619		
	GO:		57/	7.76	0.00		
BP	0003 heart valve development	6/292	233	E-	013		6
	170		28	05	87		
	GO:		19/	8.04	0.00		
BP	0002 chronic inflammatory response	4/292	233	E-	014		4
	544		28	05	273		
	GO:		19/	8.04	0.00		
BP	0002 positive regulation of humoral immune response	4/292	233	E-	014		4
	922		28	05	273		
	GO:		19/	8.04	0.00		
BP	0010 programmed cell death involved in cell development	4/292	233	E-	014		4
	623		28	05	273		
	GO:		19/	8.04	0.00		
BP	0034 toll-like receptor 3 signaling pathway	4/292	233	E-	014		4
	138		28	05	273		
	GO:		19/	8.04	0.00		
BP	0035 response to hepatocyte growth factor	4/292	233	E-	014		4
	728		28	05	273		
	GO:		19/	8.04	0.00		
BP	0048 enteric nervous system development	4/292	233	E-	014		4
	484		28	05	273		
	GO:		19/	8.04	0.00		
BP	0060 negative regulation of gene silencing by miRNA	4/292	233	E-	014		4
	965		28	05	273		
	GO:		36/	8.14	0.00		
BP	0006 fat-soluble vitamin metabolic process	5/292	233	E-	014		5
	775		28	05	396		
	GO:		36/	8.14	0.00		
BP	0033 positive regulation of mast cell activation	5/292	233	E-	014		5
	005		28	05	396		
	GO:		36/	8.14	0.00		
BP	0035 vascular associated smooth muscle cell differentiation	5/292	233	E-	014		5
	886		28	05	396		
	GO:		36/	8.14	0.00		
BP	1904 positive regulation of vascular associated smooth muscle cell proliferation	5/292	233	E-	014		5
	707		28	05	396		

	GO:			36/	8.14	0.00	
BP	1905	positive regulation of cardiocyte differentiation	5/292	233	E-	014	5
	209			28	05	396	
	GO:			83/	8.26	0.00	
BP	0002	production of molecular mediator involved in inflammatory response	7/292	233	E-	014	7
	532			28	05	523	
	GO:			83/	8.26	0.00	
BP	0045	positive regulation of striated muscle tissue development	7/292	233	E-	014	7
	844			28	05	523	
	GO:			83/	8.26	0.00	
BP	0046	glucose import	7/292	233	E-	014	7
	323			28	05	523	
	GO:			83/	8.26	0.00	
BP	0048	positive regulation of muscle organ development	7/292	233	E-	014	7
	636			28	05	523	
	GO:			83/	8.26	0.00	
BP	1904	positive regulation of calcium ion transmembrane transport	7/292	233	E-	014	7
	427			28	05	523	
	GO:			418	8.29	0.00	
BP	0000	nuclear division	16/292	/23	E-	014	1
	280			328	05	577	6
	GO:			112	8.45	0.00	
BP	0030	contractile actin filament bundle assembly	8/292	/23	E-	014	8
	038			328	05	807	
	GO:			112	8.45	0.00	
BP	0043	stress fiber assembly	8/292	/23	E-	014	8
	149			328	05	807	
	GO:			112	8.45	0.00	
BP	0060	tube closure	8/292	/23	E-	014	8
	606			328	05	807	
	GO:			58/	8.56	0.00	
BP	0002	somatic recombination of immunoglobulin genes involved in immune response	6/292	233	E-	014	6
	204			28	05	934	
	GO:			58/	8.56	0.00	
BP	0002	somatic diversification of immunoglobulins involved in immune response	6/292	233	E-	014	6
	208			28	05	934	
	GO:			58/	8.56	0.00	
BP	0032	regulation of interleukin-2 production	6/292	233	E-	014	6
	663			28	05	934	
	GO:			58/	8.56	0.00	
BP	0045	isotype switching	6/292	233	E-	014	6
	190			28	05	934	

	GO:		58/	8.56	0.00	
BP	1904 positive regulation of protein import	6/292	233	E-	014	6
	591		28	05	934	
	GO:		333	8.65	0.00	1
BP	0046 carboxylic acid transport	14/292	/23	E-	015	4
	942		328	05	069	
	GO: negative regulation of cysteine-type		84/	8.91	0.00	
BP	0043 endopeptidase activity involved in apoptotic	7/292	233	E-	015	7
	154 process		28	05	498	
	GO: positive regulation of muscle tissue		84/	8.91	0.00	
BP	1901 development	7/292	233	E-	015	7
	863		28	05	498	
	GO:		293	9.02	0.00	1
BP	0034 protein localization to nucleus	13/292	/23	E-	015	3
	504		328	05	676	
	GO:		59/	9.43	0.00	
BP	0007 excretion	6/292	233	E-	016	6
	588		28	05	374	
	GO:		146	9.65	0.00	
BP	0045 regulation of fat cell differentiation	9/292	/23	E-	016	9
	598		328	05	738	
	GO:		217	9.77	0.00	1
BP	0051 positive regulation of DNA metabolic process	11/292	/23	E-	016	1
	054		328	05	928	
	GO:		337	9.81	0.00	1
BP	0015 organic acid transport	14/292	/23	E-	016	4
	849		328	05	981	
	GO:		20/	9.95	0.00	
BP	0032 prostaglandin secretion	4/292	233	E-	017	4
	310		28	05	17	
	GO: negative regulation of interleukin-12		20/	9.95	0.00	
BP	0032 production	4/292	233	E-	017	4
	695		28	05	17	
	GO:		20/	9.95	0.00	
BP	0044 response to leptin	4/292	233	E-	017	4
	321		28	05	17	
	GO:		181	9.97	0.00	1
BP	0048 regulation of muscle organ development	10/292	/23	E-	017	0
	634		328	05	196	
	GO:		147	0.00	0.00	
BP	0003 cardiac chamber morphogenesis	9/292	/23	010	017	9
	206		328	17	505	

	GO:		147	0.00	0.00	
BP	0035 endocrine system development	9/292	723	010	017	9
	270		328	17	505	
	GO:		86/	0.00	0.00	
BP	0031 positive regulation of nervous system	7/292	233	010	017	7
	646 process		28	349	781	
	GO:		86/	0.00	0.00	
BP	0060 cardiac septum morphogenesis	7/292	233	010	017	7
	411		28	349	781	
	GO:		60/	0.00	0.00	
BP	0090 regulation of kidney development	6/292	233	010	017	6
	183		28	371	786	
	GO:		60/	0.00	0.00	
BP	2001 positive regulation of extrinsic apoptotic	6/292	233	010	017	6
	238 signaling pathway		28	371	786	
	GO:		38/	0.00	0.00	
BP	0045 regulation of T-helper cell differentiation	5/292	233	010	018	5
	622		28	625	12	
	GO:		38/	0.00	0.00	
BP	0045 positive regulation of epidermis	5/292	233	010	018	5
	684 development		28	625	12	
	GO:		38/	0.00	0.00	
BP	0046 regulation of alpha-beta T cell proliferation	5/292	233	010	018	5
	640		28	625	12	
	GO:		38/	0.00	0.00	
BP	0048 response to pain	5/292	233	010	018	5
	265		28	625	12	
	GO:		38/	0.00	0.00	
BP	0097 dendritic cell differentiation	5/292	233	010	018	5
	028		28	625	12	
	GO:		38/	0.00	0.00	
BP	2000 regulation of actin cytoskeleton	5/292	233	010	018	5
	249 reorganization		28	625	12	
	GO:		258	0.00	0.00	
BP	0048 cardiac muscle tissue development	12/292	723	010	018	1
	738		328	778	365	2
	GO:		183	0.00	0.00	
BP	0016 morphogenesis of embryonic epithelium	10/292	723	010	018	1
	331		328	92	589	0
	GO:		220	0.00	0.00	
BP	0050 positive regulation of B cell activation	11/292	723	011	018	1
	871		328	034	766	1

	GO:		61/	0.00	0.00	
BP	0031 regulation of myelination	6/292	233	011	019	6
	641		28	383	324	
	GO:		61/	0.00	0.00	
BP	0045 negative regulation of blood pressure	6/292	233	011	019	6
	776		28	383	324	
	GO:		117	0.00	0.00	
BP	0032 positive regulation of ion transmembrane transporter activity	8/292	/23	011	019	8
	414		328	484	477	
	GO:		39/	0.00	0.00	
BP	0042 vasodilation	5/292	233	012	020	5
	311		28	064	422	
	GO:		39/	0.00	0.00	
BP	0060 regulation of glial cell proliferation	5/292	233	012	020	5
	251		28	064	422	
	GO:		21/	0.00	0.00	
BP	0001 nervous system process involved in regulation of systemic arterial blood pressure	4/292	233	012	020	4
	976		28	167	428	
	GO:		21/	0.00	0.00	
BP	0002 positive regulation of inflammatory response to antigenic stimulus	4/292	233	012	020	4
	863		28	167	428	
	GO:		21/	0.00	0.00	
BP	0007 activation of phospholipase C activity	4/292	233	012	020	4
	202		28	167	428	
	GO:		21/	0.00	0.00	
BP	0032 negative regulation of interleukin-10 production	4/292	233	012	020	4
	693		28	167	428	
	GO:		21/	0.00	0.00	
BP	0051 regulation of immunoglobulin secretion	4/292	233	012	020	4
	023		28	167	428	
	GO:		21/	0.00	0.00	
BP	0051 negative regulation of amino acid transport	4/292	233	012	020	4
	956		28	167	428	
	GO:		21/	0.00	0.00	
BP	0060 negative regulation of posttranscriptional gene silencing	4/292	233	012	020	4
	149		28	167	428	
	GO:		21/	0.00	0.00	
BP	0060 negative regulation of gene silencing by RNA	4/292	233	012	020	4
	967		28	167	428	
	GO:		21/	0.00	0.00	
BP	0090 positive regulation of monocyte chemotaxis	4/292	233	012	020	4
	026		28	167	428	

	GO:		118	0.00	0.00	
BP	0060 heart growth	8/292	/23	012	020	8
	419		328	187	444	
	GO:		62/	0.00	0.00	
BP	0031 neuron projection regeneration	6/292	233	012	020	6
	102		28	472	884	
	GO:		62/	0.00	0.00	
BP	0046 regulation of bone remodeling	6/292	233	012	020	6
	850		28	472	884	
	GO:		151	0.00	0.00	
BP	0050 defense response to Gram-positive bacterium	9/292	/23	012	020	9
	830		328	483	884	
	GO:		187	0.00	0.00	
BP	0002 myeloid cell homeostasis	10/292	/23	013	021	1
	262		328	047	808	0
	GO:		225	0.00	0.00	
BP	1901 organic hydroxy compound biosynthetic process	11/292	/23	013	022	1
	617		328	451	461	1
	GO:		63/	0.00	0.00	
BP	0016 somatic recombination of immunoglobulin gene segments	6/292	233	013	022	6
	447		28	641	76	
	GO:		265	0.00	0.00	
BP	0016 immunoglobulin mediated immune response	12/292	/23	013	023	1
	064		328	854	093	2
	GO:		393	0.00	0.00	
BP	0030 forebrain development	15/292	/23	014	023	1
	900		328	226	693	5
	GO:		154	0.00	0.00	
BP	0008 regulation of cell shape	9/292	/23	014	024	9
	360		328	494	107	
	GO:		121	0.00	0.00	
BP	0042 response to hydrogen peroxide	8/292	/23	014	024	8
	542		328	514	107	
	GO:		121	0.00	0.00	
BP	0050 defense response to Gram-negative bacterium	8/292	/23	014	024	8
	829		328	514	107	
	GO:		22/	0.00	0.00	
BP	0032 activation of protein kinase B activity	4/292	233	014	024	4
	148		28	724	281	
	GO:		22/	0.00	0.00	
BP	0042 cytokine metabolic process	4/292	233	014	024	4
	107		28	724	281	

	GO:		22/	0.00	0.00			
BP	0045	positive regulation of T-helper cell differentiation	4/292	233	014	024	4	
	624			28	724	281		
	GO:		22/	0.00	0.00			
BP	0046	positive regulation of alpha-beta T cell proliferation	4/292	233	014	024	4	
	641			28	724	281		
	GO:		22/	0.00	0.00			
BP	0060	mammary gland alveolus development	4/292	233	014	024	4	
	749			28	724	281		
	GO:		22/	0.00	0.00			
BP	0061	mammary gland lobule development	4/292	233	014	024	4	
	377			28	724	281		
	GO:		22/	0.00	0.00			
BP	1901	positive regulation of myoblast fusion	4/292	233	014	024	4	
	741			28	724	281		
	GO:		22/	0.00	0.00			
BP	1904	positive regulation of leukocyte adhesion to vascular endothelial cell	4/292	233	014	024	4	
	996			28	724	281		
	GO:		91/	0.00	0.00			
BP	0048	muscle organ morphogenesis	7/292	233	014	024	7	
	644			28	783	335		
	GO:		91/	0.00	0.00			
BP	2000	negative regulation of cysteine-type endopeptidase activity	7/292	233	014	024	7	
	117			28	783	335		
	GO:		155	0.00	0.00			
BP	0007	female gamete generation	9/292	/23	015	025	9	
	292			328	222	034		
	GO:		41/	0.00	0.00			
BP	0051	positive regulation of release of sequestered calcium ion into cytosol	5/292	233	015	025	5	
	281			28	384	258		
	GO:		268	0.00	0.00			
BP	0140	mitotic nuclear division	12/292	/23	015	025	1	
	014			328	385	258	2	
	GO:		269	0.00	0.00			
BP	0019	B cell mediated immunity	12/292	/23	015	026	1	
	724			328	927	124	2	
	GO:		156	0.00	0.00			
BP	0006	regulation of muscle contraction	9/292	/23	015	026	9	
	937			328	979	163		
	GO:		156	0.00	0.00			
BP	0030	regulation of epithelial cell differentiation	9/292	/23	015	026	9	
	856			328	979	163		

	GO:		231	0.00	0.00	1
BP	0019 hexose metabolic process	11/292	/23	016	027	1
	318		328	932	662	
	GO:		231	0.00	0.00	1
BP	0043 regulation of protein binding	11/292	/23	016	027	1
	393		328	932	662	
	GO:		93/	0.00	0.00	
BP	0043 regulation of JUN kinase activity	7/292	233	016	027	7
	506		28	94	662	
	GO:		124	0.00	0.00	
BP	0032 positive regulation of transporter activity	8/292	/23	017	028	8
	411		328	196	056	
	GO:		42/	0.00	0.00	
BP	0045 regulation of isotype switching	5/292	233	017	028	5
	191		28	286	178	
	GO:		194	0.00	0.00	
BP	0003 cardiac chamber development	10/292	/23	017	028	1
	205		328	613	669	0
	GO:		23/	0.00	0.00	
BP	0051 regulation of membrane protein ectodomain proteolysis	4/292	233	017	028	4
	043		28	649	669	
	GO:		23/	0.00	0.00	
BP	2000 regulation of hepatocyte proliferation	4/292	233	017	028	4
	345		28	649	669	
	GO:		23/	0.00	0.00	
BP	2000 regulation of steroid hormone secretion	4/292	233	017	028	4
	831		28	649	669	
	GO:		94/	0.00	0.00	
BP	0010 regulation of epithelial to mesenchymal transition	7/292	233	018	029	7
	717		28	11	391	
	GO: positive regulation of cysteine-type		125	0.00	0.00	
BP	0043 endopeptidase activity involved in apoptotic process	8/292	/23	018	029	8
	280		328	176	472	
	GO:		67/	0.00	0.00	
BP	0000 syncytium formation by plasma membrane fusion	6/292	233	019	031	6
	768		28	216	05	
	GO:		67/	0.00	0.00	
BP	0006 regulation of smooth muscle contraction	6/292	233	019	031	6
	940		28	216	05	
	GO:		67/	0.00	0.00	
BP	0033 tumor necrosis factor-mediated signaling pathway	6/292	233	019	031	6
	209		28	216	05	

	GO:		67/	0.00	0.00	
BP	0140 cell-cell fusion	6/292	233	019	031	6
	253		28	216	05	
	GO:		160	0.00	0.00	
BP	0010 positive regulation of endopeptidase activity	9/292	/23	019	031	9
	950		328	333	203	
	GO:		43/	0.00	0.00	
BP	1902 apoptotic process involved in development	5/292	233	019	031	5
	742		28	362	203	
	GO:		43/	0.00	0.00	
BP	1903 regulation of extracellular matrix organization	5/292	233	019	031	5
	053		28	362	203	
	GO:		317	0.00	0.00	
BP	0051 striated muscle cell differentiation	13/292	/23	019	031	1
	146		328	653	618	3
	GO:		317	0.00	0.00	
BP	1903 positive regulation of cellular protein localization	13/292	/23	019	031	1
	829		328	653	618	3
	GO:		197	0.00	0.00	
BP	0016 carbohydrate biosynthetic process	10/292	/23	019	032	1
	051		328	946	061	0
	GO:		96/	0.00	0.00	
BP	0031 pancreas development	7/292	233	020	033	7
	016		28	645	155	
	GO:		68/	0.00	0.00	
BP	0015 acidic amino acid transport	6/292	233	020	033	6
	800		28	857	438	
	GO:		68/	0.00	0.00	
BP	0046 positive regulation of Ras protein signal transduction	6/292	233	020	033	6
	579		28	857	438	
	GO:		24/	0.00	0.00	
BP	0015 prostaglandin transport	4/292	233	020	033	4
	732		28	972	534	
	GO:		24/	0.00	0.00	
BP	0031 positive regulation of myelination	4/292	233	020	033	4
	643		28	972	534	
	GO:		24/	0.00	0.00	
BP	0062 secondary palate development	4/292	233	020	033	4
	009		28	972	534	
	GO:		162	0.00	0.00	
BP	0072 epithelial tube formation	9/292	/23	021	033	9
	175		328	217	897	

	GO:		128	0.00	0.00	
BP	0003 cardiac septum development	8/292	/23	021	034	8
	279		328	393	149	
	GO:		44/	0.00	0.00	
BP	0032 activin receptor signaling pathway	5/292	233	021	034	5
	924		28	622	485	
	GO:		10/	0.00	0.00	
BP	0002 regulation of germinal center formation	3/292	233	021	034	3
	634		28	825	539	
	GO:		10/	0.00	0.00	
BP	0019 antifungal humoral response	3/292	233	021	034	3
	732		28	825	539	
	GO:		10/	0.00	0.00	
BP	0032 positive regulation of synaptic transmission, cholinergic	3/292	233	021	034	3
	224		28	825	539	
	GO:		10/	0.00	0.00	
BP	0046 development of secondary female sexual characteristics	3/292	233	021	034	3
	543		28	825	539	
	GO:		10/	0.00	0.00	
BP	0046 follicle-stimulating hormone secretion	3/292	233	021	034	3
	884		28	825	539	
	GO:		10/	0.00	0.00	
BP	0090 fibroblast growth factor production	3/292	233	021	034	3
	269		28	825	539	
	GO:		10/	0.00	0.00	
BP	0090 regulation of fibroblast growth factor production	3/292	233	021	034	3
	270		28	825	539	
	GO:		10/	0.00	0.00	
BP	2000 regulation of hepatic stellate cell activation	3/292	233	021	034	3
	489		28	825	539	
	GO:		10/	0.00	0.00	
BP	2000 regulation of T-helper 2 cell cytokine production	3/292	233	021	034	3
	551		28	825	539	
	GO:		200	0.00	0.00	
BP	0007 JNK cascade	10/292	/23	022	035	1
	254		328	533	629	0
	GO:		69/	0.00	0.00	
BP	0006 syncytium formation	6/292	233	022	035	6
	949		28	606	715	
	GO:		280	0.00	0.00	
BP	0032 regulation of transporter activity	12/292	/23	023	036	1
	409		328	05	384	2

	GO:		164	0.00	0.00		
BP	0043	negative regulation of DNA-binding transcription factor activity	9/292	/23	023	036	9
	433			328	252	672	
	GO:		201	0.00	0.00		
BP	0050	regulation of viral process	10/292	/23	023	036	1
	792			328	455	961	0
	GO:		45/	0.00	0.00		
BP	0001	branching involved in blood vessel morphogenesis	5/292	233	024	037	5
	569			28	078	846	
	GO:		45/	0.00	0.00		
BP	0034	response to type I interferon	5/292	233	024	037	5
	340			28	078	846	
	GO:		45/	0.00	0.00		
BP	2000	regulation of heart morphogenesis	5/292	233	024	037	5
	826			28	078	846	
	GO:		202	0.00	0.00		
BP	0006	glucose metabolic process	10/292	/23	024	038	1
	006			328	409	334	0
	GO:		70/	0.00	0.00		
BP	0016	somatic diversification of immunoglobulins	6/292	233	024	038	6
	445			28	469	394	
	GO:		25/	0.00	0.00		
BP	0010	positive regulation of macrophage chemotaxis	4/292	233	024	038	4
	759			28	722	594	
	GO:		25/	0.00	0.00		
BP	0014	regulation of glutamate secretion	4/292	233	024	038	4
	048			28	722	594	
	GO:		25/	0.00	0.00		
BP	0051	killing of cells in other organism involved in symbiotic interaction	4/292	233	024	038	4
	883			28	722	594	
	GO:		25/	0.00	0.00		
BP	1903	regulation of production of miRNAs involved in gene silencing by miRNA	4/292	233	024	038	4
	798			28	722	594	
	GO:		25/	0.00	0.00		
BP	1904	vascular associated smooth muscle cell migration	4/292	233	024	038	4
	738			28	722	594	
	GO:		25/	0.00	0.00		
BP	1904	regulation of vascular associated smooth muscle cell migration	4/292	233	024	038	4
	752			28	722	594	
	GO:		99/	0.00	0.00		
BP	0070	regulation of biomineral tissue development	7/292	233	024	038	7
	167			28	978	929	

	GO:		99/	0.00	0.00	
BP	0110 regulation of biomineralization	7/292	233	024	038	7
	149		28	978	929	
	GO:		132	0.00	0.00	
BP	0034 negative regulation of transmembrane	8/292	/23	026	041	8
	763 transport		328	396	104	
	GO:		71/	0.00	0.00	
BP	0001 endothelial cell development	6/292	233	026	041	6
	885		28	45	153	
	GO:		167	0.00	0.00	
BP	0042 myelination	9/292	/23	026	041	9
	552		328	606	361	
	GO:		46/	0.00	0.00	
BP	0006 unsaturated fatty acid biosynthetic process	5/292	233	026	041	5
	636		28	741	5	
	GO:		46/	0.00	0.00	
BP	1905 regulation of macrophage migration	5/292	233	026	041	5
	521		28	741	5	
	GO:		101	0.00	0.00	
BP	0060 kidney morphogenesis	7/292	/23	028	043	7
	993		328	253	81	
	GO: somatic diversification of immune receptors		72/	0.00	0.00	
BP	0002 via germline recombination within a single	6/292	233	028	044	6
	562 locus		28	556	168	
	GO:		72/	0.00	0.00	
BP	0016 somatic cell DNA recombination	6/292	233	028	044	6
	444		28	556	168	
	GO:		72/	0.00	0.00	
BP	0061 negative regulation of wound healing	6/292	233	028	044	6
	045		28	556	168	
	GO:		26/	0.00	0.00	
BP	0010 negative regulation of glucose	4/292	233	028	044	4
	829 transmembrane transport		28	93	598	
	GO:		26/	0.00	0.00	
BP	0044 type B pancreatic cell proliferation	4/292	233	028	044	4
	342		28	93	598	
	GO:		26/	0.00	0.00	
BP	0070 negative regulation of T cell apoptotic	4/292	233	028	044	4
	233 process		28	93	598	
	GO:		26/	0.00	0.00	
BP	0070 regulation of production of small RNA	4/292	233	028	044	4
	920 involved in gene silencing by RNA		28	93	598	

	GO:		47/	0.00	0.00	
BP	0003 heart valve morphogenesis	5/292	233	029	045	5
	179		28	621	511	
	GO:		47/	0.00	0.00	
BP	0045 positive regulation of DNA recombination	5/292	233	029	045	5
	911		28	621	511	
	GO:		47/	0.00	0.00	
BP	0060 maternal process involved in female pregnancy	5/292	233	029	045	5
	135		28	621	511	
	GO:		47/	0.00	0.00	
BP	0120 negative regulation of cold-induced thermogenesis	5/292	233	029	045	5
	163		28	621	511	
	GO:		11/	0.00	0.00	
BP	0038 nerve growth factor signaling pathway	3/292	233	029	045	3
	180		28	731	529	
	GO:		11/	0.00	0.00	
BP	0042 vitamin D biosynthetic process	3/292	233	029	045	3
	368		28	731	529	
	GO:		11/	0.00	0.00	
BP	1902 L-arginine transport	3/292	233	029	045	3
	023		28	731	529	
	GO:		11/	0.00	0.00	
BP	2001 positive regulation of unsaturated fatty acid biosynthetic process	3/292	233	029	045	3
	280		28	731	529	
	GO:		170	0.00	0.00	
BP	0007 ensheathment of neurons	9/292	/23	030	046	9
	272		328	352	401	
	GO:		170	0.00	0.00	
BP	0008 axon ensheathment	9/292	/23	030	046	9
	366		328	352	401	
	GO:		73/	0.00	0.00	
BP	0002 positive regulation of T cell mediated immunity	6/292	233	030	046	6
	711		28	79	994	
	GO:		73/	0.00	0.00	
BP	1903 positive regulation of anion transport	6/292	233	030	046	6
	793		28	79	994	
	GO:		103	0.00	0.00	
BP	0055 regulation of cardiac muscle tissue development	7/292	/23	031	048	7
	024		328	864	593	
	GO:		48/	0.00	0.00	
BP	0045 positive regulation of vasoconstriction	5/292	233	032	049	5
	907		28	73	749	

	GO:			48/	0.00	0.00		
BP	0048	vascular endothelial growth factor receptor signaling pathway	5/292	233	032	049	5	
	010			28	73	749		
	GO:			48/	0.00	0.00		
BP	0050	positive regulation of calcium-mediated signaling	5/292	233	032	049	5	
	850			28	73	749		
	GO:			48/	0.00	0.00		
BP	1903	positive regulation of phospholipid metabolic process	5/292	233	032	049	5	
	727			28	73	749		
	GO:			472	0.00	0.00		
BP	0048	organelle fission	16/292	/23	032	049	1	
	285			328	829	859	6	
	GO:			74/	0.00	0.00		
BP	0046	positive regulation of nucleocytoplasmic transport	6/292	233	033	050	6	
	824			28	159	319		
	GO:			27/	0.00	0.00		
BP	0006	inflammatory cell apoptotic process	4/292	233	033	050	4	
	925			28	629	781		
	GO:			27/	0.00	0.00		
BP	0016	detection of temperature stimulus	4/292	233	033	050	4	
	048			28	629	781		
	GO:			27/	0.00	0.00		
BP	0030	hyaluronan metabolic process	4/292	233	033	050	4	
	212			28	629	781		
	GO:			27/	0.00	0.00		
BP	0035	regulation of urine volume	4/292	233	033	050	4	
	809			28	629	781		
	GO:			27/	0.00	0.00		
BP	0150	regulation of neuroinflammatory response	4/292	233	033	050	4	
	077			28	629	781		
	GO:			27/	0.00	0.00		
BP	1904	regulation of leukocyte adhesion to vascular endothelial cell	4/292	233	033	050	4	
	994			28	629	781		
	GO:			292	0.00	0.00		
BP	0044	cellular carbohydrate metabolic process	12/292	/23	033	050	1	
	262			328	752	92	2	
	GO:			104	0.00	0.00		
BP	0046	bone remodeling	7/292	/23	033	050	7	
	849			328	804	92		
	GO:			104	0.00	0.00		
BP	0061	renal tubule development	7/292	/23	033	050	7	
	326			328	804	92		

	GO:		75/	0.00	0.00	
BP	1903 regulation of phospholipid metabolic process	6/292	233	035	053	6
	725		28	669	686	
	GO:		252	0.00	0.00	
BP	0021 telencephalon development	11/292	/23	035	053	1
	537		328	748	761	1
	GO:		212	0.00	0.00	
BP	0097 response to alcohol	10/292	/23	035	053	1
	305		328	874	906	0
	GO:		174	0.00	0.00	
BP	0001 placenta development	9/292	/23	036	053	9
	890		328	014	909	
	GO:		49/	0.00	0.00	
BP	0006 prostanoid metabolic process	5/292	233	036	053	5
	692		28	08	909	
	GO:		49/	0.00	0.00	
BP	0006 prostaglandin metabolic process	5/292	233	036	053	5
	693		28	08	909	
	GO:		49/	0.00	0.00	
BP	0032 secretion by tissue	5/292	233	036	053	5
	941		28	08	909	
	GO:		49/	0.00	0.00	
BP	0033 calcineurin-NFAT signaling cascade	5/292	233	036	053	5
	173		28	08	909	
	GO:		49/	0.00	0.00	
BP	0046 positive regulation of alpha-beta T cell differentiation	5/292	233	036	053	5
	638		28	08	909	
	GO:		49/	0.00	0.00	
BP	1903 regulation of glycoprotein metabolic process	5/292	233	036	053	5
	018		28	08	909	
	GO:		106	0.00	0.00	
BP	0031 actin cytoskeleton reorganization	7/292	/23	037	056	7
	532		328	966	681	
	GO:		76/	0.00	0.00	
BP	0006 gluconeogenesis	6/292	233	038	057	6
	094		28	325	124	
	GO:		76/	0.00	0.00	
BP	0006 activation of cysteine-type endopeptidase activity involved in apoptotic process	6/292	233	038	057	6
	919		28	325	124	
	GO:		28/	0.00	0.00	
BP	0002 positive regulation of cellular extravasation	4/292	233	038	057	4
	693		28	85	747	

	GO:		28/	0.00	0.00	
BP	0010 positive regulation of heart rate	4/292	233	038	057	4
	460		28	85	747	
	GO:		176	0.00	0.00	
BP	0009 response to mechanical stimulus	9/292	/23	039	057	9
	612		328	157	747	
	GO:		12/	0.00	0.00	
BP	0001 natural killer cell proliferation	3/292	233	039	057	3
	787		28	275	747	
	GO:		12/	0.00	0.00	
BP	0002 regulation of blood volume by renin- angiotensin	3/292	233	039	057	3
	016		28	275	747	
	GO:		12/	0.00	0.00	
BP	0014 artery smooth muscle contraction	3/292	233	039	057	3
	824		28	275	747	
	GO:		12/	0.00	0.00	
BP	0031 regulation of prostaglandin biosynthetic process	3/292	233	039	057	3
	392		28	275	747	
	GO:		12/	0.00	0.00	
BP	0032 positive regulation of interleukin-5 production	3/292	233	039	057	3
	754		28	275	747	
	GO:		12/	0.00	0.00	
BP	0035 hepatic stellate cell activation	3/292	233	039	057	3
	733		28	275	747	
	GO:		12/	0.00	0.00	
BP	0070 extracellular matrix constituent secretion	3/292	233	039	057	3
	278		28	275	747	
	GO:		12/	0.00	0.00	
BP	0071 positive regulation of monocyte chemotactic protein-1 production	3/292	233	039	057	3
	639		28	275	747	
	GO:		12/	0.00	0.00	
BP	0097 liver regeneration	3/292	233	039	057	3
	421		28	275	747	
	GO:		12/	0.00	0.00	
BP	0150 negative regulation of neuroinflammatory response	3/292	233	039	057	3
	079		28	275	747	
	GO:		12/	0.00	0.00	
BP	1902 positive regulation of flagellated sperm motility	3/292	233	039	057	3
	093		28	275	747	
	GO:		12/	0.00	0.00	
BP	1902 semaphorin-plexin signaling pathway involved in axon guidance	3/292	233	039	057	3
	287		28	275	747	

	GO:			12/	0.00	0.00	
BP	2000	positive regulation of cilium-dependent cell motility	3/292	233	039	057	3
	155			28	275	747	
	GO:			12/	0.00	0.00	
BP	2000	regulation of CD4-positive, alpha-beta T cell proliferation	3/292	233	039	057	3
	561			28	275	747	
	GO:			50/	0.00	0.00	
BP	0007	myoblast fusion	5/292	233	039	058	5
	520			28	683	208	
	GO:			50/	0.00	0.00	
BP	0032	icosanoid secretion	5/292	233	039	058	5
	309			28	683	208	
	GO:			50/	0.00	0.00	
BP	0070	negative regulation of lymphocyte apoptotic process	5/292	233	039	058	5
	229			28	683	208	
	GO:			177	0.00	0.00	
BP	0016	regulation of striated muscle tissue development	9/292	/23	040	059	9
	202			328	811	767	
	GO:			177	0.00	0.00	
BP	0035	tube formation	9/292	/23	040	059	9
	148			328	811	767	
	GO:			77/	0.00	0.00	
BP	0045	bone resorption	6/292	233	041	060	6
	453			28	133	144	
	GO:			77/	0.00	0.00	
BP	0061	regulation of protein tyrosine kinase activity	6/292	233	041	060	6
	097			28	133	144	
	GO:			299	0.00	0.00	
BP	0046	carboxylic acid biosynthetic process	12/292	/23	041	060	1
	394			328	75	997	2
	GO:			108	0.00	0.00	
BP	0008	associative learning	7/292	/23	042	062	7
	306			328	529	038	
	GO:			108	0.00	0.00	
BP	0043	regulation of potassium ion transport	7/292	/23	042	062	7
	266			328	529	038	
	GO:			300	0.00	0.00	
BP	0016	organic acid biosynthetic process	12/292	/23	043	062	1
	053			328	014	695	2
	GO:			217	0.00	0.00	
BP	0017	protein import	10/292	/23	043	062	1
	038			328	107	782	0

	GO:			142	0.00	0.00	
BP	2001	positive regulation of cysteine-type endopeptidase activity	8/292	/23	043	062	8
	056			328	195	86	
	GO:			51/	0.00	0.00	
BP	0072	mesenchyme morphogenesis	5/292	233	043	063	5
	132			28	55	327	
	GO:			78/	0.00	0.00	
BP	0003	cardiac ventricle morphogenesis	6/292	233	044	064	6
	208			28	099	074	
	GO:			29/	0.00	0.00	
BP	0003	negative regulation of systemic arterial blood pressure	4/292	233	044	064	4
	085			28	625	736	
	GO:			29/	0.00	0.00	
BP	0003	outflow tract septum morphogenesis	4/292	233	044	064	4
	148			28	625	736	
	GO:			109	0.00	0.00	
BP	0002	chondrocyte differentiation	7/292	/23	044	065	7
	062			328	97	185	
	GO:			259	0.00	0.00	
BP	0032	regulation of ion transmembrane transporter activity	11/292	/23	045	065	1
	412			328	027	218	1
	GO:			180	0.00	0.00	
BP	0007	Notch signaling pathway	9/292	/23	046	066	9
	219			328	121	698	
	GO:			180	0.00	0.00	
BP	1901	regulation of muscle tissue development	9/292	/23	046	066	9
	861			328	121	698	
	GO:			79/	0.00	0.00	
BP	0019	hexose biosynthetic process	6/292	233	047	068	6
	319			28	229	246	
	GO:			52/	0.00	0.00	
BP	0010	positive regulation of glucose transmembrane transport	5/292	233	047	068	5
	828			28	696	759	
	GO:			52/	0.00	0.00	
BP	0045	regulation of bone resorption	5/292	233	047	068	5
	124			28	696	759	
	GO:			52/	0.00	0.00	
BP	1900	regulation of cytokine production involved in inflammatory response	5/292	233	047	068	5
	015			28	696	759	
	GO:			261	0.00	0.00	
BP	0001	tissue homeostasis	11/292	/23	048	069	1
	894			328	022	121	1

	GO:		261	0.00	0.00	1
BP	0005 monosaccharide metabolic process	11/292	/23	048	069	1
	996		328	022	121	
	GO:		145	0.00	0.00	
BP	0006 fatty acid biosynthetic process	8/292	/23	049	071	8
	633		328	654	414	
	GO:		182	0.00	0.00	
BP	0010 negative regulation of endopeptidase activity	9/292	/23	049	071	9
	951		328	968	583	
	GO:		111	0.00	0.00	
BP	0001 neural tube closure	7/292	/23	050	071	7
	843		328	185	583	
	GO:		111	0.00	0.00	
BP	0072 nephron epithelium development	7/292	/23	050	071	7
	009		328	185	583	
	GO:		80/	0.00	0.00	
BP	0002 somatic diversification of immune receptors	6/292	233	050	071	6
	200		28	53	583	
	GO:		13/	0.00	0.00	
BP	0001 ovulation from ovarian follicle	3/292	233	050	071	3
	542		28	586	583	
	GO:		13/	0.00	0.00	
BP	0001 neutrophil apoptotic process	3/292	233	050	071	3
	781		28	586	583	
	GO:		13/	0.00	0.00	
BP	0002 complement receptor mediated signaling pathway	3/292	233	050	071	3
	430		28	586	583	
	GO:		13/	0.00	0.00	
BP	0002 mast cell chemotaxis	3/292	233	050	071	3
	551		28	586	583	
	GO:		13/	0.00	0.00	
BP	0003 positive regulation of cilium movement	3/292	233	050	071	3
	353		28	586	583	
	GO:		13/	0.00	0.00	
BP	0010 positive regulation of protein kinase A signaling	3/292	233	050	071	3
	739		28	586	583	
	GO:		13/	0.00	0.00	
BP	0010 positive regulation of macrophage derived foam cell differentiation	3/292	233	050	071	3
	744		28	586	583	
	GO:		13/	0.00	0.00	
BP	0015 arginine transport	3/292	233	050	071	3
	809		28	586	583	

	GO:		13/	0.00	0.00	
BP	0035	CD4-positive, alpha-beta T cell proliferation	3/292	233	050	071 3
		739		28	586	583
	GO:		13/	0.00	0.00	
BP	0045	development of secondary sexual characteristics	3/292	233	050	071 3
		136		28	586	583
	GO:		13/	0.00	0.00	
BP	0048	positive regulation of astrocyte differentiation	3/292	233	050	071 3
		711		28	586	583
	GO:		13/	0.00	0.00	
BP	0060	positive regulation of type I interferon-mediated signaling pathway	3/292	233	050	071 3
		340		28	586	583
	GO:		13/	0.00	0.00	
BP	0060	branching involved in labyrinthine layer morphogenesis	3/292	233	050	071 3
		670		28	586	583
	GO:		13/	0.00	0.00	
BP	0070	nucleotide-binding oligomerization domain containing 2 signaling pathway	3/292	233	050	071 3
		431		28	586	583
	GO:		13/	0.00	0.00	
BP	0072	positive regulation of metanephros development	3/292	233	050	071 3
		216		28	586	583
	GO:		13/	0.00	0.00	
BP	1902	semaphorin-plexin signaling pathway involved in neuron projection guidance	3/292	233	050	071 3
		285		28	586	583
	GO:		13/	0.00	0.00	
BP	2000	positive regulation of steroid hormone secretion	3/292	233	050	071 3
		833		28	586	583
	GO:		350	0.00	0.00	
BP	0045	negative regulation of proteolysis	13/292	/23	050	071 1
		861		328	642	608 3
	GO:		30/	0.00	0.00	
BP	0002	mature B cell differentiation	4/292	233	050	071 4
		335		28	986	874
	GO:		30/	0.00	0.00	
BP	0043	positive regulation of CD4-positive, alpha-beta T cell differentiation	4/292	233	050	071 4
		372		28	986	874
	GO:		30/	0.00	0.00	
BP	0051	chaperone cofactor-dependent protein refolding	4/292	233	050	071 4
		085		28	986	874
	GO:		30/	0.00	0.00	
BP	0060	positive regulation of syncytium formation by plasma membrane fusion	4/292	233	050	071 4
		143		28	986	874

	GO:		53/	0.00	0.00	
BP	0032 regulation of interferon-beta production	5/292	233	052	073	5
	648		28	131	375	
	GO:		53/	0.00	0.00	
BP	0097 calcineurin-mediated signaling	5/292	233	052	073	5
	720		28	131	375	
	GO:		112	0.00	0.00	
BP	0007 body fluid secretion	7/292	123	052	074	7
	589		328	967	496	
	GO:		54/	0.00	0.00	
BP	0046 icosanoid biosynthetic process	5/292	233	056	079	5
	456		28	869	862	
	GO:		54/	0.00	0.00	
BP	2001 regulation of neuron migration	5/292	233	056	079	5
	222		28	869	862	
	GO:		82/	0.00	0.00	
BP	0019 lipid storage	6/292	233	057	080	6
	915		28	668	738	
	GO:		82/	0.00	0.00	
BP	0030 regulation of blood coagulation	6/292	233	057	080	6
	193		28	668	738	
	GO:		82/	0.00	0.00	
BP	0030 regulation of bone mineralization	6/292	233	057	080	6
	500		28	668	738	
	GO:		82/	0.00	0.00	
BP	0072 nephron epithelium morphogenesis	6/292	233	057	080	6
	088		28	668	738	
	GO:		31/	0.00	0.00	
BP	0045 negative regulation of muscle contraction	4/292	233	057	080	4
	932		28	967	912	
	GO: negative regulation of extrinsic apoptotic		31/	0.00	0.00	
BP	1902 signaling pathway via death domain	4/292	233	057	080	4
	042 receptors		28	967	912	
	GO:		31/	0.00	0.00	
BP	1905 semi-lunar valve development	4/292	233	057	080	4
	314		28	967	912	
	GO:		31/	0.00	0.00	
BP	1905 positive regulation of macrophage migration	4/292	233	057	080	4
	523		28	967	912	
	GO:		186	0.00	0.00	
BP	0046 regulation of JNK cascade	9/292	123	058	081	9
	328		328	452	527	

	GO:		498	0.00	0.00				
BP	1901	organic hydroxy compound metabolic process	16/292	/23	058	081			1
	615			328	756	889			6
	GO:			450	0.00	0.00			
BP	0042	regulation of membrane potential	15/292	/23	059	083			1
	391			328	609	014			5
	GO:			83/	0.00	0.00			
BP	1900	regulation of hemostasis	6/292	233	061	085			6
	046			28	518	544			
	GO:			83/	0.00	0.00			
BP	1903	negative regulation of viral life cycle	6/292	233	061	085			6
	901			28	518	544			
	GO:			55/	0.00	0.00			
BP	0002	cell migration involved in sprouting angiogenesis	5/292	233	061	085			5
	042			28	923	913			
	GO:			55/	0.00	0.00			
BP	0033	membrane protein proteolysis	5/292	233	061	085			5
	619			28	923	913			
	GO:			55/	0.00	0.00			
BP	0045	positive regulation of axon extension	5/292	233	061	085			5
	773			28	923	913			
	GO:			150	0.00	0.00			
BP	0034	cellular response to reactive oxygen species	8/292	/23	062	086			8
	614			328	143	153			
	GO:			270	0.00	0.00			
BP	0022	regulation of transmembrane transporter activity	11/292	/23	063	087			1
	898			328	643	447			1
	GO:			14/	0.00	0.00			
BP	0002	MyD88-independent toll-like receptor signaling pathway	3/292	233	063	087			3
	756			28	787	447			
	GO:			14/	0.00	0.00			
BP	0014	tonic smooth muscle contraction	3/292	233	063	087			3
	820			28	787	447			
	GO:			14/	0.00	0.00			
BP	0032	regulation of gonadotropin secretion	3/292	233	063	087			3
	276			28	787	447			
	GO:			14/	0.00	0.00			
BP	0032	response to peptidoglycan	3/292	233	063	087			3
	494			28	787	447			
	GO:			14/	0.00	0.00			
BP	0032	granulocyte macrophage colony-stimulating factor production	3/292	233	063	087			3
	604			28	787	447			

	GO:		14/	0.00	0.00	
BP	0032	regulation of granulocyte macrophage colony-stimulating factor production	3/292	233	063	087 3
	645			28	787	447
	GO:		14/	0.00	0.00	
BP	0034	positive regulation of heterotypic cell-cell adhesion	3/292	233	063	087 3
	116			28	787	447
	GO:		14/	0.00	0.00	
BP	0042	regulation of cytokine biosynthetic process	3/292	233	063	087 3
	035			28	787	447
	GO:		14/	0.00	0.00	
BP	0042	fat-soluble vitamin biosynthetic process	3/292	233	063	087 3
	362			28	787	447
	GO:		14/	0.00	0.00	
BP	0061	regulation of type B pancreatic cell proliferation	3/292	233	063	087 3
	469			28	787	447
	GO:		14/	0.00	0.00	
BP	0070	nucleotide-binding oligomerization domain containing signaling pathway	3/292	233	063	087 3
	423			28	787	447
	GO:		14/	0.00	0.00	
BP	0097	mast cell migration	3/292	233	063	087 3
	531			28	787	447
	GO:		14/	0.00	0.00	
BP	2000	positive regulation of hepatocyte proliferation	3/292	233	063	087 3
	347			28	787	447
	GO:		14/	0.00	0.00	
BP	2001	regulation of unsaturated fatty acid biosynthetic process	3/292	233	063	087 3
	279			28	787	447
	GO:		189/	0.00	0.00	
BP	0001	neuron migration	9/292	723	065	089 9
	764			328	561	751
	GO:		84/	0.00	0.00	
BP	0072	nephron morphogenesis	6/292	233	065	089 6
	028			28	565	751
	GO:		56/	0.00	0.00	
BP	0035	cellular response to vascular endothelial growth factor stimulus	5/292	233	067	091 5
	924			28	306	795
	GO:		56/	0.00	0.00	
BP	0045	negative regulation of fat cell differentiation	5/292	233	067	091 5
	599			28	306	795
	GO:		56/	0.00	0.00	
BP	0071	icosanoid transport	5/292	233	067	091 5
	715			28	306	795

	GO:		56/	0.00	0.00	
BP	0098 cellular response to virus	5/292	233	067	091	5
	586		28	306	795	
	GO:		56/	0.00	0.00	
BP	1901 fatty acid derivative transport	5/292	233	067	091	5
	571		28	306	795	
	GO:		85/	0.00	0.00	
BP	0006 dicarboxylic acid transport	6/292	233	069	095	6
	835		28	814	075	
	GO:		85/	0.00	0.00	
BP	0046 monosaccharide biosynthetic process	6/292	233	069	095	6
	364		28	814	075	
	GO:		153	0.00	0.00	
BP	0055 lipid homeostasis	8/292	123	070	096	8
	088		328	778	315	
	GO:		118	0.00	0.00	
BP	0014 primary neural tube formation	7/292	123	072	098	7
	020		328	345	376	
	GO:		57/	0.00	0.00	
BP	0046 positive regulation of organ growth	5/292	233	073	099	5
	622		28	032	164	
	GO:		57/	0.00	0.00	
BP	0055 sodium ion homeostasis	5/292	233	073	099	5
	078		28	032	164	
	GO:		33/	0.00	0.00	
BP	0003 regulation of systemic arterial blood pressure by renin-angiotensin	4/292	233	073	099	4
	081		28	92	928	
	GO:		33/	0.00	0.00	
BP	0022 extracellular matrix disassembly	4/292	233	073	099	4
	617		28	92	928	
	GO:		33/	0.00	0.00	
BP	0032 negative regulation of organic acid transport	4/292	233	073	099	4
	891		28	92	928	
	GO:		33/	0.00	0.00	
BP	0033 mammary gland epithelial cell proliferation	4/292	233	073	099	4
	598		28	92	928	
	GO:		33/	0.00	0.00	
BP	0060 prostate gland epithelium morphogenesis	4/292	233	073	099	4
	740		28	92	928	
	GO:		33/	0.00	0.00	
BP	0060 negative regulation of gene silencing	4/292	233	073	099	4
	969		28	92	928	

	GO:		86/	0.00	0.00	
BP	0003 ventricular septum development	6/292	233	074	100	6
	281		28	274	26	
	GO:		86/	0.00	0.00	
BP	0050 regulation of coagulation	6/292	233	074	100	6
	818		28	274	26	
	GO:		276	0.00	0.00	
BP	0034 cellular response to oxidative stress	11/292	/23	076	102	1
	599		328	247	847	1
	GO:		155	0.00	0.00	
BP	0001 embryonic epithelial tube formation	8/292	/23	077	103	8
	838		328	053	859	
	GO:		277	0.00	0.00	
BP	0003 heart morphogenesis	11/292	/23	078	105	1
	007		328	536	326	1
	GO:		15/	0.00	0.00	
BP	0006 activation-induced cell death of T cells	3/292	233	078	105	3
	924		28	998	326	
	GO:		15/	0.00	0.00	
BP	0010 regulation of extracellular matrix disassembly	3/292	233	078	105	3
	715		28	998	326	
	GO:		15/	0.00	0.00	
BP	0023 CD40 signaling pathway	3/292	233	078	105	3
	035		28	998	326	
	GO:		15/	0.00	0.00	
BP	0030 regulation of vitamin metabolic process	3/292	233	078	105	3
	656		28	998	326	
	GO:		15/	0.00	0.00	
BP	0032 regulation of synaptic transmission, cholinergic	3/292	233	078	105	3
	222		28	998	326	
	GO:		15/	0.00	0.00	
BP	0032 positive regulation of prostaglandin secretion	3/292	233	078	105	3
	308		28	998	326	
	GO:		15/	0.00	0.00	
BP	0035 nucleotide-binding domain, leucine rich repeat containing receptor signaling pathway	3/292	233	078	105	3
	872		28	998	326	
	GO:		15/	0.00	0.00	
BP	0042 cytokine biosynthetic process	3/292	233	078	105	3
	089		28	998	326	
	GO:		15/	0.00	0.00	
BP	0042 activation of Janus kinase activity	3/292	233	078	105	3
	976		28	998	326	

	GO:		15/	0.00	0.00	
BP	0043	negative regulation of macrophage activation	3/292	233	078	105 3
	031			28	998	326
	GO:		15/	0.00	0.00	
BP	0045	positive regulation of action potential	3/292	233	078	105 3
	760			28	998	326
	GO:		15/	0.00	0.00	
BP	0046	saliva secretion	3/292	233	078	105 3
	541			28	998	326
	GO:		15/	0.00	0.00	
BP	0061	vascular wound healing	3/292	233	078	105 3
	042			28	998	326
	GO:		15/	0.00	0.00	
BP	0090	inflammatory response to wounding	3/292	233	078	105 3
	594			28	998	326
	GO:		58/	0.00	0.00	
BP	0043	response to exogenous dsRNA	5/292	233	079	105 5
	330			28	114	33
	GO:		58/	0.00	0.00	
BP	0045	negative regulation of viral genome replication	5/292	233	079	105 5
	071			28	114	33
	GO:		463	0.00	0.00	
BP	0015	organic anion transport	15/292	/23	079	105 1
	711			328	632	942 5
	GO:		278	0.00	0.00	
BP	0010	regulation of autophagy	11/292	/23	080	107 1
	506			328	883	529 1
	GO:		34/	0.00	0.00	
BP	0003	cardiac atrium morphogenesis	4/292	233	082	109 4
	209			28	958	892
	GO:		34/	0.00	0.00	
BP	0032	negative regulation of interferon-gamma production	4/292	233	082	109 4
	689			28	958	892
	GO:		34/	0.00	0.00	
BP	0048	regulation of astrocyte differentiation	4/292	233	082	109 4
	710			28	958	892
	GO:		34/	0.00	0.00	
BP	0060	prostate gland morphogenesis	4/292	233	082	109 4
	512			28	958	892
	GO:		34/	0.00	0.00	
BP	0071	regulation of transforming growth factor beta production	4/292	233	082	109 4
	634			28	958	892

	GO:		88/	0.00	0.00	
BP	0042 odontogenesis of dentin-containing tooth	6/292	233	083	110	6
	475		28	852	997	
	GO:		196	0.00	0.00	
BP	0042 hormone metabolic process	9/292	/23	084	112	9
	445		328	923	334	
	GO:		418	0.00	0.00	
BP	0001 eye development	14/292	/23	086	113	1
	654		328	034	722	4
	GO:		122	0.00	0.00	
BP	0045 positive regulation of endocytosis	7/292	/23	088	116	7
	807		328	112	385	
	GO:		89/	0.00	0.00	
BP	0042 mechanoreceptor differentiation	6/292	233	088	117	6
	490		28	985	37	
	GO:		89/	0.00	0.00	
BP	0070 cellular response to hydrogen peroxide	6/292	233	088	117	6
	301		28	985	37	
	GO:		60/	0.00	0.00	
BP	0060 labyrinthine layer development	5/292	233	092	121	5
	711		28	402	638	
	GO:		60/	0.00	0.00	
BP	0098 regulation of action potential	5/292	233	092	121	5
	900		28	402	638	
	GO:		123	0.00	0.00	
BP	0008 insulin receptor signaling pathway	7/292	/23	092	121	7
	286		328	448	638	
	GO:		35/	0.00	0.00	
BP	0006 'de novo' protein folding	4/292	233	092	121	4
	458		28	748	638	
	GO:		35/	0.00	0.00	
BP	0045 positive regulation of smooth muscle contraction	4/292	233	092	121	4
	987		28	748	638	
	GO:		35/	0.00	0.00	
BP	0051 'de novo' posttranslational protein folding	4/292	233	092	121	4
	084		28	748	638	
	GO:		35/	0.00	0.00	
BP	0055 acylglycerol homeostasis	4/292	233	092	121	4
	090		28	748	638	
	GO:		35/	0.00	0.00	
BP	0070 triglyceride homeostasis	4/292	233	092	121	4
	328		28	748	638	

	GO:		422	0.00	0.00		1
BP	0150 visual system development	14/292	/23	094	123		4
	063		328	249	483		
	GO:		90/	0.00	0.00		
BP	1900 regulation of cellular response to insulin	6/292	233	094	123		6
	076 stimulus		28	356	483		
	GO:		90/	0.00	0.00		
BP	1903 negative regulation of response to wounding	6/292	233	094	123		6
	035		28	356	483		
	GO:		16/	0.00	0.00		
BP	0015 basic amino acid transport	3/292	233	096	125		3
	802		28	331	357		
	GO:		16/	0.00	0.00		
BP	0030 male sex determination	3/292	233	096	125		3
	238		28	331	357		
	GO:		16/	0.00	0.00		
BP	0051 positive regulation of membrane protein	3/292	233	096	125		3
	044 ectodomain proteolysis		28	331	357		
	GO:		16/	0.00	0.00		
BP	0051 regulation of killing of cells of other	3/292	233	096	125		3
	709 organism		28	331	357		
	GO:		16/	0.00	0.00		
BP	0070 positive regulation of neuron projection	3/292	233	096	125		3
	572 regeneration		28	331	357		
	GO:		16/	0.00	0.00		
BP	0072 fibroblast activation	3/292	233	096	125		3
	537		28	331	357		
	GO:		16/	0.00	0.00		
BP	1902 regulation of apoptotic process involved in	3/292	233	096	125		3
	337 morphogenesis		28	331	357		
	GO:		16/	0.00	0.00		
BP	2000 negative regulation of stem cell proliferation	3/292	233	096	125		3
	647		28	331	357		
	GO:		241	0.00	0.00		
BP	0046 protein autophosphorylation	10/292	/23	096	125		1
	777		328	824	91		0
	GO:		200	0.00	0.00		
BP	0051 positive regulation of binding	9/292	/23	097	127		9
	099		328	926	253		
	GO:		161	0.00	0.00		
BP	0009 hormone-mediated signaling pathway	8/292	/23	098	128		8
	755		328	608	049		

	GO:		61/	0.00	0.00	
BP	0048 lung alveolus development	5/292	233	099	129	5
	286		28	636	293	
	GO:		426	0.00	0.00	
BP	0048 sensory system development	14/292	/23	103	133	1
	880		328	115	608	4
	GO:		36/	0.00	0.00	
BP	0031 hair follicle morphogenesis	4/292	233	103	133	4
	069		28	323	608	
	GO:		36/	0.00	0.00	
BP	0034 toll-like receptor 4 signaling pathway	4/292	233	103	133	4
	142		28	323	608	
	GO:		36/	0.00	0.00	
BP	0061 heart trabecula morphogenesis	4/292	233	103	133	4
	384		28	323	608	
	GO:		36/	0.00	0.00	
BP	0071 transforming growth factor beta production	4/292	233	103	133	4
	604		28	323	608	
	GO:		332	0.00	0.00	
BP	0062 cellular response to chemical stress	12/292	/23	104	134	1
	197		328	354	847	2
	GO:		92/	0.00	0.00	
BP	0002 negative regulation of response to biotic stimulus	6/292	233	105	136	6
	832		28	843	579	
	GO:		92/	0.00	0.00	
BP	0043 regulation of multi-organism process	6/292	233	105	136	6
	900		28	843	579	
	GO:		126	0.00	0.00	
BP	0046 regulation of nucleocytoplasmic transport	7/292	/23	106	137	7
	822		328	471	294	
	GO:		62/	0.00	0.00	
BP	0051 negative regulation of calcium ion transport	5/292	233	107	138	5
	926		28	282	146	
	GO:		62/	0.00	0.00	
BP	1905 regulation of cardiocyte differentiation	5/292	233	107	138	5
	207		28	282	146	
	GO:		203	0.00	0.00	
BP	0009 response to carbohydrate	9/292	/23	108	139	9
	743		328	701	876	
	GO:		127	0.00	0.00	
BP	0014 myotube differentiation	7/292	/23	111	143	7
	902		328	5	377	

	GO:		93/	0.00	0.00	
BP	0033 T cell differentiation in thymus	6/292	233	111	143	6
	077		28	974	887	
	GO:		246	0.00	0.00	
BP	0010 negative regulation of peptidase activity	10/292	723	113	145	1
	466		328	051	17	0
	GO:		37/	0.00	0.00	
BP	0002 positive regulation of mesenchymal cell proliferation	4/292	233	114	147	4
	053		28	718	003	
	GO:		37/	0.00	0.00	
BP	0002 regulation of cellular extravasation	4/292	233	114	147	4
	691		28	718	003	
	GO:		37/	0.00	0.00	
BP	0002 regulation of humoral immune response	4/292	233	114	147	4
	920		28	718	003	
	GO:		63/	0.00	0.00	
BP	0060 cardiac muscle cell proliferation	5/292	233	115	147	5
	038		28	355	182	
	GO:		17/	0.00	0.00	
BP	0002 diet induced thermogenesis	3/292	233	115	147	3
	024		28	895	182	
	GO:		17/	0.00	0.00	
BP	0002 Fc receptor mediated stimulatory signaling pathway	3/292	233	115	147	3
	431		28	895	182	
	GO:		17/	0.00	0.00	
BP	0003 epithelial to mesenchymal transition involved in endocardial cushion formation	3/292	233	115	147	3
	198		28	895	182	
	GO:		17/	0.00	0.00	
BP	0006 cellular defense response	3/292	233	115	147	3
	968		28	895	182	
	GO:		17/	0.00	0.00	
BP	0032 regulation of prostaglandin secretion	3/292	233	115	147	3
	306		28	895	182	
	GO:		17/	0.00	0.00	
BP	0042 drinking behavior	3/292	233	115	147	3
	756		28	895	182	
	GO:		17/	0.00	0.00	
BP	0044 cellular response to leptin stimulus	3/292	233	115	147	3
	320		28	895	182	
	GO:		17/	0.00	0.00	
BP	0045 T-helper 2 cell differentiation	3/292	233	115	147	3
	064		28	895	182	

	GO:		17/	0.00	0.00		
BP	0070	positive regulation of calcineurin-NFAT signaling cascade	3/292	233	115	147	3
	886			28	895	182	
	GO:		17/	0.00	0.00		
BP	0071	cellular response to exogenous dsRNA	3/292	233	115	147	3
	360			28	895	182	
	GO:		17/	0.00	0.00		
BP	0106	positive regulation of calcineurin-mediated signaling	3/292	233	115	147	3
	058			28	895	182	
	GO:		17/	0.00	0.00		
BP	1904	regulation of apoptotic process involved in development	3/292	233	115	147	3
	748			28	895	182	
	GO:		205	0.00	0.00		
BP	0045	cell-cell junction organization	9/292	/23	116	147	9
	216			328	403	727	
	GO:		166	0.00	0.00		
BP	0007	blood coagulation	8/292	/23	120	152	8
	596			328	041	238	
	GO:		249	0.00	0.00		
BP	0015	organic hydroxy compound transport	10/292	/23	123	156	1
	850			328	81	447	0
	GO:		64/	0.00	0.00		
BP	0001	branching involved in ureteric bud morphogenesis	5/292	233	123	156	5
	658			28	868	447	
	GO:		64/	0.00	0.00		
BP	0008	glial cell migration	5/292	233	123	156	5
	347			28	868	447	
	GO:		64/	0.00	0.00		
BP	0030	positive regulation of epithelial cell differentiation	5/292	233	123	156	5
	858			28	868	447	
	GO:		64/	0.00	0.00		
BP	0035	aorta development	5/292	233	123	156	5
	904			28	868	447	
	GO:		64/	0.00	0.00		
BP	0043	response to dsRNA	5/292	233	123	156	5
	331			28	868	447	
	GO:		207	0.00	0.00		
BP	0031	actomyosin structure organization	9/292	/23	124	157	9
	032			328	541	189	
	GO:		167	0.00	0.00		
BP	0030	BMP signaling pathway	8/292	/23	124	157	8
	509			328	742	335	

	GO:		95/	0.00	0.00	
BP	0031 positive regulation of cell killing	6/292	233	125	157	6
	343		28	05	509	
	GO:		95/	0.00	0.00	
BP	0051 regulation of stress fiber assembly	6/292	233	125	157	6
	492		28	05	509	
	GO:		38/	0.00	0.00	
BP	0010 positive regulation of myotube differentiation	4/292	233	126	159	4
	831		28	964	375	
	GO:		38/	0.00	0.00	
BP	0045 positive regulation of steroid metabolic process	4/292	233	126	159	4
	940		28	964	375	
	GO:		38/	0.00	0.00	
BP	0051 negative regulation of amine transport	4/292	233	126	159	4
	953		28	964	375	
	GO:		38/	0.00	0.00	
BP	0062 positive regulation of pattern recognition receptor signaling pathway	4/292	233	126	159	4
	208		28	964	375	
	GO:		38/	0.00	0.00	
BP	0110 negative regulation of animal organ morphogenesis	4/292	233	126	159	4
	111		28	964	375	
	GO:		168	0.00	0.00	
BP	0007 hemostasis	8/292	/23	129	162	8
	599		328	588	559	
	GO:		295	0.00	0.00	
BP	0097 intrinsic apoptotic signaling pathway	11/292	/23	130	163	1
	193		328	563	67	1
	GO:		96/	0.00	0.00	
BP	0060 roof of mouth development	6/292	233	132	165	6
	021		28	01	373	
	GO:		169	0.00	0.00	
BP	0050 coagulation	8/292	/23	134	168	8
	817		328	584	368	
	GO:		169	0.00	0.00	
BP	0051 actin filament bundle assembly	8/292	/23	134	168	8
	017		328	584	368	
	GO:		18/	0.00	0.00	
BP	0002 regulation of hypersensitivity	3/292	233	137	170	3
	883		28	792	646	
	GO:		18/	0.00	0.00	
BP	0003 cardiac left ventricle morphogenesis	3/292	233	137	170	3
	214		28	792	646	

	GO:		18/	0.00	0.00	
BP	0010	negative regulation of myotube differentiation	3/292	233	137	170 3
	832			28	792	646
	GO:		18/	0.00	0.00	
BP	0030	female genitalia development	3/292	233	137	170 3
	540			28	792	646
	GO:		18/	0.00	0.00	
BP	0032	regulation of interleukin-5 production	3/292	233	137	170 3
	674			28	792	646
	GO:		18/	0.00	0.00	
BP	0042	regulation of odontogenesis of dentin-containing tooth	3/292	233	137	170 3
	487			28	792	646
	GO:		18/	0.00	0.00	
BP	0042	regulation of cell fate specification	3/292	233	137	170 3
	659			28	792	646
	GO:		18/	0.00	0.00	
BP	0045	MHC class II biosynthetic process	3/292	233	137	170 3
	342			28	792	646
	GO:		18/	0.00	0.00	
BP	0045	negative regulation of bone resorption	3/292	233	137	170 3
	779			28	792	646
	GO:		18/	0.00	0.00	
BP	0060	morphogenesis of an epithelial bud	3/292	233	137	170 3
	572			28	792	646
	GO:		18/	0.00	0.00	
BP	0060	venous blood vessel development	3/292	233	137	170 3
	841			28	792	646
	GO:		18/	0.00	0.00	
BP	1901	regulation of flagellated sperm motility	3/292	233	137	170 3
	317			28	792	646
	GO:		18/	0.00	0.00	
BP	1904	negative regulation of vascular associated smooth muscle cell proliferation	3/292	233	137	170 3
	706			28	792	646
	GO:		18/	0.00	0.00	
BP	2000	regulation of epithelial cell differentiation involved in kidney development	3/292	233	137	170 3
	696			28	792	646
	GO:		18/	0.00	0.00	
BP	2000	regulation of corticosteroid hormone secretion	3/292	233	137	170 3
	846			28	792	646
	GO:		39/	0.00	0.00	
BP	0003	cardiac atrium development	4/292	233	140	173 4
	230			28	095	034

	GO:		39/	0.00	0.00	
BP	0021 pituitary gland development	4/292	233	140	173	4
	983		28	095	034	
	GO:		39/	0.00	0.00	
BP	0032 positive regulation of ATPase activity	4/292	233	140	173	4
	781		28	095	034	
	GO:		39/	0.00	0.00	
BP	0090 regulation of cell migration involved in sprouting angiogenesis	4/292	233	140	173	4
	049		28	095	034	
	GO:		171	0.00	0.00	
BP	0046 male sex differentiation	8/292	/23	145	179	8
	661		328	033	013	
	GO:		133	0.00	0.00	
BP	0001 neural tube formation	7/292	/23	145	179	7
	841		328	709	727	
	GO:		98/	0.00	0.00	
BP	0072 nephron tubule development	6/292	233	146	180	6
	080		28	815	97	
	GO:		346	0.00	0.00	
BP	0031 response to nutrient levels	12/292	/23	148	182	1
	667		328	125	463	2
	GO:		172	0.00	0.00	
BP	0061 actin filament bundle organization	8/292	/23	150	185	8
	572		328	494	258	
	GO:		67/	0.00	0.00	
BP	0060 lung morphogenesis	5/292	233	152	187	5
	425		28	2	108	
	GO:		67/	0.00	0.00	
BP	1901 fatty acid derivative biosynthetic process	5/292	233	152	187	5
	570		28	2	108	
	GO:		395	0.00	0.00	
BP	0042 regulation of protein catabolic process	13/292	/23	152	187	1
	176		328	474	32	3
	GO:		40/	0.00	0.00	
BP	0032 interleukin-4 production	4/292	233	154	188	4
	633		28	145	745	
	GO:		40/	0.00	0.00	
BP	0038 neurotrophin signaling pathway	4/292	233	154	188	4
	179		28	145	745	
	GO:		40/	0.00	0.00	
BP	0060 type I interferon signaling pathway	4/292	233	154	188	4
	337		28	145	745	

	GO:		40/	0.00	0.00	
BP	0071 cellular response to type I interferon	4/292	233	154	188	4
	357		28	145	745	
	GO:		40/	0.00	0.00	
BP	1902 regulation of neuroblast proliferation	4/292	233	154	188	4
	692		28	145	745	
	GO:		174	0.00	0.00	
BP	1901 response to ketone	8/292	723	161	196	8
	654		328	905	555	
	GO:		19/	0.00	0.00	
BP	0002 hypersensitivity	3/292	233	162	196	3
	524		28	121	555	
	GO:		19/	0.00	0.00	
BP	0032 gonadotropin secretion	3/292	233	162	196	3
	274		28	121	555	
	GO:		19/	0.00	0.00	
BP	0032 interleukin-5 production	3/292	233	162	196	3
	634		28	121	555	
	GO:		19/	0.00	0.00	
BP	0035 corticosteroid hormone secretion	3/292	233	162	196	3
	930		28	121	555	
	GO:		19/	0.00	0.00	
BP	0035 response to muscle stretch	3/292	233	162	196	3
	994		28	121	555	
	GO:		19/	0.00	0.00	
BP	0043 CD4-positive, alpha-beta T cell lineage commitment	3/292	233	162	196	3
	373		28	121	555	
	GO:		19/	0.00	0.00	
BP	0045 negative regulation of gluconeogenesis	3/292	233	162	196	3
	721		28	121	555	
	GO:		19/	0.00	0.00	
BP	0051 keratinocyte migration	3/292	233	162	196	3
	546		28	121	555	
	GO:		19/	0.00	0.00	
BP	0060 spongiotrophoblast layer development	3/292	233	162	196	3
	712		28	121	555	
	GO:		19/	0.00	0.00	
BP	0071 monocyte chemotactic protein-1 production	3/292	233	162	196	3
	605		28	121	555	
	GO:		19/	0.00	0.00	
BP	0071 regulation of monocyte chemotactic protein-1 production	3/292	233	162	196	3
	637		28	121	555	

	GO:		19/	0.00	0.00		
BP	1900	positive regulation of glutamate receptor signaling pathway	3/292	233	162	196	3
	451			28	121	555	
	GO:		19/	0.00	0.00		
BP	1904	positive regulation of vascular associated smooth muscle cell migration	3/292	233	162	196	3
	754			28	121	555	
	GO:		19/	0.00	0.00		
BP	2000	positive regulation of actin cytoskeleton reorganization	3/292	233	162	196	3
	251			28	121	555	
	GO:		68/	0.00	0.00		
BP	0022	telencephalon cell migration	5/292	233	162	197	5
	029			28	624	035	
	GO:		136	0.00	0.00		
BP	0055	digestive system development	7/292	/23	165	200	7
	123			328	629	544	
	GO:		41/	0.00	0.00		
BP	0010	protein kinase A signaling	4/292	233	169	204	4
	737			28	146	266	
	GO:		41/	0.00	0.00		
BP	0048	epidermis morphogenesis	4/292	233	169	204	4
	730			28	146	266	
	GO:		41/	0.00	0.00		
BP	1900	regulation of p38MAPK cascade	4/292	233	169	204	4
	744			28	146	266	
	GO:		41/	0.00	0.00		
BP	1905	positive regulation of morphogenesis of an epithelium	4/292	233	169	204	4
	332			28	146	266	
	GO:		260	0.00	0.00		
BP	0042	response to drug	10/292	/23	170	205	1
	493			328	639	934	0
	GO:		101	0.00	0.00		
BP	0032	positive regulation of protein binding	6/292	/23	171	206	6
	092			328	353	661	
	GO:		69/	0.00	0.00		
BP	0021	diencephalon development	5/292	233	173	209	5
	536			28	563	19	
	GO:		70/	0.00	0.00		
BP	0001	ovarian follicle development	5/292	233	185	222	5
	541			28	032	117	
	GO:		70/	0.00	0.00		
BP	0006	vitamin metabolic process	5/292	233	185	222	5
	766			28	032	117	

	GO:		70/	0.00	0.00		
BP	0045	positive regulation of osteoblast differentiation	5/292	233	185	222	5
	669			28	032	117	
	GO:		70/	0.00	0.00		
BP	0055	cardiac muscle tissue morphogenesis	5/292	233	185	222	5
	008			28	032	117	
	GO:		42/	0.00	0.00		
BP	0006	membrane protein ectodomain proteolysis	4/292	233	185	222	4
	509			28	131	117	
	GO:		42/	0.00	0.00		
BP	0030	positive regulation of bone mineralization	4/292	233	185	222	4
	501			28	131	117	
	GO:		42/	0.00	0.00		
BP	0055	positive regulation of cardiac muscle tissue growth	4/292	233	185	222	4
	023			28	131	117	
	GO:		178	0.00	0.00		
BP	0071	response to BMP	8/292	/23	186	223	8
	772			328	779	802	
	GO:		178	0.00	0.00		
BP	0071	cellular response to BMP stimulus	8/292	/23	186	223	8
	773			328	779	802	
	GO:		139	0.00	0.00		
BP	0008	male gonad development	7/292	/23	187	224	7
	584			328	605	647	
	GO:		20/	0.00	0.00		
BP	0010	positive regulation of fibroblast migration	3/292	233	188	225	3
	763			28	975	119	
	GO:		20/	0.00	0.00		
BP	0010	positive regulation of cholesterol efflux	3/292	233	188	225	3
	875			28	975	119	
	GO:		20/	0.00	0.00		
BP	0010	negative regulation of lipid storage	3/292	233	188	225	3
	888			28	975	119	
	GO:		20/	0.00	0.00		
BP	0021	cell proliferation in hindbrain	3/292	233	188	225	3
	534			28	975	119	
	GO:		20/	0.00	0.00		
BP	0043	myeloid dendritic cell differentiation	3/292	233	188	225	3
	011			28	975	119	
	GO:		20/	0.00	0.00		
BP	0045	negative regulation of smooth muscle contraction	3/292	233	188	225	3
	986			28	975	119	

	GO:		20/	0.00	0.00	
BP	0046 negative regulation of bone remodeling	3/292	233	188	225	3
	851		28	975	119	
	GO:		20/	0.00	0.00	
BP	0050 detection of temperature stimulus involved	3/292	233	188	225	3
	965 in sensory perception of pain		28	975	119	
	GO:		221	0.00	0.00	
BP	0019 viral life cycle	9/292	/23	195	232	9
	058		328	243	435	
	GO:		140	0.00	0.00	
BP	0046 development of primary male sexual	7/292	/23	195	232	7
	546 characteristics		328	412	486	
	GO:		71/	0.00	0.00	
BP	0007 endoderm development	5/292	233	197	233	5
	492		28	046	978	
	GO:		71/	0.00	0.00	
BP	0021 forebrain cell migration	5/292	233	197	233	5
	885		28	046	978	
	GO:		71/	0.00	0.00	
BP	0060 ureteric bud morphogenesis	5/292	233	197	233	5
	675		28	046	978	
	GO:		222	0.00	0.00	
BP	0030 regulation of endocytosis	9/292	/23	201	238	9
	100		328	316	741	
	GO:		222	0.00	0.00	
BP	0045 positive regulation of protein catabolic	9/292	/23	201	238	9
	732 process		328	316	741	
	GO:		43/	0.00	0.00	
BP	0046 positive regulation of glucose import	4/292	233	202	239	4
	326		28	133	403	
	GO:		43/	0.00	0.00	
BP	1903 negative regulation of anion transport	4/292	233	202	239	4
	792		28	133	403	
	GO:		105	0.00	0.00	
BP	0002 myeloid leukocyte mediated immunity	6/292	/23	208	247	6
	444		328	767	101	
	GO:		72/	0.00	0.00	
BP	0007 adenylate cyclase-inhibiting G protein-	5/292	233	209	247	5
	193 coupled receptor signaling pathway		28	62	792	
	GO:		72/	0.00	0.00	
BP	0072 mesonephric tubule morphogenesis	5/292	233	209	247	5
	171		28	62	792	

	GO:		21/	0.00	0.00	
BP	0002 alpha-beta T cell lineage commitment	3/292	233	218	255	3
	363		28	444	603	
	GO:		21/	0.00	0.00	
BP	0003 pulmonary valve development	3/292	233	218	255	3
	177		28	444	603	
	GO:		21/	0.00	0.00	
BP	0007 activation of adenylate cyclase activity	3/292	233	218	255	3
	190		28	444	603	
	GO:		21/	0.00	0.00	
BP	0009 vitamin biosynthetic process	3/292	233	218	255	3
	110		28	444	603	
	GO:		21/	0.00	0.00	
BP	0010 regulation of receptor biosynthetic process	3/292	233	218	255	3
	869		28	444	603	
	GO:		21/	0.00	0.00	
BP	0032 positive regulation of icosanoid secretion	3/292	233	218	255	3
	305		28	444	603	
	GO:		21/	0.00	0.00	
BP	0033 positive regulation of cell adhesion mediated by integrin	3/292	233	218	255	3
	630		28	444	603	
	GO:		21/	0.00	0.00	
BP	0034 response to prostaglandin	3/292	233	218	255	3
	694		28	444	603	
	GO:		21/	0.00	0.00	
BP	0045 T-helper 1 cell differentiation	3/292	233	218	255	3
	063		28	444	603	
	GO:		21/	0.00	0.00	
BP	0046 negative regulation of glucose import	3/292	233	218	255	3
	325		28	444	603	
	GO:		21/	0.00	0.00	
BP	0046 decidualization	3/292	233	218	255	3
	697		28	444	603	
	GO:		21/	0.00	0.00	
BP	0048 parasympathetic nervous system development	3/292	233	218	255	3
	486		28	444	603	
	GO:		21/	0.00	0.00	
BP	0050 detection of mechanical stimulus involved in sensory perception of pain	3/292	233	218	255	3
	966		28	444	603	
	GO:		21/	0.00	0.00	
BP	0060 angiogenesis involved in wound healing	3/292	233	218	255	3
	055		28	444	603	

	GO:			21/	0.00	0.00	
BP	0060	positive regulation of digestive system	3/292	233	218	255	3
	456	process		28	444	603	
	GO:			21/	0.00	0.00	
BP	0090	positive regulation of cell migration involved	3/292	233	218	255	3
	050	in sprouting angiogenesis		28	444	603	
	GO:			44/	0.00	0.00	
BP	0010	regulation of glycoprotein biosynthetic	4/292	233	220	256	4
	559	process		28	184	826	
	GO:			44/	0.00	0.00	
BP	0033	regulation of cell adhesion mediated by	4/292	233	220	256	4
	628	integrin		28	184	826	
	GO:			44/	0.00	0.00	
BP	0045	positive regulation of Notch signaling	4/292	233	220	256	4
	747	pathway		28	184	826	
	GO:			44/	0.00	0.00	
BP	0071	cellular response to glucocorticoid stimulus	4/292	233	220	256	4
	385			28	184	826	
	GO:			44/	0.00	0.00	
BP	1903	positive regulation of sprouting angiogenesis	4/292	233	220	256	4
	672			28	184	826	
	GO:			73/	0.00	0.00	
BP	0002	regulation of myeloid leukocyte mediated	5/292	233	222	259	5
	886	immunity		28	769	676	
	GO:			144	0.00	0.00	
BP	0090	positive regulation of intracellular protein	7/292	/23	229	266	7
	316	transport		328	184	986	
	GO:			107	0.00	0.00	
BP	0110	regulation of actomyosin structure	6/292	/23	229	267	6
	020	organization		328	638	345	
	GO:			185	0.00	0.00	
BP	0009	response to glucose	8/292	/23	237	276	8
	749			328	478	299	
	GO:			45/	0.00	0.00	
BP	0010	regulation of mesenchymal cell proliferation	4/292	233	239	277	4
	464			28	317	912	
	GO:			45/	0.00	0.00	
BP	0060	positive regulation of heart growth	4/292	233	239	277	4
	421			28	317	912	
	GO:			45/	0.00	0.00	
BP	1901	regulation of response to reactive oxygen	4/292	233	239	277	4
	031	species		28	317	912	

	GO:		108	0.00	0.00	
BP	0060 artery development	6/292	/23	240	279	6
	840		328	644	278	
	GO:		273	0.00	0.00	1
BP	0110 regulation of actin filament organization	10/292	/23	243	282	0
	053		328	484	396	
	GO:		22/	0.00	0.00	
BP	0032 interleukin-13 production	3/292	233	250	289	3
	616		28	61	206	
	GO:		22/	0.00	0.00	
BP	0045 negative regulation of epidermis development	3/292	233	250	289	3
	683		28	61	206	
	GO:		22/	0.00	0.00	
BP	0048 anatomical structure arrangement	3/292	233	250	289	3
	532		28	61	206	
	GO:		22/	0.00	0.00	
BP	0051 killing by host of symbiont cells	3/292	233	250	289	3
	873		28	61	206	
	GO:		22/	0.00	0.00	
BP	0072 regulation of metanephros development	3/292	233	250	289	3
	215		28	61	206	
	GO:		22/	0.00	0.00	
BP	1903 positive regulation of extracellular matrix organization	3/292	233	250	289	3
	055		28	61	206	
	GO:		22/	0.00	0.00	
BP	2000 positive regulation of protein localization to cell surface	3/292	233	250	289	3
	010		28	61	206	
	GO:		22/	0.00	0.00	
BP	2001 regulation of endothelial cell chemotaxis	3/292	233	250	289	3
	026		28	61	206	
	GO:		75/	0.00	0.00	
BP	0046 regulation of insulin receptor signaling pathway	5/292	233	250	289	5
	626		28	854	308	
	GO:		46/	0.00	0.00	
BP	0031 regulation of protein autophosphorylation	4/292	233	259	298	4
	952		28	562	79	
	GO:		46/	0.00	0.00	
BP	0043 keratinocyte proliferation	4/292	233	259	298	4
	616		28	562	79	
	GO:		46/	0.00	0.00	
BP	0071 cellular response to corticosteroid stimulus	4/292	233	259	298	4
	384		28	562	79	

	GO:		188	0.00	0.00	
BP	0009 response to hexose	8/292	/23	262	301	8
	746		328	256	515	
	GO:		188	0.00	0.00	
BP	0010 positive regulation of cell morphogenesis	8/292	/23	262	301	8
	770 involved in differentiation		328	256	515	
	GO:		110	0.00	0.00	
BP	0032 regulation of actin filament bundle assembly	6/292	/23	263	303	6
	231		328	842	15	
	GO:		232	0.00	0.00	
BP	0033 regulation of intracellular protein transport	9/292	/23	270	310	9
	157		328	729	869	
	GO:		189	0.00	0.00	
BP	0034 response to monosaccharide	8/292	/23	270	310	8
	284		328	95	896	
	GO:		422	0.00	0.00	
BP	0060 anatomical structure homeostasis	13/292	/23	271	310	1
	249		328	09	896	3
	GO:		47/	0.00	0.00	
BP	0043 T cell homeostasis	4/292	233	280	321	4
	029		28	952	807	
	GO:		47/	0.00	0.00	
BP	0060 regulation of gene silencing by miRNA	4/292	233	280	321	4
	964		28	952	807	
	GO:		23/	0.00	0.00	
BP	0002 mature B cell differentiation involved in	3/292	233	285	324	3
	313 immune response		28	554	459	
	GO:		23/	0.00	0.00	
BP	0003 aortic valve development	3/292	233	285	324	3
	176		28	554	459	
	GO:		23/	0.00	0.00	
BP	0003 atrial septum development	3/292	233	285	324	3
	283		28	554	459	
	GO:		23/	0.00	0.00	
BP	0010 positive regulation of glycoprotein	3/292	233	285	324	3
	560 biosynthetic process		28	554	459	
	GO:		23/	0.00	0.00	
BP	0043 CD4-positive or CD8-positive, alpha-beta T	3/292	233	285	324	3
	369 cell lineage commitment		28	554	459	
	GO:		23/	0.00	0.00	
BP	0048 sympathetic nervous system development	3/292	233	285	324	3
	485		28	554	459	

	GO:		23/	0.00	0.00		
BP	0050	positive regulation of antigen receptor-mediated signaling pathway	3/292	233	285	324	3
	857			28	554	459	
	GO:		23/	0.00	0.00		
BP	0050	detection of temperature stimulus involved in sensory perception	3/292	233	285	324	3
	961			28	554	459	
	GO:		23/	0.00	0.00		
BP	0071	cellular response to dsRNA	3/292	233	285	324	3
	359			28	554	459	
	GO:		23/	0.00	0.00		
BP	0072	cell differentiation involved in metanephros development	3/292	233	285	324	3
	202			28	554	459	
	GO:		23/	0.00	0.00		
BP	0090	positive regulation of branching involved in ureteric bud morphogenesis	3/292	233	285	324	3
	190			28	554	459	
	GO:		23/	0.00	0.00		
BP	0101	vascular endothelial cell proliferation	3/292	233	285	324	3
	023			28	554	459	
	GO:		23/	0.00	0.00		
BP	1905	regulation of vascular endothelial cell proliferation	3/292	233	285	324	3
	562			28	554	459	
	GO:		426	0.00	0.00		
BP	0072	establishment of protein localization to organelle	13/292	/23	293	333	1
	594			328	803	627	3
	GO:		78/	0.00	0.00		
BP	0014	striated muscle cell proliferation	5/292	233	297	337	5
	855			28	68	822	
	GO:		151	0.00	0.00		
BP	0072	nephron development	7/292	/23	298	339	7
	006			328	927	029	
	GO:		48/	0.00	0.00		
BP	0010	regulation of lipid storage	4/292	233	303	343	4
	883			28	518	812	
	GO:		48/	0.00	0.00		
BP	0038	p38MAPK cascade	4/292	233	303	343	4
	066			28	518	812	
	GO:		479	0.00	0.00		
BP	0050	synapse organization	14/292	/23	303	343	1
	808			328	813	935	4
	GO:		379	0.00	0.00		
BP	0051	regulation of DNA metabolic process	12/292	/23	313	354	1
	052			328	181	324	2

	GO:		79/	0.00	0.00	
BP	0055 regulation of cardiac muscle tissue growth	5/292	233	314	355	5
	021		28	602	713	
	GO:		114	0.00	0.00	
BP	0001 embryonic placenta development	6/292	/23	315	356	6
	892		328	224	198	
	GO:		194	0.00	0.00	
BP	0021 neural tube development	8/292	/23	317	358	8
	915		328	85	946	
	GO:		24/	0.00	0.00	
BP	0002 leukocyte migration involved in inflammatory response	3/292	233	323	363	3
	523		28	351	379	
	GO:		24/	0.00	0.00	
BP	0002 regulation of acute inflammatory response to antigenic stimulus	3/292	233	323	363	3
	864		28	351	379	
	GO:		24/	0.00	0.00	
BP	0003 atrioventricular valve morphogenesis	3/292	233	323	363	3
	181		28	351	379	
	GO:		24/	0.00	0.00	
BP	0003 endocardial cushion formation	3/292	233	323	363	3
	272		28	351	379	
	GO:		24/	0.00	0.00	
BP	0007 protein kinase C-activating G protein-coupled receptor signaling pathway	3/292	233	323	363	3
	205		28	351	379	
	GO:		24/	0.00	0.00	
BP	0048 regulation of collateral sprouting	3/292	233	323	363	3
	670		28	351	379	
	GO:		24/	0.00	0.00	
BP	0050 negative regulation of defense response to virus	3/292	233	323	363	3
	687		28	351	379	
	GO:		24/	0.00	0.00	
BP	0072 metanephric epithelium development	3/292	233	323	363	3
	207		28	351	379	
	GO:		49/	0.00	0.00	
BP	0035 production of miRNAs involved in gene silencing by miRNA	4/292	233	327	366	4
	196		28	29	688	
	GO:		49/	0.00	0.00	
BP	0042 eating behavior	4/292	233	327	366	4
	755		28	29	688	
	GO:		49/	0.00	0.00	
BP	0061 establishment of endothelial barrier	4/292	233	327	366	4
	028		28	29	688	

	GO:		49/	0.00	0.00		
BP	1902	regulation of extrinsic apoptotic signaling pathway via death domain receptors	4/292	233	327	366	4
	041			28	29	688	
	GO:		49/	0.00	0.00		
BP	1905	negative regulation of lipid localization	4/292	233	327	366	4
	953			28	29	688	
	GO:		80/	0.00	0.00		
BP	0072	nephron tubule morphogenesis	5/292	233	332	371	5
	078			28	207	972	
	GO:		116	0.00	0.00		
BP	0042	inner ear morphogenesis	6/292	723	343	384	6
	472			328	549	438	
	GO:		50/	0.00	0.00		
BP	0032	negative regulation of interleukin-6 production	4/292	233	352	393	4
	715			28	299	038	
	GO:		50/	0.00	0.00		
BP	0060	regulation of posttranscriptional gene silencing	4/292	233	352	393	4
	147			28	299	038	
	GO:		50/	0.00	0.00		
BP	0060	regulation of gene silencing by RNA	4/292	233	352	393	4
	966			28	299	038	
	GO:		50/	0.00	0.00		
BP	0070	positive regulation of biomineral tissue development	4/292	233	352	393	4
	169			28	299	038	
	GO:		50/	0.00	0.00		
BP	0110	positive regulation of biomineralization	4/292	233	352	393	4
	151			28	299	038	
	GO:		25/	0.00	0.00		
BP	0032	negative regulation of interleukin-2 production	3/292	233	364	403	3
	703			28	073	49	
	GO:		25/	0.00	0.00		
BP	0032	positive regulation of interleukin-4 production	3/292	233	364	403	3
	753			28	073	49	
	GO:		25/	0.00	0.00		
BP	0046	negative regulation of receptor signaling pathway via JAK-STAT	3/292	233	364	403	3
	426			28	073	49	
	GO:		25/	0.00	0.00		
BP	0060	regulation of cilium movement involved in cell motility	3/292	233	364	403	3
	295			28	073	49	
	GO:		25/	0.00	0.00		
BP	0061	positive regulation of mesonephros development	3/292	233	364	403	3
	213			28	073	49	

	GO:			25/	0.00	0.00	
BP	1901	negative regulation of response to reactive oxygen species	3/292	233	364	403	3
	032			28	073	49	
	GO:			25/	0.00	0.00	
BP	1902	regulation of cilium-dependent cell motility	3/292	233	364	403	3
	019			28	073	49	
	GO:			25/	0.00	0.00	
BP	1902	positive regulation of amyloid precursor protein catabolic process	3/292	233	364	403	3
	993			28	073	49	
	GO:			25/	0.00	0.00	
BP	1903	positive regulation of glycoprotein metabolic process	3/292	233	364	403	3
	020			28	073	49	
	GO:			25/	0.00	0.00	
BP	1903	negative regulation of hydrogen peroxide-induced cell death	3/292	233	364	403	3
	206			28	073	49	
	GO:			25/	0.00	0.00	
BP	2000	positive regulation of fatty acid transport	3/292	233	364	403	3
	193			28	073	49	
	GO:			82/	0.00	0.00	
BP	0001	positive regulation of leukocyte mediated cytotoxicity	5/292	233	369	409	5
	912			28	525	041	
	GO:			82/	0.00	0.00	
BP	0050	negative regulation of synaptic transmission	5/292	233	369	409	5
	805			28	525	041	
	GO:			51/	0.00	0.00	
BP	0031	dsRNA processing	4/292	233	378	417	4
	050			28	576	806	
	GO:			51/	0.00	0.00	
BP	0043	mast cell degranulation	4/292	233	378	417	4
	303			28	576	806	
	GO:			51/	0.00	0.00	
BP	0060	regulation of cardiac muscle cell proliferation	4/292	233	378	417	4
	043			28	576	806	
	GO:			51/	0.00	0.00	
BP	0060	ventricular septum morphogenesis	4/292	233	378	417	4
	412			28	576	806	
	GO:			51/	0.00	0.00	
BP	0070	production of small RNA involved in gene silencing by RNA	4/292	233	378	417	4
	918			28	576	806	
	GO:			158	0.00	0.00	
BP	0034	positive regulation of cellular amide metabolic process	7/292	/23	383	423	7
	250			328	865	138	

	GO:		158	0.00	0.00	
BP	0055 monovalent inorganic cation homeostasis	7/292	/23	383	423	7
	067		328	865	138	
	GO:		83/	0.00	0.00	
BP	0030 platelet activation	5/292	233	389	428	5
	168		28	269	583	
	GO:		83/	0.00	0.00	
BP	0060 muscle tissue morphogenesis	5/292	233	389	428	5
	415		28	269	583	
	GO:		159	0.00	0.00	
BP	1903 regulation of viral life cycle	7/292	/23	397	437	7
	900		328	355	224	
	GO:		52/	0.00	0.00	
BP	0002 mast cell activation involved in immune response	4/292	233	406	444	4
	279		28	149	989	
	GO:		52/	0.00	0.00	
BP	0002 mast cell mediated immunity	4/292	233	406	444	4
	448		28	149	989	
	GO:		52/	0.00	0.00	
BP	0045 positive regulation of muscle contraction	4/292	233	406	444	4
	933		28	149	989	
	GO:		52/	0.00	0.00	
BP	0060 adipose tissue development	4/292	233	406	444	4
	612		28	149	989	
	GO:		26/	0.00	0.00	
BP	0001 neutrophil homeostasis	3/292	233	407	444	3
	780		28	788	989	
	GO:		26/	0.00	0.00	
BP	0003 positive regulation of systemic arterial blood pressure	3/292	233	407	444	3
	084		28	788	989	
	GO:		26/	0.00	0.00	
BP	0032 regulation of icosanoid secretion	3/292	233	407	444	3
	303		28	788	989	
	GO:		26/	0.00	0.00	
BP	0034 positive regulation of toll-like receptor signaling pathway	3/292	233	407	444	3
	123		28	788	989	
	GO:		26/	0.00	0.00	
BP	0060 uterus development	3/292	233	407	444	3
	065		28	788	989	
	GO:		26/	0.00	0.00	
BP	0060 regulation of type I interferon-mediated signaling pathway	3/292	233	407	444	3
	338		28	788	989	

	GO:		26/	0.00	0.00	
BP	0071 cellular response to dexamethasone stimulus	3/292	233	407	444	3
	549		28	788	989	
	GO:		26/	0.00	0.00	
BP	0090 regulation of branching involved in ureteric bud morphogenesis	3/292	233	407	444	3
	189		28	788	989	
	GO:		26/	0.00	0.00	
BP	0090 positive regulation of calcium ion import	3/292	233	407	444	3
	280		28	788	989	
	GO:		26/	0.00	0.00	
BP	1904 negative regulation of receptor signaling pathway via STAT	3/292	233	407	444	3
	893		28	788	989	
	GO:		84/	0.00	0.00	
BP	0003 outflow tract morphogenesis	5/292	233	409	446	5
	151		28	757	873	
	GO:		121	0.00	0.00	
BP	0046 regulation of organ growth	6/292	/23	422	460	6
	620		328	621	631	
	GO:		161	0.00	0.00	
BP	0006 steroid biosynthetic process	7/292	/23	425	463	7
	694		328	41	396	
	GO:		53/	0.00	0.00	
BP	0001 negative regulation of cytokine-mediated signaling pathway	4/292	233	435	472	4
	960		28	048	501	
	GO:		53/	0.00	0.00	
BP	0032 regulation of sterol transport	4/292	233	435	472	4
	371		28	048	501	
	GO:		53/	0.00	0.00	
BP	0032 regulation of cholesterol transport	4/292	233	435	472	4
	374		28	048	501	
	GO:		53/	0.00	0.00	
BP	0032 negative regulation of tumor necrosis factor production	4/292	233	435	472	4
	720		28	048	501	
	GO:		53/	0.00	0.00	
BP	0061 trabecula morphogenesis	4/292	233	435	472	4
	383		28	048	501	
	GO:		205	0.00	0.00	
BP	0048 cell maturation	8/292	/23	443	481	8
	469		328	16	028	
	GO:		86/	0.00	0.00	
BP	0061 renal tubule morphogenesis	5/292	233	453	490	5
	333		28	024	514	

	GO:		27/	0.00	0.00	
BP	0003 atrioventricular valve development	3/292	233	454	490	3
	171		28	558	514	
	GO:		27/	0.00	0.00	
BP	0003 metanephros morphogenesis	3/292	233	454	490	3
	338		28	558	514	
	GO:		27/	0.00	0.00	
BP	0032 regulation of activin receptor signaling pathway	3/292	233	454	490	3
	925		28	558	514	
	GO:		27/	0.00	0.00	
BP	0039 cytoplasmic pattern recognition receptor signaling pathway in response to virus	3/292	233	454	490	3
	528		28	558	514	
	GO:		27/	0.00	0.00	
BP	0042 positive regulation of circadian rhythm	3/292	233	454	490	3
	753		28	558	514	
	GO:		27/	0.00	0.00	
BP	0060 positive regulation of cardiac muscle cell proliferation	3/292	233	454	490	3
	045		28	558	514	
	GO:		27/	0.00	0.00	
BP	1900 positive regulation of cytokine production involved in inflammatory response	3/292	233	454	490	3
	017		28	558	514	
	GO:		27/	0.00	0.00	
BP	1900 regulation of receptor binding	3/292	233	454	490	3
	120		28	558	514	
	GO:		27/	0.00	0.00	
BP	2000 positive regulation of cardiac muscle cell differentiation	3/292	233	454	490	3
	727		28	558	514	
	GO:		206	0.00	0.00	
BP	1902 regulation of organelle assembly	8/292	/23	456	491	8
	115		328	2	999	
	GO:		123	0.00	0.00	
BP	0048 digestive tract development	6/292	/23	457	493	6
	565		328	743	374	
	GO:		54/	0.00	0.00	
BP	0051 positive regulation of amine transport	4/292	233	465	500	4
	954		28	303	353	
	GO:		54/	0.00	0.00	
BP	0061 chaperone-mediated protein folding	4/292	233	465	500	4
	077		28	303	353	
	GO:		54/	0.00	0.00	
BP	1902 regulation of alcohol biosynthetic process	4/292	233	465	500	4
	930		28	303	353	

	GO:		54/	0.00	0.00	
BP	1903	negative regulation of tumor necrosis factor superfamily cytokine production	4/292	233	465	500
	556			28	303	353
	GO:		451/	0.00	0.00	
BP	0045	negative regulation of cell cycle	13/292	723	473	508
	786			328	528	902
	GO:		87/	0.00	0.00	
BP	0060	regulation of heart growth	5/292	233	475	511
	420			28	833	081
	GO:		55/	0.00	0.00	
BP	0045	negative regulation of carbohydrate metabolic process	4/292	233	496	533
	912			28	94	298
	GO:		209/	0.00	0.00	
BP	0098	cell-cell adhesion via plasma-membrane adhesion molecules	8/292	723	497	533
	742			328	095	298
	GO:		88/	0.00	0.00	
BP	0008	regulation of Notch signaling pathway	5/292	233	499	535
	593			28	446	509
	GO:		28/	0.00	0.00	
BP	0007	synaptic transmission, cholinergic	3/292	233	504	538
	271			28	443	674
	GO:		28/	0.00	0.00	
BP	0010	regulation of protein kinase A signaling	3/292	233	504	538
	738			28	443	674
	GO:		28/	0.00	0.00	
BP	0045	thymic T cell selection	3/292	233	504	538
	061			28	443	674
	GO:		28/	0.00	0.00	
BP	0045	positive regulation of erythrocyte differentiation	3/292	233	504	538
	648			28	443	674
	GO:		28/	0.00	0.00	
BP	0061	regulation of mesonephros development	3/292	233	504	538
	217			28	443	674
	GO:		28/	0.00	0.00	
BP	1900	positive regulation of p38MAPK cascade	3/292	233	504	538
	745			28	443	674
	GO:		28/	0.00	0.00	
BP	1903	negative regulation of sprouting angiogenesis	3/292	233	504	538
	671			28	443	674
	GO:		89/	0.00	0.00	
BP	0001	metanephros development	5/292	233	523	558
	656			28	879	783

	GO:		89/	0.00	0.00	
BP	0051 interaction with symbiont	5/292	233	523	558	5
	702		28	879	783	
	GO:		405	0.00	0.00	
BP	0051 negative regulation of hydrolase activity	12/292	/23	528	563	1
	346		328	658	555	2
	GO:		56/	0.00	0.00	
BP	0050 negative regulation of peptidyl-tyrosine phosphorylation	4/292	233	529	564	4
	732		28	989	322	
	GO:		56/	0.00	0.00	
BP	0050 brown fat cell differentiation	4/292	233	529	564	4
	873		28	989	322	
	GO:		127	0.00	0.00	
BP	0051 regulation of DNA binding	6/292	/23	534	568	6
	101		328	372	66	
	GO:		90/	0.00	0.00	
BP	0019 transmission of nerve impulse	5/292	233	549	584	5
	226		28	145	044	
	GO:		29/	0.00	0.00	
BP	0010 positive regulation of steroid biosynthetic process	3/292	233	557	590	3
	893		28	498	885	
	GO:		29/	0.00	0.00	
BP	0045 intermediate filament organization	3/292	233	557	590	3
	109		28	498	885	
	GO:		29/	0.00	0.00	
BP	0045 regulation of regulatory T cell differentiation	3/292	233	557	590	3
	589		28	498	885	
	GO:		29/	0.00	0.00	
BP	0060 morphogenesis of an epithelial fold	3/292	233	557	590	3
	571		28	498	885	
	GO:		29/	0.00	0.00	
BP	0071 response to dexamethasone	3/292	233	557	590	3
	548		28	498	885	
	GO:		29/	0.00	0.00	
BP	1900 positive regulation of cellular response to insulin stimulus	3/292	233	557	590	3
	078		28	498	885	
	GO:		408	0.00	0.00	
BP	0006 fatty acid metabolic process	12/292	/23	559	592	1
	631		328	694	872	2
	GO:		57/	0.00	0.00	
BP	0002 glandular epithelial cell differentiation	4/292	233	564	596	4
	067		28	476	568	

	GO:		57/	0.00	0.00		
BP	0007	respiratory gaseous exchange by respiratory system	4/292	233	564	596	4
	585			28	476	568	
	GO:		57/	0.00	0.00		
BP	0010	mesenchymal cell proliferation	4/292	233	564	596	4
	463			28	476	568	
	GO:		57/	0.00	0.00		
BP	0060	negative regulation of response to cytokine stimulus	4/292	233	564	596	4
	761			28	476	568	
	GO:		308	0.00	0.00		1
BP	0006	nucleocytoplasmic transport	10/292	/23	568	599	0
	913			328	112	724	
	GO:		308	0.00	0.00		1
BP	0051	nuclear transport	10/292	/23	568	599	0
	169			328	112	724	
	GO:		214	0.00	0.00		
BP	0007	cell-matrix adhesion	8/292	/23	571	602	8
	160			328	425	876	
	GO:		91/	0.00	0.00		
BP	0040	regulation of multicellular organism growth	5/292	233	575	606	5
	014			28	259	574	
	GO:		215	0.00	0.00		
BP	1901	regulation of cell junction assembly	8/292	/23	587	618	8
	888			328	256	87	
	GO:		130	0.00	0.00		
BP	0050	T cell receptor signaling pathway	6/292	/23	597	629	6
	852			328	717	535	
	GO:		58/	0.00	0.00		
BP	0035	response to interferon-beta	4/292	233	600	631	4
	456			28	429	31	
	GO:		58/	0.00	0.00		
BP	0042	natural killer cell mediated cytotoxicity	4/292	233	600	631	4
	267			28	429	31	
	GO:		58/	0.00	0.00		
BP	0051	regulation of meiotic cell cycle	4/292	233	600	631	4
	445			28	429	31	
	GO:		311	0.00	0.00		1
BP	0009	negative regulation of catabolic process	10/292	/23	606	637	0
	895			328	891	378	
	GO:		311	0.00	0.00		1
BP	0090	sensory organ morphogenesis	10/292	/23	606	637	0
	596			328	891	378	

	GO:		30/	0.00	0.00	
BP	0002 T cell lineage commitment	3/292	233	613	642	3
	360		28	778	782	
	GO:		30/	0.00	0.00	
BP	0010 regulation of cholesterol efflux	3/292	233	613	642	3
	874		28	778	782	
	GO:		30/	0.00	0.00	
BP	0050 sensory perception of temperature stimulus	3/292	233	613	642	3
	951		28	778	782	
	GO:		30/	0.00	0.00	
BP	0051 positive regulation of amino acid transport	3/292	233	613	642	3
	957		28	778	782	
	GO:		30/	0.00	0.00	
BP	0060 cardiac epithelial to mesenchymal transition	3/292	233	613	642	3
	317		28	778	782	
	GO:		217	0.00	0.00	
BP	0007 circadian rhythm	8/292	/23	619	648	8
	623		328	917	194	
	GO:		217	0.00	0.00	
BP	0031 cellular response to extracellular stimulus	8/292	/23	619	648	8
	668		328	917	194	
	GO:		131	0.00	0.00	
BP	0031 receptor internalization	6/292	/23	619	648	6
	623		328	999	194	
	GO:		93/	0.00	0.00	
BP	0002 regulation of sodium ion transport	5/292	233	630	658	5
	028		28	093	374	
	GO:		59/	0.00	0.00	
BP	0043 regulation of ATPase activity	4/292	233	637	666	4
	462		28	874	126	
	GO:		132	0.00	0.00	
BP	0009 detection of abiotic stimulus	6/292	/23	642	670	6
	582		328	88	975	
	GO:		10/	0.00	0.00	
BP	0002 marginal zone B cell differentiation	2/292	233	657	677	2
	315		28	565	11	
	GO:		10/	0.00	0.00	
BP	0002 positive regulation of tolerance induction	2/292	233	657	677	2
	645		28	565	11	
	GO:		10/	0.00	0.00	
BP	0003 membranous septum morphogenesis	2/292	233	657	677	2
	149		28	565	11	

	GO:		10/	0.00	0.00	
BP	0006 ornithine metabolic process	2/292	233	657	677	2
	591		28	565	11	
	GO:		10/	0.00	0.00	
BP	0010 regulation of alkaline phosphatase activity	2/292	233	657	677	2
	692		28	565	11	
	GO:		10/	0.00	0.00	
BP	0010 negative regulation of macrophage derived foam cell differentiation	2/292	233	657	677	2
	745		28	565	11	
	GO:		10/	0.00	0.00	
BP	0021 facial nerve structural organization	2/292	233	657	677	2
	612		28	565	11	
	GO:		10/	0.00	0.00	
BP	0021 substrate-independent telencephalic tangential migration	2/292	233	657	677	2
	826		28	565	11	
	GO:		10/	0.00	0.00	
BP	0021 substrate-independent telencephalic tangential interneuron migration	2/292	233	657	677	2
	843		28	565	11	
	GO:		10/	0.00	0.00	
BP	0032 positive regulation of activin receptor signaling pathway	2/292	233	657	677	2
	927		28	565	11	
	GO:		10/	0.00	0.00	
BP	0033 regulation of neutrophil apoptotic process	2/292	233	657	677	2
	029		28	565	11	
	GO:		10/	0.00	0.00	
BP	0035 dorsal aorta development	2/292	233	657	677	2
	907		28	565	11	
	GO: negative regulation of viral-induced		10/	0.00	0.00	
BP	0039 cytoplasmic pattern recognition receptor signaling pathway	2/292	233	657	677	2
	532		28	565	11	
	GO:		10/	0.00	0.00	
BP	0051 negative regulation of nitric-oxide synthase activity	2/292	233	657	677	2
	001		28	565	11	
	GO:		10/	0.00	0.00	
BP	0060 lung-associated mesenchyme development	2/292	233	657	677	2
	484		28	565	11	
	GO:		10/	0.00	0.00	
BP	0060 prostatic bud formation	2/292	233	657	677	2
	513		28	565	11	
	GO:		10/	0.00	0.00	
BP	0060 chorio-allantoic fusion	2/292	233	657	677	2
	710		28	565	11	

	GO:		10/	0.00	0.00	
BP	0060	positive regulation of macrophage cytokine production	2/292	233	657	677 2
	907			28	565	11
	GO:		10/	0.00	0.00	
BP	0070	response to lipoteichoic acid	2/292	233	657	677 2
	391			28	565	11
	GO:		10/	0.00	0.00	
BP	0070	response to interleukin-18	2/292	233	657	677 2
	673			28	565	11
	GO:		10/	0.00	0.00	
BP	0070	regulation of bile acid biosynthetic process	2/292	233	657	677 2
	857			28	565	11
	GO:		10/	0.00	0.00	
BP	0071	cellular response to lipoteichoic acid	2/292	233	657	677 2
	223			28	565	11
	GO:		10/	0.00	0.00	
BP	0090	positive regulation of extracellular matrix disassembly	2/292	233	657	677 2
	091			28	565	11
	GO:		10/	0.00	0.00	
BP	0090	regulation of pancreatic juice secretion	2/292	233	657	677 2
	186			28	565	11
	GO:		94/	0.00	0.00	
BP	0015	fatty acid transport	5/292	233	658	678 5
	908			28	842	046
	GO:		133	0.00	0.00	
BP	0009	detection of external stimulus	6/292	/23	666	685 6
	581			328	369	41
	GO:		31/	0.00	0.00	
BP	0007	sex determination	3/292	233	673	689 3
	530			28	329	494
	GO:		31/	0.00	0.00	
BP	0032	positive regulation of sterol transport	3/292	233	673	689 3
	373			28	329	494
	GO:		31/	0.00	0.00	
BP	0032	positive regulation of cholesterol transport	3/292	233	673	689 3
	376			28	329	494
	GO:		31/	0.00	0.00	
BP	0050	leukocyte tethering or rolling	3/292	233	673	689 3
	901			28	329	494
	GO:		31/	0.00	0.00	
BP	0061	positive regulation of cartilage development	3/292	233	673	689 3
	036			28	329	494

	GO:		31/	0.00	0.00	
BP	0061 negative regulation of cartilage development	3/292	233	673	689	3
	037		28	329	494	
	GO:		31/	0.00	0.00	
BP	1901 negative regulation of cell junction assembly	3/292	233	673	689	3
	889		28	329	494	
	GO:		31/	0.00	0.00	
BP	1902 positive regulation of alcohol biosynthetic process	3/292	233	673	689	3
	932		28	329	494	
	GO:		60/	0.00	0.00	
BP	0048 positive regulation of receptor-mediated endocytosis	4/292	233	676	692	4
	260		28	836	701	
	GO:		176	0.00	0.00	
BP	2001 regulation of cation channel activity	7/292	/23	686	701	7
	257		328	128	822	
	GO:		95/	0.00	0.00	
BP	0007 integrin-mediated signaling pathway	5/292	233	688	703	5
	229		28	497	465	
	GO:		95/	0.00	0.00	
BP	0021 central nervous system neuron development	5/292	233	688	703	5
	954		28	497	465	
	GO:		177	0.00	0.00	
BP	0035 cardiocyte differentiation	7/292	/23	706	721	7
	051		328	956	926	
	GO:		135	0.00	0.00	
BP	0030 positive regulation of Wnt signaling pathway	6/292	/23	715	729	6
	177		328	204	945	
	GO:		61/	0.00	0.00	
BP	0002 natural killer cell mediated immunity	4/292	233	717	731	4
	228		28	341	721	
	GO:		370	0.00	0.00	
BP	1902 regulation of supramolecular fiber organization	11/292	/23	725	739	1
	903		328	156	284	1
	GO:		32/	0.00	0.00	
BP	0001 maternal placenta development	3/292	233	736	748	3
	893		28	197	472	
	GO:		32/	0.00	0.00	
BP	0008 bile acid metabolic process	3/292	233	736	748	3
	206		28	197	472	
	GO:		32/	0.00	0.00	
BP	0032 regulation of interleukin-4 production	3/292	233	736	748	3
	673		28	197	472	

	GO:		32/	0.00	0.00		
BP	0048 collateral sprouting	3/292	233	736	748	3	
	668		28	197	472		
	GO:		32/	0.00	0.00		
BP	0060 coronary vasculature morphogenesis	3/292	233	736	748	3	
	977		28	197	472		
	GO:		271	0.00	0.00		
BP	0051 regulation of small GTPase mediated signal transduction	9/292	/23	738	750	9	
	056		328	549	45		
	GO:		97/	0.00	0.00		
BP	0045 regulation of viral genome replication	5/292	233	750	762	5	
	069		28	584	26		
	GO:		478	0.00	0.00		
BP	0007 pattern specification process	13/292	/23	757	769	1	
	389		328	673	035	3	
	GO:		62/	0.00	0.00		
BP	0031 endocrine pancreas development	4/292	233	759	770	4	
	018		28	414	379		
	GO:		225	0.00	0.00		
BP	0051 positive regulation of cytoskeleton organization	8/292	/23	764	775	8	
	495		328	529	142		
	GO:		426	0.00	0.00		
BP	0034 cell junction assembly	12/292	/23	777	787	1	
	329		328	595	956	2	
	GO:		323	0.00	0.00		
BP	0006 alcohol metabolic process	10/292	/23	783	793	1	
	066		328	04	038	0	
	GO:		138	0.00	0.00		
BP	0042 ear morphogenesis	6/292	/23	793	800	6	
	471		328	238	669		
	GO:		138	0.00	0.00		
BP	0046 alcohol biosynthetic process	6/292	/23	793	800	6	
	165		328	238	669		
	GO:		11/	0.00	0.00		
BP	0002 aggressive behavior	2/292	233	797	800	2	
	118		28	084	669		
	GO:		11/	0.00	0.00		
BP	0002 dendritic cell antigen processing and presentation	2/292	233	797	800	2	
	468		28	084	669		
	GO:		11/	0.00	0.00		
BP	0002 positive regulation of antigen processing and presentation	2/292	233	797	800	2	
	579		28	084	669		

	GO:		11/	0.00	0.00	
BP	0021	trigeminal nerve development	2/292	233	797	800 2
	559			28	084	669
	GO:			11/	0.00	0.00
BP	0031	regulation of glucocorticoid metabolic process	2/292	233	797	800 2
	943			28	084	669
	GO:			11/	0.00	0.00
BP	0060	Bergmann glial cell differentiation	2/292	233	797	800 2
	020			28	084	669
	GO:			11/	0.00	0.00
BP	0060	limb bud formation	2/292	233	797	800 2
	174			28	084	669
	GO:			11/	0.00	0.00
BP	0060	regulation of penile erection	2/292	233	797	800 2
	405			28	084	669
	GO:			11/	0.00	0.00
BP	0060	dichotomous subdivision of an epithelial terminal unit	2/292	233	797	800 2
	600			28	084	669
	GO:			11/	0.00	0.00
BP	0090	positive regulation of protein kinase C signaling	2/292	233	797	800 2
	037			28	084	669
	GO:			11/	0.00	0.00
BP	0097	vascular associated smooth muscle cell development	2/292	233	797	800 2
	084			28	084	669
	GO:			11/	0.00	0.00
BP	2000	regulation of glucocorticoid receptor signaling pathway	2/292	233	797	800 2
	322			28	084	669
	GO:			11/	0.00	0.00
BP	2000	regulation of glucocorticoid secretion	2/292	233	797	800 2
	849			28	084	669
	GO:			33/	0.00	0.00
BP	0045	regulatory T cell differentiation	3/292	233	802	804 3
	066			28	425	72
	GO:			33/	0.00	0.00
BP	0051	negative regulation of oxidoreductase activity	3/292	233	802	804 3
	354			28	425	72
	GO:			33/	0.00	0.00
BP	1903	regulation of hydrogen peroxide-induced cell death	3/292	233	802	804 3
	205			28	425	72
	GO:			99/	0.00	0.00
BP	0030	natural killer cell activation	5/292	233	816	817 5
	101			28	469	915

	GO:		99/	0.00	0.00	
BP	0043 regulation of muscle adaptation	5/292	233	816	817	5
	502		28	469	915	
	GO:		64/	0.00	0.00	
BP	0006 cellular iron ion homeostasis	4/292	233	848	848	4
	879		28	36	021	
	GO:		64/	0.00	0.00	
BP	0045 negative regulation of osteoblast differentiation	4/292	233	848	848	4
	668		28	36	021	
	GO:		64/	0.00	0.00	
BP	0090 negative regulation of peptide hormone secretion	4/292	233	848	848	4
	278		28	36	021	
	GO:		64/	0.00	0.00	
BP	1903 mucopolysaccharide metabolic process	4/292	233	848	848	4
	510		28	36	021	
	GO:		100	0.00	0.00	
BP	0050 regulation of behavior	5/292	/23	850	850	5
	795		328	87	07	
	GO:		184	0.00	0.00	
BP	0030 adult behavior	7/292	/23	866	864	7
	534		328	128	377	
	GO:		184	0.00	0.00	
BP	0032 positive regulation of intracellular transport	7/292	/23	866	864	7
	388		328	128	377	
	GO:		34/	0.00	0.00	
BP	0003 endocardial cushion morphogenesis	3/292	233	872	868	3
	203		28	051	878	
	GO:		34/	0.00	0.00	
BP	0003 regulation of cilium movement	3/292	233	872	868	3
	352		28	051	878	
	GO:		34/	0.00	0.00	
BP	0098 bone growth	3/292	233	872	868	3
	868		28	051	878	
	GO:		65/	0.00	0.00	
BP	0015 L-amino acid transport	4/292	233	895	891	4
	807		28	28	542	
	GO:		280	0.00	0.00	
BP	0071 cellular response to external stimulus	9/292	/23	904	899	9
	496		328	172	911	
	GO:		102	0.00	0.00	
BP	0001 formation of primary germ layer	5/292	/23	922	917	5
	704		328	657	319	

	GO:		102	0.00	0.00	
BP	0050 regulation of calcium-mediated signaling	5/292	/23	922	917	5
	848		328	657	319	
	GO:		383	0.00	0.00	
BP	0022 cellular component disassembly	11/292	/23	925	919	1
	411		328	742	891	1
	GO:		437	0.00	0.00	
BP	0007 actin filament organization	12/292	/23	940	928	1
	015		328	448	155	2
	GO:		66/	0.00	0.00	
BP	0001 mesoderm formation	4/292	233	943	928	4
	707		28	86	155	
	GO:		35/	0.00	0.00	
BP	0010 regulation of keratinocyte proliferation	3/292	233	945	928	3
	837		28	11	155	
	GO:		35/	0.00	0.00	
BP	0034 regulation of homotypic cell-cell adhesion	3/292	233	945	928	3
	110		28	11	155	
	GO:		35/	0.00	0.00	
BP	0043 positive regulation of protein-containing complex disassembly	3/292	233	945	928	3
	243		28	11	155	
	GO:		35/	0.00	0.00	
BP	0050 negative regulation of B cell activation	3/292	233	945	928	3
	869		28	11	155	
	GO:		35/	0.00	0.00	
BP	0055 monovalent inorganic anion homeostasis	3/292	233	945	928	3
	083		28	11	155	
	GO:		35/	0.00	0.00	
BP	0060 epithelial tube branching involved in lung morphogenesis	3/292	233	945	928	3
	441		28	11	155	
	GO:		35/	0.00	0.00	
BP	1903 regulation of oxidative stress-induced neuron death	3/292	233	945	928	3
	203		28	11	155	
	GO:		12/	0.00	0.00	
BP	0003 mesenchymal to epithelial transition involved in metanephros morphogenesis	2/292	233	948	928	2
	337		28	645	155	
	GO:		12/	0.00	0.00	
BP	0010 negative regulation of heart rate	2/292	233	948	928	2
	459		28	645	155	
	GO:		12/	0.00	0.00	
BP	0016 gap junction assembly	2/292	233	948	928	2
	264		28	645	155	

	GO:		12/	0.00	0.00	
BP	0021 facial nerve development	2/292	233	948	928	2
	561		28	645	155	
	GO:		12/	0.00	0.00	
BP	0021 facial nerve morphogenesis	2/292	233	948	928	2
	610		28	645	155	
	GO:		12/	0.00	0.00	
BP	0030 positive regulation of vascular endothelial growth factor receptor signaling pathway	2/292	233	948	928	2
	949		28	645	155	
	GO: positive regulation of granulocyte		12/	0.00	0.00	
BP	0032 macrophage colony-stimulating factor	2/292	233	948	928	2
	725 production		28	645	155	
	GO:		12/	0.00	0.00	
BP	0035 glucocorticoid secretion	2/292	233	948	928	2
	933		28	645	155	
	GO:		12/	0.00	0.00	
BP	0045 regulation of T-helper 1 cell differentiation	2/292	233	948	928	2
	625		28	645	155	
	GO:		12/	0.00	0.00	
BP	0051 positive regulation of immunoglobulin secretion	2/292	233	948	928	2
	024		28	645	155	
	GO:		12/	0.00	0.00	
BP	0051 NK T cell activation	2/292	233	948	928	2
	132		28	645	155	
	GO:		12/	0.00	0.00	
BP	0051 negative regulation of release of sequestered calcium ion into cytosol	2/292	233	948	928	2
	280		28	645	155	
	GO:		12/	0.00	0.00	
BP	0060 vagina development	2/292	233	948	928	2
	068		28	645	155	
	GO:		12/	0.00	0.00	
BP	0060 lung saccule development	2/292	233	948	928	2
	430		28	645	155	
	GO:		12/	0.00	0.00	
BP	0060 semicircular canal development	2/292	233	948	928	2
	872		28	645	155	
	GO:		12/	0.00	0.00	
BP	0070 neutrophil-mediated killing of symbiont cell	2/292	233	948	928	2
	943		28	645	155	
	GO:		12/	0.00	0.00	
BP	0097 connective tissue replacement	2/292	233	948	928	2
	709		28	645	155	

	GO:		12/	0.00	0.00	
BP	1902 regulation of tau-protein kinase activity	2/292	233	948	928	2
	947		28	645	155	
	GO:		12/	0.00	0.00	
BP	1903 positive regulation of production of miRNAs	2/292	233	948	928	2
	800 involved in gene silencing by miRNA		28	645	155	
	GO:		12/	0.00	0.00	
BP	2000 positive regulation of chemokine (C-X-C	2/292	233	948	928	2
	343 motif) ligand 2 production		28	645	155	
	GO:		103	0.00	0.00	
BP	0003 cardiac muscle hypertrophy	5/292	/23	960	938	5
	300		328	07	835	
	GO:		144	0.00	0.00	
BP	0010 positive regulation of autophagy	6/292	/23	967	945	6
	508		328	392	495	
	GO:		104	0.00	0.00	
BP	0034 negative regulation of ion transmembrane	5/292	/23	998	975	5
	766 transport		328	514	395	
	GO:		36/	0.01	0.00	
BP	0008 motor neuron axon guidance	3/292	233	021	994	3
	045		28	636	822	
	GO:		36/	0.01	0.00	
BP	0010 regulation of cell fate commitment	3/292	233	021	994	3
	453		28	636	822	
	GO:		36/	0.01	0.00	
BP	0036 neuron death in response to oxidative stress	3/292	233	021	994	3
	475		28	636	822	
	GO:		36/	0.01	0.00	
BP	0070 lens fiber cell differentiation	3/292	233	021	994	3
	306		28	636	822	
	GO:		36/	0.01	0.00	
BP	0097 amyloid-beta clearance	3/292	233	021	994	3
	242		28	636	822	
	GO:		36/	0.01	0.00	
BP	2000 regulation of fatty acid transport	3/292	233	021	994	3
	191		28	636	822	
	GO:		69/	0.01	0.01	
BP	0016 positive regulation of macroautophagy	4/292	233	099	065	4
	239		28	788	318	
	GO:		69/	0.01	0.01	
BP	0034 protein localization to cell surface	4/292	233	099	065	4
	394		28	788	318	

	GO:		69/	0.01	0.01	
BP	0048 response to axon injury	4/292	233	099	065	4
	678		28	788	318	
	GO:		37/	0.01	0.01	
BP	0001 B cell homeostasis	3/292	233	101	065	3
	782		28	659	318	
	GO:		37/	0.01	0.01	
BP	0036 cell death in response to hydrogen peroxide	3/292	233	101	065	3
	474		28	659	318	
	GO:		37/	0.01	0.01	
BP	0040 regulation of meiotic nuclear division	3/292	233	101	065	3
	020		28	659	318	
	GO: positive regulation of cytosolic calcium ion concentration involved in phospholipase C-activating G protein-coupled signaling pathway	3/292	37/	0.01	0.01	
BP	0051		233	101	065	3
	482		28	659	318	
	GO: regulation of intrinsic apoptotic signaling pathway in response to DNA damage	3/292	37/	0.01	0.01	
BP	1902		233	101	065	3
	229		28	659	318	
	GO:		240	0.01	0.01	
BP	0046 regulation of Ras protein signal transduction	8/292	/23	102	065	8
	578		328	278	318	
	GO:		13/	0.01	0.01	
BP	0001 luteinization	2/292	233	111	065	2
	553		28	929	318	
	GO:		13/	0.01	0.01	
BP	0007 insemination	2/292	233	111	065	2
	320		28	929	318	
	GO:		13/	0.01	0.01	
BP	0021 cranial nerve structural organization	2/292	233	111	065	2
	604		28	929	318	
	GO: negative regulation of protein autophosphorylation	2/292	13/	0.01	0.01	
BP	0031		233	111	065	2
	953		28	929	318	
	GO:		13/	0.01	0.01	
BP	0035 positive regulation of urine volume	2/292	233	111	065	2
	810		28	929	318	
	GO:		13/	0.01	0.01	
BP	0045 regulation of T-helper 2 cell differentiation	2/292	233	111	065	2
	628		28	929	318	
	GO:		13/	0.01	0.01	
BP	0045 negative regulation of vasoconstriction	2/292	233	111	065	2
	906		28	929	318	

	GO:			13/	0.01	0.01	
BP	0048	hepatocyte growth factor receptor signaling pathway	2/292	233	111	065	2
	012			28	929	318	
	GO:			13/	0.01	0.01	
BP	0048	positive regulation of isotype switching to IgG isotypes	2/292	233	111	065	2
	304			28	929	318	
	GO:			13/	0.01	0.01	
BP	0051	positive regulation of keratinocyte migration	2/292	233	111	065	2
	549			28	929	318	
	GO:			13/	0.01	0.01	
BP	0055	phosphate ion homeostasis	2/292	233	111	065	2
	062			28	929	318	
	GO:			13/	0.01	0.01	
BP	0060	lateral sprouting from an epithelium	2/292	233	111	065	2
	601			28	929	318	
	GO:			13/	0.01	0.01	
BP	0070	glucagon secretion	2/292	233	111	065	2
	091			28	929	318	
	GO:			13/	0.01	0.01	
BP	0070	regulation of glucagon secretion	2/292	233	111	065	2
	092			28	929	318	
	GO:			13/	0.01	0.01	
BP	0070	uterine smooth muscle contraction	2/292	233	111	065	2
	471			28	929	318	
	GO:			13/	0.01	0.01	
BP	0071	commissural neuron axon guidance	2/292	233	111	065	2
	679			28	929	318	
	GO:			13/	0.01	0.01	
BP	0072	divalent inorganic anion homeostasis	2/292	233	111	065	2
	505			28	929	318	
	GO:			13/	0.01	0.01	
BP	0072	trivalent inorganic anion homeostasis	2/292	233	111	065	2
	506			28	929	318	
	GO:			13/	0.01	0.01	
BP	0072	T-helper 17 cell lineage commitment	2/292	233	111	065	2
	540			28	929	318	
	GO:			13/	0.01	0.01	
BP	1904	regulation of bile acid metabolic process	2/292	233	111	065	2
	251			28	929	318	
	GO:			13/	0.01	0.01	
BP	2000	regulation of type B pancreatic cell apoptotic process	2/292	233	111	065	2
	674			28	929	318	

	GO:		13/	0.01	0.01	
BP	2001 negative regulation of neuron migration	2/292	233	111	065	2
	223		28	929	318	
	GO:		107	0.01	0.01	
BP	0000 regulation of DNA recombination	5/292	/23	120	072	5
	018		328	158	088	
	GO:		107	0.01	0.01	
BP	0014 striated muscle hypertrophy	5/292	/23	120	072	5
	897		328	158	088	
	GO:		70/	0.01	0.01	
BP	0032 circadian regulation of gene expression	4/292	233	155	104	4
	922		28	227	507	
	GO:		70/	0.01	0.01	
BP	0048 mesoderm morphogenesis	4/292	233	155	104	4
	332		28	227	507	
	GO:		150	0.01	0.01	
BP	0002 columnar/cuboidal epithelial cell differentiation	6/292	/23	167	115	6
	065		328	222	397	
	GO:		38/	0.01	0.01	
BP	0010 regulation of platelet activation	3/292	233	185	129	3
	543		28	204	072	
	GO:		38/	0.01	0.01	
BP	0032 regulation of synaptic transmission, GABAergic	3/292	233	185	129	3
	228		28	204	072	
	GO:		38/	0.01	0.01	
BP	0043 regulation of mast cell degranulation	3/292	233	185	129	3
	304		28	204	072	
	GO:		38/	0.01	0.01	
BP	0046 negative regulation of insulin receptor signaling pathway	3/292	233	185	129	3
	627		28	204	072	
	GO:		38/	0.01	0.01	
BP	0051 positive regulation of synaptic transmission, glutamatergic	3/292	233	185	129	3
	968		28	204	072	
	GO:		38/	0.01	0.01	
BP	0072 metanephric nephron development	3/292	233	185	129	3
	210		28	204	072	
	GO:		109	0.01	0.01	
BP	0014 muscle hypertrophy	5/292	/23	206	148	5
	896		328	642	902	
	GO:		71/	0.01	0.01	
BP	0055 anion homeostasis	4/292	233	212	153	4
	081		28	432	82	

	GO:		197	0.01	0.01	
BP	0044 multi-multicellular organism process	7/292	/23	229	169	7
	706		328	324	291	
	GO:		152	0.01	0.01	
BP	0090 negative regulation of cellular response to growth factor stimulus	6/292	/23	239	178	6
	288		328	852	699	
	GO:		400	0.01	0.01	
BP	0006 generation of precursor metabolites and energy	11/292	/23	249	187	1
	091		328	8	544	1
	GO:		110	0.01	0.01	
BP	0008 adult locomotory behavior	5/292	/23	251	187	5
	344		328	537	971	
	GO:		110	0.01	0.01	
BP	0048 oligodendrocyte differentiation	5/292	/23	251	187	5
	709		328	537	971	
	GO:		72/	0.01	0.01	
BP	0010 regulation of cardiac muscle hypertrophy	4/292	233	271	203	4
	611		28	421	931	
	GO:		39/	0.01	0.01	
BP	0007 activation of JUN kinase activity	3/292	233	272	203	3
	257		28	296	931	
	GO:		39/	0.01	0.01	
BP	0010 positive regulation of cardiac muscle hypertrophy	3/292	233	272	203	3
	613		28	296	931	
	GO:		39/	0.01	0.01	
BP	0033 regulation of mast cell activation involved in immune response	3/292	233	272	203	3
	006		28	296	931	
	GO:		39/	0.01	0.01	
BP	0035 epithelial cell differentiation involved in kidney development	3/292	233	272	203	3
	850		28	296	931	
	GO:		39/	0.01	0.01	
BP	0050 intestinal absorption	3/292	233	272	203	3
	892		28	296	931	
	GO:		153	0.01	0.01	
BP	0030 B cell differentiation	6/292	/23	277	203	6
	183		328	334	931	
	GO:		14/	0.01	0.01	
BP	0001 NK T cell differentiation	2/292	233	286	203	2
	865		28	619	931	
	GO:		14/	0.01	0.01	
BP	0002 positive regulation of hypersensitivity	2/292	233	286	203	2
	885		28	619	931	

	GO:		14/	0.01	0.01	
BP	0021	adenohypophysis development	2/292	233	286	203 2
	984			28	619	931
	GO:		14/	0.01	0.01	
BP	0030	hyaluronan biosynthetic process	2/292	233	286	203 2
	213			28	619	931
	GO:		14/	0.01	0.01	
BP	0030	peristalsis	2/292	233	286	203 2
	432			28	619	931
	GO:		14/	0.01	0.01	
BP	0032	negative regulation of monooxygenase activity	2/292	233	286	203 2
	769			28	619	931
	GO:		14/	0.01	0.01	
BP	0042	negative regulation of tyrosine phosphorylation of STAT protein	2/292	233	286	203 2
	532			28	619	931
	GO:		14/	0.01	0.01	
BP	0042	glucocorticoid receptor signaling pathway	2/292	233	286	203 2
	921			28	619	931
	GO:		14/	0.01	0.01	
BP	0045	negative thymic T cell selection	2/292	233	286	203 2
	060			28	619	931
	GO:		14/	0.01	0.01	
BP	0045	negative regulation of meiotic nuclear division	2/292	233	286	203 2
	835			28	619	931
	GO:		14/	0.01	0.01	
BP	0046	negative regulation of alpha-beta T cell proliferation	2/292	233	286	203 2
	642			28	619	931
	GO:		14/	0.01	0.01	
BP	0048	mucosa-associated lymphoid tissue development	2/292	233	286	203 2
	537			28	619	931
	GO:		14/	0.01	0.01	
BP	0048	Peyer's patch development	2/292	233	286	203 2
	541			28	619	931
	GO:		14/	0.01	0.01	
BP	0048	positive regulation of collateral sprouting	2/292	233	286	203 2
	672			28	619	931
	GO:		14/	0.01	0.01	
BP	0051	positive regulation of smooth muscle cell differentiation	2/292	233	286	203 2
	152			28	619	931
	GO:		14/	0.01	0.01	
BP	0051	positive regulation of sequestering of calcium ion	2/292	233	286	203 2
	284			28	619	931

	GO:		14/	0.01	0.01		
BP	0060 prostate gland growth	2/292	233	286	203	2	
	736		28	619	931		
	GO:		14/	0.01	0.01		
BP	0070 neutrophil mediated cytotoxicity	2/292	233	286	203	2	
	942		28	619	931		
	GO:		14/	0.01	0.01		
BP	0071 cellular response to cholesterol	2/292	233	286	203	2	
	397		28	619	931		
	GO:		14/	0.01	0.01		
BP	0072 T cell extravasation	2/292	233	286	203	2	
	683		28	619	931		
	GO:		14/	0.01	0.01		
BP	0099 trans-synaptic signaling, modulating synaptic transmission	2/292	233	286	203	2	
	550		28	619	931		
	GO:		299	0.01	0.01		
BP	0050 antigen receptor-mediated signaling pathway	9/292	/23	344	257	9	
	851		328	621	567		
	GO:		351	0.01	0.01		
BP	0031 cell-substrate adhesion	10/292	/23	346	258	1	
	589		328	213	418	0	
	GO:		40/	0.01	0.01		
BP	0009 response to cold	3/292	233	362	267	3	
	409		28	957	648		
	GO:		40/	0.01	0.01		
BP	0014 positive regulation of muscle hypertrophy	3/292	233	362	267	3	
	742		28	957	648		
	GO:		40/	0.01	0.01		
BP	0030 sleep	3/292	233	362	267	3	
	431		28	957	648		
	GO:		40/	0.01	0.01		
BP	0034 positive regulation of tissue remodeling	3/292	233	362	267	3	
	105		28	957	648		
	GO:		40/	0.01	0.01		
BP	0043 positive T cell selection	3/292	233	362	267	3	
	368		28	957	648		
	GO:		40/	0.01	0.01		
BP	0060 regulation of feeding behavior	3/292	233	362	267	3	
	259		28	957	648		
	GO:		40/	0.01	0.01		
BP	0070 regulation of neuron projection regeneration	3/292	233	362	267	3	
	570		28	957	648		

	GO:		40/	0.01	0.01		
BP	0070	regulation of calcineurin-NFAT signaling cascade	3/292	233	362	267	3
	884			28	957	648	
	GO:		40/	0.01	0.01		
BP	0071	dopaminergic neuron differentiation	3/292	233	362	267	3
	542			28	957	648	
	GO:		40/	0.01	0.01		
BP	0097	energy homeostasis	3/292	233	362	267	3
	009			28	957	648	
	GO:		74/	0.01	0.01		
BP	0043	leukocyte degranulation	4/292	233	394	296	4
	299			28	824	634	
	GO:		114	0.01	0.01		
BP	0007	mesoderm development	5/292	723	442	340	5
	498			328	417	201	
	GO:		355	0.01	0.01		
BP	0050	positive regulation of synaptic transmission	10/292	723	446	343	1
	806			328	58	392	0
	GO:		41/	0.01	0.01		
BP	0106	regulation of calcineurin-mediated signaling	3/292	233	457	349	3
	056			28	205	716	
	GO:		41/	0.01	0.01		
BP	1902	regulation of amyloid precursor protein catabolic process	3/292	233	457	349	3
	991			28	205	716	
	GO:		75/	0.01	0.01		
BP	0010	negative regulation of autophagy	4/292	233	459	349	4
	507			28	273	716	
	GO:		75/	0.01	0.01		
BP	0014	regulation of muscle hypertrophy	4/292	233	459	349	4
	743			28	273	716	
	GO:		15/	0.01	0.01		
BP	0002	negative regulation of inflammatory response to antigenic stimulus	2/292	233	472	349	2
	862			28	407	716	
	GO:		15/	0.01	0.01		
BP	0010	negative regulation of calcium ion transport into cytosol	2/292	233	472	349	2
	523			28	407	716	
	GO:		15/	0.01	0.01		
BP	0010	negative regulation of keratinocyte proliferation	2/292	233	472	349	2
	839			28	407	716	
	GO:		15/	0.01	0.01		
BP	0010	regulation of amino acid import across plasma membrane	2/292	233	472	349	2
	958			28	407	716	

	GO:		15/	0.01	0.01	
BP	0010 magnesium ion homeostasis	2/292	233	472	349	2
	960		28	407	716	
	GO:		15/	0.01	0.01	
BP	0014 positive regulation of glutamate secretion	2/292	233	472	349	2
	049		28	407	716	
	GO:		15/	0.01	0.01	
BP	0021 glial cell fate commitment	2/292	233	472	349	2
	781		28	407	716	
	GO:		15/	0.01	0.01	
BP	0030 pancreatic juice secretion	2/292	233	472	349	2
	157		28	407	716	
	GO:		15/	0.01	0.01	
BP	0031 corticosteroid receptor signaling pathway	2/292	233	472	349	2
	958		28	407	716	
	GO:		15/	0.01	0.01	
BP	0042 dopamine biosynthetic process	2/292	233	472	349	2
	416		28	407	716	
	GO:		15/	0.01	0.01	
BP	0043 negative T cell selection	2/292	233	472	349	2
	383		28	407	716	
	GO:		15/	0.01	0.01	
BP	0048 positive regulation of axon regeneration	2/292	233	472	349	2
	680		28	407	716	
	GO:		15/	0.01	0.01	
BP	0051 regulation of keratinocyte migration	2/292	233	472	349	2
	547		28	407	716	
	GO:		15/	0.01	0.01	
BP	0051 positive regulation of killing of cells of other organism	2/292	233	472	349	2
	712		28	407	716	
	GO:		15/	0.01	0.01	
BP	0072 metanephric renal vesicle morphogenesis	2/292	233	472	349	2
	283		28	407	716	
	GO:		15/	0.01	0.01	
BP	0099 postsynapse to nucleus signaling pathway	2/292	233	472	349	2
	527		28	407	716	
	GO:		15/	0.01	0.01	
BP	1900 negative regulation of receptor binding	2/292	233	472	349	2
	121		28	407	716	
	GO:		15/	0.01	0.01	
BP	1903 positive regulation of exosomal secretion	2/292	233	472	349	2
	543		28	407	716	

	GO: regulation of blood vessel endothelial cell		15/	0.01	0.01	
BP	1903 proliferation involved in sprouting	2/292	233	472	349	2
	587 angiogenesis		28	407	716	
	GO: regulation of amino acid transmembrane		15/	0.01	0.01	
BP	1903 transport	2/292	233	472	349	2
	789		28	407	716	
	GO: inhibitory synapse assembly		15/	0.01	0.01	
BP	1904	2/292	233	472	349	2
	862		28	407	716	
	GO: positive regulation of extrinsic apoptotic		15/	0.01	0.01	
BP	2001 signaling pathway in absence of ligand	2/292	233	472	349	2
	241		28	407	716	
	GO: phenol-containing compound metabolic		115	0.01	0.01	
BP	0018 process	5/292	/23	493	367	5
	958		328	02	253	
	GO: viral genome replication		115	0.01	0.01	
BP	0019	5/292	/23	493	367	5
	079		328	02	253	
	GO: muscle cell development		205	0.01	0.01	
BP	0055	7/292	/23	501	374	7
	001		328	151	017	
	GO: cellular response to steroid hormone		159	0.01	0.01	
BP	0071 stimulus	6/292	/23	519	389	6
	383		328	048	709	
	GO: cellular process involved in reproduction in		468	0.01	0.01	
BP	0022 multicellular organism	12/292	/23	544	411	1
	412		328	084	867	2
	GO: antigen processing and presentation		116	0.01	0.01	
BP	0019	5/292	/23	544	411	5
	882		328	798	867	
	GO: negative regulation of adaptive immune		42/	0.01	0.01	
BP	0002 response based on somatic recombination of	3/292	233	555	417	3
	823 immune receptors built from		28	057	032	
	immunoglobulin superfamily domains					
	GO: positive regulation of sodium ion transport		42/	0.01	0.01	
BP	0010	3/292	233	555	417	3
	765		28	057	032	
	GO: homeostasis of number of cells within a		42/	0.01	0.01	
BP	0048 tissue	3/292	233	555	417	3
	873		28	057	032	
	GO: negative regulation of striated muscle cell		42/	0.01	0.01	
BP	0051 differentiation	3/292	233	555	417	3
	154		28	057	032	

	GO:			42/	0.01	0.01	
BP	1900	negative regulation of cellular response to insulin stimulus	3/292	233	555	417	3
	077			28	057	032	
	GO:			42/	0.01	0.01	
BP	2000	regulation of protein localization to cell surface	3/292	233	555	417	3
	008			28	057	032	
	GO:			77/	0.01	0.01	
BP	1903	regulation of oxidative stress-induced cell death	4/292	233	593	450	4
	201			28	749	856	
	GO:			77/	0.01	0.01	
BP	2000	positive regulation of DNA biosynthetic process	4/292	233	593	450	4
	573			28	749	856	
	GO:			43/	0.01	0.01	
BP	0038	peptidyl-tyrosine autophosphorylation	3/292	233	656	498	3
	083			28	527	65	
	GO:			43/	0.01	0.01	
BP	0040	positive regulation of multicellular organism growth	3/292	233	656	498	3
	018			28	527	65	
	GO:	intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator	3/292	43/	0.01	0.01	
BP	0042			233	656	498	3
	771			28	527	65	
	GO:			43/	0.01	0.01	
BP	1901	positive regulation of potassium ion transmembrane transport	3/292	233	656	498	3
	381			28	527	65	
	GO:			16/	0.01	0.01	
BP	0002	T-helper cell lineage commitment	2/292	233	668	498	2
	295			28	99	65	
	GO:			16/	0.01	0.01	
BP	0002	dendritic cell chemotaxis	2/292	233	668	498	2
	407			28	99	65	
	GO:			16/	0.01	0.01	
BP	0002	positive regulation of acute inflammatory response to antigenic stimulus	2/292	233	668	498	2
	866			28	99	65	
	GO:			16/	0.01	0.01	
BP	0003	ventricular trabecula myocardium morphogenesis	2/292	233	668	498	2
	222			28	99	65	
	GO:			16/	0.01	0.01	
BP	0007	activation of NF-kappaB-inducing kinase activity	2/292	233	668	498	2
	250			28	99	65	
	GO:			16/	0.01	0.01	
BP	0042	gamma-delta T cell differentiation	2/292	233	668	498	2
	492			28	99	65	

	GO:		16/	0.01	0.01	
BP	0042 anagen	2/292	233	668	498	2
	640		28	99	65	
	GO:		16/	0.01	0.01	
BP	0048 regulation of isotype switching to IgG	2/292	233	668	498	2
	302 isotypes		28	99	65	
	GO:		16/	0.01	0.01	
BP	0050 positive regulation of T cell receptor	2/292	233	668	498	2
	862 signaling pathway		28	99	65	
	GO:		16/	0.01	0.01	
BP	0051 regulation of neurotrophin TRK receptor	2/292	233	668	498	2
	386 signaling pathway		28	99	65	
	GO:		16/	0.01	0.01	
BP	0055 neuroblast division	2/292	233	668	498	2
	057		28	99	65	
	GO:		16/	0.01	0.01	
BP	0060 vasculogenesis involved in coronary vascular	2/292	233	668	498	2
	979 morphogenesis		28	99	65	
	GO:		16/	0.01	0.01	
BP	0061 ganglion development	2/292	233	668	498	2
	548		28	99	65	
	GO:		16/	0.01	0.01	
BP	0070 leukocyte aggregation	2/292	233	668	498	2
	486		28	99	65	
	GO:		16/	0.01	0.01	
BP	0071 cellular response to prostaglandin stimulus	2/292	233	668	498	2
	379		28	99	65	
	GO:		16/	0.01	0.01	
BP	0072 chemokine (C-X-C motif) ligand 2	2/292	233	668	498	2
	567 production		28	99	65	
	GO:		16/	0.01	0.01	
BP	0097 type B pancreatic cell apoptotic process	2/292	233	668	498	2
	050		28	99	65	
	GO:		16/	0.01	0.01	
BP	1901 regulation of endothelial cell development	2/292	233	668	498	2
	550		28	99	65	
	GO:		16/	0.01	0.01	
BP	1903 regulation of establishment of endothelial	2/292	233	668	498	2
	140 barrier		28	99	65	
	GO:		16/	0.01	0.01	
BP	1903 regulation of exosomal secretion	2/292	233	668	498	2
	541		28	99	65	

	GO:		16/	0.01	0.01	
BP	1903 regulation of microglial cell activation	2/292	233	668	498	2
	978		28	99	65	
	GO:		16/	0.01	0.01	
BP	1905 positive regulation of vascular endothelial cell proliferation	2/292	233	668	498	2
	564		28	99	65	
	GO:		16/	0.01	0.01	
BP	2000 regulation of female gonad development	2/292	233	668	498	2
	194		28	99	65	
	GO:		16/	0.01	0.01	
BP	2000 regulation of chemokine (C-X-C motif) ligand 2 production	2/292	233	668	498	2
	341		28	99	65	
	GO:		163	0.01	0.01	
BP	0001 cellular glucose homeostasis	6/292	/23	696	522	6
	678		328	783	866	
	GO:		119	0.01	0.01	
BP	2000 regulation of DNA biosynthetic process	5/292	/23	707	531	5
	278		328	291	551	
	GO:		79/	0.01	0.01	
BP	0032 lysosome localization	4/292	233	735	554	4
	418		28	764	826	
	GO:		79/	0.01	0.01	
BP	0048 negative regulation of muscle organ development	4/292	233	735	554	4
	635		28	764	826	
	GO:		79/	0.01	0.01	
BP	1902 positive regulation of organelle assembly	4/292	233	735	554	4
	117		28	764	826	
	GO:		44/	0.01	0.01	
BP	0042 regulation of natural killer cell mediated cytotoxicity	3/292	233	761	577	3
	269		28	625	225	
	GO:		120	0.01	0.01	
BP	0033 unsaturated fatty acid metabolic process	5/292	/23	763	578	5
	559		328	876	475	
	GO:		80/	0.01	0.01	
BP	0060 regulation of gene silencing	4/292	233	809	617	4
	968		28	635	855	
	GO:		80/	0.01	0.01	
BP	2001 positive regulation of cation channel activity	4/292	233	809	617	4
	259		28	635	855	
	GO:		45/	0.01	0.01	
BP	0090 regulation of release of cytochrome c from mitochondria	3/292	233	870	654	3
	199		28	361	009	

	GO:		370	0.01	0.01	1
BP	0043 camera-type eye development	10/292	/23	873	654	0
	010		328	288	009	
	GO:		425	0.01	0.01	1
BP	0006 autophagy	11/292	/23	874	654	1
	914		328	716	009	
	GO:		425	0.01	0.01	1
BP	0061 process utilizing autophagic mechanism	11/292	/23	874	654	1
	919		328	716	009	
	GO:		17/	0.01	0.01	
BP	0002 negative regulation of leukocyte chemotaxis	2/292	233	876	654	2
	689		28	069	009	
	GO:		17/	0.01	0.01	
BP	0003 morphogenesis of an endothelium	2/292	233	876	654	2
	159		28	069	009	
	GO:		17/	0.01	0.01	
BP	0003 pulmonary valve morphogenesis	2/292	233	876	654	2
	184		28	069	009	
	GO:		17/	0.01	0.01	
BP	0010 negative regulation of collagen metabolic process	2/292	233	876	654	2
	713		28	069	009	
	GO:		17/	0.01	0.01	
BP	0019 modulation by virus of host process	2/292	233	876	654	2
	048		28	069	009	
	GO:		17/	0.01	0.01	
BP	0030 sequestering of triglyceride	2/292	233	876	654	2
	730		28	069	009	
	GO:		17/	0.01	0.01	
BP	0032 regulation of synaptic transmission, dopaminergic	2/292	233	876	654	2
	225		28	069	009	
	GO:		17/	0.01	0.01	
BP	0032 positive regulation of synaptic transmission, GABAergic	2/292	233	876	654	2
	230		28	069	009	
	GO:		17/	0.01	0.01	
BP	0032 negative regulation of collagen biosynthetic process	2/292	233	876	654	2
	966		28	069	009	
	GO:		17/	0.01	0.01	
BP	0040 negative regulation of multicellular organism growth	2/292	233	876	654	2
	015		28	069	009	
	GO:		17/	0.01	0.01	
BP	0045 regulation of MHC class II biosynthetic process	2/292	233	876	654	2
	346		28	069	009	

	GO:		17/	0.01	0.01	
BP	0048 isotype switching to IgG isotypes	2/292	233	876	654	2
	291		28	069	009	
	GO:		17/	0.01	0.01	
BP	0048 forebrain morphogenesis	2/292	233	876	654	2
	853		28	069	009	
	GO:		17/	0.01	0.01	
BP	0060 atrial septum morphogenesis	2/292	233	876	654	2
	413		28	069	009	
	GO:		17/	0.01	0.01	
BP	0060 mammary gland epithelial cell differentiation	2/292	233	876	654	2
	644		28	069	009	
	GO:		17/	0.01	0.01	
BP	0060 regulation of transcription involved in cell fate commitment	2/292	233	876	654	2
	850		28	069	009	
	GO:		17/	0.01	0.01	
BP	0060 cell migration involved in heart development	2/292	233	876	654	2
	973		28	069	009	
	GO:		17/	0.01	0.01	
BP	0061 endothelial tube morphogenesis	2/292	233	876	654	2
	154		28	069	009	
	GO:		17/	0.01	0.01	
BP	0070 regulation of thymocyte apoptotic process	2/292	233	876	654	2
	243		28	069	009	
	GO:		17/	0.01	0.01	
BP	0070 renal absorption	2/292	233	876	654	2
	293		28	069	009	
	GO:		17/	0.01	0.01	
BP	0071 positive regulation of transforming growth factor beta production	2/292	233	876	654	2
	636		28	069	009	
	GO:		17/	0.01	0.01	
BP	1900 positive regulation of execution phase of apoptosis	2/292	233	876	654	2
	119		28	069	009	
	GO:		17/	0.01	0.01	
BP	1905 negative regulation of morphogenesis of an epithelium	2/292	233	876	654	2
	331		28	069	009	
	GO:		17/	0.01	0.01	
BP	2000 negative regulation of feeding behavior	2/292	233	876	654	2
	252		28	069	009	
	GO:		17/	0.01	0.01	
BP	2001 positive regulation of endothelial cell chemotaxis	2/292	233	876	654	2
	028		28	069	009	

	GO:		82/	0.01	0.01	
BP	0060 inner ear receptor cell differentiation	4/292	233	963	729	4
	113		28	173	977	
	GO:		46/	0.01	0.01	
BP	0002 regulation of natural killer cell mediated immunity	3/292	233	982	744	3
	715		28	742	722	
	GO:		46/	0.01	0.01	
BP	0033 cholesterol efflux	3/292	233	982	744	3
	344		28	742	722	
	GO:		46/	0.01	0.01	
BP	0045 positive regulation of DNA replication	3/292	233	982	744	3
	740		28	742	722	
	GO:		124	0.02	0.01	
BP	0043 muscle adaptation	5/292	123	002	760	5
	500		328	588	506	
	GO:		124	0.02	0.01	
BP	0090 positive regulation of peptide hormone secretion	5/292	123	002	760	5
	277		328	588	506	
	GO:		18/	0.02	0.01	
BP	0001 regulation of systemic arterial blood pressure by circulatory renin-angiotensin	2/292	233	093	822	2
	991		28	354	93	
	GO:		18/	0.02	0.01	
BP	0002 osteoblast development	2/292	233	093	822	2
	076		28	354	93	
	GO:		18/	0.02	0.01	
BP	0002 positive regulation of response to tumor cell	2/292	233	093	822	2
	836		28	354	93	
	GO:		18/	0.02	0.01	
BP	0002 positive regulation of immune response to tumor cell	2/292	233	093	822	2
	839		28	354	93	
	GO:		18/	0.02	0.01	
BP	0007 blastoderm segmentation	2/292	233	093	822	2
	350		28	354	93	
	GO:		18/	0.02	0.01	
BP	0009 mRNA transcription	2/292	233	093	822	2
	299		28	354	93	
	GO:		18/	0.02	0.01	
BP	0014 regulation of neuron maturation	2/292	233	093	822	2
	041		28	354	93	
	GO:		18/	0.02	0.01	
BP	0016 protein autoprocessing	2/292	233	093	822	2
	540		28	354	93	

	GO:		18/	0.02	0.01	
BP	0021	preganglionic parasympathetic fiber development	2/292	233	093	822 2
	783			28	354	93
	GO:		18/	0.02	0.01	
BP	0034	response to prostaglandin E	2/292	233	093	822 2
	695			28	354	93
	GO:		18/	0.02	0.01	
BP	0038	Fc receptor signaling pathway	2/292	233	093	822 2
	093			28	354	93
	GO:		18/	0.02	0.01	
BP	0042	maternal behavior	2/292	233	093	822 2
	711			28	354	93
	GO:		18/	0.02	0.01	
BP	0050	negative regulation of cytokine secretion	2/292	233	093	822 2
	710			28	354	93
	GO:		18/	0.02	0.01	
BP	0051	positive regulation of nitric-oxide synthase activity	2/292	233	093	822 2
	000			28	354	93
	GO:		18/	0.02	0.01	
BP	0051	regulation of neurotransmitter uptake	2/292	233	093	822 2
	580			28	354	93
	GO:		18/	0.02	0.01	
BP	0071	regulation of podosome assembly	2/292	233	093	822 2
	801			28	354	93
	GO:		18/	0.02	0.01	
BP	0072	renal vesicle morphogenesis	2/292	233	093	822 2
	077			28	354	93
	GO:		18/	0.02	0.01	
BP	1900	regulation of defense response to bacterium	2/292	233	093	822 2
	424			28	354	93
	GO:		18/	0.02	0.01	
BP	1901	regulation of mitotic spindle assembly	2/292	233	093	822 2
	673			28	354	93
	GO:		18/	0.02	0.01	
BP	1903	negative regulation of glycoprotein metabolic process	2/292	233	093	822 2
	019			28	354	93
	GO:		489	0.02	0.01	
BP	0015	monovalent inorganic cation transport	12/292	/23	095	823 1
	672			328	514	347 2
	GO:		47/	0.02	0.01	
BP	0002	negative regulation of adaptive immune response	3/292	233	098	823 3
	820			28	773	347

	GO:		47/	0.02	0.01		
BP	0003	endocardial cushion development	3/292	233	098	823	3
		197		28	773	347	
	GO:		47/	0.02	0.01		
BP	0032	regulation of natural killer cell activation	3/292	233	098	823	3
		814		28	773	347	
	GO:		47/	0.02	0.01		
BP	0050	detection of mechanical stimulus involved in sensory perception	3/292	233	098	823	3
		974		28	773	347	
	GO:		84/	0.02	0.01		
BP	0051	modulation of process of other organism involved in symbiotic interaction	4/292	233	124	844	4
		817		28	52	846	
	GO:		173	0.02	0.01		
BP	0043	negative regulation of MAPK cascade	6/292	/23	202	911	6
		409		328	594	743	
	GO:		85/	0.02	0.01		
BP	0030	glycosaminoglycan metabolic process	4/292	233	208	914	4
		203		28	15	764	
	GO:		85/	0.02	0.01		
BP	0030	cholesterol transport	4/292	233	208	914	4
		301		28	15	764	
	GO:		48/	0.02	0.01		
BP	0030	negative regulation of blood coagulation	3/292	233	218	921	3
		195		28	457	895	
	GO:		48/	0.02	0.01		
BP	0090	regulation of calcium ion import	3/292	233	218	921	3
		279		28	457	895	
	GO:		437	0.02	0.01		
BP	0007	small GTPase mediated signal transduction	11/292	/23	246	944	1
		264		328	169	989	1
	GO:		174	0.02	0.01		
BP	0015	monocarboxylic acid transport	6/292	/23	258	954	6
		718		328	193	484	
	GO:		128	0.02	0.01		
BP	0045	positive regulation of translation	5/292	/23	261	956	5
		727		328	535	459	
	GO:		438	0.02	0.01		
BP	0043	regulation of protein-containing complex assembly	11/292	/23	279	970	1
		254		328	393	984	1
	GO:		86/	0.02	0.01		
BP	0015	sterol transport	4/292	233	293	982	4
		918		28	766	426	

	GO:		328	0.02	0.01	
BP	0048 embryonic organ morphogenesis	9/292	/23	298	982	9
	562		328	784	426	
	GO:		175	0.02	0.01	
BP	0035 appendage morphogenesis	6/292	/23	314	982	6
	107		328	729	426	
	GO:		175	0.02	0.01	
BP	0035 limb morphogenesis	6/292	/23	314	982	6
	108		328	729	426	
	GO:		19/	0.02	0.01	
BP	0002 negative regulation of T cell mediated immunity	2/292	233	320	982	2
	710		28	557	426	
	GO:		19/	0.02	0.01	
BP	0003 aortic valve morphogenesis	2/292	233	320	982	2
	180		28	557	426	
	GO:		19/	0.02	0.01	
BP	0003 cardiac right ventricle morphogenesis	2/292	233	320	982	2
	215		28	557	426	
	GO:		19/	0.02	0.01	
BP	0006 glycosaminoglycan catabolic process	2/292	233	320	982	2
	027		28	557	426	
	GO:		19/	0.02	0.01	
BP	0007 I-kappaB phosphorylation	2/292	233	320	982	2
	252		28	557	426	
	GO:		19/	0.02	0.01	
BP	0020 hemoglobin metabolic process	2/292	233	320	982	2
	027		28	557	426	
	GO:		19/	0.02	0.01	
BP	0021 cell proliferation in external granule layer	2/292	233	320	982	2
	924		28	557	426	
	GO:		19/	0.02	0.01	
BP	0021 cerebellar granule cell precursor proliferation	2/292	233	320	982	2
	930		28	557	426	
	GO:		19/	0.02	0.01	
BP	0032 regulation of interleukin-13 production	2/292	233	320	982	2
	656		28	557	426	
	GO:		19/	0.02	0.01	
BP	0032 negative regulation of interleukin-17 production	2/292	233	320	982	2
	700		28	557	426	
	GO:		19/	0.02	0.01	
BP	0033 positive regulation of intracellular steroid hormone receptor signaling pathway	2/292	233	320	982	2
	145		28	557	426	

	GO:		19/	0.02	0.01	
BP	0035 chondrocyte proliferation	2/292	233	320	982	2
	988		28	557	426	
	GO: regulation of viral-induced cytoplasmic		19/	0.02	0.01	
BP	0039 pattern recognition receptor signaling	2/292	233	320	982	2
	531 pathway		28	557	426	
	GO: negative regulation of fibroblast growth		19/	0.02	0.01	
BP	0040 factor receptor signaling pathway	2/292	233	320	982	2
	037		28	557	426	
	GO:		19/	0.02	0.01	
BP	0042 fibrinolysis	2/292	233	320	982	2
	730		28	557	426	
	GO:		19/	0.02	0.01	
BP	0043 negative regulation of vascular permeability	2/292	233	320	982	2
	116		28	557	426	
	GO:		19/	0.02	0.01	
BP	0045 negative regulation of membrane potential	2/292	233	320	982	2
	837		28	557	426	
	GO:		19/	0.02	0.01	
BP	0060 membrane hyperpolarization	2/292	233	320	982	2
	081		28	557	426	
	GO:		19/	0.02	0.01	
BP	0060 mesenchymal to epithelial transition	2/292	233	320	982	2
	231		28	557	426	
	GO:		19/	0.02	0.01	
BP	0060 trophoblast giant cell differentiation	2/292	233	320	982	2
	707		28	557	426	
	GO:		19/	0.02	0.01	
BP	0060 parental behavior	2/292	233	320	982	2
	746		28	557	426	
	GO:		19/	0.02	0.01	
BP	1905 regulation of epithelial tube formation	2/292	233	320	982	2
	276		28	557	426	
	GO:		129	0.02	0.01	
BP	0006 icosanoid metabolic process	5/292	/23	329	989	5
	690		328	5	144	
	GO:		329	0.02	0.01	
BP	0032 regulation of intracellular transport	9/292	/23	338	995	9
	386		328	555	952	
	GO:		49/	0.02	0.01	
BP	1900 negative regulation of hemostasis	3/292	233	341	996	3
	047		28	794	87	

	GO:		49/	0.02	0.01	
BP	2000	regulation of cardiac muscle cell differentiation	3/292	233	341	996 3
	725			28	794	87
	GO:			130	0.02	0.02
BP	0042	regulation of circadian rhythm	5/292	/23	398	044 5
	752			328	771	51
	GO:			50/	0.02	0.02
BP	0008	neuron recognition	3/292	233	468	095 3
	038			28	783	419
	GO:			50/	0.02	0.02
BP	0010	negative regulation of cellular carbohydrate metabolic process	3/292	233	468	095 3
	677			28	783	419
	GO:			50/	0.02	0.02
BP	0021	olfactory lobe development	3/292	233	468	095 3
	988			28	783	419
	GO:			50/	0.02	0.02
BP	0045	regulation of erythrocyte differentiation	3/292	233	468	095 3
	646			28	783	419
	GO:			50/	0.02	0.02
BP	0050	negative regulation of coagulation	3/292	233	468	095 3
	819			28	783	419
	GO:			50/	0.02	0.02
BP	0061	cell differentiation involved in kidney development	3/292	233	468	095 3
	005			28	783	419
	GO:			131	0.02	0.02
BP	0007	determination of left/right symmetry	5/292	/23	469	095 5
	368			328	357	419
	GO:			88/	0.02	0.02
BP	0034	cellular response to unfolded protein	4/292	233	470	095 4
	620			28	993	419
	GO:			88/	0.02	0.02
BP	0045	positive regulation of carbohydrate metabolic process	4/292	233	470	095 4
	913			28	993	419
	GO:			88/	0.02	0.02
BP	0046	response to organophosphorus	4/292	233	470	095 4
	683			28	993	419
	GO:			88/	0.02	0.02
BP	1904	negative regulation of cation transmembrane transport	4/292	233	470	095 4
	063			28	993	419
	GO:			20/	0.02	0.02
BP	0001	lymphangiogenesis	2/292	233	557	153 2
	946			28	4	846

	GO:		20/	0.02	0.02	
BP	0002	regulation of antigen processing and presentation	2/292	233	557	153 2
	577			28	4	846
	GO:		20/	0.02	0.02	
BP	0002	MyD88-dependent toll-like receptor signaling pathway	2/292	233	557	153 2
	755			28	4	846
	GO:		20/	0.02	0.02	
BP	0006	bile acid biosynthetic process	2/292	233	557	153 2
	699			28	4	846
	GO:		20/	0.02	0.02	
BP	0008	androgen metabolic process	2/292	233	557	153 2
	209			28	4	846
	GO:		20/	0.02	0.02	
BP	0030	negative regulation of B cell proliferation	2/292	233	557	153 2
	889			28	4	846
	GO:		20/	0.02	0.02	
BP	0031	regulation of lipopolysaccharide-mediated signaling pathway	2/292	233	557	153 2
	664			28	4	846
	GO:		20/	0.02	0.02	
BP	0034	regulation of toll-like receptor 4 signaling pathway	2/292	233	557	153 2
	143			28	4	846
	GO:		20/	0.02	0.02	
BP	0046	gamma-delta T cell activation	2/292	233	557	153 2
	629			28	4	846
	GO:		20/	0.02	0.02	
BP	0051	negative regulation of meiotic cell cycle	2/292	233	557	153 2
	447			28	4	846
	GO:		20/	0.02	0.02	
BP	0071	negative regulation of cell cycle arrest	2/292	233	557	153 2
	157			28	4	846
	GO:		20/	0.02	0.02	
BP	0072	renal vesicle development	2/292	233	557	153 2
	087			28	4	846
	GO:		20/	0.02	0.02	
BP	0072	metanephric nephron epithelium development	2/292	233	557	153 2
	243			28	4	846
	GO:		20/	0.02	0.02	
BP	1904	cellular response to angiotensin	2/292	233	557	153 2
	385			28	4	846
	GO:		20/	0.02	0.02	
BP	1990	exosomal secretion	2/292	233	557	153 2
	182			28	4	846

	GO:		51/	0.02	0.02	
BP	0030 midbrain development	3/292	233	599	185	3
	901		28	421	247	
	GO:		51/	0.02	0.02	
BP	0042 amyloid precursor protein catabolic process	3/292	233	599	185	3
	987		28	421	247	
	GO:		51/	0.02	0.02	
BP	0046 phenol-containing compound biosynthetic process	3/292	233	599	185	3
	189		28	421	247	
	GO:		51/	0.02	0.02	
BP	0048 genitalia development	3/292	233	599	185	3
	806		28	421	247	
	GO:		134	0.02	0.02	
BP	0009 post-embryonic development	5/292	723	689	259	5
	791		328	079	589	
	GO:		52/	0.02	0.02	
BP	0002 positive regulation of myeloid leukocyte mediated immunity	3/292	233	733	292	3
	888		28	703	91	
	GO:		52/	0.02	0.02	
BP	0045 intermediate filament cytoskeleton organization	3/292	233	733	292	3
	104		28	703	91	
	GO:		52/	0.02	0.02	
BP	0060 regulation of microtubule-based movement	3/292	233	733	292	3
	632		28	703	91	
	GO:		52/	0.02	0.02	
BP	1903 negative regulation of oxidative stress-induced cell death	3/292	233	733	292	3
	202		28	703	91	
	GO:		91/	0.02	0.02	
BP	0002 lens development in camera-type eye	4/292	233	751	306	4
	088		28	951	119	
	GO:		91/	0.02	0.02	
BP	1900 regulation of cellular response to oxidative stress	4/292	233	751	306	4
	407		28	951	119	
	GO:		135	0.02	0.02	
BP	1901 cellular response to ketone	5/292	723	764	315	5
	655		328	997	999	
	GO:		21/	0.02	0.02	
BP	0002 blood vessel endothelial cell proliferation involved in sprouting angiogenesis	2/292	233	803	333	2
	043		28	606	509	
	GO:		21/	0.02	0.02	
BP	0003 growth plate cartilage development	2/292	233	803	333	2
	417		28	606	509	

	GO:		21/	0.02	0.02	
BP	0006 glycerol metabolic process	2/292	233	803	333	2
	071		28	606	509	
	GO:		21/	0.02	0.02	
BP	0010 response to iron ion	2/292	233	803	333	2
	039		28	606	509	
	GO:		21/	0.02	0.02	
BP	0036 dendritic cell migration	2/292	233	803	333	2
	336		28	606	509	
	GO:		21/	0.02	0.02	
BP	0045 positive regulation of glycolytic process	2/292	233	803	333	2
	821		28	606	509	
	GO:		21/	0.02	0.02	
BP	0046 muscle cell cellular homeostasis	2/292	233	803	333	2
	716		28	606	509	
	GO:		21/	0.02	0.02	
BP	0060 interferon-gamma-mediated signaling pathway	2/292	233	803	333	2
	333		28	606	509	
	GO:		21/	0.02	0.02	
BP	0060 negative regulation of digestive system process	2/292	233	803	333	2
	457		28	606	509	
	GO:		21/	0.02	0.02	
BP	0072 metanephric tubule development	2/292	233	803	333	2
	170		28	606	509	
	GO:		21/	0.02	0.02	
BP	0090 regulation of protein kinase C signaling	2/292	233	803	333	2
	036		28	606	509	
	GO:		21/	0.02	0.02	
BP	0097 extracellular exosome biogenesis	2/292	233	803	333	2
	734		28	606	509	
	GO:		21/	0.02	0.02	
BP	1902 positive regulation of amyloid-beta formation	2/292	233	803	333	2
	004		28	606	509	
	GO:		21/	0.02	0.02	
BP	2001 positive regulation of neuron migration	2/292	233	803	333	2
	224		28	606	509	
	GO:		92/	0.02	0.02	
BP	0002 myeloid cell activation involved in immune response	4/292	233	849	369	4
	275		28	665	708	
	GO:		92/	0.02	0.02	
BP	0055 iron ion homeostasis	4/292	233	849	369	4
	072		28	665	708	

	GO:		53/	0.02	0.02	
BP	0031 axon regeneration	3/292	233	871	382	3
	103		28	622	599	
	GO:		53/	0.02	0.02	
BP	0045 intermediate filament-based process	3/292	233	871	382	3
	103		28	622	599	
	GO:		53/	0.02	0.02	
BP	0046 negative regulation of insulin secretion	3/292	233	871	382	3
	676		28	622	599	
	GO:		53/	0.02	0.02	
BP	0055 ventricular cardiac muscle tissue morphogenesis	3/292	233	871	382	3
	010		28	622	599	
	GO:		53/	0.02	0.02	
BP	1900 negative regulation of cellular response to oxidative stress	3/292	233	871	382	3
	408		28	622	599	
	GO:		235	0.02	0.02	
BP	0021 central nervous system neuron differentiation	7/292	/23	901	405	7
	953		328	536	255	
	GO:		235	0.02	0.02	
BP	0031 positive regulation of protein-containing complex assembly	7/292	/23	901	405	7
	334		328	536	255	
	GO:		137	0.02	0.02	
BP	0007 cell cycle arrest	5/292	/23	920	420	5
	050		328	89	211	
	GO:		138	0.03	0.02	
BP	0001 action potential	5/292	/23	000	484	5
	508		328	877	256	
	GO:		138	0.03	0.02	
BP	0097 cellular response to alcohol	5/292	/23	000	484	5
	306		328	877	256	
	GO:		54/	0.03	0.02	
BP	0032 response to estradiol	3/292	233	013	488	3
	355		28	171	851	
	GO:		54/	0.03	0.02	
BP	0042 hydrogen peroxide metabolic process	3/292	233	013	488	3
	743		28	171	851	
	GO:		54/	0.03	0.02	
BP	0043 regulation of leukocyte degranulation	3/292	233	013	488	3
	300		28	171	851	
	GO:		54/	0.03	0.02	
BP	0048 digestive tract morphogenesis	3/292	233	013	488	3
	546		28	171	851	

	GO:		54/	0.03	0.02	
BP	0070 response to fatty acid	3/292	233	013	488	3
	542		28	171	851	
	GO:		22/	0.03	0.02	
BP	0003 type B pancreatic cell development	2/292	233	058	514	2
	323		28	905	247	
	GO:		22/	0.03	0.02	
BP	0010 positive regulation of cardiac muscle cell apoptotic process	2/292	233	058	514	2
	666		28	905	247	
	GO:		22/	0.03	0.02	
BP	0048 paraxial mesoderm development	2/292	233	058	514	2
	339		28	905	247	
	GO:		22/	0.03	0.02	
BP	0051 positive regulation of nitric-oxide synthase biosynthetic process	2/292	233	058	514	2
	770		28	905	247	
	GO:		22/	0.03	0.02	
BP	0070 thymocyte apoptotic process	2/292	233	058	514	2
	242		28	905	247	
	GO:		22/	0.03	0.02	
BP	0071 podosome assembly	2/292	233	058	514	2
	800		28	905	247	
	GO:		22/	0.03	0.02	
BP	0072 metanephric nephron morphogenesis	2/292	233	058	514	2
	273		28	905	247	
	GO:		22/	0.03	0.02	
BP	1901 negative regulation of NIK/NF-kappaB signaling	2/292	233	058	514	2
	223		28	905	247	
	GO:		22/	0.03	0.02	
BP	1903 regulation of glial cell migration	2/292	233	058	514	2
	975		28	905	247	
	GO:		22/	0.03	0.02	
BP	1990 response to angiotensin	2/292	233	058	514	2
	776		28	905	247	
	GO:		22/	0.03	0.02	
BP	2000 positive regulation of endothelial cell apoptotic process	2/292	233	058	514	2
	353		28	905	247	
	GO:		95/	0.03	0.02	
BP	2001 negative regulation of intrinsic apoptotic signaling pathway	4/292	233	155	592	4
	243		28	081	144	
	GO:		55/	0.03	0.02	
BP	0006 iron ion transport	3/292	233	158	592	3
	826		28	338	511	

	GO:		55/	0.03	0.02	
BP	0051 positive regulation of stress fiber assembly	3/292	233	158	592	3
	496		28	338	511	
	GO:		140	0.03	0.02	
BP	0009 determination of bilateral symmetry	5/292	/23	164	596	5
	855		328	96	792	
	GO:		240	0.03	0.02	
BP	0006 potassium ion transport	7/292	/23	199	623	7
	813		328	517	978	
	GO:		141	0.03	0.02	
BP	0009 specification of symmetry	5/292	/23	249	663	5
	799		328	069	432	
	GO:		350	0.03	0.02	
BP	0007 Ras protein signal transduction	9/292	/23	291	696	9
	265		328	176	752	
	GO:		56/	0.03	0.02	
BP	0002 negative regulation of leukocyte mediated immunity	3/292	233	307	703	3
	704		28	112	807	
	GO:		56/	0.03	0.02	
BP	0017 stem cell division	3/292	233	307	703	3
	145		28	112	807	
	GO:		56/	0.03	0.02	
BP	0051 synaptic transmission, GABAergic	3/292	233	307	703	3
	932		28	112	807	
	GO:		56/	0.03	0.02	
BP	1900 regulation of glutamate receptor signaling pathway	3/292	233	307	703	3
	449		28	112	807	
	GO:		56/	0.03	0.02	
BP	1902 negative regulation of response to oxidative stress	3/292	233	307	703	3
	883		28	112	807	
	GO:		23/	0.03	0.02	
BP	0002 regulation of response to tumor cell	2/292	233	323	707	2
	834		28	034	228	
	GO:		23/	0.03	0.02	
BP	0002 regulation of immune response to tumor cell	2/292	233	323	707	2
	837		28	034	228	
	GO:		23/	0.03	0.02	
BP	0010 positive regulation of striated muscle cell apoptotic process	2/292	233	323	707	2
	663		28	034	228	
	GO:		23/	0.03	0.02	
BP	0032 regulation of appetite	2/292	233	323	707	2
	098		28	034	228	

	GO:		23/	0.03	0.02	
BP	0036 lymph vessel morphogenesis	2/292	233	323	707	2
	303		28	034	228	
	GO:		23/	0.03	0.02	
BP	0048 mesodermal cell differentiation	2/292	233	323	707	2
	333		28	034	228	
	GO:		23/	0.03	0.02	
BP	0071 cellular response to cadmium ion	2/292	233	323	707	2
	276		28	034	228	
	GO:		23/	0.03	0.02	
BP	0140 extracellular vesicle biogenesis	2/292	233	323	707	2
	112		28	034	228	
	GO:		142	0.03	0.02	
BP	0050 detection of stimulus involved in sensory perception	5/292	/23	334	715	5
	906		328	561	42	
	GO:		191	0.03	0.02	
BP	0007 synapse assembly	6/292	/23	351	727	6
	416		328	469	985	
	GO:		97/	0.03	0.02	
BP	0006 regulation of pH	4/292	233	368	741	4
	885		28	969	02	
	GO:		57/	0.03	0.02	
BP	0051 response to cAMP	3/292	233	459	813	3
	591		28	481	421	
	GO:		98/	0.03	0.02	
BP	0036 cell death in response to oxidative stress	4/292	233	479	828	4
	473		28	008	055	
	GO:		99/	0.03	0.02	
BP	0021 limbic system development	4/292	233	591	907	4
	761		28	115	569	
	GO:		99/	0.03	0.02	
BP	0062 negative regulation of small molecule metabolic process	4/292	233	591	907	4
	014		28	115	569	
	GO:		24/	0.03	0.02	
BP	0019 alditol metabolic process	2/292	233	595	907	2
	400		28	733	569	
	GO:		24/	0.03	0.02	
BP	0021 olfactory bulb interneuron differentiation	2/292	233	595	907	2
	889		28	733	569	
	GO:		24/	0.03	0.02	
BP	0031 plasminogen activation	2/292	233	595	907	2
	639		28	733	569	

	GO:		24/	0.03	0.02	
BP	0031	positive regulation of protein autophosphorylation	2/292	233	595	907 2
	954			28	733	569
	GO:		24/	0.03	0.02	
BP	0033	positive regulation of mast cell activation	2/292	233	595	907 2
	008	involved in immune response		28	733	569
	GO:		24/	0.03	0.02	
BP	0043	positive regulation of mast cell degranulation	2/292	233	595	907 2
	306			28	733	569
	GO:		24/	0.03	0.02	
BP	0046	positive regulation of insulin receptor signaling pathway	2/292	233	595	907 2
	628			28	733	569
	GO:		24/	0.03	0.02	
BP	0050	negative regulation of phagocytosis	2/292	233	595	907 2
	765			28	733	569
	GO:		24/	0.03	0.02	
BP	0090	regulation of brown fat cell differentiation	2/292	233	595	907 2
	335			28	733	569
	GO:		24/	0.03	0.02	
BP	1903	negative regulation of oxidative stress-induced neuron death	2/292	233	595	907 2
	204			28	733	569
	GO:		58/	0.03	0.02	
BP	0035	cellular response to drug	3/292	233	615	922 3
	690			28	429	216
	GO:		247	0.03	0.02	
BP	0051	detection of stimulus	7/292	/23	650	948 7
	606			328	132	973
	GO:		146	0.03	0.02	
BP	0035	multicellular organismal signaling	5/292	/23	690	980 5
	637			328	466	254
	GO:		100	0.03	0.02	
BP	1902	regulation of response to oxidative stress	4/292	/23	705	990 4
	882			328	292	918
	GO:		248	0.03	0.02	
BP	0015	energy derivation by oxidation of organic compounds	7/292	/23	717	999 7
	980			328	751	663
	GO:		59/	0.03	0.03	
BP	0001	release of cytochrome c from mitochondria	3/292	233	774	040 3
	836			28	941	489
	GO:		59/	0.03	0.03	
BP	0002	morphogenesis of an epithelial sheet	3/292	233	774	040 3
	011			28	941	489

	GO:		59/	0.03	0.03	
BP	0042 neuron maturation	3/292	233	774	040	3
	551		28	941	489	
	GO:		59/	0.03	0.03	
BP	0071 regulation of cell cycle arrest	3/292	233	774	040	3
	156		28	941	489	
	GO:		147	0.03	0.03	
BP	0007 cell-cell junction assembly	5/292	/23	782	045	5
	043		328	948	609	
	GO:		250	0.03	0.03	
BP	0030 lipid modification	7/292	/23	855	102	7
	258		328	453	627	
	GO:		25/	0.03	0.03	
BP	0002 immune response to tumor cell	2/292	233	876	107	2
	418		28	746	566	
	GO:		25/	0.03	0.03	
BP	0003 glomerular filtration	2/292	233	876	107	2
	094		28	746	566	
	GO:		25/	0.03	0.03	
BP	0008 glucocorticoid metabolic process	2/292	233	876	107	2
	211		28	746	566	
	GO:		25/	0.03	0.03	
BP	0044 modulation by symbiont of host process	2/292	233	876	107	2
	003		28	746	566	
	GO:		25/	0.03	0.03	
BP	0046 response to arsenic-containing substance	2/292	233	876	107	2
	685		28	746	566	
	GO:		25/	0.03	0.03	
BP	0048 behavioral response to pain	2/292	233	876	107	2
	266		28	746	566	
	GO:		25/	0.03	0.03	
BP	0050 negative regulation of lipid catabolic process	2/292	233	876	107	2
	995		28	746	566	
	GO:		25/	0.03	0.03	
BP	0090 regulation of spindle assembly	2/292	233	876	107	2
	169		28	746	566	
	GO: negative regulation of intrinsic apoptotic		25/	0.03	0.03	
BP	1902 signaling pathway in response to DNA	2/292	233	876	107	2
	230 damage		28	746	566	
	GO:		60/	0.03	0.03	
BP	0060 face development	3/292	233	937	155	3
	324		28	999	295	

	GO:			200	0.04	0.03	
BP	1902	positive regulation of supramolecular fiber organization	6/292	/23	048	242	6
	905			328	716	598	
	GO:			103	0.04	0.03	
BP	0090	positive regulation of canonical Wnt signaling pathway	4/292	/23	060	250	4
	263			328	258	432	
	GO:			61/	0.04	0.03	
BP	0045	negative regulation of innate immune response	3/292	233	104	281	3
	824			28	585	646	
	GO:			61/	0.04	0.03	
BP	0060	inner ear receptor cell development	3/292	233	104	281	3
	119			28	585	646	
	GO:			61/	0.04	0.03	
BP	0061	selective autophagy	3/292	233	104	281	3
	912			28	585	646	
	GO:			26/	0.04	0.03	
BP	0006	phosphate ion transport	2/292	233	165	315	2
	817			28	826	75	
	GO:			26/	0.04	0.03	
BP	0009	catechol-containing compound biosynthetic process	2/292	233	165	315	2
	713			28	826	75	
	GO:			26/	0.04	0.03	
BP	0030	adrenal gland development	2/292	233	165	315	2
	325			28	826	75	
	GO:			26/	0.04	0.03	
BP	0042	catecholamine biosynthetic process	2/292	233	165	315	2
	423			28	826	75	
	GO:			26/	0.04	0.03	
BP	0070	negative regulation of biomineral tissue development	2/292	233	165	315	2
	168			28	826	75	
	GO:			26/	0.04	0.03	
BP	0090	positive regulation of release of cytochrome c from mitochondria	2/292	233	165	315	2
	200			28	826	75	
	GO:			26/	0.04	0.03	
BP	0097	renal filtration	2/292	233	165	315	2
	205			28	826	75	
	GO:			26/	0.04	0.03	
BP	0110	negative regulation of biomineralization	2/292	233	165	315	2
	150			28	826	75	
	GO:			26/	0.04	0.03	
BP	2000	positive regulation of gene silencing by miRNA	2/292	233	165	315	2
	637			28	826	75	

	GO:		26/	0.04	0.03	
BP	2000 positive regulation of stem cell differentiation	2/292	233	165	315	2
	738		28	826	75	
	GO:		151	0.04	0.03	
BP	0051 regulation of neurotransmitter transport	5/292	/23	167	315	5
	588		328	007	75	
	GO:		104	0.04	0.03	
BP	0014 response to purine-containing compound	4/292	/23	182	322	4
	074		328	728	529	
	GO:		104	0.04	0.03	
BP	0015 monoamine transport	4/292	/23	182	322	4
	844		328	728	529	
	GO:		104	0.04	0.03	
BP	0019 antibacterial humoral response	4/292	/23	182	322	4
	731		328	728	529	
	GO:		104	0.04	0.03	
BP	0046 cellular transition metal ion homeostasis	4/292	/23	182	322	4
	916		328	728	529	
	GO:		202	0.04	0.03	
BP	0048 appendage development	6/292	/23	215	345	6
	736		328	213	453	
	GO:		202	0.04	0.03	
BP	0060 limb development	6/292	/23	215	345	6
	173		328	213	453	
	GO:		62/	0.04	0.03	
BP	0003 ventricular cardiac muscle tissue development	3/292	233	274	386	3
	229		28	679	821	
	GO:		62/	0.04	0.03	
BP	0050 regulation of antigen receptor-mediated signaling pathway	3/292	233	274	386	3
	854		28	679	821	
	GO:		62/	0.04	0.03	
BP	0050 detection of mechanical stimulus	3/292	233	274	386	3
	982		28	679	821	
	GO:		62/	0.04	0.03	
BP	0060 endochondral bone morphogenesis	3/292	233	274	386	3
	350		28	679	821	
	GO:		105	0.04	0.03	
BP	0045 positive regulation of exocytosis	4/292	/23	307	411	4
	921		328	272	18	
	GO:		106	0.04	0.03	
BP	0006 aminoglycan metabolic process	4/292	/23	433	509	4
	022		328	888	949	

	GO:		258	0.04	0.03	
BP	0007 locomotory behavior	7/292	/23	439	512	7
	626		328	554	927	
	GO:		63/	0.04	0.03	
BP	0001 heart looping	3/292	233	448	513	3
	947		28	258	186	
	GO:		63/	0.04	0.03	
BP	0050 regulation of lipid catabolic process	3/292	233	448	513	3
	994		28	258	186	
	GO:		27/	0.04	0.03	
BP	0002 glandular epithelial cell development	2/292	233	462	513	2
	068		28	728	186	
	GO:		27/	0.04	0.03	
BP	0003 renal system process involved in regulation of systemic arterial blood pressure	2/292	233	462	513	2
	071		28	728	186	
	GO:		27/	0.04	0.03	
BP	0045 respiratory burst	2/292	233	462	513	2
	730		28	728	186	
	GO:		27/	0.04	0.03	
BP	0051 nitric-oxide synthase biosynthetic process	2/292	233	462	513	2
	767		28	728	186	
	GO:		27/	0.04	0.03	
BP	0051 regulation of nitric-oxide synthase biosynthetic process	2/292	233	462	513	2
	769		28	728	186	
	GO:		27/	0.04	0.03	
BP	0060 positive regulation of posttranscriptional gene silencing	2/292	233	462	513	2
	148		28	728	186	
	GO:		27/	0.04	0.03	
BP	0071 hematopoietic stem cell proliferation	2/292	233	462	513	2
	425		28	728	186	
	GO:		27/	0.04	0.03	
BP	0090 cochlea morphogenesis	2/292	233	462	513	2
	103		28	728	186	
	GO:		27/	0.04	0.03	
BP	1901 positive regulation of potassium ion transmembrane transporter activity	2/292	233	462	513	2
	018		28	728	186	
	GO:		27/	0.04	0.03	
BP	1905 regulation of gonad development	2/292	233	462	513	2
	939		28	728	186	
	GO:		154	0.04	0.03	
BP	1901 fatty acid derivative metabolic process	5/292	/23	469	517	5
	568		328	973	388	

	GO:		206	0.04	0.03	
BP	0060 skeletal muscle organ development	6/292	/23	560	587	6
	538		328	997	199	
	GO:		107	0.04	0.03	
BP	0019 fatty acid oxidation	4/292	/23	562	587	4
	395		328	577	199	
	GO:		64/	0.04	0.03	
BP	0043 positive regulation of DNA binding	3/292	233	625	630	3
	388		28	303	328	
	GO:		64/	0.04	0.03	
BP	0046 polyol biosynthetic process	3/292	233	625	630	3
	173		28	303	328	
	GO:		64/	0.04	0.03	
BP	0048 platelet-derived growth factor receptor signaling pathway	3/292	233	625	630	3
	008		28	303	328	
	GO:		64/	0.04	0.03	
BP	0051 negative regulation of nuclear division	3/292	233	625	630	3
	784		28	303	328	
	GO:		374	0.04	0.03	
BP	0006 phospholipid metabolic process	9/292	/23	675	668	9
	644		328	526	187	
	GO:		108	0.04	0.03	
BP	0032 negative regulation of protein binding	4/292	/23	693	680	4
	091		328	336	595	
	GO:		28/	0.04	0.03	
BP	0002 response to tumor cell	2/292	233	767	722	2
	347		28	211	708	
	GO:		28/	0.04	0.03	
BP	0006 aminoglycan catabolic process	2/292	233	767	722	2
	026		28	211	708	
	GO:		28/	0.04	0.03	
BP	0030 thyroid gland development	2/292	233	767	722	2
	878		28	211	708	
	GO:		28/	0.04	0.03	
BP	0035 endodermal cell differentiation	2/292	233	767	722	2
	987		28	211	708	
	GO:		28/	0.04	0.03	
BP	0045 positive regulation of natural killer cell mediated cytotoxicity	2/292	233	767	722	2
	954		28	211	708	
	GO:		28/	0.04	0.03	
BP	0051 positive regulation of meiotic cell cycle	2/292	233	767	722	2
	446		28	211	708	

	GO:		28/	0.04	0.03		
BP	0060	pericardium development	2/292	233	767	722	2
	039			28	211	708	
	GO:		28/	0.04	0.03		
BP	0060	regulation of SMAD protein signal	2/292	233	767	722	2
	390	transduction		28	211	708	
	GO:		28/	0.04	0.03		
BP	1904	excitatory synapse assembly	2/292	233	767	722	2
	861			28	211	708	
	GO:		28/	0.04	0.03		
BP	2000	regulation of NMDA receptor activity	2/292	233	767	722	2
	310			28	211	708	
	GO:		65/	0.04	0.03		
BP	0032	positive regulation of actin filament bundle	3/292	233	805	749	3
	233	assembly		28	788	659	
	GO:		65/	0.04	0.03		
BP	0042	tissue regeneration	3/292	233	805	749	3
	246			28	788	659	
	GO:		109	0.04	0.03		
BP	0035	synaptic transmission, glutamatergic	4/292	/23	826	763	4
	249			328	162	964	
	GO:		110	0.04	0.03		
BP	0017	regulation of transforming growth factor	4/292	/23	961	865	4
	015	beta receptor signaling pathway		328	054	899	
	GO:		110	0.04	0.03		
BP	0035	cellular response to topologically incorrect	4/292	/23	961	865	4
	967	protein		328	054	899	
	GO:		66/	0.04	0.03		
BP	0042	amyloid precursor protein metabolic process	3/292	233	989	886	3
	982			28	689	572	
	GO:		379	0.05	0.03		
BP	0003	regionalization	9/292	/23	006	897	9
	002			328	266	839	
	GO:		29/	0.05	0.03		
BP	0002	desensitization of G protein-coupled	2/292	233	079	936	2
	029	receptor signaling pathway		28	042	232	
	GO:		29/	0.05	0.03		
BP	0002	positive regulation of natural killer cell	2/292	233	079	936	2
	717	mediated immunity		28	042	232	
	GO:		29/	0.05	0.03		
BP	0003	endochondral bone growth	2/292	233	079	936	2
	416			28	042	232	

	GO:			29/	0.05	0.03	
BP	0010	positive regulation of peptidyl-threonine phosphorylation	2/292	233	079	936	2
	800			28	042	232	
	GO:			29/	0.05	0.03	
BP	0021	central nervous system projection neuron axonogenesis	2/292	233	079	936	2
	952			28	042	232	
	GO:			29/	0.05	0.03	
BP	0022	negative adaptation of signaling pathway	2/292	233	079	936	2
	401			28	042	232	
	GO:			29/	0.05	0.03	
BP	0030	melanocyte differentiation	2/292	233	079	936	2
	318			28	042	232	
	GO:			29/	0.05	0.03	
BP	0042	thyroid hormone metabolic process	2/292	233	079	936	2
	403			28	042	232	
	GO:			29/	0.05	0.03	
BP	0045	negative regulation of heart contraction	2/292	233	079	936	2
	822			28	042	232	
	GO:			29/	0.05	0.03	
BP	0061	cell surface receptor signaling pathway involved in heart development	2/292	233	079	936	2
	311			28	042	232	
	GO:			29/	0.05	0.03	
BP	0071	cellular response to interleukin-4	2/292	233	079	936	2
	353			28	042	232	
	GO:			111	0.05	0.03	
BP	0016	regulation of macroautophagy	4/292	/23	098	949	4
	241			328	007	271	
	GO:			67/	0.05	0.04	
BP	0010	positive regulation of cellular carbohydrate metabolic process	3/292	233	176	007	3
	676			28	981	086	
	GO:			67/	0.05	0.04	
BP	2000	negative regulation of reproductive process	3/292	233	176	007	3
	242			28	981	086	
	GO:			112	0.05	0.04	
BP	1903	regulation of cellular response to transforming growth factor beta stimulus	4/292	/23	237	051	4
	844			328	019	856	
	GO:			214	0.05	0.04	
BP	0010	regulation of cell-substrate adhesion	6/292	/23	304	102	6
	810			328	244	149	
	GO:			68/	0.05	0.04	
BP	0097	execution phase of apoptosis	3/292	233	367	147	3
	194			28	637	698	

	GO:		68/	0.05	0.04	
BP	0099	regulation of neurotransmitter receptor activity	3/292	233	367	147 3
	601			28	637	698
	GO:		30/	0.05	0.04	
BP	0001	lymph vessel development	2/292	233	397	155 2
	945			28	989	491
	GO:		30/	0.05	0.04	
BP	0003	type B pancreatic cell differentiation	2/292	233	397	155 2
	309			28	989	491
	GO:		30/	0.05	0.04	
BP	0006	substrate-dependent cell migration	2/292	233	397	155 2
	929			28	989	491
	GO:		30/	0.05	0.04	
BP	0021	cranial nerve morphogenesis	2/292	233	397	155 2
	602			28	989	491
	GO:		30/	0.05	0.04	
BP	0030	regulation of vascular endothelial growth factor receptor signaling pathway	2/292	233	397	155 2
	947			28	989	491
	GO:		30/	0.05	0.04	
BP	0032	positive regulation of natural killer cell activation	2/292	233	397	155 2
	816			28	989	491
	GO:		30/	0.05	0.04	
BP	0048	negative regulation of behavior	2/292	233	397	155 2
	521			28	989	491
	GO:		30/	0.05	0.04	
BP	0048	positive regulation of oligodendrocyte differentiation	2/292	233	397	155 2
	714			28	989	491
	GO:		30/	0.05	0.04	
BP	0050	positive regulation of lipid catabolic process	2/292	233	397	155 2
	996			28	989	491
	GO:		163	0.05	0.04	
BP	0006	striated muscle contraction	5/292	/23	456	198 5
	941			328	166	525
	GO:		216	0.05	0.04	
BP	0035	multicellular organism growth	6/292	/23	500	231 6
	264			328	908	189
	GO:		114	0.05	0.04	
BP	0034	lipid oxidation	4/292	/23	521	245 4
	440			328	199	027
	GO:		69/	0.05	0.04	
BP	0009	embryonic pattern specification	3/292	233	561	270 3
	880			28	631	775

	GO:		69/	0.05	0.04	
BP	0048 regulation of neuronal synaptic plasticity	3/292	233	561	270	3
	168		28	631	775	
	GO:		69/	0.05	0.04	
BP	0061 determination of heart left/right asymmetry	3/292	233	561	270	3
	371		28	631	775	
	GO:		115	0.05	0.04	
BP	0019 polyol metabolic process	4/292	/23	666	347	4
	751		328	359	577	
	GO:		115	0.05	0.04	
BP	0048 regulation of receptor-mediated endocytosis	4/292	/23	666	347	4
	259		328	359	577	
	GO:		389	0.05	0.04	
BP	0006 exocytosis	9/292	/23	713	371	9
	887		328	206	676	
	GO:		31/	0.05	0.04	
BP	0001 synaptic transmission, dopaminergic	2/292	233	723	371	2
	963		28	828	676	
	GO:		31/	0.05	0.04	
BP	0002 regulation of the force of heart contraction	2/292	233	723	371	2
	026		28	828	676	
	GO:		31/	0.05	0.04	
BP	0002 chondrocyte development	2/292	233	723	371	2
	063		28	828	676	
	GO:		31/	0.05	0.04	
BP	0002 positive regulation of receptor internalization	2/292	233	723	371	2
	092		28	828	676	
	GO:		31/	0.05	0.04	
BP	0023 adaptation of signaling pathway	2/292	233	723	371	2
	058		28	828	676	
	GO:		31/	0.05	0.04	
BP	0044 wound healing, spreading of cells	2/292	233	723	371	2
	319		28	828	676	
	GO:		31/	0.05	0.04	
BP	0048 neurotrophin TRK receptor signaling	2/292	233	723	371	2
	011 pathway		28	828	676	
	GO:		31/	0.05	0.04	
BP	0070 response to interleukin-4	2/292	233	723	371	2
	670		28	828	676	
	GO:		31/	0.05	0.04	
BP	0090 epiboly involved in wound healing	2/292	233	723	371	2
	505		28	828	676	

	GO:		31/	0.05	0.04	
BP	1900 regulation of execution phase of apoptosis	2/292	233	723	371	2
	117		28	828	676	
	GO:		70/	0.05	0.04	
BP	0003 embryonic heart tube morphogenesis	3/292	233	758	396	3
	143		28	932	668	
	GO:		166	0.05	0.04	
BP	0007 female pregnancy	5/292	/23	810	432	5
	565		328	739	869	
	GO:		116	0.05	0.04	
BP	0009 response to toxic substance	4/292	/23	813	432	4
	636		328	558	869	
	GO:		116	0.05	0.04	
BP	0043 regulation of RNA stability	4/292	/23	813	432	4
	487		328	558	869	
	GO:		167	0.05	0.04	
BP	0051 negative regulation of binding	5/292	/23	931	519	5
	100		328	8	295	
	GO:		167	0.05	0.04	
BP	2001 regulation of intrinsic apoptotic signaling pathway	5/292	/23	931	519	5
	242		328	8	295	
	GO:		71/	0.05	0.04	
BP	0043 negative regulation of MAP kinase activity	3/292	233	959	535	3
	407		28	513	415	
	GO:		117	0.05	0.04	
BP	0006 response to unfolded protein	4/292	/23	962	535	4
	986		328	789	415	
	GO:		117	0.05	0.04	
BP	0071 negative regulation of protein serine/threonine kinase activity	4/292	/23	962	535	4
	901		328	789	415	
	GO:		117	0.05	0.04	
BP	1901 positive regulation of cell junction assembly	4/292	/23	962	535	4
	890		328	789	415	
	GO:		32/	0.06	0.04	
BP	0002 regulation of B cell apoptotic process	2/292	233	056	583	2
	902		28	337	895	
	GO:		32/	0.06	0.04	
BP	0032 negative regulation of interleukin-1 production	2/292	233	056	583	2
	692		28	337	895	
	GO:		32/	0.06	0.04	
BP	0032 positive regulation of interleukin-2 production	2/292	233	056	583	2
	743		28	337	895	

	GO:		32/	0.06	0.04	
BP	0032 inositol phosphate biosynthetic process	2/292	233	056	583	2
	958		28	337	895	
	GO:		32/	0.06	0.04	
BP	0035 positive regulation of histone acetylation	2/292	233	056	583	2
	066		28	337	895	
	GO:		32/	0.06	0.04	
BP	0040 regulation of fibroblast growth factor	2/292	233	056	583	2
	036 receptor signaling pathway		28	337	895	
	GO:		32/	0.06	0.04	
BP	0042 regulation of circadian sleep/wake cycle	2/292	233	056	583	2
	749		28	337	895	
	GO:		32/	0.06	0.04	
BP	0050 arachidonic acid secretion	2/292	233	056	583	2
	482		28	337	895	
	GO:		32/	0.06	0.04	
BP	0071 cellular response to interleukin-6	2/292	233	056	583	2
	354		28	337	895	
	GO:		32/	0.06	0.04	
BP	0090 epiboly	2/292	233	056	583	2
	504		28	337	895	
	GO:		32/	0.06	0.04	
BP	1903 arachidonate transport	2/292	233	056	583	2
	963		28	337	895	
	GO:		32/	0.06	0.04	
BP	2000 negative regulation of CD4-positive, alpha-	2/292	233	056	583	2
	515 beta T cell activation		28	337	895	
	GO:		222	0.06	0.04	
BP	0060 bone development	6/292	/23	117	627	6
	348		328	096	984	
	GO:		72/	0.06	0.04	
BP	0048 antigen processing and presentation of	3/292	233	163	661	3
	002 peptide antigen		28	343	061	
	GO:		169	0.06	0.04	
BP	0071 DNA biosynthetic process	5/292	/23	178	670	5
	897		328	224	401	
	GO:		223	0.06	0.04	
BP	0016 organic acid catabolic process	6/292	/23	223	700	6
	054		328	622	868	
	GO:		223	0.06	0.04	
BP	0046 carboxylic acid catabolic process	6/292	/23	223	700	6
	395		328	622	868	

	GO:		119	0.06	0.04	
BP	0001 regulation of cell-matrix adhesion	4/292	/23	267	731	4
	952		328	326	942	
	GO:		73/	0.06	0.04	
BP	0021 forebrain neuron differentiation	3/292	233	370	805	3
	879		28	392	825	
	GO:		73/	0.06	0.04	
BP	0043 response to estrogen	3/292	233	370	805	3
	627		28	392	825	
	GO:		33/	0.06	0.04	
BP	0000 activation of MAPKK activity	2/292	233	395	806	2
	186		28	299	928	
	GO:		33/	0.06	0.04	
BP	0021 forebrain neuron development	2/292	233	395	806	2
	884		28	299	928	
	GO:		33/	0.06	0.04	
BP	0032 negative regulation of lipid transport	2/292	233	395	806	2
	369		28	299	928	
	GO:		33/	0.06	0.04	
BP	0032 positive regulation of cytokinesis	2/292	233	395	806	2
	467		28	299	928	
	GO:		33/	0.06	0.04	
BP	0045 regulation of keratinocyte differentiation	2/292	233	395	806	2
	616		28	299	928	
	GO:		33/	0.06	0.04	
BP	0048 sperm capacitation	2/292	233	395	806	2
	240		28	299	928	
	GO:		33/	0.06	0.04	
BP	0048 embryonic digestive tract development	2/292	233	395	806	2
	566		28	299	928	
	GO:		33/	0.06	0.04	
BP	0060 cell differentiation involved in embryonic placenta development	2/292	233	395	806	2
	706		28	299	928	
	GO:		33/	0.06	0.04	
BP	0070 necroptotic process	2/292	233	395	806	2
	266		28	299	928	
	GO:		120	0.06	0.04	
BP	0006 pyruvate metabolic process	4/292	/23	422	825	4
	090		328	618	497	
	GO:		171	0.06	0.04	
BP	0030 regulation of actin filament polymerization	5/292	/23	430	827	5
	833		328	372	392	

	GO:		171	0.06	0.04	
BP	0030 hindbrain development	5/292	/23	430	827	5
	902		328	372	392	
	GO:		74/	0.06	0.04	
BP	0021 hippocampus development	3/292	233	580	938	3
	766		28	627	181	
	GO: negative regulation of transmembrane		122	0.06	0.05	
BP	0090 receptor protein serine/threonine kinase	4/292	/23	739	049	4
	101 signaling pathway		328	209	939	
	GO:		34/	0.06	0.05	
BP	0035 enteroendocrine cell differentiation	2/292	233	740	049	2
	883		28	502	939	
	GO: positive regulation of cAMP-mediated		34/	0.06	0.05	
BP	0043 signaling	2/292	233	740	049	2
	950		28	502	939	
	GO:		34/	0.06	0.05	
BP	0070 response to interleukin-6	2/292	233	740	049	2
	741		28	502	939	
	GO:		75/	0.06	0.05	
BP	0034 homotypic cell-cell adhesion	3/292	233	794	087	3
	109		28	017	966	
	GO:		229	0.06	0.05	
BP	0016 protein processing	6/292	/23	885	154	6
	485		328	753	575	
	GO:		76/	0.07	0.05	
BP	0000 polysaccharide biosynthetic process	3/292	233	010	245	3
	271		28	528	851	
	GO:		35/	0.07	0.05	
BP	0001 gastrulation with mouth forming second	2/292	233	091	283	2
	702		28	738	053	
	GO:		35/	0.07	0.05	
BP	0002 neutrophil mediated immunity	2/292	233	091	283	2
	446		28	738	053	
	GO:		35/	0.07	0.05	
BP	0003 respiratory system process	2/292	233	091	283	2
	016		28	738	053	
	GO:		35/	0.07	0.05	
BP	0006 DNA catabolic process	2/292	233	091	283	2
	308		28	738	053	
	GO: negative regulation of toll-like receptor		35/	0.07	0.05	
BP	0034 signaling pathway	2/292	233	091	283	2
	122		28	738	053	

	GO:			35/	0.07	0.05	
BP	0035	positive regulation of Rho protein signal transduction	2/292	233	091	283	2
	025			28	738	053	
	GO:			35/	0.07	0.05	
BP	0043	positive regulation of leukocyte degranulation	2/292	233	091	283	2
	302			28	738	053	
	GO:			35/	0.07	0.05	
BP	0046	response to cadmium ion	2/292	233	091	283	2
	686			28	738	053	
	GO:			35/	0.07	0.05	
BP	0060	regulation of mitotic spindle organization	2/292	233	091	283	2
	236			28	738	053	
	GO:			35/	0.07	0.05	
BP	1902	regulation of amyloid-beta formation	2/292	233	091	283	2
	003			28	738	053	
	GO:			35/	0.07	0.05	
BP	1903	regulation of cell maturation	2/292	233	091	283	2
	429			28	738	053	
	GO:			77/	0.07	0.05	
BP	0045	negative regulation of striated muscle tissue development	3/292	233	230	381	3
	843			28	127	802	
	GO:			77/	0.07	0.05	
BP	0071	cellular response to calcium ion	3/292	233	230	381	3
	277			28	127	802	
	GO:			36/	0.07	0.05	
BP	0035	aorta morphogenesis	2/292	233	448	518	2
	909			28	802	595	
	GO:			36/	0.07	0.05	
BP	0042	circadian sleep/wake cycle	2/292	233	448	518	2
	745			28	802	595	
	GO:			36/	0.07	0.05	
BP	0048	regulation of long-term neuronal synaptic plasticity	2/292	233	448	518	2
	169			28	802	595	
	GO:			36/	0.07	0.05	
BP	0048	regulation of axon regeneration	2/292	233	448	518	2
	679			28	802	595	
	GO:			36/	0.07	0.05	
BP	0060	cartilage development involved in endochondral bone morphogenesis	2/292	233	448	518	2
	351			28	802	595	
	GO:			36/	0.07	0.05	
BP	0071	cellular response to fatty acid	2/292	233	448	518	2
	398			28	802	595	

	GO:			36/	0.07	0.05	
BP	2000	positive regulation of peptidyl-lysine acetylation	2/292	233	448	518	2
	758			28	802	595	
	GO:			78/	0.07	0.05	
BP	0002	columnar/cuboidal epithelial cell development	3/292	233	452	518	3
	066			28	78	595	
	GO:			78/	0.07	0.05	
BP	0032	negative regulation of NF-kappaB transcription factor activity	3/292	233	452	518	3
	088			28	78	595	
	GO:			78/	0.07	0.05	
BP	0060	neuroepithelial cell differentiation	3/292	233	452	518	3
	563			28	78	595	
	GO:			78/	0.07	0.05	
BP	0060	coronary vasculature development	3/292	233	452	518	3
	976			28	78	595	
	GO:			78/	0.07	0.05	
BP	0070	negative regulation of ERK1 and ERK2 cascade	3/292	233	452	518	3
	373			28	78	595	
	GO:			78/	0.07	0.05	
BP	0072	intrinsic apoptotic signaling pathway by p53 class mediator	3/292	233	452	518	3
	332			28	78	595	
	GO:			234	0.07	0.05	
BP	0006	sodium ion transport	6/292	/23	467	527	6
	814			328	581	337	
	GO:			293	0.07	0.05	
BP	0051	protein polymerization	7/292	/23	643	655	7
	258			328	742	459	
	GO:			79/	0.07	0.05	
BP	0048	neuron fate commitment	3/292	233	678	676	3
	663			28	451	588	
	GO:			79/	0.07	0.05	
BP	0051	regulation of synaptic transmission, glutamatergic	3/292	233	678	676	3
	966			28	451	588	
	GO:			128	0.07	0.05	
BP	0010	positive regulation of cell-substrate adhesion	4/292	/23	736	714	4
	811			328	425	868	
	GO:			128	0.07	0.05	
BP	0043	regulation of protein-containing complex disassembly	4/292	/23	736	714	4
	244			328	425	868	
	GO:			37/	0.07	0.05	
BP	0002	activation of innate immune response	2/292	233	811	763	2
	218			28	496	401	

	GO:		37/	0.07	0.05	
BP	0014 response to activity	2/292	233	811	763	2
	823		28	496	401	
	GO:		37/	0.07	0.05	
BP	0021 cerebellar Purkinje cell layer development	2/292	233	811	763	2
	680		28	496	401	
	GO:		80/	0.07	0.05	
BP	0034 cellular carbohydrate biosynthetic process	3/292	233	907	829	3
	637		28	107	282	
	GO:		80/	0.07	0.05	
BP	1901 negative regulation of muscle tissue development	3/292	233	907	829	3
	862		28	107	282	
	GO:		38/	0.08	0.06	
BP	0001 endoderm formation	2/292	233	179	003	2
	706		28	624	802	
	GO:		38/	0.08	0.06	
BP	0010 positive regulation of muscle cell apoptotic process	2/292	233	179	003	2
	661		28	624	802	
	GO:		38/	0.08	0.06	
BP	0030 granulocyte differentiation	2/292	233	179	003	2
	851		28	624	802	
	GO:		38/	0.08	0.06	
BP	0038 vascular endothelial growth factor signaling pathway	2/292	233	179	003	2
	084		28	624	802	
	GO:		38/	0.08	0.06	
BP	0045 regulation of endothelial cell differentiation	2/292	233	179	003	2
	601		28	624	802	
	GO:		38/	0.08	0.06	
BP	0051 intracellular pH reduction	2/292	233	179	003	2
	452		28	624	802	
	GO:		38/	0.08	0.06	
BP	0060 placenta blood vessel development	2/292	233	179	003	2
	674		28	624	802	
	GO:		38/	0.08	0.06	
BP	0070 protein kinase C signaling	2/292	233	179	003	2
	528		28	624	802	
	GO:		38/	0.08	0.06	
BP	1903 negative regulation of calcium ion transmembrane transport	2/292	233	179	003	2
	170		28	624	802	
	GO:		38/	0.08	0.06	
BP	1904 positive regulation of epithelial cell apoptotic process	2/292	233	179	003	2
	037		28	624	802	

	GO:		38/	0.08	0.06	
BP	2000	positive regulation of excitatory postsynaptic potential	2/292	233	179	003 2
	463			28	624	802
	GO:			240	0.08	0.06
BP	1903	regulation of protein modification by small protein conjugation or removal	6/292	/23	201	017 6
	320			328	66	583
	GO:			184	0.08	0.06
BP	0140	meiotic nuclear division	5/292	/23	207	019 5
	013			328	613	558
	GO:			359	0.08	0.06
BP	0007	germ cell development	8/292	/23	317	097 8
	281			328	439	682
	GO:			360	0.08	0.06
BP	0046	glycerolipid metabolic process	8/292	/23	419	170 8
	486			328	473	033
	GO:			39/	0.08	0.06
BP	0030	positive regulation of BMP signaling pathway	2/292	233	552	257 2
	513			28	993	939
	GO:			39/	0.08	0.06
BP	0032	regulation of polysaccharide biosynthetic process	2/292	233	552	257 2
	885			28	993	939
	GO:			39/	0.08	0.06
BP	0050	pigment cell differentiation	2/292	233	552	257 2
	931			28	993	939
	GO:			39/	0.08	0.06
BP	0090	regulation of spindle organization	2/292	233	552	257 2
	224			28	993	939
	GO:			83/	0.08	0.06
BP	0021	forebrain generation of neurons	3/292	233	610	297 3
	872			28	612	6
	GO:			187	0.08	0.06
BP	0030	actin filament polymerization	5/292	/23	651	324 5
	041			328	306	856
	GO:			188	0.08	0.06
BP	0008	regulation of actin polymerization or depolymerization	5/292	/23	801	430 5
	064			328	952	759
	GO:			134	0.08	0.06
BP	0055	transition metal ion homeostasis	4/292	/23	803	430 4
	076			328	134	759
	GO:			84/	0.08	0.06
BP	0006	regulation of striated muscle contraction	3/292	233	850	463 3
	942			28	838	049

	GO:		40/	0.08	0.06	
BP	0001 neurotransmitter uptake	2/292	233	931	496	2
	504		28	416	181	
	GO:		40/	0.08	0.06	
BP	0007 long-term memory	2/292	233	931	496	2
	616		28	416	181	
	GO:		40/	0.08	0.06	
BP	0015 neutral amino acid transport	2/292	233	931	496	2
	804		28	416	181	
	GO:		40/	0.08	0.06	
BP	0040 positive regulation of embryonic development	2/292	233	931	496	2
	019		28	416	181	
	GO:		40/	0.08	0.06	
BP	0045 positive regulation of nucleotide metabolic process	2/292	233	931	496	2
	981		28	416	181	
	GO:		40/	0.08	0.06	
BP	0060 face morphogenesis	2/292	233	931	496	2
	325		28	416	181	
	GO:		40/	0.08	0.06	
BP	0085 extracellular matrix assembly	2/292	233	931	496	2
	029		28	416	181	
	GO:		40/	0.08	0.06	
BP	0086 regulation of cardiac muscle cell contraction	2/292	233	931	496	2
	004		28	416	181	
	GO:		40/	0.08	0.06	
BP	1900 positive regulation of purine nucleotide metabolic process	2/292	233	931	496	2
	544		28	416	181	
	GO:		40/	0.08	0.06	
BP	1903 regulation of anion transmembrane transport	2/292	233	931	496	2
	959		28	416	181	
	GO:		365	0.08	0.06	
BP	0048 regulation of synaptic plasticity	8/292	/23	940	500	8
	167		328	679	357	
	GO:		135	0.08	0.06	
BP	0051 interaction with host	4/292	/23	987	531	4
	701		328	504	828	
	GO:		85/	0.09	0.06	
BP	0051 catecholamine transport	3/292	233	093	606	3
	937		28	863	524	
	GO:		190	0.09	0.06	
BP	0055 striated muscle cell development	5/292	/23	107	613	5
	002		328	337	709	

	GO:		136	0.09	0.06	
BP	0035 gene silencing by miRNA	4/292	/23	173	659	4
	195		328	724	298	
	GO:		191	0.09	0.06	
BP	0030 regulation of actin filament length	5/292	/23	262	720	5
	832		328	065	781	
	GO:		41/	0.09	0.06	
BP	0002 negative regulation of leukocyte migration	2/292	233	314	745	2
	686		28	709	718	
	GO:		41/	0.09	0.06	
BP	0014 Schwann cell differentiation	2/292	233	314	745	2
	037		28	709	718	
	GO:		41/	0.09	0.06	
BP	0034 amyloid-beta formation	2/292	233	314	745	2
	205		28	709	718	
	GO:		41/	0.09	0.06	
BP	0045 negative regulation of endocytosis	2/292	233	314	745	2
	806		28	709	718	
	GO:		41/	0.09	0.06	
BP	0097 programmed necrotic cell death	2/292	233	314	745	2
	300		28	709	718	
	GO:		86/	0.09	0.06	
BP	0035 embryonic heart tube development	3/292	233	339	755	3
	050		28	649	825	
	GO:		86/	0.09	0.06	
BP	0120 tight junction assembly	3/292	233	339	755	3
	192		28	649	825	
	GO:		86/	0.09	0.06	
BP	1901 regulation of potassium ion transmembrane transport	3/292	233	339	755	3
	379		28	649	825	
	GO:		137	0.09	0.06	
BP	0035 modulation of process of other organism	4/292	/23	361	769	4
	821		328	779	179	
	GO:		250	0.09	0.06	
BP	0031 negative regulation of cellular catabolic process	6/292	/23	511	874	6
	330		328	156	495	
	GO:		193	0.09	0.06	
BP	0009 epidermal cell differentiation	5/292	/23	575	918	5
	913		328	562	337	
	GO:		251	0.09	0.06	
BP	0007 aging	6/292	/23	647	965	6
	568		328	947	18	

	GO:		251	0.09	0.06	
BP	0098 import into cell	6/292	/23	647	965	6
	657		328	947	18	
	GO:		42/	0.09	0.06	
BP	0001 cell fate determination	2/292	233	702	996	2
	709		28	691	49	
	GO:		42/	0.09	0.06	
BP	0021 central nervous system neuron axonogenesis	2/292	233	702	996	2
	955		28	691	49	
	GO:		42/	0.09	0.06	
BP	0042 dopamine metabolic process	2/292	233	702	996	2
	417		28	691	49	
	GO:		139	0.09	0.07	
BP	0055 cardiac muscle cell differentiation	4/292	/23	743	023	4
	007		328	343	06	
	GO:		88/	0.09	0.07	
BP	0006 energy reserve metabolic process	3/292	233	839	081	3
	112		28	353	2	
	GO:		88/	0.09	0.07	
BP	0060 excitatory postsynaptic potential	3/292	233	839	081	3
	079		28	353	2	
	GO:		88/	0.09	0.07	
BP	1901 positive regulation of mitotic cell cycle phase transition	3/292	233	839	081	3
	992		28	353	2	
	GO:		88/	0.09	0.07	
BP	1903 negative regulation of protein modification by small protein conjugation or removal	3/292	233	839	081	3
	321		28	353	2	
	GO:		253	0.09	0.07	
BP	0046 ATP metabolic process	6/292	/23	924	139	6
	034		328	676	821	
	GO:		196	0.10	0.07	
BP	0007 skeletal muscle tissue development	5/292	/23	055	231	5
	519		328	823	348	
	GO:		254	0.10	0.07	
BP	0017 regulation of exocytosis	6/292	/23	064	231	6
	157		328	609	474	
	GO:		43/	0.10	0.07	
BP	0001 B cell apoptotic process	2/292	233	095	231	2
	783		28	187	474	
	GO:		43/	0.10	0.07	
BP	0003 physiological muscle hypertrophy	2/292	233	095	231	2
	298		28	187	474	

	GO:		43/	0.10	0.07		
BP	0003 physiological cardiac muscle hypertrophy	2/292	233	095	231	2	
	301		28	187	474		
	GO:		43/	0.10	0.07		
BP	0045 pH reduction	2/292	233	095	231	2	
	851		28	187	474		
	GO:		43/	0.10	0.07		
BP	0046 negative regulation of alpha-beta T cell activation	2/292	233	095	231	2	
	636		28	187	474		
	GO:		43/	0.10	0.07		
BP	0046 phosphatidylinositol phosphorylation	2/292	233	095	231	2	
	854		28	187	474		
	GO:		43/	0.10	0.07		
BP	0060 inner ear receptor cell stereocilium organization	2/292	233	095	231	2	
	122		28	187	474		
	GO:		43/	0.10	0.07		
BP	0061 cell growth involved in cardiac muscle cell development	2/292	233	095	231	2	
	049		28	187	474		
	GO:		43/	0.10	0.07		
BP	0097 dendrite extension	2/292	233	095	231	2	
	484		28	187	474		
	GO:		141	0.10	0.07		
BP	0035 response to topologically incorrect protein	4/292	/23	132	252	4	
	966		328	088	277		
	GO:		141	0.10	0.07		
BP	1902 secondary alcohol metabolic process	4/292	/23	132	252	4	
	652		328	088	277		
	GO:		142	0.10	0.07		
BP	0035 post-transcriptional gene silencing by RNA	4/292	/23	329	384	4	
	194		328	118	712		
	GO:		142	0.10	0.07		
BP	0046 phosphatidylinositol metabolic process	4/292	/23	329	384	4	
	488		328	118	712		
	GO:		142	0.10	0.07		
BP	0048 embryonic skeletal system development	4/292	/23	329	384	4	
	706		328	118	712		
	GO:		90/	0.10	0.07		
BP	0070 calcium ion import	3/292	233	349	396	3	
	509		28	638	517		
	GO:		257	0.10	0.07		
BP	0006 glycerophospholipid metabolic process	6/292	/23	490	475	6	
	650		328	636	114		

	GO:		44/	0.10	0.07	
BP	0005 glycogen biosynthetic process	2/292	233	492	475	2
	978		28	023	114	
	GO:		44/	0.10	0.07	
BP	0006 glycosaminoglycan biosynthetic process	2/292	233	492	475	2
	024		28	023	114	
	GO:		44/	0.10	0.07	
BP	0009 glucan biosynthetic process	2/292	233	492	475	2
	250		28	023	114	
	GO:		44/	0.10	0.07	
BP	0016 protein sumoylation	2/292	233	492	475	2
	925		28	023	114	
	GO:		44/	0.10	0.07	
BP	0032 regulation of hormone metabolic process	2/292	233	492	475	2
	350		28	023	114	
	GO:		44/	0.10	0.07	
BP	0048 brain morphogenesis	2/292	233	492	475	2
	854		28	023	114	
	GO:		44/	0.10	0.07	
BP	0097 cellular response to toxic substance	2/292	233	492	475	2
	237		28	023	114	
	GO:		143	0.10	0.07	
BP	0030 establishment of cell polarity	4/292	/23	527	491	4
	010		328	9	996	
	GO:		143	0.10	0.07	
BP	0030 embryonic limb morphogenesis	4/292	/23	527	491	4
	326		328	9	996	
	GO:		143	0.10	0.07	
BP	0035 embryonic appendage morphogenesis	4/292	/23	527	491	4
	113		328	9	996	
	GO:		91/	0.10	0.07	
BP	0120 tight junction organization	3/292	233	608	546	3
	193		28	65	55	
	GO:		258	0.10	0.07	
BP	0032 regulation of microtubule-based process	6/292	/23	634	562	6
	886		328	709	172	
	GO:		144	0.10	0.07	
BP	0015 inorganic anion transport	4/292	/23	728	622	4
	698		328	419	933	
	GO:		144	0.10	0.07	
BP	0071 cellular response to glucose stimulus	4/292	/23	728	622	4
	333		328	419	933	

	GO:		320	0.10	0.07	
BP	0044 small molecule catabolic process	7/292	/23	848	705	7
	282		328	457	257	
	GO:		92/	0.10	0.07	
BP	0006 glycolytic process	3/292	233	870	714	3
	096		28	189	754	
	GO:		92/	0.10	0.07	
BP	0090 activation of GTPase activity	3/292	233	870	714	3
	630		28	189	754	
	GO:		45/	0.10	0.07	
BP	0010 positive regulation of glucose metabolic process	2/292	233	893	722	2
	907		28	031	055	
	GO:		45/	0.10	0.07	
BP	0050 regulation of T cell receptor signaling pathway	2/292	233	893	722	2
	856		28	031	055	
	GO:		45/	0.10	0.07	
BP	0089 amino acid import across plasma membrane	2/292	233	893	722	2
	718		28	031	055	
	GO:		145	0.10	0.07	
BP	1903 positive regulation of cellular protein catabolic process	4/292	/23	930	745	4
	364		328	661	755	
	GO:		202	0.11	0.07	
BP	1903 meiotic cell cycle process	5/292	/23	051	828	5
	046		328	755	559	
	GO:		93/	0.11	0.07	
BP	0006 ATP generation from ADP	3/292	233	134	866	3
	757		28	215	113	
	GO:		93/	0.11	0.07	
BP	0007 glutamate receptor signaling pathway	3/292	233	134	866	3
	215		28	215	113	
	GO:		93/	0.11	0.07	
BP	0008 regulation of smoothened signaling pathway	3/292	233	134	866	3
	589		28	215	113	
	GO:		93/	0.11	0.07	
BP	0009 amine metabolic process	3/292	233	134	866	3
	308		28	215	113	
	GO:		93/	0.11	0.07	
BP	0009 axis specification	3/292	233	134	866	3
	798		28	215	113	
	GO:		146	0.11	0.07	
BP	0016 posttranscriptional gene silencing	4/292	/23	134	866	4
	441		328	61	113	

	GO:		146	0.11	0.07	
BP	0071 cellular response to hexose stimulus	4/292	/23	134	866	4
	331		328	61	113	
	GO:		46/	0.11	0.07	
BP	0002 negative regulation of lymphocyte mediated immunity	2/292	233	298	954	2
	707		28	044	164	
	GO:		46/	0.11	0.07	
BP	0003 regulation of membrane depolarization	2/292	233	298	954	2
	254		28	044	164	
	GO:		46/	0.11	0.07	
BP	0010 regulation of peptidyl-threonine phosphorylation	2/292	233	298	954	2
	799		28	044	164	
	GO:		46/	0.11	0.07	
BP	0032 regulation of polysaccharide metabolic process	2/292	233	298	954	2
	881		28	044	164	
	GO:		46/	0.11	0.07	
BP	0048 spleen development	2/292	233	298	954	2
	536		28	044	164	
	GO:		46/	0.11	0.07	
BP	0060 head morphogenesis	2/292	233	298	954	2
	323		28	044	164	
	GO:		46/	0.11	0.07	
BP	0090 negative regulation of intracellular protein transport	2/292	233	298	954	2
	317		28	044	164	
	GO:		46/	0.11	0.07	
BP	0098 postsynaptic signal transduction	2/292	233	298	954	2
	926		28	044	164	
	GO:		46/	0.11	0.07	
BP	1901 positive regulation of protein acetylation	2/292	233	298	954	2
	985		28	044	164	
	GO:		147	0.11	0.07	
BP	0071 cellular response to monosaccharide stimulus	4/292	/23	340	980	4
	326		328	251	835	
	GO:		95/	0.11	0.08	
BP	0002 organ or tissue specific immune response	3/292	233	669	138	3
	251		28	565	184	
	GO:		47/	0.11	0.08	
BP	0021 olfactory bulb development	2/292	233	706	138	2
	772		28	9	184	
	GO:		47/	0.11	0.08	
BP	0035 cellular response to interferon-beta	2/292	233	706	138	2
	458		28	9	184	

	GO:		47/	0.11	0.08	
BP	0043 apoptotic cell clearance	2/292	233	706	138	2
	277		28	9	184	
	GO:		47/	0.11	0.08	
BP	0045 sarcomere organization	2/292	233	706	138	2
	214		28	9	184	
	GO:		206	0.11	0.08	
BP	0031 regulation of protein ubiquitination	5/292	/23	741	138	5
	396		328	325	184	
	GO:		149	0.11	0.08	
BP	0034 erythrocyte homeostasis	4/292	/23	756	138	4
	101		328	546	184	
	GO:		10/	0.11	0.08	
BP	0000 urea cycle	1/292	233	837	138	1
	050		28	274	184	
	GO:		10/	0.11	0.08	
BP	0000 activation of MAPKKK activity	1/292	233	837	138	1
	185		28	274	184	
	GO:		10/	0.11	0.08	
BP	0002 male germ cell proliferation	1/292	233	837	138	1
	176		28	274	184	
	GO:		10/	0.11	0.08	
BP	0002 natural killer cell mediated immune response to tumor cell	1/292	233	837	138	1
	423		28	274	184	
	GO:		10/	0.11	0.08	
BP	0002 regulation of natural killer cell mediated immune response to tumor cell	1/292	233	837	138	1
	855		28	274	184	
	GO:		10/	0.11	0.08	
BP	0003 regulation of Wnt signaling pathway involved in heart development	1/292	233	837	138	1
	307		28	274	184	
	GO:		10/	0.11	0.08	
BP	0006 fructose metabolic process	1/292	233	837	138	1
	000		28	274	184	
	GO:		10/	0.11	0.08	
BP	0006 arginine catabolic process	1/292	233	837	138	1
	527		28	274	184	
	GO:		10/	0.11	0.08	
BP	0009 UV protection	1/292	233	837	138	1
	650		28	274	184	
	GO:		10/	0.11	0.08	
BP	0014 transition between fast and slow fiber	1/292	233	837	138	1
	883		28	274	184	

	GO:		10/	0.11	0.08		
BP	0030	regulation of intestinal cholesterol absorption	1/292	233	837	138	1
	300			28	274	184	
	GO:		10/	0.11	0.08		
BP	0030	negative regulation of granulocyte differentiation	1/292	233	837	138	1
	853			28	274	184	
	GO:		10/	0.11	0.08		
BP	0032	response to follicle-stimulating hormone	1/292	233	837	138	1
	354			28	274	184	
	GO:		10/	0.11	0.08		
BP	0032	interleukin-18 production	1/292	233	837	138	1
	621			28	274	184	
	GO:		10/	0.11	0.08		
BP	0032	regulation of interleukin-1 alpha production	1/292	233	837	138	1
	650			28	274	184	
	GO:		10/	0.11	0.08		
BP	0033	negative regulation of protein sumoylation	1/292	233	837	138	1
	234			28	274	184	
	GO:		10/	0.11	0.08		
BP	0033	secretion of lysosomal enzymes	1/292	233	837	138	1
	299			28	274	184	
	GO:		10/	0.11	0.08		
BP	0034	positive regulation of toll-like receptor 4 signaling pathway	1/292	233	837	138	1
	145			28	274	184	
	GO:		10/	0.11	0.08		
BP	0035	negative regulation of urine volume	1/292	233	837	138	1
	811			28	274	184	
	GO:		10/	0.11	0.08		
BP	0035	protein K11-linked deubiquitination	1/292	233	837	138	1
	871			28	274	184	
	GO:		10/	0.11	0.08		
BP	0043	negative regulation of leukocyte degranulation	1/292	233	837	138	1
	301			28	274	184	
	GO:		10/	0.11	0.08		
BP	0046	adenosine metabolic process	1/292	233	837	138	1
	085			28	274	184	
	GO:		10/	0.11	0.08		
BP	0048	negative regulation of collateral sprouting	1/292	233	837	138	1
	671			28	274	184	
	GO:		10/	0.11	0.08		
BP	0048	embryonic neurocranium morphogenesis	1/292	233	837	138	1
	702			28	274	184	

	GO:			10/	0.11	0.08	
BP	0051	positive regulation of lipoprotein lipase activity	1/292	233	837	138	1
	006			28	274	184	
	GO:			10/	0.11	0.08	
BP	0051	dopamine uptake involved in synaptic transmission	1/292	233	837	138	1
	583			28	274	184	
	GO:			10/	0.11	0.08	
BP	0051	regulation of fibrinolysis	1/292	233	837	138	1
	917			28	274	184	
	GO:			10/	0.11	0.08	
BP	0051	catecholamine uptake involved in synaptic transmission	1/292	233	837	138	1
	934			28	274	184	
	GO:			10/	0.11	0.08	
BP	0051	positive regulation of transmission of nerve impulse	1/292	233	837	138	1
	971			28	274	184	
	GO:			10/	0.11	0.08	
BP	0061	macrophage proliferation	1/292	233	837	138	1
	517			28	274	184	
	GO:			10/	0.11	0.08	
BP	0061	pharyngeal arch artery morphogenesis	1/292	233	837	138	1
	626			28	274	184	
	GO:			10/	0.11	0.08	
BP	0061	chaperone-mediated autophagy	1/292	233	837	138	1
	684			28	274	184	
	GO:			10/	0.11	0.08	
BP	0070	negative regulation of thymocyte apoptotic process	1/292	233	837	138	1
	244			28	274	184	
	GO:			10/	0.11	0.08	
BP	0071	cellular response to vitamin D	1/292	233	837	138	1
	305			28	274	184	
	GO:			10/	0.11	0.08	
BP	0071	chemokine (C-C motif) ligand 5 production	1/292	233	837	138	1
	609			28	274	184	
	GO:			10/	0.11	0.08	
BP	0071	negative regulation of transforming growth factor beta production	1/292	233	837	138	1
	635			28	274	184	
	GO:			10/	0.11	0.08	
BP	0072	metanephric tubule morphogenesis	1/292	233	837	138	1
	173			28	274	184	
	GO:			10/	0.11	0.08	
BP	0090	primitive streak formation	1/292	233	837	138	1
	009			28	274	184	

	GO:		10/	0.11	0.08	
BP	0090 regulation of arachidonic acid secretion	1/292	233	837	138	1
	237		28	274	184	
	GO:		10/	0.11	0.08	
BP	0090 regulation of heart induction	1/292	233	837	138	1
	381		28	274	184	
	GO:		10/	0.11	0.08	
BP	0098 regulation of neuronal action potential	1/292	233	837	138	1
	908		28	274	184	
	GO:		10/	0.11	0.08	
BP	0099 trans-synaptic signaling by lipid	1/292	233	837	138	1
	541		28	274	184	
	GO:		10/	0.11	0.08	
BP	0099 trans-synaptic signaling by endocannabinoid	1/292	233	837	138	1
	542		28	274	184	
	GO:		10/	0.11	0.08	
BP	0106 regulation of cellular response to osmotic stress	1/292	233	837	138	1
	049		28	274	184	
	GO:		10/	0.11	0.08	
BP	1900 positive regulation of receptor binding	1/292	233	837	138	1
	122		28	274	184	
	GO:		10/	0.11	0.08	
BP	1902 regulation of hematopoietic stem cell proliferation	1/292	233	837	138	1
	033		28	274	184	
	GO:		10/	0.11	0.08	
BP	1902 regulation of lens fiber cell differentiation	1/292	233	837	138	1
	746		28	274	184	
	GO: regulation of aspartic-type endopeptidase		10/	0.11	0.08	
BP	1902 activity involved in amyloid precursor protein catabolic process	1/292	233	837	138	1
	959		28	274	184	
	GO:		10/	0.11	0.08	
BP	1903 positive regulation of oxidative stress-induced neuron death	1/292	233	837	138	1
	223		28	274	184	
	GO:		10/	0.11	0.08	
BP	1905 negative regulation of macrophage migration	1/292	233	837	138	1
	522		28	274	184	
	GO:		10/	0.11	0.08	
BP	1990 neuron projection maintenance	1/292	233	837	138	1
	535		28	274	184	
	GO:		10/	0.11	0.08	
BP	2000 regulation of macrophage apoptotic process	1/292	233	837	138	1
	109		28	274	184	

	GO:			10/	0.11	0.08	
BP	2000	positive regulation of T-helper 17 type	1/292	233	837	138	1
	318	immune response		28	274	184	
	GO:			10/	0.11	0.08	
BP	2000	positive regulation of neutrophil	1/292	233	837	138	1
	391	extravasation		28	274	184	
	GO:			10/	0.11	0.08	
BP	2000	positive regulation of cellular senescence	1/292	233	837	138	1
	774			28	274	184	
	GO:			207	0.11	0.08	
BP	0006	negative regulation of protein kinase activity	5/292	/23	916	189	5
	469			328	85	841	
	GO:			96/	0.11	0.08	
BP	0030	positive regulation of actin filament	3/292	233	940	193	3
	838	polymerization		28	809	176	
	GO:			96/	0.11	0.08	
BP	0045	negative regulation of myeloid cell	3/292	233	940	193	3
	638	differentiation		28	809	176	
	GO:			96/	0.11	0.08	
BP	0060	regulation of dendritic spine development	3/292	233	940	193	3
	998			28	809	176	
	GO:			96/	0.11	0.08	
BP	1903	regulation of ATP metabolic process	3/292	233	940	193	3
	578			28	809	176	
	GO:			391	0.11	0.08	
BP	0044	cellular nitrogen compound catabolic	8/292	/23	943	193	8
	270	process		328	903	176	
	GO:			48/	0.12	0.08	
BP	0006	regulation of glycolytic process	2/292	233	119	298	2
	110			28	441	167	
	GO:			48/	0.12	0.08	
BP	0019	reproductive behavior	2/292	233	119	298	2
	098			28	441	167	
	GO:			48/	0.12	0.08	
BP	0046	regulation of viral entry into host cell	2/292	233	119	298	2
	596			28	441	167	
	GO:			48/	0.12	0.08	
BP	1903	regulation of actin filament-based	2/292	233	119	298	2
	115	movement		28	441	167	
	GO:			48/	0.12	0.08	
BP	1903	positive regulation of ATP metabolic process	2/292	233	119	298	2
	580			28	441	167	

	GO:		97/	0.12	0.08	
BP	0010 regulation of muscle cell apoptotic process	3/292	233	214	360	3
	660		28	379	068	
	GO:		332	0.12	0.08	
BP	0009 glycoprotein metabolic process	7/292	/23	471	533	7
	100		328	916	173	
	GO:		98/	0.12	0.08	
BP	0030 regulation of BMP signaling pathway	3/292	233	490	536	3
	510		28	233	21	
	GO:		98/	0.12	0.08	
BP	0045 negative regulation of lipid metabolic process	3/292	233	490	536	3
	833		28	233	21	
	GO:		98/	0.12	0.08	
BP	0099 chemical synaptic transmission, postsynaptic	3/292	233	490	536	3
	565		28	233	21	
	GO:		49/	0.12	0.08	
BP	0043 amino acid import	2/292	233	535	551	2
	090		28	512	319	
	GO:		49/	0.12	0.08	
BP	0048 mRNA stabilization	2/292	233	535	551	2
	255		28	512	319	
	GO:		49/	0.12	0.08	
BP	0090 cochlea development	2/292	233	535	551	2
	102		28	512	319	
	GO:		49/	0.12	0.08	
BP	0090 regulation of triglyceride metabolic process	2/292	233	535	551	2
	207		28	512	319	
	GO:		49/	0.12	0.08	
BP	0090 regulation of cell aging	2/292	233	535	551	2
	342		28	512	319	
	GO:		397	0.12	0.08	
BP	0046 heterocycle catabolic process	8/292	/23	705	655	8
	700		328	155	343	
	GO:		99/	0.12	0.08	
BP	0006 xenobiotic metabolic process	3/292	233	768	655	3
	805		28	33	343	
	GO:		99/	0.12	0.08	
BP	0046 ADP metabolic process	3/292	233	768	655	3
	031		28	33	343	
	GO:		11/	0.12	0.08	
BP	0001 establishment of lymphocyte polarity	1/292	233	941	655	1
	767		28	293	343	

	GO:		11/	0.12	0.08	
BP	0001 establishment of T cell polarity	1/292	233	941	655	1
	768		28	293	343	
	GO:		11/	0.12	0.08	
BP	0002 regulation of humoral immune response	1/292	233	941	655	1
	923 mediated by circulating immunoglobulin		28	293	343	
	GO:		11/	0.12	0.08	
BP	0003 secondary heart field specification	1/292	233	941	655	1
	139		28	293	343	
	GO:		11/	0.12	0.08	
BP	0006 tryptophan metabolic process	1/292	233	941	655	1
	568		28	293	343	
	GO:		11/	0.12	0.08	
BP	0006 indolalkylamine metabolic process	1/292	233	941	655	1
	586		28	293	343	
	GO:		11/	0.12	0.08	
BP	0014 Schwann cell proliferation	1/292	233	941	655	1
	010		28	293	343	
	GO:		11/	0.12	0.08	
BP	0015 heme transport	1/292	233	941	655	1
	886		28	293	343	
	GO:		11/	0.12	0.08	
BP	0019 urea metabolic process	1/292	233	941	655	1
	627		28	293	343	
	GO:		11/	0.12	0.08	
BP	0021 positive regulation of cerebellar granule cell	1/292	233	941	655	1
	940 precursor proliferation		28	293	343	
	GO:		11/	0.12	0.08	
BP	0031 primary miRNA processing	1/292	233	941	655	1
	053		28	293	343	
	GO:		11/	0.12	0.08	
BP	0031 post-embryonic camera-type eye	1/292	233	941	655	1
	077 development		28	293	343	
	GO:		11/	0.12	0.08	
BP	0031 negative regulation of myelination	1/292	233	941	655	1
	642		28	293	343	
	GO:		11/	0.12	0.08	
BP	0033 regulation of immature T cell proliferation in	1/292	233	941	655	1
	084 thymus		28	293	343	
	GO:		11/	0.12	0.08	
BP	0033 positive regulation of integrin activation	1/292	233	941	655	1
	625		28	293	343	

	GO:			11/	0.12	0.08	
BP	0035	common myeloid progenitor cell	1/292	233	941	655	1
	726	proliferation		28	293	343	
	GO:			11/	0.12	0.08	
BP	0036	response to macrophage colony-stimulating	1/292	233	941	655	1
	005	factor		28	293	343	
	GO:			11/	0.12	0.08	
BP	0036	cellular response to macrophage colony-	1/292	233	941	655	1
	006	stimulating factor stimulus		28	293	343	
	GO:			11/	0.12	0.08	
BP	0036	germ cell proliferation	1/292	233	941	655	1
	093			28	293	343	
	GO:	regulation of transcription from RNA		11/	0.12	0.08	
BP	0043	polymerase II promoter in response to	1/292	233	941	655	1
	619	oxidative stress		28	293	343	
	GO:			11/	0.12	0.08	
BP	0045	regulation of female receptivity	1/292	233	941	655	1
	924			28	293	343	
	GO:			11/	0.12	0.08	
BP	0048	post-embryonic animal organ	1/292	233	941	655	1
	563	morphogenesis		28	293	343	
	GO:			11/	0.12	0.08	
BP	0048	embryonic foregut morphogenesis	1/292	233	941	655	1
	617			28	293	343	
	GO:			11/	0.12	0.08	
BP	0048	skeletal muscle tissue growth	1/292	233	941	655	1
	630			28	293	343	
	GO:			11/	0.12	0.08	
BP	0048	venous blood vessel morphogenesis	1/292	233	941	655	1
	845			28	293	343	
	GO:			11/	0.12	0.08	
BP	0051	corticotropin secretion	1/292	233	941	655	1
	458			28	293	343	
	GO:			11/	0.12	0.08	
BP	0060	mammary gland involution	1/292	233	941	655	1
	056			28	293	343	
	GO:			11/	0.12	0.08	
BP	0061	cardiac neural crest cell development	1/292	233	941	655	1
	309	involved in outflow tract morphogenesis		28	293	343	
	GO:			11/	0.12	0.08	
BP	0061	positive regulation of triglyceride lipase	1/292	233	941	655	1
	365	activity		28	293	343	

	GO:		11/	0.12	0.08	
BP	0061	reticulophagy	1/292	233	941	655 1
	709			28	293	343
	GO:		11/	0.12	0.08	
BP	0070	thrombin-activated receptor signaling	1/292	233	941	655 1
	493	pathway		28	293	343
	GO:		11/	0.12	0.08	
BP	0071	otic vesicle morphogenesis	1/292	233	941	655 1
	600			28	293	343
	GO:		11/	0.12	0.08	
BP	0071	positive regulation of cell proliferation in	1/292	233	941	655 1
	864	bone marrow		28	293	343
	GO:		11/	0.12	0.08	
BP	0071	macrophage apoptotic process	1/292	233	941	655 1
	888			28	293	343
	GO:		11/	0.12	0.08	
BP	0072	mesonephric tubule formation	1/292	233	941	655 1
	172			28	293	343
	GO:		11/	0.12	0.08	
BP	0072	regulation of nephron tubule epithelial cell	1/292	233	941	655 1
	182	differentiation		28	293	343
	GO:		11/	0.12	0.08	
BP	0097	complement-dependent cytotoxicity	1/292	233	941	655 1
	278			28	293	343
	GO:		11/	0.12	0.08	
BP	1901	positive regulation of response to reactive	1/292	233	941	655 1
	033	oxygen species		28	293	343
	GO:		11/	0.12	0.08	
BP	1901	insulin metabolic process	1/292	233	941	655 1
	142			28	293	343
	GO:	negative regulation of intrinsic apoptotic		11/	0.12	0.08
BP	1902	signaling pathway in response to DNA	1/292	233	941	655 1
	166	damage by p53 class mediator		28	293	343
	GO:	positive regulation of intrinsic apoptotic		11/	0.12	0.08
BP	1902	signaling pathway in response to DNA	1/292	233	941	655 1
	231	damage		28	293	343
	GO:		11/	0.12	0.08	
BP	1902	negative regulation of cellular response to	1/292	233	941	655 1
	548	vascular endothelial growth factor stimulus		28	293	343
	GO:		11/	0.12	0.08	
BP	1903	positive regulation of receptor clustering	1/292	233	941	655 1
	911			28	293	343

	GO:		11/	0.12	0.08		
BP	1904	positive regulation of sensory perception of pain	1/292	233	941	655	1
	058			28	293	343	
	GO:		11/	0.12	0.08		
BP	1904	regulation of intestinal lipid absorption	1/292	233	941	655	1
	729			28	293	343	
	GO:		11/	0.12	0.08		
BP	1905	regulation of aspartic-type peptidase activity	1/292	233	941	655	1
	245			28	293	343	
	GO:		11/	0.12	0.08		
BP	2000	regulation of removal of superoxide radicals	1/292	233	941	655	1
	121			28	293	343	
	GO:		11/	0.12	0.08		
BP	2000	regulation of neutrophil extravasation	1/292	233	941	655	1
	389			28	293	343	
	GO:		11/	0.12	0.08		
BP	2000	positive regulation of autophagosome assembly	1/292	233	941	655	1
	786			28	293	343	
	GO:		11/	0.12	0.08		
BP	2001	regulation of osteoclast development	1/292	233	941	655	1
	204			28	293	343	
	GO:		11/	0.12	0.08		
BP	2001	positive regulation of vasculogenesis	1/292	233	941	655	1
	214			28	293	343	
	GO:		50/	0.12	0.08		
BP	0021	cranial nerve development	2/292	233	954	658	2
	545			28	959	206	
	GO:		50/	0.12	0.08		
BP	1902	L-alpha-amino acid transmembrane transport	2/292	233	954	658	2
	475			28	959	206	
	GO:		155	0.13	0.08		
BP	0006	protein folding	4/292	/23	044	711	4
	457			328	361	646	
	GO:		155	0.13	0.08		
BP	0071	cellular response to carbohydrate stimulus	4/292	/23	044	711	4
	322			328	361	646	
	GO:		214	0.13	0.08		
BP	0032	protein-containing complex disassembly	5/292	/23	179	798	5
	984			328	686	839	
	GO:		156	0.13	0.08		
BP	0007	smoothened signaling pathway	4/292	/23	264	849	4
	224			328	499	057	

	GO:		156	0.13	0.08	
BP	0071 cellular response to metal ion	4/292	/23	264	849	4
	248		328	499	057	
	GO:		101	0.13	0.08	
BP	0071 cellular response to hypoxia	3/292	/23	331	890	3
	456		328	092	269	
	GO:		215	0.13	0.08	
BP	0008 actin polymerization or depolymerization	5/292	/23	364	908	5
	154		328	869	428	
	GO:		51/	0.13	0.08	
BP	0032 regulation of chondrocyte differentiation	2/292	233	377	908	2
	330		28	634	428	
	GO:		51/	0.13	0.08	
BP	0043 regulation of DNA-templated transcription in response to stress	2/292	233	377	908	2
	620		28	634	428	
	GO:		51/	0.13	0.08	
BP	0060 lung epithelium development	2/292	233	377	908	2
	428		28	634	428	
	GO:		157	0.13	0.08	
BP	0021 pallium development	4/292	/23	486	970	4
	543		328	165	989	
	GO:		157	0.13	0.08	
BP	0045 cellular respiration	4/292	/23	486	970	4
	333		328	165	989	
	GO:		157	0.13	0.08	
BP	1903 negative regulation of hemopoiesis	4/292	/23	486	970	4
	707		328	165	989	
	GO:		277	0.13	0.09	
BP	0050 regulation of synapse organization	6/292	/23	562	018	6
	807		328	096	247	
	GO:		102	0.13	0.09	
BP	0010 muscle cell apoptotic process	3/292	/23	615	047	3
	657		328	675	354	
	GO:		102	0.13	0.09	
BP	1901 positive regulation of cell cycle phase transition	3/292	/23	615	047	3
	989		328	675	354	
	GO:		52/	0.13	0.09	
BP	0042 inner ear auditory receptor cell differentiation	2/292	233	803	132	2
	491		28	391	936	
	GO:		103	0.13	0.09	
BP	0030 cellular monovalent inorganic cation homeostasis	3/292	/23	902	132	3
	004		328	337	936	

	GO:		103	0.13	0.09	
BP	0048 oogenesis	3/292	/23	902	132	3
	477		328	337	936	
	GO:		103	0.13	0.09	
BP	0071 cellular response to xenobiotic stimulus	3/292	/23	902	132	3
	466		328	337	936	
	GO:		12/	0.14	0.09	
BP	0003 heart induction	1/292	233	031	132	1
	129		28	534	936	
	GO:		12/	0.14	0.09	
BP	0006 pyrimidine nucleoside metabolic process	1/292	233	031	132	1
	213		28	534	936	
	GO:		12/	0.14	0.09	
BP	0007 foregut morphogenesis	1/292	233	031	132	1
	440		28	534	936	
	GO:		12/	0.14	0.09	
BP	0007 mesodermal cell fate specification	1/292	233	031	132	1
	501		28	534	936	
	GO:		12/	0.14	0.09	
BP	0010 positive regulation of receptor biosynthetic process	1/292	233	031	132	1
	870		28	534	936	
	GO:		12/	0.14	0.09	
BP	0010 regulation of cholesterol esterification	1/292	233	031	132	1
	872		28	534	936	
	GO:		12/	0.14	0.09	
BP	0014 urinary bladder smooth muscle contraction	1/292	233	031	132	1
	832		28	534	936	
	GO:		12/	0.14	0.09	
BP	0014 regulation of skeletal muscle satellite cell proliferation	1/292	233	031	132	1
	842		28	534	936	
	GO:		12/	0.14	0.09	
BP	0014 response to stimulus involved in regulation of muscle adaptation	1/292	233	031	132	1
	874		28	534	936	
	GO:		12/	0.14	0.09	
BP	0032 luteinizing hormone secretion	1/292	233	031	132	1
	275		28	534	936	
	GO:		12/	0.14	0.09	
BP	0032 interleukin-1 alpha production	1/292	233	031	132	1
	610		28	534	936	
	GO:		12/	0.14	0.09	
BP	0032 positive regulation of natural killer cell differentiation	1/292	233	031	132	1
	825		28	534	936	

	GO:		12/	0.14	0.09	
BP	0033 negative regulation of mast cell activation	1/292	233	031	132	1
	004		28	534	936	
	GO:		12/	0.14	0.09	
BP	0033 immature T cell proliferation in thymus	1/292	233	031	132	1
	080		28	534	936	
	GO:		12/	0.14	0.09	
BP	0033 leptin-mediated signaling pathway	1/292	233	031	132	1
	210		28	534	936	
	GO:		12/	0.14	0.09	
BP	0033 regulation of cell-cell adhesion mediated by integrin	1/292	233	031	132	1
	632		28	534	936	
	GO:		12/	0.14	0.09	
BP	0035 maintenance of protein localization in endoplasmic reticulum	1/292	233	031	132	1
	437		28	534	936	
	GO:		12/	0.14	0.09	
BP	0042 mRNA transcription by RNA polymerase II	1/292	233	031	132	1
	789		28	534	936	
	GO:		12/	0.14	0.09	
BP	0043 regulation of secondary metabolic process	1/292	233	031	132	1
	455		28	534	936	
	GO:		12/	0.14	0.09	
BP	0043 negative regulation by host of viral transcription	1/292	233	031	132	1
	922		28	534	936	
	GO:		12/	0.14	0.09	
BP	0045 positive regulation of MHC class II biosynthetic process	1/292	233	031	132	1
	348		28	534	936	
	GO:		12/	0.14	0.09	
BP	0045 regulation of gamma-delta T cell differentiation	1/292	233	031	132	1
	586		28	534	936	
	GO:		12/	0.14	0.09	
BP	0045 positive regulation of RNA polymerase II transcription preinitiation complex assembly	1/292	233	031	132	1
	899		28	534	936	
	GO:		12/	0.14	0.09	
BP	0046 regulation of gamma-delta T cell activation	1/292	233	031	132	1
	643		28	534	936	
	GO:		12/	0.14	0.09	
BP	0048 regulation of melanin biosynthetic process	1/292	233	031	132	1
	021		28	534	936	
	GO:		12/	0.14	0.09	
BP	0048 epinephrine transport	1/292	233	031	132	1
	241		28	534	936	

	GO:		12/	0.14	0.09	
BP	0048 notochord morphogenesis	1/292	233	031	132	1
	570		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 micturition	1/292	233	031	132	1
	073		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 regulation of Fc receptor mediated stimulatory signaling pathway	1/292	233	031	132	1
	368		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 bronchus development	1/292	233	031	132	1
	433		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 trachea morphogenesis	1/292	233	031	132	1
	439		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 regulation of gastric acid secretion	1/292	233	031	132	1
	453		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 prostate glandular acinus development	1/292	233	031	132	1
	525		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 cartilage morphogenesis	1/292	233	031	132	1
	536		28	534	936	
	GO:		12/	0.14	0.09	
BP	0060 multicellular organismal iron ion homeostasis	1/292	233	031	132	1
	586		28	534	936	
	GO:		12/	0.14	0.09	
BP	0070 fat cell proliferation	1/292	233	031	132	1
	341		28	534	936	
	GO:		12/	0.14	0.09	
BP	0070 regulation of fat cell proliferation	1/292	233	031	132	1
	344		28	534	936	
	GO:		12/	0.14	0.09	
BP	0070 regulation of uterine smooth muscle contraction	1/292	233	031	132	1
	472		28	534	936	
	GO:		12/	0.14	0.09	
BP	0070 divalent metal ion export	1/292	233	031	132	1
	839		28	534	936	
	GO:		12/	0.14	0.09	
BP	0071 regulation of cell proliferation in bone marrow	1/292	233	031	132	1
	863		28	534	936	

	GO:		12/	0.14	0.09	
BP	0071 nitrogen cycle metabolic process	1/292	233	031	132	1
	941		28	534	936	
	GO:		12/	0.14	0.09	
BP	0090 negative regulation of triglyceride metabolic process	1/292	233	031	132	1
	209		28	534	936	
	GO:		12/	0.14	0.09	
BP	0090 positive regulation of cell aging	1/292	233	031	132	1
	343		28	534	936	
	GO:		12/	0.14	0.09	
BP	0090 establishment of endothelial intestinal barrier	1/292	233	031	132	1
	557		28	534	936	
	GO:		12/	0.14	0.09	
BP	0098 asymmetric stem cell division	1/292	233	031	132	1
	722		28	534	936	
	GO:		12/	0.14	0.09	
BP	0098 xenophagy	1/292	233	031	132	1
	792		28	534	936	
	GO:		12/	0.14	0.09	
BP	1900 negative regulation of long-term synaptic potentiation	1/292	233	031	132	1
	272		28	534	936	
	GO:		12/	0.14	0.09	
BP	1900 regulation of secondary metabolite biosynthetic process	1/292	233	031	132	1
	376		28	534	936	
	GO:		12/	0.14	0.09	
BP	1901 regulation of hydrogen peroxide-mediated programmed cell death	1/292	233	031	132	1
	298		28	534	936	
	GO:		12/	0.14	0.09	
BP	1902 regulation of apoptotic DNA fragmentation	1/292	233	031	132	1
	510		28	534	936	
	GO:		12/	0.14	0.09	
BP	1903 positive regulation of cell maturation	1/292	233	031	132	1
	431		28	534	936	
	GO:		12/	0.14	0.09	
BP	2000 positive regulation of DNA-dependent DNA replication	1/292	233	031	132	1
	105		28	534	936	
	GO:		12/	0.14	0.09	
BP	2000 positive regulation of feeding behavior	1/292	233	031	132	1
	253		28	534	936	
	GO:		12/	0.14	0.09	
BP	2000 regulation of ceramide biosynthetic process	1/292	233	031	132	1
	303		28	534	936	

	GO:			104	0.14	0.09	
BP	0009	purine nucleoside diphosphate metabolic process	3/292	/23	191	223	3
	135			328	039	741	
	GO:			104	0.14	0.09	
BP	0009	purine ribonucleoside diphosphate metabolic process	3/292	/23	191	223	3
	179			328	039	741	
	GO:			104	0.14	0.09	
BP	0043	regulation of mRNA stability	3/292	/23	191	223	3
	488			328	039	741	
	GO:			104	0.14	0.09	
BP	0060	bone morphogenesis	3/292	/23	191	223	3
	349			328	039	741	
	GO:			53/	0.14	0.09	
BP	0021	cerebral cortex cell migration	2/292	233	232	227	2
	795			28	088	669	
	GO:			53/	0.14	0.09	
BP	0048	oocyte development	2/292	233	232	227	2
	599			28	088	669	
	GO:			53/	0.14	0.09	
BP	0048	embryonic cranial skeleton morphogenesis	2/292	233	232	227	2
	701			28	088	669	
	GO:			53/	0.14	0.09	
BP	0048	regulation of oligodendrocyte differentiation	2/292	233	232	227	2
	713			28	088	669	
	GO:			53/	0.14	0.09	
BP	0050	amyloid-beta metabolic process	2/292	233	232	227	2
	435			28	088	669	
	GO:			53/	0.14	0.09	
BP	0052	modulation by symbiont of entry into host	2/292	233	232	227	2
	372			28	088	669	
	GO:			53/	0.14	0.09	
BP	2000	regulation of transcription regulatory region DNA binding	2/292	233	232	227	2
	677			28	088	669	
	GO:			410	0.14	0.09	
BP	0034	regulation of cellular amide metabolic process	8/292	/23	438	358	8
	248			328	668	322	
	GO:			105	0.14	0.09	
BP	0001	cell fate specification	3/292	/23	481	382	3
	708			328	738	941	
	GO:			221	0.14	0.09	
BP	0010	negative regulation of cell cycle process	5/292	/23	500	391	5
	948			328	155	576	

	GO:		411	0.14	0.09	
BP	0019 aromatic compound catabolic process	8/292	/23	576	437	8
	439		328	668	821	
	GO:		54/	0.14	0.09	
BP	0046 acid secretion	2/292	233	663	480	2
	717		28	584	789	
	GO:		54/	0.14	0.09	
BP	0046 lipid phosphorylation	2/292	233	663	480	2
	834		28	584	789	
	GO:		54/	0.14	0.09	
BP	0048 developmental pigmentation	2/292	233	663	480	2
	066		28	584	789	
	GO:		54/	0.14	0.09	
BP	2000 regulation of sodium ion transmembrane transporter activity	2/292	233	663	480	2
	649		28	584	789	
	GO:		284	0.14	0.09	
BP	0060 canonical Wnt signaling pathway	6/292	/23	727	518	6
	070		328	602	845	
	GO:		106	0.14	0.09	
BP	0000 transition metal ion transport	3/292	/23	774	539	3
	041		328	393	064	
	GO:		106	0.14	0.09	
BP	0006 nucleoside diphosphate phosphorylation	3/292	/23	774	539	3
	165		328	393	064	
	GO:		106	0.14	0.09	
BP	0035 segmentation	3/292	/23	774	539	3
	282		328	393	064	
	GO:		107	0.15	0.09	
BP	0030 intracellular steroid hormone receptor signaling pathway	3/292	/23	068	593	3
	518		328	965	443	
	GO:		164	0.15	0.09	
BP	0045 glycerolipid biosynthetic process	4/292	/23	079	593	4
	017		328	093	443	
	GO:		55/	0.15	0.09	
BP	0010 regulation of cardiac muscle cell apoptotic process	2/292	233	097	593	2
	665		28	745	443	
	GO:		55/	0.15	0.09	
BP	0035 social behavior	2/292	233	097	593	2
	176		28	745	443	
	GO:		55/	0.15	0.09	
BP	0035 positive regulation of dephosphorylation	2/292	233	097	593	2
	306		28	745	443	

	GO:		55/	0.15	0.09	
BP	0045 regulation of epidermal cell differentiation	2/292	233	097	593	2
	604		28	745	443	
	GO:		13/	0.15	0.09	
BP	0002 negative regulation of acute inflammatory response	1/292	233	108	593	1
	674		28	168	443	
	GO:		13/	0.15	0.09	
BP	0002 regulation of dendritic cell cytokine production	1/292	233	108	593	1
	730		28	168	443	
	GO:		13/	0.15	0.09	
BP	0003 regulation of glomerular filtration	1/292	233	108	593	1
	093		28	168	443	
	GO:		13/	0.15	0.09	
BP	0003 Wnt signaling pathway involved in heart development	1/292	233	108	593	1
	306		28	168	443	
	GO:		13/	0.15	0.09	
BP	0006 ER overload response	1/292	233	108	593	1
	983		28	168	443	
	GO:		13/	0.15	0.09	
BP	0007 SMAD protein complex assembly	1/292	233	108	593	1
	183		28	168	443	
	GO:		13/	0.15	0.09	
BP	0009 NAD biosynthetic process	1/292	233	108	593	1
	435		28	168	443	
	GO:		13/	0.15	0.09	
BP	0010 positive regulation of keratinocyte proliferation	1/292	233	108	593	1
	838		28	168	443	
	GO:		13/	0.15	0.09	
BP	0014 skeletal muscle satellite cell proliferation	1/292	233	108	593	1
	841		28	168	443	
	GO:		13/	0.15	0.09	
BP	0032 low-density lipoprotein receptor particle metabolic process	1/292	233	108	593	1
	799		28	168	443	
	GO:		13/	0.15	0.09	
BP	0033 regulation of immature T cell proliferation	1/292	233	108	593	1
	083		28	168	443	
	GO:		13/	0.15	0.09	
BP	0033 regulation of nuclear cell cycle DNA replication	1/292	233	108	593	1
	262		28	168	443	
	GO:		13/	0.15	0.09	
BP	0033 response to vitamin D	1/292	233	108	593	1
	280		28	168	443	

	GO:		13/	0.15	0.09		
BP	0035	bone mineralization involved in bone maturation	1/292	233	108	593	1
	630			28	168	443	
	GO:		13/	0.15	0.09		
BP	0038	Fc-gamma receptor signaling pathway	1/292	233	108	593	1
	094			28	168	443	
	GO:		13/	0.15	0.09		
BP	0038	angiotensin-activated signaling pathway	1/292	233	108	593	1
	166			28	168	443	
	GO:		13/	0.15	0.09		
BP	0042	cellular biogenic amine catabolic process	1/292	233	108	593	1
	402			28	168	443	
	GO:		13/	0.15	0.09		
BP	0042	hemoglobin biosynthetic process	1/292	233	108	593	1
	541			28	168	443	
	GO:		13/	0.15	0.09		
BP	0042	muscle cell fate commitment	1/292	233	108	593	1
	693			28	168	443	
	GO:		13/	0.15	0.09		
BP	0042	cytoplasmic sequestering of transcription factor	1/292	233	108	593	1
	994			28	168	443	
	GO:		13/	0.15	0.09		
BP	0044	positive regulation of vacuole organization	1/292	233	108	593	1
	090			28	168	443	
	GO:		13/	0.15	0.09		
BP	0046	negative regulation of activated T cell proliferation	1/292	233	108	593	1
	007			28	168	443	
	GO:		13/	0.15	0.09		
BP	0048	paraxial mesoderm morphogenesis	1/292	233	108	593	1
	340			28	168	443	
	GO:		13/	0.15	0.09		
BP	0048	regulation of pinocytosis	1/292	233	108	593	1
	548			28	168	443	
	GO:		13/	0.15	0.09		
BP	0055	phospholipid homeostasis	1/292	233	108	593	1
	091			28	168	443	
	GO:		13/	0.15	0.09		
BP	0060	negative regulation of pathway-restricted SMAD protein phosphorylation	1/292	233	108	593	1
	394			28	168	443	
	GO:		13/	0.15	0.09		
BP	0061	lung secretory cell differentiation	1/292	233	108	593	1
	140			28	168	443	

	GO:			13/	0.15	0.09	
BP	0071	positive regulation of phospholipid biosynthetic process	1/292	233	108	593	1
	073			28	168	443	
	GO:			13/	0.15	0.09	
BP	0071	cellular response to iron ion	1/292	233	108	593	1
	281			28	168	443	
	GO:			13/	0.15	0.09	
BP	0071	cellular response to vitamin	1/292	233	108	593	1
	295			28	168	443	
	GO:			13/	0.15	0.09	
BP	0071	cellular response to prostaglandin E stimulus	1/292	233	108	593	1
	380			28	168	443	
	GO:			13/	0.15	0.09	
BP	0071	cell proliferation in bone marrow	1/292	233	108	593	1
	838			28	168	443	
	GO:			13/	0.15	0.09	
BP	0072	nephron tubule epithelial cell differentiation	1/292	233	108	593	1
	160			28	168	443	
	GO:			13/	0.15	0.09	
BP	0090	positive regulation of glomerulus development	1/292	233	108	593	1
	193			28	168	443	
	GO:			13/	0.15	0.09	
BP	0097	motor neuron apoptotic process	1/292	233	108	593	1
	049			28	168	443	
	GO:			13/	0.15	0.09	
BP	0150	regulation of neuron projection arborization	1/292	233	108	593	1
	011			28	168	443	
	GO:			13/	0.15	0.09	
BP	1901	regulation of autophagosome maturation	1/292	233	108	593	1
	096			28	168	443	
	GO:			13/	0.15	0.09	
BP	1901	regulation of extracellular matrix assembly	1/292	233	108	593	1
	201			28	168	443	
	GO:			13/	0.15	0.09	
BP	1901	iron coordination entity transport	1/292	233	108	593	1
	678			28	168	443	
	GO:			13/	0.15	0.09	
BP	1903	regulation of RNA polymerase II regulatory region sequence-specific DNA binding	1/292	233	108	593	1
	025			28	168	443	
	GO:			13/	0.15	0.09	
BP	1903	negative regulation of cell maturation	1/292	233	108	593	1
	430			28	168	443	

	GO:		13/	0.15	0.09	
BP	1903 positive regulation of glial cell migration	1/292	233	108	593	1
	977		28	168	443	
	GO:		108	0.15	0.09	
BP	0006 triglyceride metabolic process	3/292	/23	365	746	3
	641		328	412	727	
	GO:		108	0.15	0.09	
BP	0009 ribonucleoside diphosphate metabolic process	3/292	/23	365	746	3
	185		328	412	727	
	GO:		108	0.15	0.09	
BP	0046 nucleotide phosphorylation	3/292	/23	365	746	3
	939		328	412	727	
	GO:		288	0.15	0.09	
BP	0006 DNA recombination	6/292	/23	413	773	6
	310		328	421	821	
	GO:		56/	0.15	0.09	
BP	0001 regulation of T cell mediated cytotoxicity	2/292	233	534	826	2
	914		28	435	918	
	GO:		56/	0.15	0.09	
BP	0001 positive regulation of cell-matrix adhesion	2/292	233	534	826	2
	954		28	435	918	
	GO:		56/	0.15	0.09	
BP	0006 aminoglycan biosynthetic process	2/292	233	534	826	2
	023		28	435	918	
	GO:		56/	0.15	0.09	
BP	0021 cerebellum morphogenesis	2/292	233	534	826	2
	587		28	435	918	
	GO:		56/	0.15	0.09	
BP	0043 inositol phosphate metabolic process	2/292	233	534	826	2
	647		28	435	918	
	GO:		56/	0.15	0.09	
BP	0070 necrotic cell death	2/292	233	534	826	2
	265		28	435	918	
	GO:		56/	0.15	0.09	
BP	0098 modulation of excitatory postsynaptic potential	2/292	233	534	826	2
	815		28	435	918	
	GO:		289	0.15	0.09	
BP	0050 regulation of synapse structure or activity	6/292	/23	587	856	6
	803		328	067	834	
	GO:		109	0.15	0.09	
BP	0021 cerebellum development	3/292	/23	663	898	3
	549		328	692	505	

	GO:			109	0.15	0.09	
BP	1905	positive regulation of protein localization to membrane	3/292	/23	663	898	3
	477			328	692	505	
	GO:			227	0.15	0.09	
BP	0032	regulation of protein polymerization	5/292	/23	675	899	5
	271			328	417	134	
	GO:			227	0.15	0.09	
BP	0033	negative regulation of kinase activity	5/292	/23	675	899	5
	673			328	417	134	
	GO:			110	0.15	0.10	
BP	0006	regulation of DNA replication	3/292	/23	963	043	3
	275			328	766	898	
	GO:			110	0.15	0.10	
BP	0009	response to xenobiotic stimulus	3/292	/23	963	043	3
	410			328	766	898	
	GO:			57/	0.15	0.10	
BP	0006	catecholamine metabolic process	2/292	233	973	043	2
	584			28	524	898	
	GO:			57/	0.15	0.10	
BP	0009	catechol-containing compound metabolic process	2/292	233	973	043	2
	712			28	524	898	
	GO:			57/	0.15	0.10	
BP	0009	oocyte differentiation	2/292	233	973	043	2
	994			28	524	898	
	GO:			57/	0.15	0.10	
BP	0043	RNA stabilization	2/292	233	973	043	2
	489			28	524	898	
	GO:			57/	0.15	0.10	
BP	1902	negative regulation of mRNA catabolic process	2/292	233	973	043	2
	373			28	524	898	
	GO:			57/	0.15	0.10	
BP	2000	positive regulation of stem cell proliferation	2/292	233	973	043	2
	648			28	524	898	
	GO:			14/	0.16	0.10	
BP	0002	dendritic cell cytokine production	1/292	233	171	043	1
	371			28	364	898	
	GO:			14/	0.16	0.10	
BP	0002	negative regulation of type 2 immune response	1/292	233	171	043	1
	829			28	364	898	
	GO:			14/	0.16	0.10	
BP	0003	chondrocyte differentiation involved in endochondral bone morphogenesis	1/292	233	171	043	1
	413			28	364	898	

	GO:		14/	0.16	0.10	
BP	0007 tripartite regional subdivision	1/292	233	171	043	1
	351		28	364	898	
	GO:		14/	0.16	0.10	
BP	0008 anterior/posterior axis specification, embryo	1/292	233	171	043	1
	595		28	364	898	
	GO:		14/	0.16	0.10	
BP	0009 amine catabolic process	1/292	233	171	043	1
	310		28	364	898	
	GO:		14/	0.16	0.10	
BP	0010 response to UV-C	1/292	233	171	043	1
	225		28	364	898	
	GO:		14/	0.16	0.10	
BP	0010 hydrogen peroxide-mediated programmed cell death	1/292	233	171	043	1
	421		28	364	898	
	GO:		14/	0.16	0.10	
BP	0010 negative regulation of platelet-derived growth factor receptor signaling pathway	1/292	233	171	043	1
	642		28	364	898	
	GO:		14/	0.16	0.10	
BP	0010 negative regulation of tumor necrosis factor-mediated signaling pathway	1/292	233	171	043	1
	804		28	364	898	
	GO:		14/	0.16	0.10	
BP	0021 regulation of cerebellar granule cell precursor proliferation	1/292	233	171	043	1
	936		28	364	898	
	GO:		14/	0.16	0.10	
BP	0031 positive regulation of synaptic plasticity	1/292	233	171	043	1
	915		28	364	898	
	GO:		14/	0.16	0.10	
BP	0032 negative regulation of appetite	1/292	233	171	043	1
	099		28	364	898	
	GO:		14/	0.16	0.10	
BP	0032 positive regulation of interleukin-13 production	1/292	233	171	043	1
	736		28	364	898	
	GO:		14/	0.16	0.10	
BP	0033 immature T cell proliferation	1/292	233	171	043	1
	079		28	364	898	
	GO:		14/	0.16	0.10	
BP	0035 regulation of peroxisome proliferator activated receptor signaling pathway	1/292	233	171	043	1
	358		28	364	898	
	GO:		14/	0.16	0.10	
BP	0036 IRE1-mediated unfolded protein response	1/292	233	171	043	1
	498		28	364	898	

	GO:			14/	0.16	0.10	
BP	0045	regulation of circadian sleep/wake cycle, non-REM sleep	1/292	233	171	043	1
	188			28	364	898	
	GO:			14/	0.16	0.10	
BP	0045	regulation of RNA polymerase II transcription preinitiation complex assembly	1/292	233	171	043	1
	898			28	364	898	
	GO:			14/	0.16	0.10	
BP	0046	carbohydrate phosphorylation	1/292	233	171	043	1
	835			28	364	898	
	GO:			14/	0.16	0.10	
BP	0048	somatic stem cell division	1/292	233	171	043	1
	103			28	364	898	
	GO:			14/	0.16	0.10	
BP	0048	regulation of timing of cell differentiation	1/292	233	171	043	1
	505			28	364	898	
	GO:			14/	0.16	0.10	
BP	0048	branching morphogenesis of a nerve	1/292	233	171	043	1
	755			28	364	898	
	GO:			14/	0.16	0.10	
BP	0060	radial glial cell differentiation	1/292	233	171	043	1
	019			28	364	898	
	GO:			14/	0.16	0.10	
BP	0060	female mating behavior	1/292	233	171	043	1
	180			28	364	898	
	GO:			14/	0.16	0.10	
BP	0060	regulation of respiratory burst	1/292	233	171	043	1
	263			28	364	898	
	GO:			14/	0.16	0.10	
BP	0061	cardiac neural crest cell development involved in heart development	1/292	233	171	043	1
	308			28	364	898	
	GO:			14/	0.16	0.10	
BP	0070	protein homotrimerization	1/292	233	171	043	1
	207			28	364	898	
	GO:			14/	0.16	0.10	
BP	0070	hepatocyte differentiation	1/292	233	171	043	1
	365			28	364	898	
	GO:			14/	0.16	0.10	
BP	0071	cellular response to gonadotropin stimulus	1/292	233	171	043	1
	371			28	364	898	
	GO:			14/	0.16	0.10	
BP	0071	positive regulation of podosome assembly	1/292	233	171	043	1
	803			28	364	898	

	GO:		14/	0.16	0.10		
BP	0072	metanephric glomerulus development	1/292	233	171	043	1
	224			28	364	898	
	GO:		14/	0.16	0.10		
BP	0090	regulation of sphingolipid biosynthetic process	1/292	233	171	043	1
	153			28	364	898	
	GO:		14/	0.16	0.10		
BP	0090	planar cell polarity pathway involved in neural tube closure	1/292	233	171	043	1
	179			28	364	898	
	GO:		14/	0.16	0.10		
BP	0090	negative regulation of platelet aggregation	1/292	233	171	043	1
	331			28	364	898	
	GO:		14/	0.16	0.10		
BP	0097	programmed cell death in response to reactive oxygen species	1/292	233	171	043	1
	468			28	364	898	
	GO:		14/	0.16	0.10		
BP	1902	regulation of neutrophil activation	1/292	233	171	043	1
	563			28	364	898	
	GO:		14/	0.16	0.10		
BP	1903	regulation of DNA catabolic process	1/292	233	171	043	1
	624			28	364	898	
	GO:		14/	0.16	0.10		
BP	1904	midbrain dopaminergic neuron differentiation	1/292	233	171	043	1
	948			28	364	898	
	GO:		14/	0.16	0.10		
BP	1905	regulation of membrane lipid metabolic process	1/292	233	171	043	1
	038			28	364	898	
	GO:		14/	0.16	0.10		
BP	2000	positive regulation of non-canonical Wnt signaling pathway	1/292	233	171	043	1
	052			28	364	898	
	GO:		169	0.16	0.10		
BP	0031	gene silencing by RNA	4/292	/23	258	091	4
	047			328	772	393	
	GO:		169	0.16	0.10		
BP	0035	regulation of dephosphorylation	4/292	/23	258	091	4
	303			328	772	393	
	GO:		111	0.16	0.10		
BP	0008	apoptotic mitochondrial changes	3/292	/23	265	092	3
	637			328	593	232	
	GO:		58/	0.16	0.10		
BP	0010	regulation of striated muscle cell apoptotic process	2/292	233	414	167	2
	662			28	884	768	

	GO:		58/	0.16	0.10	
BP	0035 regulation of histone acetylation	2/292	233	414	167	2
	065		28	884	768	
	GO:		58/	0.16	0.10	
BP	0035 hair cell differentiation	2/292	233	414	167	2
	315		28	884	768	
	GO:		58/	0.16	0.10	
BP	0043 regulation of carbohydrate catabolic process	2/292	233	414	167	2
	470		28	884	768	
	GO:		58/	0.16	0.10	
BP	0051 intraspecies interaction between organisms	2/292	233	414	167	2
	703		28	884	768	
	GO:		294	0.16	0.10	
BP	0051 protein maturation	6/292	/23	468	197	6
	604		328	119	32	
	GO:		112	0.16	0.10	
BP	0007 plasma membrane organization	3/292	/23	569	256	3
	009		328	132	427	
	GO:		295	0.16	0.10	
BP	0072 protein localization to plasma membrane	6/292	/23	646	301	6
	659		328	848	078	
	GO:		171	0.16	0.10	
BP	0019 stem cell population maintenance	4/292	/23	739	355	4
	827		328	812	132	
	GO:		59/	0.16	0.10	
BP	0007 establishment of tissue polarity	2/292	233	858	418	2
	164		28	391	007	
	GO:		59/	0.16	0.10	
BP	0007 neuromuscular junction development	2/292	233	858	418	2
	528		28	391	007	
	GO:		59/	0.16	0.10	
BP	0010 cardiac muscle cell apoptotic process	2/292	233	858	418	2
	659		28	391	007	
	GO:		234	0.17	0.10	
BP	0060 regulation of canonical Wnt signaling pathway	5/292	/23	094	439	5
	828		328	187	491	
	GO:		114	0.17	0.10	
BP	0005 polysaccharide metabolic process	3/292	/23	181	439	3
	976		328	184	491	
	GO:		114	0.17	0.10	
BP	0043 steroid hormone mediated signaling pathway	3/292	/23	181	439	3
	401		328	184	491	

	GO:			114	0.17	0.10	
BP	0060	regulation of postsynaptic membrane potential	3/292	/23	181	439	3
	078			328	184	491	
	GO:			114	0.17	0.10	
BP	1903	regulation of protein localization to plasma membrane	3/292	/23	181	439	3
	076			328	184	491	
	GO:			15/	0.17	0.10	
BP	0001	immunological synapse formation	1/292	233	221	439	1
	771			28	289	491	
	GO:			15/	0.17	0.10	
BP	0006	pyrimidine nucleobase metabolic process	1/292	233	221	439	1
	206			28	289	491	
	GO:			15/	0.17	0.10	
BP	0007	negative regulation of adenylate cyclase activity	1/292	233	221	439	1
	194			28	289	491	
	GO:			15/	0.17	0.10	
BP	0010	negative regulation of glycoprotein biosynthetic process	1/292	233	221	439	1
	561			28	289	491	
	GO:			15/	0.17	0.10	
BP	0010	regulation of cholesterol storage	1/292	233	221	439	1
	885			28	289	491	
	GO:			15/	0.17	0.10	
BP	0014	urinary tract smooth muscle contraction	1/292	233	221	439	1
	848			28	289	491	
	GO:			15/	0.17	0.10	
BP	0014	regulation of skeletal muscle cell proliferation	1/292	233	221	439	1
	857			28	289	491	
	GO:			15/	0.17	0.10	
BP	0030	intestinal cholesterol absorption	1/292	233	221	439	1
	299			28	289	491	
	GO:			15/	0.17	0.10	
BP	0030	regulation of complement activation	1/292	233	221	439	1
	449			28	289	491	
	GO:			15/	0.17	0.10	
BP	0032	negative regulation of response to food	1/292	233	221	439	1
	096			28	289	491	
	GO:			15/	0.17	0.10	
BP	0032	regulation of microvillus organization	1/292	233	221	439	1
	530			28	289	491	
	GO:			15/	0.17	0.10	
BP	0032	negative regulation of interleukin-8 production	1/292	233	221	439	1
	717			28	289	491	

	GO:		15/	0.17	0.10	
BP	0033 positive regulation of osteoblast proliferation	1/292	233	221	439	1
	690		28	289	491	
	GO:		15/	0.17	0.10	
BP	0034 toll-like receptor 9 signaling pathway	1/292	233	221	439	1
	162		28	289	491	
	GO:		15/	0.17	0.10	
BP	0034 steroid esterification	1/292	233	221	439	1
	433		28	289	491	
	GO:		15/	0.17	0.10	
BP	0034 sterol esterification	1/292	233	221	439	1
	434		28	289	491	
	GO:		15/	0.17	0.10	
BP	0034 cholesterol esterification	1/292	233	221	439	1
	435		28	289	491	
	GO:		15/	0.17	0.10	
BP	0034 response to gonadotropin	1/292	233	221	439	1
	698		28	289	491	
	GO:		15/	0.17	0.10	
BP	0042 circadian sleep/wake cycle, non-REM sleep	1/292	233	221	439	1
	748		28	289	491	
	GO:		15/	0.17	0.10	
BP	0043 surfactant homeostasis	1/292	233	221	439	1
	129		28	289	491	
	GO:		15/	0.17	0.10	
BP	0044 negative regulation by host of viral process	1/292	233	221	439	1
	793		28	289	491	
	GO:		15/	0.17	0.10	
BP	0045 positive regulation of regulatory T cell differentiation	1/292	233	221	439	1
	591		28	289	491	
	GO:		15/	0.17	0.10	
BP	0045 negative regulation of epidermal cell differentiation	1/292	233	221	439	1
	605		28	289	491	
	GO:		15/	0.17	0.10	
BP	0045 positive regulation of keratinocyte differentiation	1/292	233	221	439	1
	618		28	289	491	
	GO:		15/	0.17	0.10	
BP	0047 regulation of response to osmotic stress	1/292	233	221	439	1
	484		28	289	491	
	GO:		15/	0.17	0.10	
BP	0048 regulation of developmental pigmentation	1/292	233	221	439	1
	070		28	289	491	

	GO:			15/	0.17	0.10	
BP	0048	chromatin-mediated maintenance of transcription	1/292	233	221	439	1
	096			28	289	491	
	GO:			15/	0.17	0.10	
BP	0050	regulation of lipoprotein metabolic process	1/292	233	221	439	1
	746			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	regulation of protein glycosylation	1/292	233	221	439	1
	049			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	regulation of response to interferon-gamma	1/292	233	221	439	1
	330			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	regulation of interferon-gamma-mediated signaling pathway	1/292	233	221	439	1
	334			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	growth hormone receptor signaling pathway	1/292	233	221	439	1
	396			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	branching involved in prostate gland morphogenesis	1/292	233	221	439	1
	442			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	positive regulation of inositol phosphate biosynthetic process	1/292	233	221	439	1
	732			28	289	491	
	GO:			15/	0.17	0.10	
BP	0060	epithelial cell differentiation involved in prostate gland development	1/292	233	221	439	1
	742			28	289	491	
	GO:			15/	0.17	0.10	
BP	0061	eyelid development in camera-type eye	1/292	233	221	439	1
	029			28	289	491	
	GO:			15/	0.17	0.10	
BP	0061	positive regulation of cell growth involved in cardiac muscle cell development	1/292	233	221	439	1
	051			28	289	491	
	GO:			15/	0.17	0.10	
BP	0061	cardiac neural crest cell differentiation involved in heart development	1/292	233	221	439	1
	307			28	289	491	
	GO:			15/	0.17	0.10	
BP	0061	renal filtration cell differentiation	1/292	233	221	439	1
	318			28	289	491	
	GO:			15/	0.17	0.10	
BP	0070	lens fiber cell development	1/292	233	221	439	1
	307			28	289	491	

	GO:			15/	0.17	0.10	
BP	0071	cellular response to growth hormone stimulus	1/292	233	221	439	1
	378			28	289	491	
	GO:			15/	0.17	0.10	
BP	0072	glomerular visceral epithelial cell differentiation	1/292	233	221	439	1
	112			28	289	491	
	GO:			15/	0.17	0.10	
BP	0072	glomerular epithelial cell differentiation	1/292	233	221	439	1
	311			28	289	491	
	GO:			15/	0.17	0.10	
BP	0072	tricarboxylic acid metabolic process	1/292	233	221	439	1
	350			28	289	491	
	GO:			15/	0.17	0.10	
BP	0090	regulation of establishment of planar polarity involved in neural tube closure	1/292	233	221	439	1
	178			28	289	491	
	GO:			15/	0.17	0.10	
BP	0097	GABAergic neuron differentiation	1/292	233	221	439	1
	154			28	289	491	
	GO:			15/	0.17	0.10	
BP	0098	L-glutamate import across plasma membrane	1/292	233	221	439	1
	712			28	289	491	
	GO:			15/	0.17	0.10	
BP	0098	retrograde trans-synaptic signaling	1/292	233	221	439	1
	917			28	289	491	
	GO:			15/	0.17	0.10	
BP	0150	protein localization to cell-cell junction	1/292	233	221	439	1
	105			28	289	491	
	GO:	regulation of intrinsic apoptotic signaling		15/	0.17	0.10	
BP	1902	pathway in response to DNA damage by p53 class mediator	1/292	233	221	439	1
	165			28	289	491	
	GO:			15/	0.17	0.10	
BP	1902	mitotic DNA replication	1/292	233	221	439	1
	969			28	289	491	
	GO:			15/	0.17	0.10	
BP	1903	positive regulation of anion transmembrane transport	1/292	233	221	439	1
	961			28	289	491	
	GO:			15/	0.17	0.10	
BP	1904	regulation of intestinal absorption	1/292	233	221	439	1
	478			28	289	491	
	GO:			60/	0.17	0.10	
BP	0007	lactation	2/292	233	303	468	2
	595			28	922	947	

	GO:		60/	0.17	0.10	
BP	0021 hindbrain morphogenesis	2/292	233	303	468	2
	575		28	922	947	
	GO:		60/	0.17	0.10	
BP	0045 negative regulation of G protein-coupled	2/292	233	303	468	2
	744 receptor signaling pathway		28	922	947	
	GO:		60/	0.17	0.10	
BP	0051 regulation of focal adhesion assembly	2/292	233	303	468	2
	893		28	922	947	
	GO:		60/	0.17	0.10	
BP	0090 regulation of cell-substrate junction	2/292	233	303	468	2
	109 assembly		28	922	947	
	GO:		60/	0.17	0.10	
BP	1901 regulation of potassium ion transmembrane	2/292	233	303	468	2
	016 transporter activity		28	922	947	
	GO:		115	0.17	0.10	
BP	0030 keratinocyte differentiation	3/292	/23	489	574	3
	216		328	616	359	
	GO:		115	0.17	0.10	
BP	0031 positive regulation of protein ubiquitination	3/292	/23	489	574	3
	398		328	616	359	
	GO:		175	0.17	0.10	
BP	0098 maintenance of cell number	4/292	/23	716	708	4
	727		328	785	199	
	GO:		61/	0.17	0.10	
BP	0007 response to nutrient	2/292	233	751	722	2
	584		28	357	07	
	GO:		61/	0.17	0.10	
BP	0051 modulation by host of symbiont process	2/292	233	751	722	2
	851		28	357	07	
	GO:		62/	0.18	0.10	
BP	0010 body morphogenesis	2/292	233	200	861	2
	171		28	58	062	
	GO:		62/	0.18	0.10	
BP	0010 striated muscle cell apoptotic process	2/292	233	200	861	2
	658		28	58	062	
	GO:		62/	0.18	0.10	
BP	0030 DNA damage response, signal transduction	2/292	233	200	861	2
	330 by p53 class mediator		28	58	062	
	GO:		62/	0.18	0.10	
BP	0032 negative regulation of intracellular transport	2/292	233	200	861	2
	387		28	58	062	

	GO:		62/	0.18	0.10		
BP	0048 circadian behavior	2/292	233	200	861	2	
	512		28	58	062		
	GO:		16/	0.18	0.10		
BP	0001 renal system process involved in regulation	1/292	233	258	861	1	
	977 of blood volume		28	109	062		
	GO:		16/	0.18	0.10		
BP	0003 cardiac conduction system development	1/292	233	258	861	1	
	161		28	109	062		
	GO:		16/	0.18	0.10		
BP	0006 posttranslational protein targeting to	1/292	233	258	861	1	
	620 endoplasmic reticulum membrane		28	109	062		
	GO:		16/	0.18	0.10		
BP	0006 phosphatidylserine metabolic process	1/292	233	258	861	1	
	658		28	109	062		
	GO:		16/	0.18	0.10		
BP	0010 response to UV-B	1/292	233	258	861	1	
	224		28	109	062		
	GO:		16/	0.18	0.10		
BP	0014 regulation of skeletal muscle adaptation	1/292	233	258	861	1	
	733		28	109	062		
	GO:		16/	0.18	0.10		
BP	0014 skeletal muscle cell proliferation	1/292	233	258	861	1	
	856		28	109	062		
	GO:		16/	0.18	0.10		
BP	0019 antigen processing and presentation of	1/292	233	258	861	1	
	886 exogenous peptide antigen via MHC class II		28	109	062		
	GO:		16/	0.18	0.10		
BP	0033 positive regulation of T cell differentiation in	1/292	233	258	861	1	
	089 thymus		28	109	062		
	GO:		16/	0.18	0.10		
BP	0035 genitalia morphogenesis	1/292	233	258	861	1	
	112		28	109	062		
	GO:		16/	0.18	0.10		
BP	0039 regulation of RIG-I signaling pathway	1/292	233	258	861	1	
	535		28	109	062		
	GO:		16/	0.18	0.10		
BP	0040 regulation of development, heterochronic	1/292	233	258	861	1	
	034		28	109	062		
	GO:		16/	0.18	0.10		
BP	0042 negative regulation of protein import into	1/292	233	258	861	1	
	308 nucleus		28	109	062		

	GO:		16/	0.18	0.10	
BP	0043 myelin maintenance	1/292	233	258	861	1
	217		28	109	062	
	GO: negative regulation of DNA damage		16/	0.18	0.10	
BP	0043 response, signal transduction by p53 class	1/292	233	258	861	1
	518 mediator		28	109	062	
	GO: modulation by symbiont of host cellular		16/	0.18	0.10	
BP	0044 process	1/292	233	258	861	1
	068		28	109	062	
	GO: regulation of monocyte differentiation		16/	0.18	0.10	
BP	0045	1/292	233	258	861	1
	655		28	109	062	
	GO: L-glutamate import		16/	0.18	0.10	
BP	0051	1/292	233	258	861	1
	938		28	109	062	
	GO: convergent extension		16/	0.18	0.10	
BP	0060	1/292	233	258	861	1
	026		28	109	062	
	GO: positive regulation of phagocytosis,		16/	0.18	0.10	
BP	0060 engulfment	1/292	233	258	861	1
	100		28	109	062	
	GO: positive regulation of SMAD protein signal		16/	0.18	0.10	
BP	0060 transduction	1/292	233	258	861	1
	391		28	109	062	
	GO: establishment of blood-brain barrier		16/	0.18	0.10	
BP	0060	1/292	233	258	861	1
	856		28	109	062	
	GO: negative regulation of dendritic spine		16/	0.18	0.10	
BP	0061 development	1/292	233	258	861	1
	000		28	109	062	
	GO: cellular response to arsenic-containing		16/	0.18	0.10	
BP	0071 substance	1/292	233	258	861	1
	243		28	109	062	
	GO: cellular response to low-density lipoprotein		16/	0.18	0.10	
BP	0071 particle stimulus	1/292	233	258	861	1
	404		28	109	062	
	GO: cellular response to fluid shear stress		16/	0.18	0.10	
BP	0071	1/292	233	258	861	1
	498		28	109	062	
	GO: otic vesicle development		16/	0.18	0.10	
BP	0071	1/292	233	258	861	1
	599		28	109	062	

	GO:		16/	0.18	0.10	
BP	0071 response to nitric oxide	1/292	233	258	861	1
	731		28	109	062	
	GO:		16/	0.18	0.10	
BP	0090 negative regulation of cell migration involved	1/292	233	258	861	1
	051 in sprouting angiogenesis		28	109	062	
	GO:		16/	0.18	0.10	
BP	0090 regulation of inclusion body assembly	1/292	233	258	861	1
	083		28	109	062	
	GO:		16/	0.18	0.10	
BP	0090 epithelial cell-cell adhesion	1/292	233	258	861	1
	136		28	109	062	
	GO:		16/	0.18	0.10	
BP	0090 establishment of planar polarity involved in	1/292	233	258	861	1
	177 neural tube closure		28	109	062	
	GO:		16/	0.18	0.10	
BP	0090 dopamine uptake	1/292	233	258	861	1
	494		28	109	062	
	GO:		16/	0.18	0.10	
BP	1903 regulation of plasma membrane organization	1/292	233	258	861	1
	729		28	109	062	
	GO:		16/	0.18	0.10	
BP	1903 regulation of cardiac conduction	1/292	233	258	861	1
	779		28	109	062	
	GO:		16/	0.18	0.10	
BP	1904 negative regulation of protein import	1/292	233	258	861	1
	590		28	109	062	
	GO:		16/	0.18	0.10	
BP	1905 regulation of metallopeptidase activity	1/292	233	258	861	1
	048		28	109	062	
	GO:		16/	0.18	0.10	
BP	1905 positive regulation of membrane	1/292	233	258	861	1
	155 invagination		28	109	062	
	GO:		16/	0.18	0.10	
BP	1905 positive regulation of gonad development	1/292	233	258	861	1
	941		28	109	062	
	GO:		16/	0.18	0.10	
BP	2000 regulation of miRNA metabolic process	1/292	233	258	861	1
	628		28	109	062	
	GO:		16/	0.18	0.10	
BP	2001 regulation of vasculogenesis	1/292	233	258	861	1
	212		28	109	062	

	GO: regulation of cysteine-type endopeptidase		16/	0.18	0.10	
BP	2001 activity involved in apoptotic signaling	1/292	233	258	861	1
	267 pathway		28	109	062	
	GO:		304	0.18	0.10	
BP	0030 regulation of Wnt signaling pathway	6/292	/23	291	877	6
	111		328	662	515	
	GO:		118	0.18	0.10	
BP	0018 peptidyl-threonine phosphorylation	3/292	/23	424	949	3
	107		328	062	192	
	GO:		118	0.18	0.10	
BP	0030 flagellated sperm motility	3/292	/23	424	949	3
	317		328	062	192	
	GO:		305	0.18	0.10	
BP	0050 sensory perception of mechanical stimulus	6/292	/23	478	977	6
	954		328	319	901	
	GO:		63/	0.18	0.11	
BP	0006 phosphatidylinositol biosynthetic process	2/292	233	651	066	2
	661		28	475	521	
	GO:		63/	0.18	0.11	
BP	0030 water homeostasis	2/292	233	651	066	2
	104		28	475	521	
	GO:		63/	0.18	0.11	
BP	0060 positive regulation of dendritic spine	2/292	233	651	066	2
	999 development		28	475	521	
	GO:		63/	0.18	0.11	
BP	0150 regulation of cell-substrate junction	2/292	233	651	066	2
	116 organization		28	475	521	
	GO:		64/	0.19	0.11	
BP	0007 rhythmic behavior	2/292	233	103	248	2
	622		28	933	922	
	GO:		64/	0.19	0.11	
BP	0015 long-chain fatty acid transport	2/292	233	103	248	2
	909		28	933	922	
	GO:		64/	0.19	0.11	
BP	1902 regulation of sodium ion transmembrane	2/292	233	103	248	2
	305 transport		28	933	922	
	GO:		442	0.19	0.11	
BP	1901 organic cyclic compound catabolic process	8/292	/23	162	248	8
	361		328	172	922	
	GO:		181	0.19	0.11	
BP	0007 Rho protein signal transduction	4/292	/23	217	248	4
	266		328	187	922	

	GO:		181	0.19	0.11	
BP	0050 B cell receptor signaling pathway	4/292	233	281	248	1
	853		28	986	922	
	GO:		177	0.19	0.11	
BP	0001 mesodermal cell fate commitment	1/292	233	281	248	1
	710		28	986	922	
	GO:		177	0.19	0.11	
BP	0001 histamine secretion	1/292	233	281	248	1
	821		28	986	922	
	GO:		177	0.19	0.11	
BP	0001 endothelial cell morphogenesis	1/292	233	281	248	1
	886		28	986	922	
	GO:		177	0.19	0.11	
BP	0001 suckling behavior	1/292	233	281	248	1
	967		28	986	922	
	GO:		177	0.19	0.11	
BP	0006 glucocorticoid biosynthetic process	1/292	233	281	248	1
	704		28	986	922	
	GO:		177	0.19	0.11	
BP	0007 regulation of exit from mitosis	1/292	233	281	248	1
	096		28	986	922	
	GO:		177	0.19	0.11	
BP	0010 regulation of hydrogen peroxide metabolic process	1/292	233	281	248	1
	310		28	986	922	
	GO:		177	0.19	0.11	
BP	0010 cholesterol storage	1/292	233	281	248	1
	878		28	986	922	
	GO:		177	0.19	0.11	
BP	0019 nicotinamide nucleotide biosynthetic process	1/292	233	281	248	1
	359		28	986	922	
	GO:		177	0.19	0.11	
BP	0031 negative regulation of cyclase activity	1/292	233	281	248	1
	280		28	986	922	
	GO:		177	0.19	0.11	
BP	0032 negative regulation of response to extracellular stimulus	1/292	233	281	248	1
	105		28	986	922	
	GO:		177	0.19	0.11	
BP	0032 negative regulation of response to nutrient levels	1/292	233	281	248	1
	108		28	986	922	
	GO:		177	0.19	0.11	
BP	0032 negative regulation of chemokine production	1/292	233	281	248	1
	682		28	986	922	

	GO:		17/	0.19	0.11	
BP	0033 regulation of integrin activation	1/292	233	281	248	1
	623		28	986	922	
	GO:		17/	0.19	0.11	
BP	0034 iron ion transmembrane transport	1/292	233	281	248	1
	755		28	986	922	
	GO:		17/	0.19	0.11	
BP	0035 wound healing, spreading of epidermal cells	1/292	233	281	248	1
	313		28	986	922	
	GO:		17/	0.19	0.11	
BP	0036 osteoclast development	1/292	233	281	248	1
	035		28	986	922	
	GO:		17/	0.19	0.11	
BP	0042 cell migration involved in gastrulation	1/292	233	281	248	1
	074		28	986	922	
	GO:		17/	0.19	0.11	
BP	0043 response to morphine	1/292	233	281	248	1
	278		28	986	922	
	GO:		17/	0.19	0.11	
BP	0045 establishment of epithelial cell apical/basal polarity	1/292	233	281	248	1
	198		28	986	922	
	GO:		17/	0.19	0.11	
BP	0045 negative regulation of megakaryocyte differentiation	1/292	233	281	248	1
	653		28	986	922	
	GO:		17/	0.19	0.11	
BP	0045 positive regulation of glycogen biosynthetic process	1/292	233	281	248	1
	725		28	986	922	
	GO:		17/	0.19	0.11	
BP	0045 positive regulation of meiotic nuclear division	1/292	233	281	248	1
	836		28	986	922	
	GO:		17/	0.19	0.11	
BP	0046 viral budding	1/292	233	281	248	1
	755		28	986	922	
	GO:		17/	0.19	0.11	
BP	0048 lateral mesoderm development	1/292	233	281	248	1
	368		28	986	922	
	GO:		17/	0.19	0.11	
BP	0048 chemical homeostasis within a tissue	1/292	233	281	248	1
	875		28	986	922	
	GO:		17/	0.19	0.11	
BP	0050 hydrogen peroxide biosynthetic process	1/292	233	281	248	1
	665		28	986	922	

	GO:		17/	0.19	0.11	
BP	0051 regulation of lipoprotein lipase activity	1/292	233	281	248	1
	004		28	986	922	
	GO:		17/	0.19	0.11	
BP	0060 ectodermal placode formation	1/292	233	281	248	1
	788		28	986	922	
	GO:		17/	0.19	0.11	
BP	0070 protein trimerization	1/292	233	281	248	1
	206		28	986	922	
	GO:		17/	0.19	0.11	
BP	0071 ectodermal placode morphogenesis	1/292	233	281	248	1
	697		28	986	922	
	GO:		17/	0.19	0.11	
BP	0072 glomerular epithelium development	1/292	233	281	248	1
	010		28	986	922	
	GO:		17/	0.19	0.11	
BP	0072 metanephric nephron tubule development	1/292	233	281	248	1
	234		28	986	922	
	GO:		17/	0.19	0.11	
BP	0072 neutrophil extravasation	1/292	233	281	248	1
	672		28	986	922	
	GO:		17/	0.19	0.11	
BP	0090 negative regulation of kidney development	1/292	233	281	248	1
	185		28	986	922	
	GO:		17/	0.19	0.11	
BP	0090 regulation of glomerulus development	1/292	233	281	248	1
	192		28	986	922	
	GO:		17/	0.19	0.11	
BP	0090 positive regulation of brown fat cell differentiation	1/292	233	281	248	1
	336		28	986	922	
	GO:		17/	0.19	0.11	
BP	0090 catecholamine uptake	1/292	233	281	248	1
	493		28	986	922	
	GO:		17/	0.19	0.11	
BP	0098 spontaneous synaptic transmission	1/292	233	281	248	1
	814		28	986	922	
	GO:		17/	0.19	0.11	
BP	1900 negative regulation of cytokine production involved in inflammatory response	1/292	233	281	248	1
	016		28	986	922	
	GO:		17/	0.19	0.11	
BP	1900 regulation of amyloid-beta clearance	1/292	233	281	248	1
	221		28	986	922	

	GO:		17/	0.19	0.11	
BP	1900 regulation of long-term synaptic depression	1/292	233	281	248	1
	452		28	986	922	
	GO:		17/	0.19	0.11	
BP	1902 negative regulation of pri-miRNA transcription by RNA polymerase II	1/292	233	281	248	1
	894		28	986	922	
	GO:		17/	0.19	0.11	
BP	1904 regulation of excitatory synapse assembly	1/292	233	281	248	1
	889		28	986	922	
	GO:		17/	0.19	0.11	
BP	2000 regulation of cell-cell adhesion mediated by cadherin	1/292	233	281	248	1
	047		28	986	922	
	GO:		17/	0.19	0.11	
BP	2000 regulation of mesoderm development	1/292	233	281	248	1
	380		28	986	922	
	GO:		17/	0.19	0.11	
BP	2000 regulation of cAMP-dependent protein kinase activity	1/292	233	281	248	1
	479		28	986	922	
	GO:		121	0.19	0.11	
BP	0022 metencephalon development	3/292	/23	371	290	3
	037		328	395	373	
	GO:		121	0.19	0.11	
BP	0097 sperm motility	3/292	/23	371	290	3
	722		328	395	373	
	GO:		121	0.19	0.11	
BP	1901 carbohydrate derivative catabolic process	3/292	/23	371	290	3
	136		328	395	373	
	GO:		245	0.19	0.11	
BP	0006 neurotransmitter transport	5/292	/23	418	314	5
	836		328	891	482	
	GO:		182	0.19	0.11	
BP	0048 eye morphogenesis	4/292	/23	471	341	4
	592		328	085	312	
	GO:		122	0.19	0.11	
BP	1903 negative regulation of cellular protein localization	3/292	/23	689	465	3
	828		328	854	119	
	GO:		123	0.20	0.11	
BP	0009 nucleoside diphosphate metabolic process	3/292	/23	009	631	3
	132		328	588	317	
	GO:		123	0.20	0.11	
BP	0010 regulation of phosphatase activity	3/292	/23	009	631	3
	921		328	588	317	

	GO:		123	0.20	0.11	
BP	0046 glycerophospholipid biosynthetic process	3/292	/23	009	631	3
	474		328	588	317	
	GO:		66/	0.20	0.11	
BP	0042 pigment metabolic process	2/292	233	013	631	2
	440		28	097	317	
	GO:		66/	0.20	0.11	
BP	0050 regulation of catecholamine secretion	2/292	233	013	631	2
	433		28	097	317	
	GO:		66/	0.20	0.11	
BP	2000 regulation of stem cell differentiation	2/292	233	013	631	2
	736		28	097	317	
	GO:		185	0.20	0.11	
BP	0071 cellular response to acid chemical	4/292	/23	238	687	4
	229		328	96	29	
	GO:		18/	0.20	0.11	
BP	0001 serotonin secretion	1/292	233	293	687	1
	820		28	082	29	
	GO:		18/	0.20	0.11	
BP	0002 neutrophil activation involved in immune response	1/292	233	293	687	1
	283		28	082	29	
	GO:		18/	0.20	0.11	
BP	0003 heart field specification	1/292	233	293	687	1
	128		28	082	29	
	GO:		18/	0.20	0.11	
BP	0009 post-embryonic animal morphogenesis	1/292	233	293	687	1
	886		28	082	29	
	GO:		18/	0.20	0.11	
BP	0010 cardioblast differentiation	1/292	233	293	687	1
	002		28	082	29	
	GO:		18/	0.20	0.11	
BP	0010 positive regulation of triglyceride biosynthetic process	1/292	233	293	687	1
	867		28	082	29	
	GO:		18/	0.20	0.11	
BP	0010 regulation of inositol phosphate biosynthetic process	1/292	233	293	687	1
	919		28	082	29	
	GO:		18/	0.20	0.11	
BP	0014 response to isoquinoline alkaloid	1/292	233	293	687	1
	072		28	082	29	
	GO:		18/	0.20	0.11	
BP	0021 dentate gyrus development	1/292	233	293	687	1
	542		28	082	29	

	GO:		18/	0.20	0.11	
BP	0021 cerebellar Purkinje cell differentiation	1/292	233	293	687	1
	702		28	082	29	
	GO:		18/	0.20	0.11	
BP	0021 striatum development	1/292	233	293	687	1
	756		28	082	29	
	GO:		18/	0.20	0.11	
BP	0030 microvillus assembly	1/292	233	293	687	1
	033		28	082	29	
	GO:		18/	0.20	0.11	
BP	0033 cell-cell adhesion mediated by integrin	1/292	233	293	687	1
	631		28	082	29	
	GO:		18/	0.20	0.11	
BP	0035 maintenance of blood-brain barrier	1/292	233	293	687	1
	633		28	082	29	
	GO:		18/	0.20	0.11	
BP	0042 establishment of planar polarity of embryonic epithelium	1/292	233	293	687	1
	249		28	082	29	
	GO:		18/	0.20	0.11	
BP	0044 lipid digestion	1/292	233	293	687	1
	241		28	082	29	
	GO:		18/	0.20	0.11	
BP	0044 adhesion of symbiont to host	1/292	233	293	687	1
	406		28	082	29	
	GO:		18/	0.20	0.11	
BP	0045 negative regulation of nitric oxide biosynthetic process	1/292	233	293	687	1
	019		28	082	29	
	GO:		18/	0.20	0.11	
BP	0050 regulation of B cell receptor signaling pathway	1/292	233	293	687	1
	855		28	082	29	
	GO:		18/	0.20	0.11	
BP	0050 white fat cell differentiation	1/292	233	293	687	1
	872		28	082	29	
	GO:		18/	0.20	0.11	
BP	0060 response to growth hormone	1/292	233	293	687	1
	416		28	082	29	
	GO:		18/	0.20	0.11	
BP	0070 interleukin-6-mediated signaling pathway	1/292	233	293	687	1
	102		28	082	29	
	GO:		18/	0.20	0.11	
BP	0071 ectodermal placode development	1/292	233	293	687	1
	696		28	082	29	

	GO:		18/	0.20	0.11	
BP	0072 epithelial cell fate commitment	1/292	233	293	687	1
	148		28	082	29	
	GO:		18/	0.20	0.11	
BP	0098 intestinal lipid absorption	1/292	233	293	687	1
	856		28	082	29	
	GO:		18/	0.20	0.11	
BP	1904 negative regulation of nitric oxide metabolic process	1/292	233	293	687	1
	406		28	082	29	
	GO:		18/	0.20	0.11	
BP	2000 regulation of T-helper 17 cell differentiation	1/292	233	293	687	1
	319		28	082	29	
	GO:		18/	0.20	0.11	
BP	2001 regulation of CD8-positive, alpha-beta T cell activation	1/292	233	293	687	1
	185		28	082	29	
	GO:		124	0.20	0.11	
BP	0051 regulation of synapse assembly	3/292	/23	330	705	3
	963		328	559	22	
	GO:		67/	0.20	0.11	
BP	0021 cerebellar cortex development	2/292	233	469	763	2
	695		28	593	247	
	GO:		67/	0.20	0.11	
BP	0030 myofibril assembly	2/292	233	469	763	2
	239		28	593	247	
	GO:		67/	0.20	0.11	
BP	0086 cardiac muscle cell contraction	2/292	233	469	763	2
	003		28	593	247	
	GO:		67/	0.20	0.11	
BP	0090 mitotic spindle assembly	2/292	233	469	763	2
	307		28	593	247	
	GO:		67/	0.20	0.11	
BP	1903 positive regulation of regulated secretory pathway	2/292	233	469	763	2
	307		28	593	247	
	GO:		67/	0.20	0.11	
BP	2000 regulation of peptidyl-lysine acetylation	2/292	233	469	763	2
	756		28	593	247	
	GO:		317	0.20	0.11	
BP	0051 meiotic cell cycle	6/292	/23	774	934	6
	321		328	856	955	
	GO:		68/	0.20	0.11	
BP	0007 embryo implantation	2/292	233	927	988	2
	566		28	228	899	

	GO:		68/	0.20	0.11	
BP	0030 lamellipodium assembly	2/292	233	927	988	2
	032		28	228	899	
	GO:		68/	0.20	0.11	
BP	0033 cellular polysaccharide biosynthetic process	2/292	233	927	988	2
	692		28	228	899	
	GO:		68/	0.20	0.11	
BP	0043 regulation of cAMP-mediated signaling	2/292	233	927	988	2
	949		28	228	899	
	GO:		68/	0.20	0.11	
BP	0048 regulation of skeletal muscle tissue development	2/292	233	927	988	2
	641		28	228	899	
	GO:		68/	0.20	0.11	
BP	0050 catecholamine secretion	2/292	233	927	988	2
	432		28	228	899	
	GO:		68/	0.20	0.11	
BP	0071 cellular response to monoamine stimulus	2/292	233	927	988	2
	868		28	228	899	
	GO:		68/	0.20	0.11	
BP	0071 cellular response to catecholamine stimulus	2/292	233	927	988	2
	870		28	228	899	
	GO:		68/	0.20	0.11	
BP	1902 negative regulation of RNA catabolic process	2/292	233	927	988	2
	369		28	228	899	
	GO:		126	0.20	0.12	
BP	0036 cellular response to decreased oxygen levels	3/292	/23	976	013	3
	294		328	059	143	
	GO:		188	0.21	0.12	
BP	0031 cellular response to nutrient levels	4/292	/23	015	032	4
	669		328	701	113	
	GO:		253	0.21	0.12	
BP	0048 skeletal system morphogenesis	5/292	/23	175	075	5
	705		328	345	284	
	GO:		19/	0.21	0.12	
BP	0001 response to amphetamine	1/292	233	291	075	1
	975		28	556	284	
	GO:		19/	0.21	0.12	
BP	0002 G protein-coupled receptor internalization	1/292	233	291	075	1
	031		28	556	284	
	GO:		19/	0.21	0.12	
BP	0006 apoptotic DNA fragmentation	1/292	233	291	075	1
	309		28	556	284	

	GO:		19/	0.21	0.12	
BP	0006 arginine metabolic process	1/292	233	291	075	1
	525		28	556	284	
	GO:		19/	0.21	0.12	
BP	0006 thyroid hormone generation	1/292	233	291	075	1
	590		28	556	284	
	GO:		19/	0.21	0.12	
BP	0009 aromatic amino acid family catabolic process	1/292	233	291	075	1
	074		28	556	284	
	GO:		19/	0.21	0.12	
BP	0010 negative regulation of platelet activation	1/292	233	291	075	1
	544		28	556	284	
	GO:		19/	0.21	0.12	
BP	0014 regulation of norepinephrine secretion	1/292	233	291	075	1
	061		28	556	284	
	GO:		19/	0.21	0.12	
BP	0016 peptide hormone processing	1/292	233	291	075	1
	486		28	556	284	
	GO:		19/	0.21	0.12	
BP	0017 plasma membrane phospholipid scrambling	1/292	233	291	075	1
	121		28	556	284	
	GO:		19/	0.21	0.12	
BP	0021 cerebellar Purkinje cell layer formation	1/292	233	291	075	1
	694		28	556	284	
	GO:		19/	0.21	0.12	
BP	0030 negative regulation of bone mineralization	1/292	233	291	075	1
	502		28	556	284	
	GO:		19/	0.21	0.12	
BP	0032 regulation of natural killer cell differentiation	1/292	233	291	075	1
	823		28	556	284	
	GO:		19/	0.21	0.12	
BP	0034 negative regulation of homotypic cell-cell adhesion	1/292	233	291	075	1
	111		28	556	284	
	GO:		19/	0.21	0.12	
BP	0046 cGMP metabolic process	1/292	233	291	075	1
	068		28	556	284	
	GO:		19/	0.21	0.12	
BP	0046 positive regulation of fatty acid oxidation	1/292	233	291	075	1
	321		28	556	284	
	GO:		19/	0.21	0.12	
BP	0048 norepinephrine secretion	1/292	233	291	075	1
	243		28	556	284	

	GO:		19/	0.21	0.12		
BP	0048	negative regulation of astrocyte differentiation	1/292	233	291	075	1
	712			28	556	284	
	GO:		19/	0.21	0.12		
BP	0051	negative regulation of lyase activity	1/292	233	291	075	1
	350			28	556	284	
	GO:		19/	0.21	0.12		
BP	0060	anatomical structure regression	1/292	233	291	075	1
	033			28	556	284	
	GO:		19/	0.21	0.12		
BP	0060	negative regulation of cardiac muscle cell proliferation	1/292	233	291	075	1
	044			28	556	284	
	GO:		19/	0.21	0.12		
BP	0060	regulation of phagocytosis, engulfment	1/292	233	291	075	1
	099			28	556	284	
	GO:		19/	0.21	0.12		
BP	0070	positive regulation of glycogen metabolic process	1/292	233	291	075	1
	875			28	556	284	
	GO:		19/	0.21	0.12		
BP	0071	regulation of phospholipid biosynthetic process	1/292	233	291	075	1
	071			28	556	284	
	GO:		19/	0.21	0.12		
BP	0090	negative regulation of release of cytochrome c from mitochondria	1/292	233	291	075	1
	201			28	556	284	
	GO:		19/	0.21	0.12		
BP	1903	negative regulation of anion transmembrane transport	1/292	233	291	075	1
	960			28	556	284	
	GO:		19/	0.21	0.12		
BP	1904	regulation of GTP binding	1/292	233	291	075	1
	424			28	556	284	
	GO:		127	0.21	0.12		
BP	0008	regulation of G protein-coupled receptor signaling pathway	3/292	/23	300	075	3
	277			328	512	284	
	GO:		127	0.21	0.12		
BP	0018	peptidyl-threonine modification	3/292	/23	300	075	3
	210			328	512	284	
	GO:		127	0.21	0.12		
BP	0060	cardiac muscle contraction	3/292	/23	300	075	3
	048			328	512	284	
	GO:		127	0.21	0.12		
BP	0060	dendritic spine development	3/292	/23	300	075	3
	996			328	512	284	

	GO:		69/	0.21	0.12	
BP	0001 T cell mediated cytotoxicity	2/292	233	385	105	2
	913		28	902	097	
	GO:		69/	0.21	0.12	
BP	0008 visual learning	2/292	233	385	105	2
	542		28	902	097	
	GO:		69/	0.21	0.12	
BP	0031 zymogen activation	2/292	233	385	105	2
	638		28	902	097	
	GO:		69/	0.21	0.12	
BP	0071 response to monoamine	2/292	233	385	105	2
	867		28	902	097	
	GO:		69/	0.21	0.12	
BP	0071 response to catecholamine	2/292	233	385	105	2
	869		28	902	097	
	GO:		254	0.21	0.12	
BP	0006 RNA catabolic process	5/292	/23	398	108	5
	401		328	452	487	
	GO:		190	0.21	0.12	
BP	0120 regulation of plasma membrane bounded	4/292	/23	538	183	4
	032 cell projection assembly		328	198	827	
	GO:		128	0.21	0.12	
BP	0051 response to calcium ion	3/292	/23	626	226	3
	592		328	05	027	
	GO:		128	0.21	0.12	
BP	0061 regulation of mRNA catabolic process	3/292	/23	626	226	3
	013		328	05	027	
	GO:		70/	0.21	0.12	
BP	0043 cellular component maintenance	2/292	233	845	338	2
	954		28	519	761	
	GO:		70/	0.21	0.12	
BP	0055 regulation of cardiac muscle contraction	2/292	233	845	338	2
	117		28	519	761	
	GO:		70/	0.21	0.12	
BP	2000 positive regulation of neural precursor cell	2/292	233	845	338	2
	179 proliferation		28	519	761	
	GO:		129	0.21	0.12	
BP	0032 positive regulation of protein polymerization	3/292	/23	952	391	3
	273		328	636	676	
	GO:		129	0.21	0.12	
BP	0060 cilium movement involved in cell motility	3/292	/23	952	391	3
	294		328	636	676	

	GO:		192	0.22	0.12	
BP	0060 regulation of cell projection assembly	4/292	/23	064	450	4
	491		328	25	871	
	GO:		257	0.22	0.12	
BP	0001 regulation of neurotransmitter levels	5/292	/23	072	451	5
	505		328	228	565	
	GO:		324	0.22	0.12	
BP	0009 purine ribonucleotide metabolic process	6/292	/23	159	481	6
	150		328	447	145	
	GO:		20/	0.22	0.12	
BP	0001 gastric acid secretion	1/292	233	277	481	1
	696		28	564	145	
	GO:		20/	0.22	0.12	
BP	0006 manganese ion transport	1/292	233	277	481	1
	828		28	564	145	
	GO:		20/	0.22	0.12	
BP	0006 cellular sodium ion homeostasis	1/292	233	277	481	1
	883		28	564	145	
	GO:		20/	0.22	0.12	
BP	0019 pyridine nucleotide biosynthetic process	1/292	233	277	481	1
	363		28	564	145	
	GO:		20/	0.22	0.12	
BP	0021 cell migration in hindbrain	1/292	233	277	481	1
	535		28	564	145	
	GO:		20/	0.22	0.12	
BP	0030 cellular anion homeostasis	1/292	233	277	481	1
	002		28	564	145	
	GO:		20/	0.22	0.12	
BP	0030 cellular monovalent inorganic anion homeostasis	1/292	233	277	481	1
	320		28	564	145	
	GO:		20/	0.22	0.12	
BP	0030 regulation of granulocyte differentiation	1/292	233	277	481	1
	852		28	564	145	
	GO:		20/	0.22	0.12	
BP	0032 regulation of response to food	1/292	233	277	481	1
	095		28	564	145	
	GO:		20/	0.22	0.12	
BP	0035 calcium-mediated signaling using intracellular calcium source	1/292	233	277	481	1
	584		28	564	145	
	GO:		20/	0.22	0.12	
BP	0045 cell-cell junction maintenance	1/292	233	277	481	1
	217		28	564	145	

	GO:		20/	0.22	0.12		
BP	0045 positive regulation of gluconeogenesis	1/292	233	277	481	1	
	722		28	564	145		
	GO:		20/	0.22	0.12		
BP	0048 regulation of short-term neuronal synaptic plasticity	1/292	233	277	481	1	
	172		28	564	145		
	GO:		20/	0.22	0.12		
BP	0048 embryonic digestive tract morphogenesis	1/292	233	277	481	1	
	557		28	564	145		
	GO:		20/	0.22	0.12		
BP	0051 histamine transport	1/292	233	277	481	1	
	608		28	564	145		
	GO:		20/	0.22	0.12		
BP	0072 nephron tubule formation	1/292	233	277	481	1	
	079		28	564	145		
	GO:		20/	0.22	0.12		
BP	0090 regulation of steroid hormone biosynthetic process	1/292	233	277	481	1	
	030		28	564	145		
	GO:		20/	0.22	0.12		
BP	0140 signaling receptor ligand precursor processing	1/292	233	277	481	1	
	448		28	564	145		
	GO:		20/	0.22	0.12		
BP	1900 regulation of vascular endothelial growth factor signaling pathway	1/292	233	277	481	1	
	746		28	564	145		
	GO:		20/	0.22	0.12		
BP	1903 regulation of receptor clustering	1/292	233	277	481	1	
	909		28	564	145		
	GO:		20/	0.22	0.12		
BP	1905 regulation of membrane invagination	1/292	233	277	481	1	
	153		28	564	145		
	GO:		130	0.22	0.12		
BP	0042 negative regulation of protein catabolic process	3/292	/23	280	481	3	
	177		328	232	145		
	GO:		71/	0.22	0.12		
BP	0006 fatty acid beta-oxidation	2/292	233	305	491	2	
	635		28	983	778		
	GO:		193	0.22	0.12		
BP	1903 regulation of regulated secretory pathway	4/292	/23	328	500	4	
	305		328	561	628		
	GO:		260	0.22	0.12		
BP	0051 negative regulation of transferase activity	5/292	/23	752	734	5	
	348		328	44	073		

	GO:		72/	0.22	0.12	
BP	0051 regulation of intracellular pH	2/292	233	767	734	2
	453		28	201	61	
	GO:		72/	0.22	0.12	
BP	1904 cranial skeletal system development	2/292	233	767	734	2
	888		28	201	61	
	GO:		195	0.22	0.12	
BP	1905 regulation of protein localization to membrane	4/292	/23	859	782	4
	475		328	656	449	
	GO:		396	0.22	0.12	
BP	0072 purine-containing compound metabolic process	7/292	/23	924	814	7
	521		328	542	848	
	GO:		261	0.22	0.12	
BP	0045 regulated exocytosis	5/292	/23	980	842	5
	055		328	553	268	
	GO:		73/	0.23	0.12	
BP	0002 regulation of receptor internalization	2/292	233	229	899	2
	090		28	083	789	
	GO:		73/	0.23	0.12	
BP	0007 visual behavior	2/292	233	229	899	2
	632		28	083	789	
	GO:		73/	0.23	0.12	
BP	0009 cell-cell recognition	2/292	233	229	899	2
	988		28	083	789	
	GO:		21/	0.23	0.12	
BP	0001 cartilage condensation	1/292	233	251	899	1
	502		28	262	789	
	GO:		21/	0.23	0.12	
BP	0002 antigen processing and presentation of peptide antigen via MHC class II	1/292	233	251	899	1
	495		28	262	789	
	GO:		21/	0.23	0.12	
BP	0007 vacuolar acidification	1/292	233	251	899	1
	035		28	262	789	
	GO:		21/	0.23	0.12	
BP	0007 grooming behavior	1/292	233	251	899	1
	625		28	262	789	
	GO:		21/	0.23	0.12	
BP	0014 response to amine	1/292	233	251	899	1
	075		28	262	789	
	GO:		21/	0.23	0.12	
BP	0014 release of sequestered calcium ion into cytosol by sarcoplasmic reticulum	1/292	233	251	899	1
	808		28	262	789	

	GO:		21/	0.23	0.12	
BP	0019 removal of superoxide radicals	1/292	233	251	899	1
	430		28	262	789	
	GO:		21/	0.23	0.12	
BP	0031 positive regulation of histone deacetylation	1/292	233	251	899	1
	065		28	262	789	
	GO:		21/	0.23	0.12	
BP	0031 retinal ganglion cell axon guidance	1/292	233	251	899	1
	290		28	262	789	
	GO:		21/	0.23	0.12	
BP	0032 positive regulation of chondrocyte differentiation	1/292	233	251	899	1
	332		28	262	789	
	GO:		21/	0.23	0.12	
BP	0033 positive regulation of catecholamine secretion	1/292	233	251	899	1
	605		28	262	789	
	GO:		21/	0.23	0.12	
BP	0035 establishment of apical/basal cell polarity	1/292	233	251	899	1
	089		28	262	789	
	GO:		21/	0.23	0.12	
BP	0035 peroxisome proliferator activated receptor signaling pathway	1/292	233	251	899	1
	357		28	262	789	
	GO:		21/	0.23	0.12	
BP	0042 regulation of dopamine metabolic process	1/292	233	251	899	1
	053		28	262	789	
	GO:		21/	0.23	0.12	
BP	0043 ossification involved in bone maturation	1/292	233	251	899	1
	931		28	262	789	
	GO:		21/	0.23	0.12	
BP	0045 positive regulation of translational initiation	1/292	233	251	899	1
	948		28	262	789	
	GO:		21/	0.23	0.12	
BP	0046 polyol catabolic process	1/292	233	251	899	1
	174		28	262	789	
	GO:		21/	0.23	0.12	
BP	0048 post-embryonic animal organ development	1/292	233	251	899	1
	569		28	262	789	
	GO:		21/	0.23	0.12	
BP	0051 regulation of mitochondrial depolarization	1/292	233	251	899	1
	900		28	262	789	
	GO:		21/	0.23	0.12	
BP	1902 negative regulation of intrinsic apoptotic signaling pathway by p53 class mediator	1/292	233	251	899	1
	254		28	262	789	

	GO:		21/	0.23	0.12	
BP	1903	positive regulation of oxidative stress-	1/292	233	251	899
	209	induced cell death		28	262	789
	GO:		134	0.23	0.13	
BP	0046	regulation of neurotransmitter secretion	3/292	/23	599	089
	928			328	99	328
	GO:		74/	0.23	0.13	
BP	0009	aerobic respiration	2/292	233	691	132
	060			28	54	21
	GO:		74/	0.23	0.13	
BP	2001	negative regulation of response to DNA	2/292	233	691	132
	021	damage stimulus		28	54	21
	GO:		401	0.23	0.13	
BP	0009	response to radiation	7/292	/23	846	214
	314			328	608	195
	GO:		135	0.23	0.13	
BP	0043	regulation of generation of precursor	3/292	/23	932	253
	467	metabolites and energy		328	092	604
	GO:		135	0.23	0.13	
BP	0072	signal transduction by p53 class mediator	3/292	/23	932	253
	331			328	092	604
	GO:		75/	0.24	0.13	
BP	0009	nucleoside metabolic process	2/292	233	154	317
	116			28	486	137
	GO:		334	0.24	0.13	
BP	0009	ribonucleotide metabolic process	6/292	/23	188	317
	259			328	456	137
	GO:		200	0.24	0.13	
BP	0099	postsynapse organization	4/292	/23	200	317
	173			328	935	137
	GO:	antigen processing and presentation of		22/	0.24	0.13
BP	0002	peptide or polysaccharide antigen via MHC	1/292	233	212	317
	504	class II		28	803	137
	GO:		22/	0.24	0.13	
BP	0006	mitochondrial electron transport, NADH to	1/292	233	212	317
	120	ubiquinone		28	803	137
	GO:		22/	0.24	0.13	
BP	0006	glycoprotein catabolic process	1/292	233	212	317
	516			28	803	137
	GO:		22/	0.24	0.13	
BP	0007	male meiosis I	1/292	233	212	317
	141			28	803	137

	GO:		22/	0.24	0.13	
BP	0008 asymmetric cell division	1/292	233	212	317	1
	356		28	803	137	
	GO:		22/	0.24	0.13	
BP	0014 response to muscle activity	1/292	233	212	317	1
	850		28	803	137	
	GO:		22/	0.24	0.13	
BP	0014 negative regulation of smooth muscle cell migration	1/292	233	212	317	1
	912		28	803	137	
	GO:		22/	0.24	0.13	
BP	0015 L-glutamate transmembrane transport	1/292	233	212	317	1
	813		28	803	137	
	GO:		22/	0.24	0.13	
BP	0019 hexose catabolic process	1/292	233	212	317	1
	320		28	803	137	
	GO:		22/	0.24	0.13	
BP	0021 dorsal spinal cord development	1/292	233	212	317	1
	516		28	803	137	
	GO:		22/	0.24	0.13	
BP	0042 melanin biosynthetic process	1/292	233	212	317	1
	438		28	803	137	
	GO:		22/	0.24	0.13	
BP	0046 negative regulation of viral entry into host cell	1/292	233	212	317	1
	597		28	803	137	
	GO:		22/	0.24	0.13	
BP	0048 neural nucleus development	1/292	233	212	317	1
	857		28	803	137	
	GO:		22/	0.24	0.13	
BP	0051 cytoplasmic sequestering of protein	1/292	233	212	317	1
	220		28	803	137	
	GO:		22/	0.24	0.13	
BP	0060 Sertoli cell development	1/292	233	212	317	1
	009		28	803	137	
	GO:		22/	0.24	0.13	
BP	0060 inhibitory postsynaptic potential	1/292	233	212	317	1
	080		28	803	137	
	GO:		22/	0.24	0.13	
BP	0060 trachea development	1/292	233	212	317	1
	438		28	803	137	
	GO: positive regulation of transcription from RNA		22/	0.24	0.13	
BP	1901 polymerase II promoter involved in cellular response to chemical stimulus	1/292	233	212	317	1
	522		28	803	137	

	GO:			22/	0.24	0.13	
BP	1902	regulation of cellular response to vascular endothelial growth factor stimulus	1/292	233	212	317	1
	547			28	803	137	
	GO:			22/	0.24	0.13	
BP	1903	release of sequestered calcium ion into cytosol by endoplasmic reticulum	1/292	233	212	317	1
	514			28	803	137	
	GO:			136	0.24	0.13	
BP	0001	cilium or flagellum-dependent cell motility	3/292	/23	264	337	3
	539			328	988	887	
	GO:			136	0.24	0.13	
BP	0060	cilium-dependent cell motility	3/292	/23	264	337	3
	285			328	988	887	
	GO:			76/	0.24	0.13	
BP	1901	alpha-amino acid catabolic process	2/292	233	617	527	2
	606			28	836	81	
	GO:			138	0.24	0.13	
BP	0006	acylglycerol metabolic process	3/292	/23	933	672	3
	639			328	019	301	
	GO:			138	0.24	0.13	
BP	0009	response to UV	3/292	/23	933	672	3
	411			328	019	301	
	GO:			138	0.24	0.13	
BP	0030	erythrocyte differentiation	3/292	/23	933	672	3
	218			328	019	301	
	GO:			138	0.24	0.13	
BP	0035	regulation of Rho protein signal transduction	3/292	/23	933	672	3
	023			328	019	301	
	GO:			77/	0.25	0.13	
BP	0001	somitogenesis	2/292	233	081	672	2
	756			28	509	301	
	GO:			77/	0.25	0.13	
BP	0010	positive regulation of mitochondrion organization	2/292	233	081	672	2
	822			28	509	301	
	GO:			77/	0.25	0.13	
BP	0031	negative regulation of protein ubiquitination	2/292	233	081	672	2
	397			28	509	301	
	GO:			77/	0.25	0.13	
BP	0032	negative regulation of transporter activity	2/292	233	081	672	2
	410			28	509	301	
	GO:			77/	0.25	0.13	
BP	0033	regulation of intracellular steroid hormone receptor signaling pathway	2/292	233	081	672	2
	143			28	509	301	

	GO:		77/	0.25	0.13	
BP	0048	artery morphogenesis	2/292	233	081	672 2
		844		28	509	301
	GO:			23/	0.25	0.13
BP	0006	pinocytosis	1/292	233	162	672 1
		907		28	338	301
	GO:			23/	0.25	0.13
BP	0009	glutamine family amino acid catabolic process	1/292	233	162	672 1
		065		28	338	301
	GO:			23/	0.25	0.13
BP	0010	regulation of triglyceride biosynthetic process	1/292	233	162	672 1
		866		28	338	301
	GO:			23/	0.25	0.13
BP	0010	response to auditory stimulus	1/292	233	162	672 1
		996		28	338	301
	GO:			23/	0.25	0.13
BP	0021	cerebellar Purkinje cell layer morphogenesis	1/292	233	162	672 1
		692		28	338	301
	GO:			23/	0.25	0.13
BP	0023	signal transduction involved in regulation of gene expression	1/292	233	162	672 1
		019		28	338	301
	GO:			23/	0.25	0.13
BP	0030	male genitalia development	1/292	233	162	672 1
		539		28	338	301
	GO:			23/	0.25	0.13
BP	0032	negative regulation of chondrocyte differentiation	1/292	233	162	672 1
		331		28	338	301
	GO:			23/	0.25	0.13
BP	0034	low-density lipoprotein particle clearance	1/292	233	162	672 1
		383		28	338	301
	GO:			23/	0.25	0.13
BP	0034	response to fluid shear stress	1/292	233	162	672 1
		405		28	338	301
	GO:			23/	0.25	0.13
BP	0039	RIG-I signaling pathway	1/292	233	162	672 1
		529		28	338	301
	GO:			23/	0.25	0.13
BP	0042	regulation of catecholamine metabolic process	1/292	233	162	672 1
		069		28	338	301
	GO:			23/	0.25	0.13
BP	0042	benzene-containing compound metabolic process	1/292	233	162	672 1
		537		28	338	301

	GO:		23/	0.25	0.13	
BP	0043 skeletal muscle adaptation	1/292	233	162	672	1
	501		28	338	301	
	GO:		23/	0.25	0.13	
BP	0043 regulation of respiratory gaseous exchange	1/292	233	162	672	1
	576		28	338	301	
	GO:		23/	0.25	0.13	
BP	0045 plasma membrane fusion	1/292	233	162	672	1
	026		28	338	301	
	GO:		23/	0.25	0.13	
BP	0045 transcytosis	1/292	233	162	672	1
	056		28	338	301	
	GO:		23/	0.25	0.13	
BP	0045 positive regulation of epidermal cell differentiation	1/292	233	162	672	1
	606		28	338	301	
	GO:		23/	0.25	0.13	
BP	0051 myoblast proliferation	1/292	233	162	672	1
	450		28	338	301	
	GO:		23/	0.25	0.13	
BP	0061 establishment of monopolar cell polarity	1/292	233	162	672	1
	162		28	338	301	
	GO:		23/	0.25	0.13	
BP	0070 bone maturation	1/292	233	162	672	1
	977		28	338	301	
	GO:		23/	0.25	0.13	
BP	0071 cellular response to oxygen radical	1/292	233	162	672	1
	450		28	338	301	
	GO:		23/	0.25	0.13	
BP	0071 cellular response to superoxide	1/292	233	162	672	1
	451		28	338	301	
	GO:		23/	0.25	0.13	
BP	0097 dendritic spine maintenance	1/292	233	162	672	1
	062		28	338	301	
	GO:		23/	0.25	0.13	
BP	0098 calcium ion import across plasma membrane	1/292	233	162	672	1
	703		28	338	301	
	GO:		23/	0.25	0.13	
BP	1903 negative regulation of regulated secretory pathway	1/292	233	162	672	1
	306		28	338	301	
	GO:		23/	0.25	0.13	
BP	2000 regulation of T-helper 17 type immune response	1/292	233	162	672	1
	316		28	338	301	

	GO:		23/	0.25	0.13	
BP	2000	regulation of bicellular tight junction assembly	1/292	233	162	672
	810			28	338	301
	GO:			139	0.25	0.13
BP	1903	positive regulation of protein modification by small protein conjugation or removal	3/292	/23	268	725
	322			328	086	719
	GO:			78/	0.25	0.13
BP	0005	glycogen metabolic process	2/292	233	545	855
	977			28	423	975
	GO:			78/	0.25	0.13
BP	0006	cellular glucan metabolic process	2/292	233	545	855
	073			28	423	975
	GO:			78/	0.25	0.13
BP	0044	glucan metabolic process	2/292	233	545	855
	042			28	423	975
	GO:			78/	0.25	0.13
BP	0046	viral entry into host cell	2/292	233	545	855
	718			28	423	975
	GO:			78/	0.25	0.13
BP	1901	regulation of protein acetylation	2/292	233	545	855
	983			28	423	975
	GO:			205	0.25	0.13
BP	0016	macroautophagy	4/292	/23	559	859
	236			328	656	621
	GO:			140	0.25	0.13
BP	0006	neutral lipid metabolic process	3/292	/23	603	867
	638			328	807	262
	GO:			140	0.25	0.13
BP	0050	neuromuscular process	3/292	/23	603	867
	905			328	807	262
	GO:			140	0.25	0.13
BP	0071	cellular response to oxygen levels	3/292	/23	603	867
	453			328	807	262
	GO:			140	0.25	0.13
BP	1904	regulation of protein localization to cell periphery	3/292	/23	603	867
	375			328	807	262
	GO:			274	0.26	0.14
BP	0010	response to metal ion	5/292	/23	002	020
	038			328	51	725
	GO:			79/	0.26	0.14
BP	0045	response to ethanol	2/292	233	009	020
	471			28	5	725

	GO:		24/	0.26	0.14		
BP	0002	negative regulation of B cell apoptotic process	1/292	233	100	020	1
	903			28	016	725	
	GO:		24/	0.26	0.14		
BP	0006	melanin metabolic process	1/292	233	100	020	1
	582			28	016	725	
	GO:		24/	0.26	0.14		
BP	0021	subpallium development	1/292	233	100	020	1
	544			28	016	725	
	GO:		24/	0.26	0.14		
BP	0022	cell cycle phase	1/292	233	100	020	1
	403			28	016	725	
	GO:		24/	0.26	0.14		
BP	0030	polarized epithelial cell differentiation	1/292	233	100	020	1
	859			28	016	725	
	GO:		24/	0.26	0.14		
BP	0030	notochord development	1/292	233	100	020	1
	903			28	016	725	
	GO:		24/	0.26	0.14		
BP	0031	cellular response to nutrient	1/292	233	100	020	1
	670			28	016	725	
	GO:		24/	0.26	0.14		
BP	0032	negative regulation of interleukin-1 beta production	1/292	233	100	020	1
	691			28	016	725	
	GO:		24/	0.26	0.14		
BP	0035	response to interferon-alpha	1/292	233	100	020	1
	455			28	016	725	
	GO:		24/	0.26	0.14		
BP	0042	middle ear morphogenesis	1/292	233	100	020	1
	474			28	016	725	
	GO:		24/	0.26	0.14		
BP	0043	tongue development	1/292	233	100	020	1
	586			28	016	725	
	GO:		24/	0.26	0.14		
BP	0044	cell-cell adhesion mediated by cadherin	1/292	233	100	020	1
	331			28	016	725	
	GO:		24/	0.26	0.14		
BP	0044	secondary metabolite biosynthetic process	1/292	233	100	020	1
	550			28	016	725	
	GO:		24/	0.26	0.14		
BP	0045	negative regulation of cyclin-dependent protein serine/threonine kinase activity	1/292	233	100	020	1
	736			28	016	725	

	GO:			24/	0.26	0.14	
BP	0046	negative regulation of nucleocytoplasmic transport	1/292	233	100	020	1
	823			28	016	725	
	GO:			24/	0.26	0.14	
BP	0051	mitochondrial depolarization	1/292	233	100	020	1
	882			28	016	725	
	GO:			24/	0.26	0.14	
BP	0061	establishment or maintenance of monopolar cell polarity	1/292	233	100	020	1
	339			28	016	725	
	GO:			24/	0.26	0.14	
BP	0070	inclusion body assembly	1/292	233	100	020	1
	841			28	016	725	
	GO:			24/	0.26	0.14	
BP	0071	cellular response to estradiol stimulus	1/292	233	100	020	1
	392			28	016	725	
	GO:			24/	0.26	0.14	
BP	0072	pyridine-containing compound biosynthetic process	1/292	233	100	020	1
	525			28	016	725	
	GO:			24/	0.26	0.14	
BP	0090	regulation of platelet aggregation	1/292	233	100	020	1
	330			28	016	725	
	GO:			24/	0.26	0.14	
BP	0097	neuronal stem cell population maintenance	1/292	233	100	020	1
	150			28	016	725	
	GO:			24/	0.26	0.14	
BP	0098	cellular oxidant detoxification	1/292	233	100	020	1
	869			28	016	725	
	GO:			24/	0.26	0.14	
BP	1900	positive regulation of cellular response to oxidative stress	1/292	233	100	020	1
	409			28	016	725	
	GO:			24/	0.26	0.14	
BP	1902	calcium ion import into cytosol	1/292	233	100	020	1
	656			28	016	725	
	GO:			24/	0.26	0.14	
BP	1903	negative regulation of protein localization to plasma membrane	1/292	233	100	020	1
	077			28	016	725	
	GO:			207	0.26	0.14	
BP	0001	response to acid chemical	4/292	/23	107	020	4
	101			328	502	725	
	GO:			142	0.26	0.14	
BP	0010	regulation of mitochondrion organization	3/292	/23	277	099	3
	821			328	077	483	

	GO:		142	0.26	0.14	
BP	0016 carbohydrate catabolic process	3/292	/23	277	099	3
	052		328	077	483	
	GO:		142	0.26	0.14	
BP	1902 microtubule cytoskeleton organization	3/292	/23	277	099	3
	850 involved in mitosis		328	077	483	
	GO:		80/	0.26	0.14	
BP	0010 negative regulation of phosphatase activity	2/292	233	473	180	2
	923		28	664	052	
	GO:		80/	0.26	0.14	
BP	0030 regulation of cellular pH	2/292	233	473	180	2
	641		28	664	052	
	GO:		80/	0.26	0.14	
BP	0032 regulation of cytokinesis	2/292	233	473	180	2
	465		28	664	052	
	GO:		80/	0.26	0.14	
BP	0048 focal adhesion assembly	2/292	233	473	180	2
	041		28	664	052	
	GO:		80/	0.26	0.14	
BP	0051 positive regulation of synapse assembly	2/292	233	473	180	2
	965		28	664	052	
	GO:		80/	0.26	0.14	
BP	1900 regulation of purine nucleotide metabolic process	2/292	233	473	180	2
	542		28	664	052	
	GO:		345	0.26	0.14	
BP	0019 ribose phosphate metabolic process	6/292	/23	481	180	6
	693		328	025	052	
	GO:		277	0.26	0.14	
BP	0008 cell recognition	5/292	/23	713	300	5
	037		328	178	216	
	GO:		81/	0.26	0.14	
BP	0006 regulation of nucleotide metabolic process	2/292	233	937	375	2
	140		28	84	917	
	GO:		81/	0.26	0.14	
BP	0051 regulation of mitochondrial membrane potential	2/292	233	937	375	2
	881		28	84	917	
	GO:		25/	0.27	0.14	
BP	0007 neuromuscular synaptic transmission	1/292	233	025	375	1
	274		28	986	917	
	GO:		25/	0.27	0.14	
BP	0007 axonal fasciculation	1/292	233	025	375	1
	413		28	986	917	

	GO:		25/	0.27	0.14	
BP	0010	regulation of platelet-derived growth factor receptor signaling pathway	1/292	233	025	375 1
	640			28	986	917
	GO:		25/	0.27	0.14	
BP	0010	positive regulation of lipid storage	1/292	233	025	375 1
	884			28	986	917
	GO:		25/	0.27	0.14	
BP	0019	virion assembly	1/292	233	025	375 1
	068			28	986	917
	GO:		25/	0.27	0.14	
BP	0032	negative regulation of type I interferon production	1/292	233	025	375 1
	480			28	986	917
	GO:		25/	0.27	0.14	
BP	0032	negative regulation of phosphoprotein phosphatase activity	1/292	233	025	375 1
	515			28	986	917
	GO:		25/	0.27	0.14	
BP	0032	negative regulation of viral transcription	1/292	233	025	375 1
	897			28	986	917
	GO:		25/	0.27	0.14	
BP	0036	post-anal tail morphogenesis	1/292	233	025	375 1
	342			28	986	917
	GO:		25/	0.27	0.14	
BP	0042	indole-containing compound metabolic process	1/292	233	025	375 1
	430			28	986	917
	GO:		25/	0.27	0.14	
BP	0046	nicotinamide nucleotide metabolic process	1/292	233	025	375 1
	496			28	986	917
	GO:		25/	0.27	0.14	
BP	0048	negative regulation of skeletal muscle tissue development	1/292	233	025	375 1
	642			28	986	917
	GO:		25/	0.27	0.14	
BP	0051	RNA polymerase II preinitiation complex assembly	1/292	233	025	375 1
	123			28	986	917
	GO:		25/	0.27	0.14	
BP	0051	positive regulation of focal adhesion assembly	1/292	233	025	375 1
	894			28	986	917
	GO:		25/	0.27	0.14	
BP	0060	reflex	1/292	233	025	375 1
	004			28	986	917
	GO:		25/	0.27	0.14	
BP	0070	transepithelial transport	1/292	233	025	375 1
	633			28	986	917

	GO:		25/	0.27	0.14	
BP	0071 protein K48-linked deubiquitination	1/292	233	025	375	1
	108		28	986	917	
	GO:		25/	0.27	0.14	
BP	0071 adenylate cyclase-activating adrenergic	1/292	233	025	375	1
	880 receptor signaling pathway		28	986	917	
	GO:		25/	0.27	0.14	
BP	0098 cell aggregation	1/292	233	025	375	1
	743		28	986	917	
	GO:		25/	0.27	0.14	
BP	0106 neuron projection fasciculation	1/292	233	025	375	1
	030		28	986	917	
	GO:		82/	0.27	0.14	
BP	0044 entry into host	2/292	233	401	567	2
	409		28	955	507	
	GO:		82/	0.27	0.14	
BP	1901 regulation of calcium ion transmembrane	2/292	233	401	567	2
	019 transporter activity		28	955	507	
	GO:		83/	0.27	0.14	
BP	0001 morphogenesis of a polarized epithelium	2/292	233	865	764	2
	738		28	939	426	
	GO:		83/	0.27	0.14	
BP	0003 amino acid transmembrane transport	2/292	233	865	764	2
	333		28	939	426	
	GO:		83/	0.27	0.14	
BP	0044 cellular amine metabolic process	2/292	233	865	764	2
	106		28	939	426	
	GO:		83/	0.27	0.14	
BP	0051 membrane depolarization	2/292	233	865	764	2
	899		28	939	426	
	GO:		26/	0.27	0.14	
BP	0000 mitochondrial genome maintenance	1/292	233	940	764	1
	002		28	392	426	
	GO:		26/	0.27	0.14	
BP	0000 response to superoxide	1/292	233	940	764	1
	303		28	392	426	
	GO:		26/	0.27	0.14	
BP	0000 DNA catabolic process, endonucleolytic	1/292	233	940	764	1
	737		28	392	426	
	GO:		26/	0.27	0.14	
BP	0032 regulation of response to extracellular	1/292	233	940	764	1
	104 stimulus		28	392	426	

	GO:		26/	0.27	0.14	
BP	0032 regulation of response to nutrient levels	1/292	233	940	764	1
	107		28	392	426	
	GO:		26/	0.27	0.14	
BP	0033 integrin activation	1/292	233	940	764	1
	622		28	392	426	
	GO:		26/	0.27	0.14	
BP	0046 monosaccharide catabolic process	1/292	233	940	764	1
	365		28	392	426	
	GO:		26/	0.27	0.14	
BP	0055 response to lipoprotein particle	1/292	233	940	764	1
	094		28	392	426	
	GO:		26/	0.27	0.14	
BP	0070 synaptonemal complex organization	1/292	233	940	764	1
	193		28	392	426	
	GO:		26/	0.27	0.14	
BP	0090 negative regulation of cell aging	1/292	233	940	764	1
	344		28	392	426	
	GO:		26/	0.27	0.14	
BP	0098 regulation of cardiac muscle cell action potential	1/292	233	940	764	1
	901		28	392	426	
	GO:		26/	0.27	0.14	
BP	0140 neuron projection arborization	1/292	233	940	764	1
	058		28	392	426	
	GO:		26/	0.27	0.14	
BP	1904 negative regulation of cyclin-dependent protein kinase activity	1/292	233	940	764	1
	030		28	392	426	
	GO:		26/	0.27	0.14	
BP	1904 negative regulation of protein localization to cell periphery	1/292	233	940	764	1
	376		28	392	426	
	GO:		26/	0.27	0.14	
BP	2000 regulation of non-canonical Wnt signaling pathway	1/292	233	940	764	1
	050		28	392	426	
	GO:		26/	0.27	0.14	
BP	2000 regulation of AMPA receptor activity	1/292	233	940	764	1
	311		28	392	426	
	GO:		26/	0.27	0.14	
BP	2000 positive regulation of transcription regulatory region DNA binding	1/292	233	940	764	1
	679		28	392	426	
	GO:		352	0.27	0.14	
BP	0034 nucleobase-containing compound catabolic process	6/292	/23	968	774	6
	655		328	225	903	

	GO:		84/	0.28	0.14	
BP	0070 bicellular tight junction assembly	2/292	233	329	961	2
	830		28	722	589	
	GO:		354	0.28	0.14	
BP	0006 purine nucleotide metabolic process	6/292	/23	396	992	6
	163		328	689	665	
	GO:		355	0.28	0.15	
BP	0006 regulation of translation	6/292	/23	611	101	6
	417		328	472	743	
	GO:		427	0.28	0.15	
BP	0009 nucleotide metabolic process	7/292	/23	816	124	7
	117		328	458	645	
	GO:		27/	0.28	0.15	
BP	0000 response to oxygen radical	1/292	233	843	124	1
	305		28	38	645	
	GO:		27/	0.28	0.15	
BP	0002 antigen processing and presentation of exogenous peptide antigen	1/292	233	843	124	1
	478		28	38	645	
	GO:		27/	0.28	0.15	
BP	0010 positive regulation of G2/M transition of mitotic cell cycle	1/292	233	843	124	1
	971		28	38	645	
	GO:		27/	0.28	0.15	
BP	0015 norepinephrine transport	1/292	233	843	124	1
	874		28	38	645	
	GO:		27/	0.28	0.15	
BP	0030 positive regulation of blood coagulation	1/292	233	843	124	1
	194		28	38	645	
	GO:		27/	0.28	0.15	
BP	0031 negative regulation of cell killing	1/292	233	843	124	1
	342		28	38	645	
	GO:		27/	0.28	0.15	
BP	0032 microvillus organization	1/292	233	843	124	1
	528		28	38	645	
	GO:		27/	0.28	0.15	
BP	0033 regulation of osteoblast proliferation	1/292	233	843	124	1
	688		28	38	645	
	GO:		27/	0.28	0.15	
BP	0042 fluid transport	1/292	233	843	124	1
	044		28	38	645	
	GO:		27/	0.28	0.15	
BP	0045 positive regulation of bone resorption	1/292	233	843	124	1
	780		28	38	645	

	GO:		27/	0.28	0.15	
BP	0046 positive regulation of bone remodeling	1/292	233	843	124	1
	852		28	38	645	
	GO:		27/	0.28	0.15	
BP	0046 regulation of hormone biosynthetic process	1/292	233	843	124	1
	885		28	38	645	
	GO:		27/	0.28	0.15	
BP	0048 smooth muscle tissue development	1/292	233	843	124	1
	745		28	38	645	
	GO:		27/	0.28	0.15	
BP	0048 animal organ maturation	1/292	233	843	124	1
	799		28	38	645	
	GO:		27/	0.28	0.15	
BP	0060 Sertoli cell differentiation	1/292	233	843	124	1
	008		28	38	645	
	GO:		27/	0.28	0.15	
BP	0060 labyrinthine layer blood vessel development	1/292	233	843	124	1
	716		28	38	645	
	GO:		27/	0.28	0.15	
BP	0061 retina vasculature development in camera-	1/292	233	843	124	1
	298 type eye		28	38	645	
	GO:		27/	0.28	0.15	
BP	0071 cellular response to ethanol	1/292	233	843	124	1
	361		28	38	645	
	GO:		27/	0.28	0.15	
BP	1900 positive regulation of hemostasis	1/292	233	843	124	1
	048		28	38	645	
	GO:		27/	0.28	0.15	
BP	1902 positive regulation of response to oxidative	1/292	233	843	124	1
	884 stress		28	38	645	
	GO:		27/	0.28	0.15	
BP	1903 regulation of bone development	1/292	233	843	124	1
	010		28	38	645	
	GO:		27/	0.28	0.15	
BP	1905 negative regulation of synapse organization	1/292	233	843	124	1
	809		28	38	645	
	GO:		86/	0.29	0.15	
BP	0006 response to osmotic stress	2/292	233	256	332	2
	970		28	417	516	
	GO:		86/	0.29	0.15	
BP	0097 lamellipodium organization	2/292	233	256	332	2
	581		28	417	516	

	GO:		430	0.29	0.15	
BP	0016 Wnt signaling pathway	7/292	723	405	406	7
	055		328	819	438	
	GO:		87/	0.29	0.15	
BP	0035 regulation of protein dephosphorylation	2/292	233	719	482	2
	304		28	2	242	
	GO:		28/	0.29	0.15	
BP	0006 serotonin transport	1/292	233	735	482	1
	837		28	089	242	
	GO:		28/	0.29	0.15	
BP	0008 determination of adult lifespan	1/292	233	735	482	1
	340		28	089	242	
	GO:		28/	0.29	0.15	
BP	0010 regulation of proton transport	1/292	233	735	482	1
	155		28	089	242	
	GO:		28/	0.29	0.15	
BP	0010 exit from mitosis	1/292	233	735	482	1
	458		28	089	242	
	GO:		28/	0.29	0.15	
BP	0019 pyridine nucleotide metabolic process	1/292	233	735	482	1
	362		28	089	242	
	GO:		28/	0.29	0.15	
BP	0019 cytolysis	1/292	233	735	482	1
	835		28	089	242	
	GO:		28/	0.29	0.15	
BP	0030 monocyte differentiation	1/292	233	735	482	1
	224		28	089	242	
	GO:		28/	0.29	0.15	
BP	0032 receptor catabolic process	1/292	233	735	482	1
	801		28	089	242	
	GO:		28/	0.29	0.15	
BP	0033 regulation of protein sumoylation	1/292	233	735	482	1
	233		28	089	242	
	GO:		28/	0.29	0.15	
BP	0042 hydrogen peroxide catabolic process	1/292	233	735	482	1
	744		28	089	242	
	GO:		28/	0.29	0.15	
BP	0045 positive regulation of myoblast differentiation	1/292	233	735	482	1
	663		28	089	242	
	GO:		28/	0.29	0.15	
BP	0045 negative regulation of embryonic development	1/292	233	735	482	1
	992		28	089	242	

	GO:		28/	0.29	0.15	
BP	0060 pharyngeal system development	1/292	233	735	482	1
	037		28	089	242	
	GO:		28/	0.29	0.15	
BP	0060 innervation	1/292	233	735	482	1
	384		28	089	242	
	GO:		28/	0.29	0.15	
BP	0061 establishment of skin barrier	1/292	233	735	482	1
	436		28	089	242	
	GO:		28/	0.29	0.15	
BP	0071 protein localization to chromatin	1/292	233	735	482	1
	168		28	089	242	
	GO:		28/	0.29	0.15	
BP	0071 cellular response to lipoprotein particle stimulus	1/292	233	735	482	1
	402		28	089	242	
	GO:		28/	0.29	0.15	
BP	0071 adrenergic receptor signaling pathway	1/292	233	735	482	1
	875		28	089	242	
	GO:		28/	0.29	0.15	
BP	1901 regulation of hematopoietic progenitor cell differentiation	1/292	233	735	482	1
	532		28	089	242	
	GO:		28/	0.29	0.15	
BP	1903 mononuclear cell differentiation	1/292	233	735	482	1
	131		28	089	242	
	GO:		28/	0.29	0.15	
BP	1903 positive regulation of dendrite extension	1/292	233	735	482	1
	861		28	089	242	
	GO:		432	0.29	0.15	
BP	0198 cell-cell signaling by wnt	7/292	/23	800	511	7
	738		328	24	787	
	GO:		88/	0.30	0.15	
BP	0032 positive regulation of proteasomal ubiquitin-dependent protein catabolic process	2/292	233	181	696	2
	436		28	522	97	
	GO:		88/	0.30	0.15	
BP	0035 skeletal muscle cell differentiation	2/292	233	181	696	2
	914		28	522	97	
	GO:		88/	0.30	0.15	
BP	1903 negative regulation of mRNA metabolic process	2/292	233	181	696	2
	312		28	522	97	
	GO:		222	0.30	0.15	
BP	2001 regulation of response to DNA damage stimulus	4/292	/23	278	742	4
	020		328	547	995	

	GO:		363	0.30	0.15	
BP	1990 protein localization to cell periphery	6/292	/23	341	771	6
	778		328	871	475	
	GO:		223	0.30	0.15	
BP	0007 establishment or maintenance of cell polarity	4/292	/23	559	820	4
	163		328	661	206	
	GO:		436	0.30	0.15	
BP	0006 nucleoside phosphate metabolic process	7/292	/23	592	820	7
	753		328	495	206	
	GO:		29/	0.30	0.15	
BP	0007 gamma-aminobutyric acid signaling pathway	1/292	233	615	820	1
	214		28	663	206	
	GO:		29/	0.30	0.15	
BP	0010 miRNA metabolic process	1/292	233	615	820	1
	586		28	663	206	
	GO:		29/	0.30	0.15	
BP	0030 apoptotic nuclear changes	1/292	233	615	820	1
	262		28	663	206	
	GO:		29/	0.30	0.15	
BP	0031 regulation of histone deacetylation	1/292	233	615	820	1
	063		28	663	206	
	GO:		29/	0.30	0.15	
BP	0033 positive regulation of peptidyl-serine phosphorylation of STAT protein	1/292	233	615	820	1
	141		28	663	206	
	GO:		29/	0.30	0.15	
BP	0033 response to ATP	1/292	233	615	820	1
	198		28	663	206	
	GO:		29/	0.30	0.15	
BP	0033 response to vitamin	1/292	233	615	820	1
	273		28	663	206	
	GO:		29/	0.30	0.15	
BP	0045 regulation of circadian sleep/wake cycle, sleep	1/292	233	615	820	1
	187		28	663	206	
	GO:		29/	0.30	0.15	
BP	0045 regulation of adenylate cyclase activity	1/292	233	615	820	1
	761		28	663	206	
	GO:		29/	0.30	0.15	
BP	0048 positive regulation of skeletal muscle tissue development	1/292	233	615	820	1
	643		28	663	206	
	GO:		29/	0.30	0.15	
BP	0061 regulation of cell growth involved in cardiac muscle cell development	1/292	233	615	820	1
	050		28	663	206	

	GO:		29/	0.30	0.15		
BP	0070 sarcoplasmic reticulum calcium ion transport	1/292	233	615	820	1	
	296		28	663	206		
	GO:		29/	0.30	0.15		
BP	0070 transcription preinitiation complex assembly	1/292	233	615	820	1	
	897		28	663	206		
	GO:		29/	0.30	0.15		
BP	0090 positive regulation of triglyceride metabolic process	1/292	233	615	820	1	
	208		28	663	206		
	GO:		29/	0.30	0.15		
BP	0090 positive regulation of protein deacetylation	1/292	233	615	820	1	
	312		28	663	206		
	GO:		29/	0.30	0.15		
BP	0090 positive regulation of protein targeting to membrane	1/292	233	615	820	1	
	314		28	663	206		
	GO:		29/	0.30	0.15		
BP	0150 positive regulation of cell-substrate junction organization	1/292	233	615	820	1	
	117		28	663	206		
	GO:		29/	0.30	0.15		
BP	1900 regulation of ruffle assembly	1/292	233	615	820	1	
	027		28	663	206		
	GO:		29/	0.30	0.15		
BP	2000 negative regulation of signaling receptor activity	1/292	233	615	820	1	
	272		28	663	206		
	GO:		89/	0.30	0.15		
BP	0042 signal transduction in response to DNA damage	2/292	233	643	830	2	
	770		28	322	065		
	GO:		90/	0.31	0.16		
BP	0007 cell-substrate junction assembly	2/292	233	104	054	2	
	044		28	543	844		
	GO:		90/	0.31	0.16		
BP	0009 cellular amino acid catabolic process	2/292	233	104	054	2	
	063		28	543	844		
	GO:		90/	0.31	0.16		
BP	0043 negative regulation of protein-containing complex disassembly	2/292	233	104	054	2	
	242		28	543	844		
	GO:		30/	0.31	0.16		
BP	0005 regulation of glycogen biosynthetic process	1/292	233	485	201	1	
	979		28	238	492		
	GO:		30/	0.31	0.16		
BP	0006 cellular component disassembly involved in execution phase of apoptosis	1/292	233	485	201	1	
	921		28	238	492		

	GO:		30/	0.31	0.16		
BP	0010 positive regulation of phosphatase activity	1/292	233	485	201	1	
	922		28	238	492		
	GO:		30/	0.31	0.16		
BP	0010 negative regulation of protein processing	1/292	233	485	201	1	
	955		28	238	492		
	GO:		30/	0.31	0.16		
BP	0010 regulation of glucan biosynthetic process	1/292	233	485	201	1	
	962		28	238	492		
	GO:		30/	0.31	0.16		
BP	0035 embryonic hemopoiesis	1/292	233	485	201	1	
	162		28	238	492		
	GO:		30/	0.31	0.16		
BP	0050 circadian sleep/wake cycle, sleep	1/292	233	485	201	1	
	802		28	238	492		
	GO:		30/	0.31	0.16		
BP	0050 positive regulation of coagulation	1/292	233	485	201	1	
	820		28	238	492		
	GO:		30/	0.31	0.16		
BP	1902 positive regulation of cell cycle G2/M phase transition	1/292	233	485	201	1	
	751		28	238	492		
	GO:		30/	0.31	0.16		
BP	1903 negative regulation of protein maturation	1/292	233	485	201	1	
	318		28	238	492		
	GO:		30/	0.31	0.16		
BP	1903 negative regulation of ATP metabolic process	1/292	233	485	201	1	
	579		28	238	492		
	GO:		91/	0.31	0.16		
BP	0002 mucosal immune response	2/292	233	565	238	2	
	385		28	124	071		
	GO:		227	0.31	0.16		
BP	0071 cellular response to inorganic substance	4/292	/23	686	296	4	
	241		328	762	102		
	GO:		298	0.31	0.16		
BP	0009 response to light stimulus	5/292	/23	791	345	5	
	416		328	068	19		
	GO:		92/	0.32	0.16		
BP	0000 autophagosome assembly	2/292	233	025	460	2	
	045		28	012	884		
	GO:		159	0.32	0.16		
BP	0007 cell aging	3/292	/23	063	476	3	
	569		328	602	13		

	GO:		31/	0.32	0.16	
BP	0000 establishment of mitotic spindle orientation	1/292	233	343	532	1
	132		28	951	715	
	GO:		31/	0.32	0.16	
BP	0001 blastocyst growth	1/292	233	343	532	1
	832		28	951	715	
	GO:		31/	0.32	0.16	
BP	0001 endochondral ossification	1/292	233	343	532	1
	958		28	951	715	
	GO:		31/	0.32	0.16	
BP	0010 regulation of tumor necrosis factor-mediated signaling pathway	1/292	233	343	532	1
	803		28	951	715	
	GO:		31/	0.32	0.16	
BP	0021 cell differentiation in hindbrain	1/292	233	343	532	1
	533		28	951	715	
	GO:		31/	0.32	0.16	
BP	0022 myelination in peripheral nervous system	1/292	233	343	532	1
	011		28	951	715	
	GO:		31/	0.32	0.16	
BP	0032 peripheral nervous system axon ensheathment	1/292	233	343	532	1
	292		28	951	715	
	GO:		31/	0.32	0.16	
BP	0033 negative regulation of peptidyl-serine phosphorylation	1/292	233	343	532	1
	137		28	951	715	
	GO:		31/	0.32	0.16	
BP	0033 osteoblast proliferation	1/292	233	343	532	1
	687		28	951	715	
	GO:		31/	0.32	0.16	
BP	0036 CD8-positive, alpha-beta T cell activation	1/292	233	343	532	1
	037		28	951	715	
	GO:		31/	0.32	0.16	
BP	0036 replacement ossification	1/292	233	343	532	1
	075		28	951	715	
	GO:		31/	0.32	0.16	
BP	0042 heme metabolic process	1/292	233	343	532	1
	168		28	951	715	
	GO:		31/	0.32	0.16	
BP	0044 modulation by host of viral process	1/292	233	343	532	1
	788		28	951	715	
	GO:		31/	0.32	0.16	
BP	0045 negative regulation of exocytosis	1/292	233	343	532	1
	920		28	951	715	

	GO:		31/	0.32	0.16	
BP	0051 negative regulation of stress fiber assembly	1/292	233	343	532	1
	497		28	951	715	
	GO:		31/	0.32	0.16	
BP	0060 auditory receptor cell development	1/292	233	343	532	1
	117		28	951	715	
	GO:		31/	0.32	0.16	
BP	0060 cell fate commitment involved in formation of primary germ layer	1/292	233	343	532	1
	795		28	951	715	
	GO:		31/	0.32	0.16	
BP	0098 neurotransmitter reuptake	1/292	233	343	532	1
	810		28	951	715	
	GO:		31/	0.32	0.16	
BP	1902 regulation of intrinsic apoptotic signaling pathway by p53 class mediator	1/292	233	343	532	1
	253		28	951	715	
	GO:		93/	0.32	0.16	
BP	0035 negative regulation of dephosphorylation	2/292	233	484	590	2
	305		28	15	591	
	GO:		93/	0.32	0.16	
BP	0043 apical junction assembly	2/292	233	484	590	2
	297		28	15	591	
	GO:		93/	0.32	0.16	
BP	0150 cell-substrate junction organization	2/292	233	484	590	2
	115		28	15	591	
	GO:		94/	0.32	0.16	
BP	0070 actin-mediated cell contraction	2/292	233	942	820	2
	252		28	486	021	
	GO:		32/	0.33	0.16	
BP	0001 oocyte maturation	1/292	233	191	881	1
	556		28	939	991	
	GO:		32/	0.33	0.16	
BP	0006 tricarboxylic acid cycle	1/292	233	191	881	1
	099		28	939	991	
	GO:		32/	0.33	0.16	
BP	0010 negative regulation of cardiac muscle hypertrophy	1/292	233	191	881	1
	614		28	939	991	
	GO:		32/	0.33	0.16	
BP	0016 negative regulation of macroautophagy	1/292	233	191	881	1
	242		28	939	991	
	GO:		32/	0.33	0.16	
BP	0021 cerebellar cortex formation	1/292	233	191	881	1
	697		28	939	991	

	GO:		32/	0.33	0.16	
BP	0033	regulation of peptidyl-serine phosphorylation of STAT protein	1/292	233	191	881 1
	139			28	939	991
	GO:		32/	0.33	0.16	
BP	0045	positive regulation of gene expression, epigenetic	1/292	233	191	881 1
	815			28	939	991
	GO:		32/	0.33	0.16	
BP	0051	positive regulation of filopodium assembly	1/292	233	191	881 1
	491			28	939	991
	GO:		32/	0.33	0.16	
BP	0055	negative regulation of cardiac muscle tissue growth	1/292	233	191	881 1
	022			28	939	991
	GO:		32/	0.33	0.16	
BP	0061	negative regulation of heart growth	1/292	233	191	881 1
	117			28	939	991
	GO:		32/	0.33	0.16	
BP	0070	protein K63-linked deubiquitination	1/292	233	191	881 1
	536			28	939	991
	GO:		32/	0.33	0.16	
BP	1901	negative regulation of signal transduction by p53 class mediator	1/292	233	191	881 1
	797			28	939	991
	GO:		32/	0.33	0.16	
BP	1903	regulation of dendrite extension	1/292	233	191	881 1
	859			28	939	991
	GO:		32/	0.33	0.16	
BP	1905	negative regulation of protein localization to membrane	1/292	233	191	881 1
	476			28	939	991
	GO:		95/	0.33	0.16	
BP	0055	cardiac muscle cell development	2/292	233	399	983 2
	013			28	969	117
	GO:		163	0.33	0.16	
BP	0002	hematopoietic progenitor cell differentiation	3/292	/23	431	994 3
	244			328	964	703
	GO:		96/	0.33	0.17	
BP	0061	somite development	2/292	233	856	205 2
	053			28	546	794
	GO:		33/	0.34	0.17	
BP	0001	natural killer cell differentiation	1/292	233	029	241 1
	779			28	334	372
	GO:		33/	0.34	0.17	
BP	0007	mating behavior	1/292	233	029	241 1
	617			28	334	372

	GO:		33/	0.34	0.17	
BP	0022 circadian sleep/wake cycle process	1/292	233	029	241	1
	410		28	334	372	
	GO:		33/	0.34	0.17	
BP	0033 regulation of T cell differentiation in thymus	1/292	233	029	241	1
	081		28	334	372	
	GO:		33/	0.34	0.17	
BP	0033 regulation of water loss via skin	1/292	233	029	241	1
	561		28	334	372	
	GO:		33/	0.34	0.17	
BP	0045 regulation of megakaryocyte differentiation	1/292	233	029	241	1
	652		28	334	372	
	GO:		33/	0.34	0.17	
BP	0045 positive regulation of G protein-coupled receptor signaling pathway	1/292	233	029	241	1
	745		28	334	372	
	GO:		33/	0.34	0.17	
BP	0051 centrosome localization	1/292	233	029	241	1
	642		28	334	372	
	GO:		33/	0.34	0.17	
BP	0060 lung epithelial cell differentiation	1/292	233	029	241	1
	487		28	334	372	
	GO:		33/	0.34	0.17	
BP	0060 heart formation	1/292	233	029	241	1
	914		28	334	372	
	GO:		33/	0.34	0.17	
BP	0072 pyridine-containing compound metabolic process	1/292	233	029	241	1
	524		28	334	372	
	GO:		165	0.34	0.17	
BP	0006 cellular modified amino acid metabolic process	3/292	/23	115	280	3
	575		328	825	449	
	GO:		236	0.34	0.17	
BP	0045 negative regulation of mitotic cell cycle	4/292	/23	233	335	4
	930		328	674	383	
	GO:		97/	0.34	0.17	
BP	1905 autophagosome organization	2/292	233	312	370	2
	037		28	171	366	
	GO:		166	0.34	0.17	
BP	0098 import across plasma membrane	3/292	/23	457	439	3
	739		328	584	196	
	GO:		98/	0.34	0.17	
BP	1901 glycosyl compound metabolic process	2/292	233	766	583	2
	657		28	795	102	

	GO:		34/	0.34	0.17	
BP	0001	startle response	1/292	233	856	583 1
	964			28	268	102
	GO:		34/	0.34	0.17	
BP	0006	cell volume homeostasis	1/292	233	856	583 1
	884			28	268	102
	GO:		34/	0.34	0.17	
BP	0014	Schwann cell development	1/292	233	856	583 1
	044			28	268	102
	GO:		34/	0.34	0.17	
BP	0014	negative regulation of muscle hypertrophy	1/292	233	856	583 1
	741			28	268	102
	GO:		34/	0.34	0.17	
BP	0019	antigen processing and presentation of exogenous antigen	1/292	233	856	583 1
	884			28	268	102
	GO:		34/	0.34	0.17	
BP	0019	cGMP-mediated signaling	1/292	233	856	583 1
	934			28	268	102
	GO:		34/	0.34	0.17	
BP	0044	cellular carbohydrate catabolic process	1/292	233	856	583 1
	275			28	268	102
	GO:		34/	0.34	0.17	
BP	0060	lung cell differentiation	1/292	233	856	583 1
	479			28	268	102
	GO:		34/	0.34	0.17	
BP	0061	microtubule organizing center localization	1/292	233	856	583 1
	842			28	268	102
	GO:		34/	0.34	0.17	
BP	0090	establishment of epithelial cell polarity	1/292	233	856	583 1
	162			28	268	102
	GO:		34/	0.34	0.17	
BP	0097	autophagosome maturation	1/292	233	856	583 1
	352			28	268	102
	GO:		99/	0.35	0.17	
BP	0045	maintenance of protein location	2/292	233	220	761 2
	185			28	371	917
	GO:		35/	0.35	0.17	
BP	0002	regulation of oxidative phosphorylation	1/292	233	672	911 1
	082			28	872	792
	GO:		35/	0.35	0.17	
BP	0007	negative regulation of microtubule depolymerization	1/292	233	672	911 1
	026			28	872	792

	GO:		35/	0.35	0.17		
BP	0009	cyclic nucleotide metabolic process	1/292	233	672	911	1
		187		28	872	792	
	GO:		35/	0.35	0.17		
BP	0010	negative regulation of epithelial to mesenchymal transition	1/292	233	672	911	1
		719		28	872	792	
	GO:		35/	0.35	0.17		
BP	0021	cell proliferation in forebrain	1/292	233	672	911	1
		846		28	872	792	
	GO:		35/	0.35	0.17		
BP	0032	response to food	1/292	233	672	911	1
		094		28	872	792	
	GO:		35/	0.35	0.17		
BP	0034	cell junction maintenance	1/292	233	672	911	1
		331		28	872	792	
	GO:		35/	0.35	0.17		
BP	0035	negative regulation of protein dephosphorylation	1/292	233	672	911	1
		308		28	872	792	
	GO:		35/	0.35	0.17		
BP	0040	establishment of mitotic spindle localization	1/292	233	672	911	1
		001		28	872	792	
	GO:		35/	0.35	0.17		
BP	0043	regulation of DNA damage response, signal transduction by p53 class mediator	1/292	233	672	911	1
		516		28	872	792	
	GO:		35/	0.35	0.17		
BP	0045	negative regulation of glial cell differentiation	1/292	233	672	911	1
		686		28	872	792	
	GO:		35/	0.35	0.17		
BP	0045	negative regulation of Notch signaling pathway	1/292	233	672	911	1
		746		28	872	792	
	GO:		35/	0.35	0.17		
BP	0060	long-term synaptic depression	1/292	233	672	911	1
		292		28	872	792	
	GO:		35/	0.35	0.17		
BP	0071	cellular response to cAMP	1/292	233	672	911	1
		320		28	872	792	
	GO:		35/	0.35	0.17		
BP	0090	regulation of protein targeting to membrane	1/292	233	672	911	1
		313		28	872	792	
	GO:		35/	0.35	0.17		
BP	1900	negative regulation of protein localization to nucleus	1/292	233	672	911	1
		181		28	872	792	

	GO:		101	0.36	0.18	
BP	0009 fatty acid catabolic process	2/292	/23	124	118	2
	062		328	205	691	
	GO:		101	0.36	0.18	
BP	0031 positive regulation of histone modification	2/292	/23	124	118	2
	058		328	205	691	
	GO:		101	0.36	0.18	
BP	0055 cardiac cell development	2/292	/23	124	118	2
	006		328	205	691	
	GO:		101	0.36	0.18	
BP	2000 positive regulation of ubiquitin-dependent protein catabolic process	2/292	/23	124	118	2
	060		328	205	691	
	GO:		36/	0.36	0.18	
BP	0007 female meiotic nuclear division	1/292	233	479	247	1
	143		28	274	184	
	GO:		36/	0.36	0.18	
BP	0009 nucleobase metabolic process	1/292	233	479	247	1
	112		28	274	184	
	GO:		36/	0.36	0.18	
BP	0032 negative regulation of actin filament bundle assembly	1/292	233	479	247	1
	232		28	274	184	
	GO:		36/	0.36	0.18	
BP	0033 nuclear DNA replication	1/292	233	479	247	1
	260		28	274	184	
	GO:		36/	0.36	0.18	
BP	0034 plasma lipoprotein particle clearance	1/292	233	479	247	1
	381		28	274	184	
	GO:		36/	0.36	0.18	
BP	0050 RNA destabilization	1/292	233	479	247	1
	779		28	274	184	
	GO:		36/	0.36	0.18	
BP	0060 positive regulation of transcription initiation from RNA polymerase II promoter	1/292	233	479	247	1
	261		28	274	184	
	GO:		36/	0.36	0.18	
BP	0071 positive regulation of cell cycle arrest	1/292	233	479	247	1
	158		28	274	184	
	GO:		36/	0.36	0.18	
BP	2000 negative regulation of dendrite development	1/292	233	479	247	1
	171		28	274	184	
	GO:		36/	0.36	0.18	
BP	2000 regulation of autophagosome assembly	1/292	233	479	247	1
	785		28	274	184	

	GO:		172	0.36	0.18	
BP	0008 phospholipid biosynthetic process	3/292	/23	504	249	3
	654		328	152	734	
	GO:		172	0.36	0.18	
BP	0060 retina development in camera-type eye	3/292	/23	504	249	3
	041		328	152	734	
	GO:		103	0.37	0.18	
BP	0044 cellular polysaccharide metabolic process	2/292	/23	023	504	2
	264		328	326	274	
	GO:		37/	0.37	0.18	
BP	0002 response to ischemia	1/292	233	275	564	1
	931		28	601	991	
	GO:		37/	0.37	0.18	
BP	0009 aromatic amino acid family metabolic process	1/292	233	275	564	1
	072		28	601	991	
	GO:		37/	0.37	0.18	
BP	0009 proximal/distal pattern formation	1/292	233	275	564	1
	954		28	601	991	
	GO:		37/	0.37	0.18	
BP	0030 collagen catabolic process	1/292	233	275	564	1
	574		28	601	991	
	GO:		37/	0.37	0.18	
BP	0030 cortical actin cytoskeleton organization	1/292	233	275	564	1
	866		28	601	991	
	GO:		37/	0.37	0.18	
BP	0042 serine phosphorylation of STAT protein	1/292	233	275	564	1
	501		28	601	991	
	GO:		37/	0.37	0.18	
BP	0045 protein targeting to ER	1/292	233	275	564	1
	047		28	601	991	
	GO:		37/	0.37	0.18	
BP	0051 establishment of spindle orientation	1/292	233	275	564	1
	294		28	601	991	
	GO:		37/	0.37	0.18	
BP	0060 Wnt signaling pathway, planar cell polarity pathway	1/292	233	275	564	1
	071		28	601	991	
	GO:		37/	0.37	0.18	
BP	0070 regulation of glycogen metabolic process	1/292	233	275	564	1
	873		28	601	991	
	GO:		37/	0.37	0.18	
BP	0098 bone cell development	1/292	233	275	564	1
	751		28	601	991	

	GO:		37/	0.37	0.18	
BP	1903	negative regulation of reactive oxygen species biosynthetic process	1/292	233	275	564 1
	427			28	601	991
	GO:		37/	0.37	0.18	
BP	1990	cellular detoxification	1/292	233	275	564 1
	748			28	601	991
	GO:		104	0.37	0.18	
BP	0052	movement in host environment	2/292	/23	471	652 2
	126			328	018	25
	GO:		104	0.37	0.18	
BP	1902	negative regulation of leukocyte differentiation	2/292	/23	471	652 2
	106			328	018	25
	GO:		38/	0.38	0.18	
BP	0019	triglyceride biosynthetic process	1/292	233	061	920 1
	432			28	979	896
	GO:		38/	0.38	0.18	
BP	0031	regulation of microtubule depolymerization	1/292	233	061	920 1
	114			28	979	896
	GO:		38/	0.38	0.18	
BP	0033	regulation of cellular amine metabolic process	1/292	233	061	920 1
	238			28	979	896
	GO:		38/	0.38	0.18	
BP	0043	negative regulation of potassium ion transport	1/292	233	061	920 1
	267			28	979	896
	GO:		38/	0.38	0.18	
BP	0071	cellular response to estrogen stimulus	1/292	233	061	920 1
	391			28	979	896
	GO:		324	0.38	0.18	
BP	0016	lipid catabolic process	5/292	/23	213	991 5
	042			328	767	235
	GO:		106	0.38	0.19	
BP	0043	pigmentation	2/292	/23	362	060 2
	473			328	47	003
	GO:		39/	0.38	0.19	
BP	0006	porphyrin-containing compound metabolic process	1/292	233	838	260 1
	778			28	531	229
	GO:		39/	0.38	0.19	
BP	0009	response to salt stress	1/292	233	838	260 1
	651			28	531	229
	GO:		39/	0.38	0.19	
BP	0031	regulation of cyclase activity	1/292	233	838	260 1
	279			28	531	229

	GO:		39/	0.38	0.19	
BP	0042	cellular modified amino acid biosynthetic process	1/292	233	838	260 1
	398			28	531	229
	GO:		39/	0.38	0.19	
BP	0046	regulation of fatty acid oxidation	1/292	233	838	260 1
	320			28	531	229
	GO:		39/	0.38	0.19	
BP	1900	positive regulation of G1/S transition of mitotic cell cycle	1/292	233	838	260 1
	087			28	531	229
	GO:		39/	0.38	0.19	
BP	1901	regulation of voltage-gated calcium channel activity	1/292	233	838	260 1
	385			28	531	229
	GO:		180	0.39	0.19	
BP	0003	cilium movement	3/292	/23	215	432 3
	341			328	674	168
	GO:		180	0.39	0.19	
BP	1901	alpha-amino acid metabolic process	3/292	/23	215	432 3
	605			328	674	168
	GO:		108	0.39	0.19	
BP	0006	oxidative phosphorylation	2/292	/23	248	432 2
	119			328	434	168
	GO:		108	0.39	0.19	
BP	0021	cerebral cortex development	2/292	/23	248	432 2
	987			328	434	168
	GO:		108	0.39	0.19	
BP	0034	cellular hormone metabolic process	2/292	/23	248	432 2
	754			328	434	168
	GO:		108	0.39	0.19	
BP	0048	embryonic skeletal system morphogenesis	2/292	/23	248	432 2
	704			328	434	168
	GO:		254	0.39	0.19	
BP	1903	regulation of cellular protein catabolic process	4/292	/23	333	469 4
	362			328	471	046
	GO:		40/	0.39	0.19	
BP	0000	embryonic axis specification	1/292	233	605	545 1
	578			28	38	961
	GO:		40/	0.39	0.19	
BP	0001	blastocyst hatching	1/292	233	605	545 1
	835			28	38	961
	GO:		40/	0.39	0.19	
BP	0003	skeletal muscle contraction	1/292	233	605	545 1
	009			28	38	961

	GO:		40/	0.39	0.19		
BP	0006 ER-nucleus signaling pathway	1/292	233	605	545	1	
	984		28	38	961		
	GO:		40/	0.39	0.19		
BP	0031 embryonic camera-type eye development	1/292	233	605	545	1	
	076		28	38	961		
	GO:		40/	0.39	0.19		
BP	0035 hatching	1/292	233	605	545	1	
	188		28	38	961		
	GO:		40/	0.39	0.19		
BP	0035 positive regulation of protein dephosphorylation	1/292	233	605	545	1	
	307		28	38	961		
	GO:		40/	0.39	0.19		
BP	0048 positive regulation of behavior	1/292	233	605	545	1	
	520		28	38	961		
	GO:		40/	0.39	0.19		
BP	0071 organism emergence from protective structure	1/292	233	605	545	1	
	684		28	38	961		
	GO:		40/	0.39	0.19		
BP	0090 regulation of establishment of planar polarity	1/292	233	605	545	1	
	175		28	38	961		
	GO:		40/	0.39	0.19		
BP	1901 positive regulation of calcium ion transmembrane transporter activity	1/292	233	605	545	1	
	021		28	38	961		
	GO:		109	0.39	0.19		
BP	1900 positive regulation of dendrite development	2/292	/23	689	576	2	
	006		328	271	891		
	GO:		109	0.39	0.19		
BP	1901 positive regulation of proteasomal protein catabolic process	2/292	/23	689	576	2	
	800		328	271	891		
	GO:		110	0.40	0.19		
BP	2001 positive regulation of response to DNA damage stimulus	2/292	/23	128	788	2	
	022		328	632	318		
	GO:		183	0.40	0.19		
BP	0000 G1/S transition of mitotic cell cycle	3/292	/23	225	830	3	
	082		328	345	71		
	GO:		41/	0.40	0.19		
BP	0044 cell cycle DNA replication	1/292	233	362	871	1	
	786		28	647	853		
	GO:		41/	0.40	0.19		
BP	0046 alcohol catabolic process	1/292	233	362	871	1	
	164		28	647	853		

	GO:			41/	0.40	0.19	
BP	0060	regulation of transcription initiation from RNA polymerase II promoter	1/292	233	362	871	1
	260			28	647	853	
	GO:			41/	0.40	0.19	
BP	0072	maintenance of protein localization in organelle	1/292	233	362	871	1
	595			28	647	853	
	GO:			41/	0.40	0.19	
BP	0072	establishment of protein localization to endoplasmic reticulum	1/292	233	362	871	1
	599			28	647	853	
	GO:			112	0.41	0.20	
BP	0051	spindle assembly	2/292	723	002	181	2
	225			328	801	637	
	GO:			42/	0.41	0.20	
BP	0051	regulation of lyase activity	1/292	233	110	218	1
	339			28	451	444	
	GO:			42/	0.41	0.20	
BP	2000	negative regulation of DNA biosynthetic process	1/292	233	110	218	1
	279			28	451	444	
	GO:			42/	0.41	0.20	
BP	2000	regulation of cellular senescence	1/292	233	110	218	1
	772			28	451	444	
	GO:			43/	0.41	0.20	
BP	0014	oligodendrocyte development	1/292	233	848	543	1
	003			28	909	296	
	GO:			43/	0.41	0.20	
BP	0032	positive regulation of TOR signaling	1/292	233	848	543	1
	008			28	909	296	
	GO:			43/	0.41	0.20	
BP	0045	establishment or maintenance of epithelial cell apical/basal polarity	1/292	233	848	543	1
	197			28	909	296	
	GO:			43/	0.41	0.20	
BP	0045	positive regulation of smoothed signaling pathway	1/292	233	848	543	1
	880			28	909	296	
	GO:			43/	0.41	0.20	
BP	0046	regulation of viral transcription	1/292	233	848	543	1
	782			28	909	296	
	GO:			43/	0.41	0.20	
BP	0055	negative regulation of cardiac muscle tissue development	1/292	233	848	543	1
	026			28	909	296	
	GO:			43/	0.41	0.20	
BP	2001	negative regulation of cation channel activity	1/292	233	848	543	1
	258			28	909	296	

	GO:		114	0.41	0.20		
BP	0010	cellular component assembly involved in morphogenesis	2/292	/23	870	548	2
	927			328	698	525	
	GO:			189	0.42	0.20	
BP	0007	neurotransmitter secretion	3/292	/23	229	713	3
	269			328	888	784	
	GO:			189	0.42	0.20	
BP	0099	signal release from synapse	3/292	/23	229	713	3
	643			328	888	784	
	GO:			44/	0.42	0.20	
BP	0014	myotube cell development	1/292	233	578	856	1
	904			28	139	881	
	GO:			44/	0.42	0.20	
BP	0043	skeletal muscle tissue regeneration	1/292	233	578	856	1
	403			28	139	881	
	GO:			44/	0.42	0.20	
BP	0046	negative regulation of organ growth	1/292	233	578	856	1
	621			28	139	881	
	GO:			44/	0.42	0.20	
BP	1901	toxin transport	1/292	233	578	856	1
	998			28	139	881	
	GO:			44/	0.42	0.20	
BP	2000	positive regulation of DNA-templated transcription, initiation	1/292	233	578	856	1
	144			28	139	881	
	GO:			116	0.42	0.20	
BP	0007	mitotic spindle organization	2/292	/23	732	926	2
	052			328	092	739	
	GO:			420	0.42	0.21	
BP	0010	negative regulation of organelle organization	6/292	/23	974	039	6
	639			328	141	692	
	GO:			117	0.43	0.21	
BP	0006	protein targeting to membrane	2/292	/23	160	119	2
	612			328	283	618	
	GO:			117	0.43	0.21	
BP	1905	positive regulation of chromatin organization	2/292	/23	160	119	2
	269			328	283	618	
	GO:			45/	0.43	0.21	
BP	0021	cerebellar cortex morphogenesis	1/292	233	298	159	1
	696			28	255	077	
	GO:			45/	0.43	0.21	
BP	0042	cellular response to glucose starvation	1/292	233	298	159	1
	149			28	255	077	

	GO:		45/	0.43	0.21	
BP	0044 regulation of vacuole organization	1/292	233	298	159	1
	088		28	255	077	
	GO:		45/	0.43	0.21	
BP	0051 establishment of spindle localization	1/292	233	298	159	1
	293		28	255	077	
	GO:		45/	0.43	0.21	
BP	0097 ruffle assembly	1/292	233	298	159	1
	178		28	255	077	
	GO:		46/	0.44	0.21	
BP	0006 cellular biogenic amine metabolic process	1/292	233	009	478	1
	576		28	371	146	
	GO:		46/	0.44	0.21	
BP	0010 multicellular organism aging	1/292	233	009	478	1
	259		28	371	146	
	GO:		46/	0.44	0.21	
BP	0019 viral transcription	1/292	233	009	478	1
	083		28	371	146	
	GO:		46/	0.44	0.21	
BP	0019 neuronal action potential	1/292	233	009	478	1
	228		28	371	146	
	GO:		46/	0.44	0.21	
BP	0043 regulation of transcription from RNA	1/292	233	009	478	1
	618 polymerase II promoter in response to stress		28	371	146	
	GO:		427	0.44	0.21	
BP	0090 organophosphate biosynthetic process	6/292	/23	522	722	6
	407		328	282	72	
	GO:		273	0.44	0.21	
BP	0009 glycoprotein biosynthetic process	4/292	/23	648	763	4
	101		328	989	299	
	GO:		47/	0.44	0.21	
BP	0001 postsynaptic membrane organization	1/292	233	711	763	1
	941		28	599	299	
	GO:		47/	0.44	0.21	
BP	0030 intracellular estrogen receptor signaling	1/292	233	711	763	1
	520 pathway		28	599	299	
	GO:		47/	0.44	0.21	
BP	0033 tetrapyrrole metabolic process	1/292	233	711	763	1
	013		28	599	299	
	GO:		47/	0.44	0.21	
BP	0045 phospholipid translocation	1/292	233	711	763	1
	332		28	599	299	

	GO:		47/	0.44	0.21	
BP	0045 negative regulation of T cell differentiation	1/292	233	711	763	1
	581		28	599	299	
	GO:		47/	0.44	0.21	
BP	0046 neutral lipid biosynthetic process	1/292	233	711	763	1
	460		28	599	299	
	GO:		47/	0.44	0.21	
BP	0046 acylglycerol biosynthetic process	1/292	233	711	763	1
	463		28	599	299	
	GO:		47/	0.44	0.21	
BP	0072 establishment of protein localization to vacuole	1/292	233	711	763	1
	666		28	599	299	
	GO:		121	0.44	0.21	
BP	0072 monocarboxylic acid catabolic process	2/292	/23	855	826	2
	329		328	761	992	
	GO:		197	0.44	0.21	
BP	0050 regulation of dendrite development	3/292	/23	866	826	3
	773		328	111	992	
	GO:		48/	0.45	0.22	
BP	0003 epithelial cell morphogenesis	1/292	233	405	060	1
	382		28	049	101	
	GO:		48/	0.45	0.22	
BP	0007 binding of sperm to zona pellucida	1/292	233	405	060	1
	339		28	049	101	
	GO:		48/	0.45	0.22	
BP	0031 negative regulation of microtubule polymerization or depolymerization	1/292	233	405	060	1
	111		28	049	101	
	GO:		48/	0.45	0.22	
BP	0070 platelet aggregation	1/292	233	405	060	1
	527		28	049	101	
	GO:		48/	0.45	0.22	
BP	0090 regulation of DNA-dependent DNA replication	1/292	233	405	060	1
	329		28	049	101	
	GO:		200	0.45	0.22	
BP	0071 potassium ion transmembrane transport	3/292	/23	842	266	3
	805		328	371	712	
	GO:		49/	0.46	0.22	
BP	0007 heterophilic cell-cell adhesion via plasma membrane cell adhesion molecules	1/292	233	089	360	1
	157		28	831	7	
	GO:		49/	0.46	0.22	
BP	0014 striated muscle adaptation	1/292	233	089	360	1
	888		28	831	7	

	GO:		49/	0.46	0.22		
BP	0034 lipid translocation	1/292	233	089	360	1	
	204		28	831	7		
	GO:		49/	0.46	0.22		
BP	1902 positive regulation of cell cycle G1/S phase transition	1/292	233	089	360	1	
	808		28	831	7		
	GO:		124	0.46	0.22		
BP	1903 positive regulation of proteolysis involved in cellular protein catabolic process	2/292	/23	108	360	2	
	052		328	58	7		
	GO:		124	0.46	0.22		
BP	1905 carboxylic acid transmembrane transport	2/292	/23	108	360	2	
	039		328	58	7		
	GO:		201	0.46	0.22		
BP	0044 cell cycle G1/S phase transition	3/292	/23	166	376	3	
	843		328	175	869		
	GO:		201	0.46	0.22		
BP	0070 regulation of microtubule cytoskeleton organization	3/292	/23	166	376	3	
	507		328	175	869		
	GO:		279	0.46	0.22		
BP	0016 gene silencing	4/292	/23	299	435	4	
	458		328	778	734		
	GO:		125	0.46	0.22		
BP	1903 organic acid transmembrane transport	2/292	/23	522	537	2	
	825		328	497	739		
	GO:		50/	0.46	0.22		
BP	0002 negative regulation of myeloid leukocyte differentiation	1/292	233	766	620	1	
	762		28	053	098		
	GO:		50/	0.46	0.22		
BP	0007 male meiotic nuclear division	1/292	233	766	620	1	
	140		28	053	098		
	GO:		50/	0.46	0.22		
BP	0043 negative regulation of DNA binding	1/292	233	766	620	1	
	392		28	053	098		
	GO:		50/	0.46	0.22		
BP	0046 purine ribonucleoside metabolic process	1/292	233	766	620	1	
	128		28	053	098		
	GO:		50/	0.46	0.22		
BP	0051 spindle localization	1/292	233	766	620	1	
	653		28	053	098		
	GO:		50/	0.46	0.22		
BP	1903 negative regulation of response to endoplasmic reticulum stress	1/292	233	766	620	1	
	573		28	053	098		

	GO:		126	0.46	0.22	
BP	0030	actin filament-based movement	2/292	/23	934	695 2
	048			328	536	642
	GO:			51/	0.47	0.22
BP	0001	positive regulation of T cell mediated	1/292	233	433	865 1
	916	cytotoxicity		28	821	173
	GO:			51/	0.47	0.22
BP	0002	antigen processing and presentation of	1/292	233	433	865 1
	474	peptide antigen via MHC class I		28	821	173
	GO:			51/	0.47	0.22
BP	0031	protein destabilization	1/292	233	433	865 1
	648			28	821	173
	GO:			51/	0.47	0.22
BP	0035	establishment or maintenance of apical/basal	1/292	233	433	865 1
	088	cell polarity		28	821	173
	GO:			51/	0.47	0.22
BP	0046	phosphatidylcholine metabolic process	1/292	233	433	865 1
	470			28	821	173
	GO:			51/	0.47	0.22
BP	0051	regulation of filopodium assembly	1/292	233	433	865 1
	489			28	821	173
	GO:			51/	0.47	0.22
BP	0061	establishment or maintenance of bipolar cell	1/292	233	433	865 1
	245	polarity		28	821	173
	GO:			51/	0.47	0.22
BP	0071	cellular response to osmotic stress	1/292	233	433	865 1
	470			28	821	173
	GO:			51/	0.47	0.22
BP	0072	pyrimidine-containing compound metabolic	1/292	233	433	865 1
	527	process		28	821	173
	GO:			51/	0.47	0.22
BP	0090	regulation of protein deacetylation	1/292	233	433	865 1
	311			28	821	173
	GO:			51/	0.47	0.22
BP	0098	detoxification	1/292	233	433	865 1
	754			28	821	173
	GO:			51/	0.47	0.22
BP	2000	regulation of DNA-templated transcription,	1/292	233	433	865 1
	142	initiation		28	821	173
	GO:			52/	0.48	0.23
BP	0030	negative regulation of epithelial cell	1/292	233	093	170 1
	857	differentiation		28	242	936

	GO:		52/	0.48	0.23	
BP	0065	intracellular protein transmembrane	1/292	233	093	170
	002	transport		28	242	936
	GO:		130	0.48	0.23	
BP	0008	cholesterol metabolic process	2/292	/23	563	385
	203			328	575	328
	GO:		130	0.48	0.23	
BP	0090	nucleic acid phosphodiester bond hydrolysis	2/292	/23	563	385
	305			328	575	328
	GO:		53/	0.48	0.23	
BP	0001	behavioral fear response	1/292	233	744	435
	662			28	418	716
	GO:		53/	0.48	0.23	
BP	0030	negative regulation of BMP signaling	1/292	233	744	435
	514	pathway		28	418	716
	GO:		53/	0.48	0.23	
BP	0034	cellular response to heat	1/292	233	744	435
	605			28	418	716
	GO:		53/	0.48	0.23	
BP	0043	regulation of phosphoprotein phosphatase	1/292	233	744	435
	666	activity		28	418	716
	GO:		53/	0.48	0.23	
BP	0045	negative regulation of mitotic nuclear	1/292	233	744	435
	839	division		28	418	716
	GO:		53/	0.48	0.23	
BP	0046	pigment biosynthetic process	1/292	233	744	435
	148			28	418	716
	GO:		131	0.48	0.23	
BP	0032	regulation of proteasomal ubiquitin-	2/292	/23	965	536
	434	dependent protein catabolic process		328	975	106
	GO:		132	0.49	0.23	
BP	0099	regulation of postsynapse organization	2/292	/23	366	689
	175			328	401	328
	GO:		54/	0.49	0.23	
BP	0002	behavioral defense response	1/292	233	387	689
	209			28	452	328
	GO:		54/	0.49	0.23	
BP	0007	microtubule depolymerization	1/292	233	387	689
	019			28	452	328
	GO:		54/	0.49	0.23	
BP	0010	negative regulation of mitochondrion	1/292	233	387	689
	823	organization		28	452	328

	GO:		54/	0.49	0.23	
BP	0014 negative regulation of gliogenesis	1/292	233	387	689	1
	014		28	452	328	
	GO:		54/	0.49	0.23	
BP	0042 purine nucleoside metabolic process	1/292	233	387	689	1
	278		28	452	328	
	GO:		54/	0.49	0.23	
BP	0071 protein transmembrane transport	1/292	233	387	689	1
	806		28	452	328	
	GO:		54/	0.49	0.23	
BP	1900 regulation of long-term synaptic	1/292	233	387	689	1
	271 potentiation		28	452	328	
	GO:		55/	0.50	0.23	
BP	0006 ATP biosynthetic process	1/292	233	022	944	1
	754		28	447	119	
	GO:		55/	0.50	0.23	
BP	0009 anterior/posterior axis specification	1/292	233	022	944	1
	948		28	447	119	
	GO:		55/	0.50	0.23	
BP	0031 ruffle organization	1/292	233	022	944	1
	529		28	447	119	
	GO:		55/	0.50	0.23	
BP	0035 sperm-egg recognition	1/292	233	022	944	1
	036		28	447	119	
	GO:		55/	0.50	0.23	
BP	0046 negative regulation of Ras protein signal	1/292	233	022	944	1
	580 transduction		28	447	119	
	GO:		55/	0.50	0.23	
BP	0050 multicellular organismal water homeostasis	1/292	233	022	944	1
	891		28	447	119	
	GO:		55/	0.50	0.23	
BP	0086 cardiac muscle cell action potential	1/292	233	022	944	1
	001		28	447	119	
	GO:		55/	0.50	0.23	
BP	0097 regulation of membrane lipid distribution	1/292	233	022	944	1
	035		28	447	119	
	GO:		56/	0.50	0.24	
BP	0009 ribonucleoside metabolic process	1/292	233	649	194	1
	119		28	502	061	
	GO:		56/	0.50	0.24	
BP	0015 dopamine transport	1/292	233	649	194	1
	872		28	502	061	

	GO:		56/	0.50	0.24	
BP	0030 collagen fibril organization	1/292	233	649	194	1
	199		28	502	061	
	GO:		56/	0.50	0.24	
BP	0030 megakaryocyte differentiation	1/292	233	649	194	1
	219		28	502	061	
	GO:		56/	0.50	0.24	
BP	0042 hormone biosynthetic process	1/292	233	649	194	1
	446		28	502	061	
	GO:		56/	0.50	0.24	
BP	0045 negative regulation of lymphocyte differentiation	1/292	233	649	194	1
	620		28	502	061	
	GO:		56/	0.50	0.24	
BP	0048 thymus development	1/292	233	649	194	1
	538		28	502	061	
	GO:		56/	0.50	0.24	
BP	1903 regulation of protein targeting	1/292	233	649	194	1
	533		28	502	061	
	GO:		376	0.50	0.24	
BP	0044 mitotic cell cycle phase transition	5/292	/23	845	281	5
	772		328	366	336	
	GO:		217	0.51	0.24	
BP	0006 mRNA catabolic process	3/292	/23	224	445	3
	402		328	872	548	
	GO:		57/	0.51	0.24	
BP	0019 secondary metabolic process	1/292	233	268	445	1
	748		28	715	548	
	GO:		57/	0.51	0.24	
BP	0035 non-canonical Wnt signaling pathway	1/292	233	268	445	1
	567		28	715	548	
	GO:		57/	0.51	0.24	
BP	0042 mitochondrial ATP synthesis coupled electron transport	1/292	233	268	445	1
	775		28	715	548	
	GO:		57/	0.51	0.24	
BP	0050 multicellular organismal movement	1/292	233	268	445	1
	879		28	715	548	
	GO:		57/	0.51	0.24	
BP	0050 musculoskeletal movement	1/292	233	268	445	1
	881		28	715	548	
	GO:		58/	0.51	0.24	
BP	0001 establishment of planar polarity	1/292	233	880	698	1
	736		28	186	812	

	GO:		58/	0.51	0.24	
BP	0006 protein O-linked glycosylation	1/292	233	880	698	1
	493		28	186	812	
	GO:		58/	0.51	0.24	
BP	0010 negative regulation of muscle cell apoptotic process	1/292	233	880	698	1
	656		28	186	812	
	GO:		58/	0.51	0.24	
BP	0035 somatic stem cell population maintenance	1/292	233	880	698	1
	019		28	186	812	
	GO:		58/	0.51	0.24	
BP	0042 fear response	1/292	233	880	698	1
	596		28	186	812	
	GO:		58/	0.51	0.24	
BP	0099 presynapse organization	1/292	233	880	698	1
	172		28	186	812	
	GO:		139	0.52	0.24	
BP	0016 sterol metabolic process	2/292	/23	113	803	2
	125		328	034	266	
	GO:		382	0.52	0.24	
BP	0051 establishment of organelle localization	5/292	/23	244	859	5
	656		328	401	378	
	GO:		60/	0.53	0.25	
BP	1901 organic hydroxy compound catabolic process	1/292	233	080	250	1
	616		28	283	603	
	GO:		306	0.53	0.25	
BP	0016 dendrite development	4/292	/23	485	436	4
	358		328	18	658	
	GO:		143	0.53	0.25	
BP	0035 sodium ion transmembrane transport	2/292	/23	637	497	2
	725		328	315	84	
	GO:		61/	0.53	0.25	
BP	0006 regulation of translational initiation	1/292	233	669	497	1
	446		28	098	84	
	GO:		61/	0.53	0.25	
BP	0042 ATP synthesis coupled electron transport	1/292	233	669	497	1
	773		28	098	84	
	GO:		61/	0.53	0.25	
BP	1902 regulation of cilium assembly	1/292	233	669	497	1
	017		28	098	84	
	GO:		144	0.54	0.25	
BP	0043 cellular protein complex disassembly	2/292	/23	013	654	2
	624		328	156	694	

	GO:		62/	0.54	0.25	
BP	0006 cellular aldehyde metabolic process	1/292	233	250	690	1
	081		28	549	868	
	GO:		62/	0.54	0.25	
BP	0015 organic cation transport	1/292	233	250	690	1
	695		28	549	868	
	GO:		62/	0.54	0.25	
BP	0019 viral gene expression	1/292	233	250	690	1
	080		28	549	868	
	GO:		62/	0.54	0.25	
BP	0030 cortical cytoskeleton organization	1/292	233	250	690	1
	865		28	549	868	
	GO:		62/	0.54	0.25	
BP	0032 glomerulus development	1/292	233	250	690	1
	835		28	549	868	
	GO:		62/	0.54	0.25	
BP	0043 histone H3 acetylation	1/292	233	250	690	1
	966		28	549	868	
	GO:		62/	0.54	0.25	
BP	0046 ceramide biosynthetic process	1/292	233	250	690	1
	513		28	549	868	
	GO:		62/	0.54	0.25	
BP	0051 negative regulation of small GTPase mediated signal transduction	1/292	233	250	690	1
	058		28	549	868	
	GO:		62/	0.54	0.25	
BP	0061 cardiac conduction	1/292	233	250	690	1
	337		28	549	868	
	GO:		62/	0.54	0.25	
BP	0072 protein localization to vacuole	1/292	233	250	690	1
	665		28	549	868	
	GO:		62/	0.54	0.25	
BP	1903 positive regulation of protein localization to plasma membrane	1/292	233	250	690	1
	078		28	549	868	
	GO:		227	0.54	0.25	
BP	0007 spermatid development	3/292	/23	256	690	3
	286		328	386	868	
	GO:		146	0.54	0.25	
BP	0016 histone acetylation	2/292	/23	758	921	2
	573		328	516	978	
	GO:		63/	0.54	0.25	
BP	0070 protein K48-linked ubiquitination	1/292	233	824	940	1
	936		28	728	013	

	GO:		63/	0.54	0.25	
BP	0071 cellular response to mechanical stimulus	1/292	233	824	940	1
	260		28	728	013	
	GO:		64/	0.55	0.26	
BP	0009 glutamine family amino acid metabolic process	1/292	233	391	201	1
	064		28	725	566	
	GO:		231	0.55	0.26	
BP	0009 anterior/posterior pattern specification	3/292	/23	438	216	3
	952		328	286	87	
	GO:		65/	0.55	0.26	
BP	0009 purine ribonucleoside triphosphate biosynthetic process	1/292	233	951	439	1
	206		28	629	303	
	GO:		65/	0.55	0.26	
BP	0045 cell redox homeostasis	1/292	233	951	439	1
	454		28	629	303	
	GO:		65/	0.55	0.26	
BP	0090 cellular senescence	1/292	233	951	439	1
	398		28	629	303	
	GO:		150	0.56	0.26	
BP	0001 blastocyst development	2/292	/23	223	561	2
	824		328	778	102	
	GO:		66/	0.56	0.26	
BP	0009 purine nucleoside triphosphate biosynthetic process	1/292	233	504	673	1
	145		28	53	248	
	GO:		66/	0.56	0.26	
BP	0070 protein localization to endoplasmic reticulum	1/292	233	504	673	1
	972		28	53	248	
	GO:		66/	0.56	0.26	
BP	0097 regulation of plasma lipoprotein particle levels	1/292	233	504	673	1
	006		28	53	248	
	GO:		236	0.56	0.26	
BP	0048 spermatid differentiation	3/292	/23	889	848	3
	515		328	918	304	
	GO:		152	0.56	0.26	
BP	0006 internal protein amino acid acetylation	2/292	/23	943	859	2
	475		328	606	902	
	GO:		152	0.56	0.26	
BP	0018 internal peptidyl-lysine acetylation	2/292	/23	943	859	2
	393		328	606	902	
	GO:		67/	0.57	0.26	
BP	0046 filopodium assembly	1/292	233	050	896	1
	847		28	514	579	

	GO:		67/	0.57	0.26	
BP	0070 regulation of protein processing	1/292	233	050	896	1
	613		28	514	579	
	GO:		237	0.57	0.26	
BP	0000 protein polyubiquitination	3/292	/23	176	949	3
	209		328	747	207	
	GO:		68/	0.57	0.27	
BP	0009 ribonucleoside triphosphate biosynthetic process	1/292	233	589	102	1
	201		28	667	293	
	GO:		68/	0.57	0.27	
BP	0030 endoplasmic reticulum unfolded protein response	1/292	233	589	102	1
	968		28	667	293	
	GO:		68/	0.57	0.27	
BP	0032 negative regulation of ion transmembrane transporter activity	1/292	233	589	102	1
	413		28	667	293	
	GO:		68/	0.57	0.27	
BP	0032 maintenance of protein location in cell	1/292	233	589	102	1
	507		28	667	293	
	GO:		68/	0.57	0.27	
BP	2000 negative regulation of reactive oxygen species metabolic process	1/292	233	589	102	1
	378		28	667	293	
	GO:		68/	0.57	0.27	
BP	2001 positive regulation of intrinsic apoptotic signaling pathway	1/292	233	589	102	1
	244		28	667	293	
	GO:		69/	0.58	0.27	
BP	0045 positive regulation of fat cell differentiation	1/292	233	122	338	1
	600		28	075	905	
	GO:		69/	0.58	0.27	
BP	1904 positive regulation of protein localization to cell periphery	1/292	233	122	338	1
	377		28	075	905	
	GO:		156	0.58	0.27	
BP	0009 cellular response to starvation	2/292	/23	357	442	2
	267		328	521	657	
	GO:		70/	0.58	0.27	
BP	0006 transcription initiation from RNA polymerase II promoter	1/292	233	647	530	1
	367		28	823	06	
	GO:		70/	0.58	0.27	
BP	0019 arachidonic acid metabolic process	1/292	233	647	530	1
	369		28	823	06	
	GO:		70/	0.58	0.27	
BP	0030 negative regulation of transforming growth factor beta receptor signaling pathway	1/292	233	647	530	1
	512		28	823	06	

	GO:		70/	0.58	0.27	
BP	0048 synaptic vesicle endocytosis	1/292	233	647	530	1
	488		28	823	06	
	GO:		70/	0.58	0.27	
BP	0050 neuromuscular process controlling balance	1/292	233	647	530	1
	885		28	823	06	
	GO:		70/	0.58	0.27	
BP	0140 presynaptic endocytosis	1/292	233	647	530	1
	238		28	823	06	
	GO:		70/	0.58	0.27	
BP	1903 regulation of protein maturation	1/292	233	647	530	1
	317		28	823	06	
	GO:		244	0.59	0.27	
BP	0006 DNA replication	3/292	/23	151	745	3
	260		328	239	532	
	GO:		71/	0.59	0.27	
BP	0042 embryonic digit morphogenesis	1/292	233	166	745	1
	733		28	992	532	
	GO:		71/	0.59	0.27	
BP	0043 receptor clustering	1/292	233	166	745	1
	113		28	992	532	
	GO:		71/	0.59	0.27	
BP	1901 regulation of signal transduction by p53 class mediator	1/292	233	166	745	1
	796		28	992	532	
	GO:		159	0.59	0.27	
BP	2000 regulation of ubiquitin-dependent protein catabolic process	2/292	/23	395	845	2
	058		328	37	551	
	GO:		415	0.59	0.27	
BP	0044 cell cycle phase transition	5/292	/23	603	935	5
	770		328	131	855	
	GO:		72/	0.59	0.27	
BP	1903 negative regulation of cellular response to transforming growth factor beta stimulus	1/292	233	679	964	1
	845		28	665	623	
	GO:		160	0.59	0.27	
BP	0000 cytokinesis	2/292	/23	737	984	2
	910		328	012	389	
	GO:		161	0.60	0.28	
BP	0030 negative regulation of Wnt signaling pathway	2/292	/23	076	136	2
	178		328	498	281	
	GO:		73/	0.60	0.28	
BP	0045 positive regulation of DNA repair	1/292	233	185	180	1
	739		28	923	377	

	GO:		249	0.60	0.28	
BP	0034 response to endoplasmic reticulum stress	3/292	/23	525	332	3
	976		328	282	083	
	GO:		163	0.60	0.28	
BP	0018 peptidyl-lysine acetylation	2/292	/23	749	415	2
	394		328	009	186	
	GO:		163	0.60	0.28	
BP	0031 regulation of histone modification	2/292	/23	749	415	2
	056		328	009	186	
	GO:		163	0.60	0.28	
BP	1902 negative regulation of supramolecular fiber organization	2/292	/23	749	415	2
	904		328	009	186	
	GO:		250	0.60	0.28	
BP	0006 cellular amino acid metabolic process	3/292	/23	796	430	3
	520		328	407	149	
	GO:		75/	0.61	0.28	
BP	0043 response to alkaloid	1/292	233	179	602	1
	279		28	513	053	
	GO:		76/	0.61	0.28	
BP	0000 regulation of cyclin-dependent protein serine/threonine kinase activity	1/292	233	667	815	1
	079		28	002	358	
	GO:		76/	0.61	0.28	
BP	0051 protein autoubiquitination	1/292	233	667	815	1
	865		28	002	358	
	GO:		77/	0.62	0.29	
BP	0003 neural retina development	1/292	233	148	018	1
	407		28	39	253	
	GO:		77/	0.62	0.29	
BP	0016 histone deacetylation	1/292	233	148	018	1
	575		28	39	253	
	GO:		77/	0.62	0.29	
BP	0030 ubiquitin-dependent ERAD pathway	1/292	233	148	018	1
	433		28	39	253	
	GO:		78/	0.62	0.29	
BP	0009 nucleoside triphosphate biosynthetic process	1/292	233	623	225	1
	142		28	753	419	
	GO:		78/	0.62	0.29	
BP	0046 microtubule polymerization	1/292	233	623	225	1
	785		28	753	419	
	GO:		79/	0.63	0.29	
BP	0009 purine ribonucleoside triphosphate metabolic process	1/292	233	093	437	1
	205		28	167	041	

	GO:		171	0.63	0.29		
BP	0051	negative regulation of cytoskeleton organization	2/292	/23	353	550	2
	494			328	068	83	
	GO:		80/	0.63	0.29		
BP	0036	synaptic vesicle recycling	1/292	233	556	623	1
	465			28	705	351	
	GO:		80/	0.63	0.29		
BP	1901	negative regulation of protein depolymerization	1/292	233	556	623	1
	880			28	705	351	
	GO:		80/	0.63	0.29		
BP	1904	regulation of cyclin-dependent protein kinase activity	1/292	233	556	623	1
	029			28	705	351	
	GO:		173	0.63	0.29		
BP	0071	cellular response to amino acid stimulus	2/292	/23	982	814	2
	230			328	676	106	
	GO:		81/	0.64	0.29		
BP	0010	regulation of G2/M transition of mitotic cell cycle	1/292	233	014	814	1
	389			28	441	106	
	GO:		81/	0.64	0.29		
BP	0022	respiratory electron transport chain	1/292	233	014	814	1
	904			28	441	106	
	GO:		174	0.64	0.29		
BP	0007	vacuole organization	2/292	/23	294	936	2
	033			328	285	885	
	GO:		82/	0.64	0.30		
BP	0015	phospholipid transport	1/292	233	466	009	1
	914			28	447	475	
	GO:		265	0.64	0.30		
BP	1901	regulation of mitotic cell cycle phase transition	3/292	/23	713	116	3
	990			328	469	868	
	GO:		83/	0.64	0.30		
BP	0006	acyl-CoA metabolic process	1/292	233	912	179	1
	637			28	794	186	
	GO:		83/	0.64	0.30		
BP	0009	ribonucleoside triphosphate metabolic process	1/292	233	912	179	1
	199			28	794	186	
	GO:		83/	0.64	0.30		
BP	0035	thioester metabolic process	1/292	233	912	179	1
	383			28	794	186	
	GO:		83/	0.64	0.30		
BP	0061	regulation of insulin secretion involved in cellular response to glucose stimulus	1/292	233	912	179	1
	178			28	794	186	

	GO:		266	0.64	0.30	
BP	1903 regulation of mRNA metabolic process	3/292	/23	964	195	3
	311		328	526	629	
	GO:		84/	0.65	0.30	
BP	0022 electron transport chain	1/292	233	353	345	1
	900		28	554	875	
	GO:		84/	0.65	0.30	
BP	0030 sphingolipid biosynthetic process	1/292	233	353	345	1
	148		28	554	875	
	GO:		84/	0.65	0.30	
BP	0046 photoreceptor cell differentiation	1/292	233	353	345	1
	530		28	554	875	
	GO:		84/	0.65	0.30	
BP	0061 myeloid cell development	1/292	233	353	345	1
	515		28	554	875	
	GO:		178	0.65	0.30	
BP	0042 response to starvation	2/292	/23	519	415	2
	594		328	525	287	
	GO:		179	0.65	0.30	
BP	0007 spindle organization	2/292	/23	820	547	2
	051		328	557	346	
	GO:		86/	0.66	0.30	
BP	1905 regulation of response to endoplasmic reticulum stress	1/292	233	218	724	1
	897		28	589	346	
	GO:		181	0.66	0.30	
BP	0002 humoral immune response mediated by circulating immunoglobulin	2/292	/23	416	808	2
	455		328	324	345	
	GO:		274	0.66	0.31	
BP	0007 sensory perception of sound	3/292	/23	927	037	3
	605		328	286	561	
	GO:		88/	0.67	0.31	
BP	0009 purine nucleoside triphosphate metabolic process	1/292	233	062	074	1
	144		28	098	694	
	GO:		88/	0.67	0.31	
BP	0032 response to retinoic acid	1/292	233	062	074	1
	526		28	098	694	
	GO:		88/	0.67	0.31	
BP	0034 protein localization to chromosome	1/292	233	062	074	1
	502		28	098	694	
	GO:		364	0.67	0.31	
BP	0018 peptidyl-lysine modification	4/292	/23	074	074	4
	205		328	718	694	

	GO:		90/	0.67	0.31	
BP	0006 ceramide metabolic process	1/292	233	884	426	1
	672		28	615	237	
	GO:		90/	0.67	0.31	
BP	0009 detection of chemical stimulus	1/292	233	884	426	1
	593		28	615	237	
	GO:		90/	0.67	0.31	
BP	0032 positive regulation of insulin secretion	1/292	233	884	426	1
	024		28	615	237	
	GO:		187	0.68	0.31	
BP	0043 response to amino acid	2/292	/23	153	542	2
	200		328	638	864	
	GO:		91/	0.68	0.31	
BP	0031 regulation of microtubule polymerization or depolymerization	1/292	233	288	597	1
	110		28	165	2	
	GO:		92/	0.68	0.31	
BP	0035 insulin secretion involved in cellular response to glucose stimulus	1/292	233	686	773	1
	773		28	661	619	
	GO:		189	0.68	0.31	
BP	0061 regulation of proteasomal protein catabolic process	2/292	/23	716	779	2
	136		328	243	336	
	GO:		374	0.69	0.31	
BP	0016 dephosphorylation	4/292	/23	120	958	4
	311		328	644	351	
	GO:		94/	0.69	0.32	
BP	1901 regulation of protein depolymerization	1/292	233	468	111	1
	879		28	744	251	
	GO:		192	0.69	0.32	
BP	0006 protein acetylation	2/292	/23	544	130	2
	473		328	865	34	
	GO:		192	0.69	0.32	
BP	2001 positive regulation of chromosome organization	2/292	/23	544	130	2
	252		328	865	34	
	GO:		95/	0.69	0.32	
BP	1902 proton transmembrane transport	1/292	233	852	264	1
	600		28	454	37	
	GO:		97/	0.70	0.32	
BP	1902 regulation of cell cycle G2/M phase transition	1/292	233	605	604	1
	749		28	517	044	
	GO:		197	0.70	0.32	
BP	0006 phagocytosis, engulfment	2/292	/23	885	725	2
	911		328	618	199	

	GO:		98/	0.70	0.32	
BP	0140 exocytic process	1/292	233	974	750	1
	029		28	988	07	
	GO:		98/	0.70	0.32	
BP	1903 organelle disassembly	1/292	233	974	750	1
	008		28	988	07	
	GO:		99/	0.71	0.32	
BP	0033 nucleoside bisphosphate metabolic process	1/292	233	339	877	1
	865		28	831	313	
	GO:		99/	0.71	0.32	
BP	0033 ribonucleoside bisphosphate metabolic process	1/292	233	339	877	1
	875		28	831	313	
	GO:		99/	0.71	0.32	
BP	0034 purine nucleoside bisphosphate metabolic process	1/292	233	339	877	1
	032		28	831	313	
	GO:		99/	0.71	0.32	
BP	0036 ERAD pathway	1/292	233	339	877	1
	503		28	831	313	
	GO:		99/	0.71	0.32	
BP	0097 dendritic spine organization	1/292	233	339	877	1
	061		28	831	313	
	GO:		100	0.71	0.33	
BP	0006 protein deacetylation	1/292	/23	700	010	1
	476		328	103	369	
	GO:		100	0.71	0.33	
BP	0032 regulation of TOR signaling	1/292	/23	700	010	1
	006		328	103	369	
	GO:		100	0.71	0.33	
BP	0098 inorganic cation import across plasma membrane	1/292	/23	700	010	1
	659		328	103	369	
	GO:		100	0.71	0.33	
BP	0099 inorganic ion import across plasma membrane	1/292	/23	700	010	1
	587		328	103	369	
	GO:		201	0.71	0.33	
BP	0009 fertilization	2/292	/23	922	104	2
	566		328	518	508	
	GO:		101	0.72	0.33	
BP	0006 DNA-templated transcription, initiation	1/292	/23	055	149	1
	352		328	862	346	
	GO:		101	0.72	0.33	
BP	0007 lysosomal transport	1/292	/23	055	149	1
	041		328	862	346	

	GO:		297	0.72	0.33	
BP	1901 regulation of cell cycle phase transition	3/292	/23	118	170	3
	987		328	763	014	
	GO:		204	0.72	0.33	
BP	0009 nucleotide biosynthetic process	2/292	/23	679	419	2
	165		328	708	683	
	GO:		103	0.72	0.33	
BP	0006 chloride transport	1/292	/23	754	428	1
	821		328	065	883	
	GO:		103	0.72	0.33	
BP	0015 organophosphate ester transport	1/292	/23	754	428	1
	748		328	065	883	
	GO:		103	0.72	0.33	
BP	2000 regulation of synaptic vesicle exocytosis	1/292	/23	754	428	1
	300		328	065	883	
	GO:		104	0.73	0.33	
BP	0006 translational initiation	1/292	/23	096	577	1
	413		328	619	918	
	GO:		206	0.73	0.33	
BP	0099 plasma membrane invagination	2/292	/23	174	605	2
	024		328	874	5	
	GO:		106	0.73	0.33	
BP	0021 spinal cord development	1/292	/23	768	861	1
	510		328	903	453	
	GO:		106	0.73	0.33	
BP	0106 neuron projection organization	1/292	/23	768	861	1
	027		328	903	453	
	GO:		209	0.73	0.33	
BP	1901 nucleoside phosphate biosynthetic process	2/292	/23	903	914	2
	293		328	355	732	
	GO:		210	0.74	0.34	
BP	1902 regulation of chromatin organization	2/292	/23	142	015	2
	275		328	413	978	
	GO:		109	0.74	0.34	
BP	0009 nucleoside triphosphate metabolic process	1/292	/23	746	275	1
	141		328	066	885	
	GO:		109	0.74	0.34	
BP	0051 localization within membrane	1/292	/23	746	275	1
	668		328	066	885	
	GO:		213	0.74	0.34	
BP	0010 membrane invagination	2/292	/23	848	314	2
	324		328	408	288	

	GO:			311	0.74	0.34	
BP	1990	cellular response to leukemia inhibitory factor	3/292	/23	956	355	3
	830			328	406	265	
	GO:			110	0.75	0.34	
BP	0007	homophilic cell adhesion via plasma membrane adhesion molecules	1/292	/23	063	387	1
	156			328	657	339	
	GO:			110	0.75	0.34	
BP	0120	positive regulation of plasma membrane bounded cell projection assembly	1/292	/23	063	387	1
	034			328	657	339	
	GO:			312	0.75	0.34	
BP	1990	response to leukemia inhibitory factor	3/292	/23	149	418	3
	823			328	99	344	
	GO:			111	0.75	0.34	
BP	0001	long-chain fatty acid metabolic process	1/292	/23	377	496	1
	676			328	268	75	
	GO:			111	0.75	0.34	
BP	0035	protein deacylation	1/292	/23	377	496	1
	601			328	268	75	
	GO:			111	0.75	0.34	
BP	0098	macromolecule deacylation	1/292	/23	377	496	1
	732			328	268	75	
	GO:			219	0.76	0.34	
BP	0044	cellular lipid catabolic process	2/292	/23	210	869	2
	242			328	927	629	
	GO:			115	0.76	0.35	
BP	0016	protein deubiquitination	1/292	/23	592	035	1
	579			328	891	706	
	GO:			221	0.76	0.35	
BP	0098	anion transmembrane transport	2/292	/23	650	044	2
	656			328	719	784	
	GO:			221	0.76	0.35	
BP	1903	regulation of proteolysis involved in cellular protein catabolic process	2/292	/23	650	044	2
	050			328	719	784	
	GO:			116	0.76	0.35	
BP	2000	regulation of G1/S transition of mitotic cell cycle	1/292	/23	887	144	1
	045			328	332	256	
	GO:			223	0.77	0.35	
BP	0051	protein complex oligomerization	2/292	/23	083	225	2
	259			328	448	173	
	GO:			117	0.77	0.35	
BP	0000	G2/M transition of mitotic cell cycle	1/292	/23	178	250	1
	086			328	083	959	

	GO:		117	0.77	0.35	
BP	0007 meiosis I	1/292	/23	178	250	1
	127		328	083	959	
	GO:		121	0.78	0.35	
BP	0046 membrane lipid biosynthetic process	1/292	/23	305	756	1
	467		328	085	864	
	GO:		122	0.78	0.35	
BP	0031 microtubule polymerization or depolymerization	1/292	/23	578	854	1
	109		328	06	896	
	GO:		122	0.78	0.35	
BP	0031 TOR signaling	1/292	/23	578	854	1
	929		328	06	896	
	GO:		122	0.78	0.35	
BP	0061 meiosis I cell cycle process	1/292	/23	578	854	1
	982		328	06	896	
	GO:		231	0.78	0.35	
BP	0099 synaptic vesicle cycle	2/292	/23	745	922	2
	504		328	304	326	
	GO:		123	0.78	0.35	
BP	0000 telomere maintenance	1/292	/23	847	951	1
	723		328	611	221	
	GO:		123	0.78	0.35	
BP	0051 protein depolymerization	1/292	/23	847	951	1
	261		328	611	221	
	GO:		233	0.79	0.36	
BP	0090 establishment of protein localization to membrane	2/292	/23	143	077	2
	150		328	896	4	
	GO:		125	0.79	0.36	
BP	0010 response to ionizing radiation	1/292	/23	376	156	1
	212		328	615	688	
	GO:		125	0.79	0.36	
BP	0032 telomere organization	1/292	/23	376	156	1
	200		328	615	688	
	GO:		125	0.79	0.36	
BP	1902 protein localization to cell junction	1/292	/23	376	156	1
	414		328	615	688	
	GO:		235	0.79	0.36	
BP	0006 protein dephosphorylation	2/292	/23	535	220	2
	470		328	899	302	
	GO:		126	0.79	0.36	
BP	0051 negative regulation of DNA metabolic process	1/292	/23	636	248	1
	053		328	152	065	

	GO:		126	0.79	0.36	
BP	0120 olefinic compound metabolic process	1/292	/23	636	248	1
	254		328	152	065	
	GO:		127	0.79	0.36	
BP	0006 protein export from nucleus	1/292	/23	892	337	1
	611		328	433	827	
	GO:		127	0.79	0.36	
BP	0042 lipoprotein metabolic process	1/292	/23	892	337	1
	157		328	433	827	
	GO:		127	0.79	0.36	
BP	0090 negative regulation of canonical Wnt signaling pathway	1/292	/23	892	337	1
	090		328	433	827	
	GO:		237	0.79	0.36	
BP	0043 protein acylation	2/292	/23	921	342	2
	543		328	393	041	
	GO:		128	0.80	0.36	
BP	0006 regulation of DNA repair	1/292	/23	145	434	1
	282		328	5	969	
	GO:		131	0.80	0.36	
BP	0006 sphingolipid metabolic process	1/292	/23	885	753	1
	665		328	814	414	
	GO:		131	0.80	0.36	
BP	0007 mitotic cell cycle checkpoint	1/292	/23	885	753	1
	093		328	814	414	
	GO:		132	0.81	0.36	
BP	0006 DNA-dependent DNA replication	1/292	/23	126	853	1
	261		328	42	667	
	GO:		134	0.81	0.37	
BP	0044 cell cycle G2/M phase transition	1/292	/23	598	049	1
	839		328	615	931	
	GO:		134	0.81	0.37	
BP	1902 regulation of cell cycle G1/S phase transition	1/292	/23	598	049	1
	806		328	615	931	
	GO:		135	0.81	0.37	
BP	0070 protein modification by small protein removal	1/292	/23	830	145	1
	646		328	279	977	
	GO:		248	0.81	0.37	
BP	0060 long-term synaptic potentiation	2/292	/23	928	181	2
	291		328	817	561	
	GO:		140	0.82	0.37	
BP	0007 vacuolar transport	1/292	/23	945	633	1
	034		328	717	803	

	GO:		141	0.83	0.37	
BP	0009 purine ribonucleotide biosynthetic process	1/292	/23	160	712	1
	152		328	477	697	
	GO:		141	0.83	0.37	
BP	0016 synaptic vesicle exocytosis	1/292	/23	160	712	1
	079		328	477	697	
	GO:		143	0.83	0.37	
BP	0034 chromatin organization involved in regulation of transcription	1/292	/23	581	894	1
	401		328	944	516	
	GO:		260	0.83	0.38	
BP	0099 vesicle-mediated transport in synapse	2/292	/23	912	035	2
	003		328	503	04	
	GO:		146	0.84	0.38	
BP	0051 nuclear export	1/292	/23	194	144	1
	168		328	515	129	
	GO:		146	0.84	0.38	
BP	0098 regulation of synaptic vesicle cycle	1/292	/23	194	144	1
	693		328	515	129	
	GO:		470	0.84	0.38	
BP	0010 proteasomal protein catabolic process	4/292	/23	251	160	4
	498		328	849	734	
	GO:		147	0.84	0.38	
BP	0031 negative regulation of protein-containing complex assembly	1/292	/23	393	215	1
	333		328	6	559	
	GO:		150	0.84	0.38	
BP	0009 ribonucleotide biosynthetic process	1/292	/23	975	460	1
	260		328	986	402	
	GO:		150	0.84	0.38	
BP	0061 membrane fusion	1/292	/23	975	460	1
	025		328	986	402	
	GO:		151	0.85	0.38	
BP	0048 camera-type eye morphogenesis	1/292	/23	165	536	1
	593		328	261	616	
	GO:		481	0.85	0.38	
BP	0007 mitochondrion organization	4/292	/23	506	681	4
	005		328	949	741	
	GO:		271	0.85	0.38	
BP	0006 protein targeting	2/292	/23	555	694	2
	605		328	938	417	
	GO:		154	0.85	0.38	
BP	0007 single fertilization	1/292	/23	718	758	1
	338		328	946	641	

	GO:		275	0.86	0.38	
BP	0016 vesicle organization	2/292	/23	114	928	2
	050		328	66	028	
	GO:		157	0.86	0.38	
BP	0046 ribose phosphate biosynthetic process	1/292	/23	252	961	1
	390		328	033	493	
	GO:		157	0.86	0.38	
BP	0050 nucleic acid transport	1/292	/23	252	961	1
	657		328	033	493	
	GO:		157	0.86	0.38	
BP	0050 RNA transport	1/292	/23	252	961	1
	658		328	033	493	
	GO:		385	0.86	0.38	
BP	0007 microtubule-based movement	3/292	/23	310	978	3
	018		328	116	188	
	GO:		158	0.86	0.39	
BP	0043 regulation of RNA splicing	1/292	/23	425	020	1
	484		328	284	649	
	GO:		160	0.86	0.39	
BP	0006 purine nucleotide biosynthetic process	1/292	/23	765	154	1
	164		328	286	998	
	GO:		160	0.86	0.39	
BP	0051 establishment of RNA localization	1/292	/23	765	154	1
	236		328	286	998	
	GO:		163	0.87	0.39	
BP	0040 regulation of gene expression, epigenetic	1/292	/23	259	368	1
	029		328	441	37	
	GO:		165	0.87	0.39	
BP	0072 purine-containing compound biosynthetic process	1/292	/23	578	502	1
	522		328	619	713	
	GO:		167	0.87	0.39	
BP	0006 chromatin remodeling	1/292	/23	889	633	1
	338		328	827	397	
	GO:		405	0.88	0.39	
BP	0043 proteasome-mediated ubiquitin-dependent protein catabolic process	3/292	/23	477	873	3
	161		328	988	284	
	GO:		171	0.88	0.39	
BP	0065 protein-DNA complex assembly	1/292	/23	489	873	1
	004		328	124	284	
	GO:		294	0.88	0.39	
BP	0071 cellular response to abiotic stimulus	2/292	/23	508	873	2
	214		328	228	284	

	GO:		294	0.88	0.39	
BP	0104 cellular response to environmental stimulus	2/292	/23	508	873	2
	004		328	228	284	
	GO:		173	0.88	0.39	
BP	0051 protein homooligomerization	1/292	/23	777	984	1
	260		328	595	873	
	GO:		174	0.88	0.40	
BP	0006 membrane lipid metabolic process	1/292	/23	919	038	1
	643		328	117	841	
	GO:		410	0.88	0.40	
BP	0010 endomembrane system organization	3/292	/23	969	051	3
	256		328	956	959	
	GO:		180	0.89	0.40	
BP	0000 cell cycle checkpoint	1/292	/23	731	385	1
	075		328	667	01	
	GO:		182	0.89	0.40	
BP	0006 RNA localization	1/292	/23	989	490	1
	403		328	098	994	
	GO:		187	0.90	0.40	
BP	0006 complement activation	1/292	/23	604	758	1
	956		328	883	131	
	GO:		193	0.91	0.41	
BP	0006 protein glycosylation	1/292	/23	294	038	1
	486		328	193	2	
	GO:		193	0.91	0.41	
BP	0015 nucleobase-containing compound transport	1/292	/23	294	038	1
	931		328	193	2	
	GO:		193	0.91	0.41	
BP	0043 macromolecule glycosylation	1/292	/23	294	038	1
	413		328	193	2	
	GO:		444	0.91	0.41	
BP	0034 ncRNA metabolic process	3/292	/23	845	275	3
	660		328	455	946	
	GO:		206	0.92	0.41	
BP	0006 rRNA processing	1/292	/23	619	613	1
	364		328	64	735	
	GO:		208	0.92	0.41	
BP	0070 glycosylation	1/292	/23	804	686	1
	085		328	875	81	
	GO:		214	0.93	0.41	
BP	0071 protein-DNA complex subunit organization	1/292	/23	333	913	1
	824		328	238	941	

	GO:		215	0.93	0.41	
BP	0016 rRNA metabolic process	1/292	/23	417	941	1
	072		328	459	556	
	GO:		355	0.93	0.42	
BP	0034 ncRNA processing	2/292	/23	849	125	2
	470		328	926	471	
	GO:		369	0.94	0.42	
BP	0033 regulation of chromosome organization	2/292	/23	689	492	2
	044		328	538	003	
	GO:		279	0.97	0.43	
BP	0006 sulfur compound metabolic process	1/292	/23	085	556	1
	790		328	779	725	
	GO:		287	0.97	0.43	
BP	0031 regulation of protein stability	1/292	/23	368	672	1
	647		328	405	905	
	GO:		296	0.97	0.43	
BP	0042 ribosome biogenesis	1/292	/23	653	790	1
	254		328	831	284	
	GO:		448	0.97	0.43	
BP	0016 histone modification	2/292	/23	723	810	2
	570		328	594	92	
	GO:		310	0.98	0.43	
BP	0060 cilium assembly	1/292	/23	037	934	1
	271		328	722	394	
	GO:		462	0.98	0.43	
BP	0016 covalent chromatin modification	2/292	/23	046	934	2
	569		328	631	394	
	GO:		481	0.98	0.44	
BP	0006 DNA repair	2/292	/23	414	088	2
	281		328	952	732	
	GO:		343	0.98	0.44	
BP	0044 cilium organization	1/292	/23	712	211	1
	782		328	755	41	
	GO:		386	0.99	0.44	
BP	0008 RNA splicing	1/292	/23	257	444	1
	380		328	529	616	
	GO:		409	0.99	0.44	
BP	0022 ribonucleoprotein complex biogenesis	1/292	/23	447	518	1
	613		328	074	685	
	GO:		403	1.31	3.02	
CC	0043 receptor complex	32/294	/23	E-	E-	3
	235		271	16	14	2

	GO:		379	1.93	1.57		
CC	0045 membrane raft	25/294	/23	E-	E-	2	5
	121		271	11	09		
	GO:		380	2.04	1.57	2	5
CC	0098 membrane microdomain	25/294	/23	E-	E-	2	5
	857		271	11	09		
	GO:		393	4.19	2.42	2	5
CC	0098 membrane region	25/294	/23	E-	E-	2	5
	589		271	11	09		
	GO:		97/	3.92	0.00		
CC	0005 caveola	9/294	232	E-	018	9	
	901		71	06	085		
	GO:		130	6.24	0.00	1	0
CC	0044 plasma membrane raft	10/294	/23	E-	023		
	853		271	06	961		
	GO:		187	2.76	0.00	1	1
CC	0098 plasma membrane signaling receptor complex	11/294	/23	E-	090		
	802		271	05	885		
	GO:		385	3.50	0.00	1	6
CC	0062 collagen-containing extracellular matrix	16/294	/23	E-	100		
	023		271	05	984		
	GO:		85/	0.00	0.00		
CC	0005 endoplasmic reticulum lumen	7/294	232	010	260	7	
	788		71	177	68		
	GO:		140	0.00	0.00		
CC	0043 perikaryon	8/294	/23	041	962	8	
	204		271	767	837		
	GO:		401	0.00	0.01	1	4
CC	0030 secretory granule	14/294	/23	062	319		
	141		271	979	844		
	GO:		16/	0.00	0.01		
CC	0098 neuronal dense core vesicle	3/294	232	098	900	3	
	992		71	943	738		
	GO:		213	0.00	0.02		
CC	0044 neuron projection terminus	9/294	/23	161	741	9	
	306		271	665	179		
	GO:		19/	0.00	0.02		
CC	0043 costamere	3/294	232	166	741	3	
	034		71	473	179		
	GO:		21/	0.00	0.03		
CC	0005 Golgi lumen	3/294	232	224	446	3	
	796		71	269	663		

	GO:		192	0.00	0.04	
CC	0043 axon terminus	8/294	/23	315	547	8
	679		271	635	641	
	GO:		200	0.00	0.05	
CC	0030 endocytic vesicle	8/294	/23	403	478	8
	139		271	981	126	
	GO:		164	0.00	0.06	
CC	0042 sarcolemma	7/294	/23	494	330	7
	383		271	264	052	
	GO:		454	0.00	0.06	1
CC	0045 apical part of cell	13/294	/23	539	545	3
	177		271	45	127	
	GO:		34/	0.00	0.09	
CC	0008 COP9 signalosome	3/294	232	894	817	3
	180		71	314	286	
	GO:		34/	0.00	0.09	
CC	0031 dense core granule	3/294	232	894	817	3
	045		71	314	286	
	GO:		384	0.01	0.10	1
CC	0150 distal axon	11/294	/23	005	538	1
	034		271	731	526	
	GO:		37/	0.01	0.10	
CC	0032 neuronal cell body membrane	3/294	232	129	899	3
	809		71	498	576	
	GO:		69/	0.01	0.10	
CC	0032 neuron projection membrane	4/294	232	134	899	4
	589		71	75	576	
	GO:		40/	0.01	0.12	
CC	0044 cell body membrane	3/294	232	397	882	3
	298		71	048	25	
	GO:		16/	0.01	0.15	
CC	0043 varicosity	2/294	232	698	058	2
	196		71	433	98	
	GO:		421	0.01	0.15	1
CC	0005 nuclear envelope	11/294	/23	872	987	1
	635		271	503	451	
	GO:		48/	0.02	0.18	
CC	0032 dendrite membrane	3/294	232	272	709	3
	590		71	429	097	
	GO:		226	0.02	0.20	
CC	0043 contractile fiber	7/294	/23	521	047	7
	292		271	967	58	

	GO:		91/	0.02	0.21	
CC	0043 terminal bouton	4/294	232	833	151	4
	195		71	98	077	
	GO:		92/	0.02	0.21	
CC	0070 extracellular exosome	4/294	232	934	151	4
	062		71	353	077	
	GO:		395	0.02	0.21	
CC	0031 cell leading edge	10/294	/23	936	151	1
	252		271	04	077	0
	GO:		93/	0.03	0.21	
CC	0005 rough endoplasmic reticulum	4/294	232	036	214	4
	791		71	812	095	
	GO:		460	0.03	0.22	
CC	0005 transcription regulator complex	11/294	/23	287	290	1
	667		271	552	214	1
	GO:		246	0.03	0.24	
CC	0031 nuclear membrane	7/294	/23	737	415	7
	965		271	266	224	
	GO:		100	0.03	0.24	
CC	1903 extracellular vesicle	4/294	/23	812	415	4
	561		271	788	224	
	GO:		26/	0.04	0.26	
CC	0045 clathrin-coated endocytic vesicle	2/294	232	236	392	2
	334		71	131	967	
	GO:		110	0.05	0.29	
CC	0043 extracellular organelle	4/294	/23	100	626	4
	230		271	647	249	
	GO:		29/	0.05	0.29	
CC	0005 phosphatidylinositol 3-kinase complex	2/294	232	163	626	2
	942		71	612	249	
	GO:		111	0.05	0.29	
CC	0045 phagocytic vesicle	4/294	/23	241	626	4
	335		271	012	249	
	GO:		212	0.05	0.29	
CC	0030 myofibril	6/294	/23	301	626	6
	016		271	3	249	
	GO:		161	0.05	0.29	
CC	0005 focal adhesion	5/294	/23	397	626	5
	925		271	659	249	
	GO:		114	0.05	0.30	
CC	0005 basement membrane	4/294	/23	674	422	4
	604		271	642	195	

	GO:		70/	0.05	0.30	
CC	0030 T-tubule	3/294	232	888	851	3
	315		71	471	082	
	GO:		33/	0.06	0.32	
CC	0005 gap junction	2/294	232	499	899	2
	921		71	875	094	
	GO:		460	0.06	0.32	
CC	0000 lytic vacuole	10/294	/23	832	899	1
	323		271	418	094	0
	GO:		460	0.06	0.32	
CC	0005 lysosome	10/294	/23	832	899	1
	764		271	418	094	0
	GO:		34/	0.06	0.32	
CC	0097 sperm midpiece	2/294	232	850	899	2
	225		71	222	094	
	GO:		174	0.07	0.33	
CC	0030 cell-substrate junction	5/294	/23	034	092	5
	055		271	111	811	
	GO:		125	0.07	0.34	
CC	0001 fibrillar center	4/294	/23	423	224	4
	650		271	082	313	
	GO:		350	0.07	0.35	
CC	0016 apical plasma membrane	8/294	/23	745	012	8
	324		271	939	604	
	GO:		39/	0.08	0.38	
CC	0098 protein complex involved in cell adhesion	2/294	232	689	520	2
	636		71	066	355	
	GO:		85/	0.09	0.38	
CC	0044 cell-cell contact zone	3/294	232	287	948	3
	291		71	394	823	
	GO:		85/	0.09	0.38	
CC	0044 main axon	3/294	232	287	948	3
	304		71	394	823	
	GO:		136	0.09	0.38	
CC	0005 actin filament	4/294	/23	411	948	4
	884		271	516	823	
	GO:		41/	0.09	0.38	
CC	0001 immunological synapse	2/294	232	461	948	2
	772		71	54	823	
	GO:		198	0.10	0.43	
CC	0031 anchored component of membrane	5/294	/23	687	225	5
	225		271	992	673	

	GO:		93/	0.11	0.45	
CC	0030 filopodium	3/294	232	364	167	3
	175		71	12	736	
	GO:		10/	0.11	0.45	
CC	0033 endoplasmic reticulum-Golgi intermediate compartment membrane	1/294	232	941	879	1
	116		71	348	917	
	GO:		10/	0.11	0.45	
CC	0072 blood microparticle	1/294	232	941	879	1
	562		71	348	917	
	GO:		150	0.12	0.46	
CC	0031 leading edge membrane	4/294	/23	263	221	4
	256		271	492	837	
	GO:		330	0.12	0.46	
CC	0045 postsynaptic membrane	7/294	/23	622	221	7
	211		271	78	837	
	GO:		98/	0.12	0.46	
CC	0031 neuromuscular junction	3/294	232	743	221	3
	594		71	256	837	
	GO:		11/	0.13	0.46	
CC	0035 CD40 receptor complex	1/294	232	054	221	1
	631		71	337	837	
	GO:		11/	0.13	0.46	
CC	0099 perisynaptic space	1/294	232	054	221	1
	544		71	337	837	
	GO:		213	0.13	0.46	
CC	0043 myelin sheath	5/294	/23	361	221	5
	209		271	395	837	
	GO:		101	0.13	0.46	
CC	0005 microvillus	3/294	/23	598	221	3
	902		271	048	837	
	GO:		12/	0.14	0.46	
CC	0034 endoplasmic reticulum chaperone complex	1/294	232	153	221	1
	663		71	307	837	
	GO:		12/	0.14	0.46	
CC	0036 CatSper complex	1/294	232	153	221	1
	128		71	307	837	
	GO:		12/	0.14	0.46	
CC	0043 NADPH oxidase complex	1/294	232	153	221	1
	020		71	307	837	
	GO:		159	0.14	0.46	
CC	0090 RNA polymerase II transcription regulator complex	4/294	/23	268	221	4
	575		271	829	837	

	GO:		221	0.14	0.46	
CC	0098 actin-based cell projection	5/294	/23	898	221	5
	858		271	514	837	
	GO:		13/	0.15	0.46	
CC	0002 zona pellucida receptor complex	1/294	232	238	221	1
	199		71	432	837	
	GO:		13/	0.15	0.46	
CC	0005 fascia adherens	1/294	232	238	221	1
	916		71	432	837	
	GO:		13/	0.15	0.46	
CC	0034 secretory granule lumen	1/294	232	238	221	1
	774		71	432	837	
	GO:		13/	0.15	0.46	
CC	0060 cytoplasmic vesicle lumen	1/294	232	238	221	1
	205		71	432	837	
	GO:		56/	0.15	0.47	
CC	0098 neurotransmitter receptor complex	2/294	232	762	191	2
	878		71	667	033	
	GO:		14/	0.16	0.47	
CC	0030 mitochondrial crista	1/294	232	309	593	1
	061		71	887	141	
	GO:		14/	0.16	0.47	
CC	0098 postsynaptic actin cytoskeleton	1/294	232	309	593	1
	871		71	887	141	
	GO:		15/	0.17	0.49	
CC	0031 vesicle lumen	1/294	232	367	956	1
	983		71	843	851	
	GO:		60/	0.17	0.49	
CC	0009 basal plasma membrane	2/294	232	553	956	2
	925		71	332	851	
	GO:		497	0.17	0.50	
CC	0015 actin cytoskeleton	9/294	/23	951	466	9
	629		271	15	005	
	GO:		16/	0.18	0.50	
CC	0072 meiotic spindle	1/294	232	412	467	1
	687		71	471	88	
	GO:		62/	0.18	0.50	
CC	0014 intercalated disc	2/294	232	460	467	2
	704		71	4	88	
	GO:		239	0.18	0.50	
CC	0008 synaptic vesicle	5/294	/23	608	467	5
	021		271	59	88	

	GO:		17/	0.19	0.52	
CC	0005 interstitial matrix	1/294	232	443	120	1
	614		71	936	221	
	GO:		66/	0.20	0.53	
CC	0016 lateral plasma membrane	2/294	232	293	771	2
	328		71	309	745	
	GO:		19/	0.21	0.54	
CC	0031 platelet alpha granule	1/294	232	468	808	1
	091		71	042	609	
	GO:		19/	0.21	0.54	
CC	0099 postsynaptic cytoskeleton	1/294	232	468	808	1
	571		71	042	609	
	GO:		320	0.21	0.54	
CC	0016 nuclear speck	6/294	/23	955	808	6
	607		271	787	609	
	GO:		129	0.22	0.54	
CC	0005 intermediate filament	3/294	/23	346	808	3
	882		271	029	609	
	GO:		20/	0.22	0.54	
CC	0097 astrocyte projection	1/294	232	461	808	1
	449		71	005	609	
	GO:		259	0.23	0.54	
CC	0016 basolateral plasma membrane	5/294	/23	074	808	5
	323		271	615	609	
	GO:		72/	0.23	0.54	
CC	0005 endoplasmic reticulum-Golgi intermediate compartment	2/294	232	076	808	2
	793		71	752	609	
	GO:		195	0.23	0.54	
CC	0043 dendritic spine	4/294	/23	344	808	4
	197		271	429	609	
	GO:		21/	0.23	0.54	
CC	0005 nuclear outer membrane	1/294	232	441	808	1
	640		71	456	609	
	GO:		21/	0.23	0.54	
CC	0030 axolemma	1/294	232	441	808	1
	673		71	456	609	
	GO:		21/	0.23	0.54	
CC	0031 anchored component of external side of plasma membrane	1/294	232	441	808	1
	362		71	456	609	
	GO:		261	0.23	0.54	
CC	0070 exocytic vesicle	5/294	/23	537	808	5
	382		271	67	609	

	GO:		22/	0.24	0.55	
CC	0001 phagocytic cup	1/294	232	409	164	1
	891		71	552	178	
	GO:		75/	0.24	0.55	
CC	0016 PML body	2/294	232	478	164	2
	605		71	069	178	
	GO:		200		0.55	
CC	0044 neuron spine	4/294	/23	0.24	164	4
	309		271	705	178	
	GO:		23/	0.25	0.55	
CC	0001 male germ cell nucleus	1/294	232	365	164	1
	673		71	446	178	
	GO:		23/	0.25	0.55	
CC	0005 striated muscle thin filament	1/294	232	365	164	1
	865		71	446	178	
	GO:		23/	0.25	0.55	
CC	0016 apicolateral plasma membrane	1/294	232	365	164	1
	327		71	446	178	
	GO:		23/	0.25	0.55	
CC	0097 sperm plasma membrane	1/294	232	365	164	1
	524		71	446	178	
	GO:		339	0.25	0.55	
CC	0030 transport vesicle	6/294	/23	883	642	6
	133		271	076	059	
	GO:		24/	0.26	0.55	
CC	0031 intrinsic component of external side of plasma membrane	1/294	232	309	642	1
	233		71	293	059	
	GO:		24/	0.26	0.55	
CC	0035 transcriptionally active chromatin	1/294	232	309	642	1
	327		71	293	059	
	GO:		145	0.27	0.57	
CC	0005 peroxisome	3/294	/23	748	579	3
	777		271	806	811	
	GO:		145	0.27	0.57	
CC	0042 microbody	3/294	/23	748	579	3
	579		271	806	811	
	GO:		26/	0.28	0.57	
CC	0030 phagocytic vesicle membrane	1/294	232	161	579	1
	670		71	449	811	
	GO:		83/	0.28	0.57	
CC	0045 basal part of cell	2/294	232	224	579	2
	178		71	624	811	

	GO:		27/	0.29	0.58	
CC	0002 podosome	1/294	232	070	273	1
	102		71	054	152	
	GO:		27/	0.29	0.58	
CC	0036 myofilament	1/294	232	070	273	1
	379		71	054	152	
	GO:		88/	0.30	0.60	
CC	0030 secretory granule membrane	2/294	232	560	732	2
	667		71	31	377	
	GO:		29/	0.30	0.60	
CC	0044 calyx of Held	1/294	232	853	790	1
	305		71	049	083	
	GO:		30/	0.31	0.61	
CC	0043 germ cell nucleus	1/294	232	727	462	1
	073		71	724	819	
	GO:		30/	0.31	0.61	
CC	0061 sperm head	1/294	232	727	462	1
	827		71	724	819	
	GO:		158	0.32	0.61	
CC	0043 apical junction complex	3/294	/23	225	905	3
	296		271	008	936	
	GO:		31/	0.32	0.62	
CC	0099 postsynaptic density, intracellular component	1/294	232	591	092	1
	092		71	373	306	
	GO:		165	0.34	0.65	
CC	0045 intermediate filament cytoskeleton	3/294	/23	641	456	3
	111		271	139	51	
	GO:		34/	0.35	0.65	
CC	0097 sperm principal piece	1/294	232	117	752	1
	228		71	532	033	
	GO:		99/	0.35	0.65	
CC	1902 protein kinase complex	2/294	232	638	752	2
	911		71	101	033	
	GO:		35/	0.35	0.65	
CC	0015 Cajal body	1/294	232	938	752	1
	030		71	44	033	
	GO:		35/	0.35	0.65	
CC	0097 glial cell projection	1/294	232	938	752	1
	386		71	44	033	
	GO:		241	0.36	0.65	
CC	0061 transferase complex, transferring	4/294	/23	288	869	4
	695 phosphorus-containing groups		271	597	894	

	GO:		36/	0.36	0.66	
CC	0005 smooth endoplasmic reticulum	1/294	232	748	184	1
	790		71	997	46	
	GO:		37/	0.37	0.66	
CC	0099 postsynaptic specialization, intracellular	1/294	232	549	978	1
	091 component		71	333	786	
	GO:		104	0.37	0.66	
CC	0031 extrinsic component of cytoplasmic side of	2/294	/23	903	978	2
	234 plasma membrane		271	989	786	
	GO:		38/	0.38	0.66	
CC	0016 aggresome	1/294	232	339	978	1
	235		71	575	786	
	GO:		470	0.38	0.66	
CC	0097 synaptic membrane	7/294	/23	352	978	7
	060		271	236	786	
	GO:		106	0.38	0.67	
CC	0030 clathrin-coated vesicle	2/294	/23	801	253	2
	136		271	105	201	
	GO:		40/	0.39	0.67	
CC	0005 voltage-gated calcium channel complex	1/294	232	890	910	1
	891		71	287	451	
	GO:		40/	0.39	0.67	
CC	0031 filamentous actin	1/294	232	890	910	1
	941		71	287	451	
	GO:		41/	0.40	0.67	
CC	0032 cleavage furrow	1/294	232	651	910	1
	154		71	006	451	
	GO:		42/	0.41	0.67	
CC	0005 nuclear heterochromatin	1/294	232	402	910	1
	720		71	13	451	
	GO:		186	0.41	0.67	
CC	0032 protein-DNA complex	3/294	/23	808	910	3
	993		271	565	451	
	GO:		186	0.41	0.67	
CC	0098 cytoplasmic side of membrane	3/294	/23	808	910	3
	562		271	565	451	
	GO:		43/	0.42	0.67	
CC	0005 peroxisomal membrane	1/294	232	143	910	1
	778		71	779	451	
	GO:		43/	0.42	0.67	
CC	0031 microbody membrane	1/294	232	143	910	1
	903		71	779	451	

	GO:		188	0.42	0.67	
CC	0030 sarcomere	3/294	/23	479	910	3
	017		271	651	451	
	GO:		44/	0.42	0.67	
CC	0030 endocytic vesicle membrane	1/294	232	876	910	1
	666		71	073	451	
	GO:		116	0.43	0.67	
CC	0030 synaptic vesicle membrane	2/294	/23	195	910	2
	672		271	377	451	
	GO:		116	0.43	0.67	
CC	0099 integral component of presynaptic membrane	2/294	/23	195	910	2
	056		271	377	451	
	GO:		116	0.43	0.67	
CC	0099 exocytic vesicle membrane	2/294	/23	195	910	2
	501		271	377	451	
	GO:		45/	0.43	0.67	
CC	0005 nuclear inner membrane	1/294	232	599	910	1
	637		71	13	451	
	GO:		45/	0.43	0.67	
CC	0030 integral component of synaptic vesicle membrane	1/294	232	599	910	1
	285		71	13	451	
	GO:		46/	0.44	0.68	
CC	0022 cytosolic small ribosomal subunit	1/294	232	313	102	1
	627		71	065	184	
	GO:		46/	0.44	0.68	
CC	0034 chloride channel complex	1/294	232	313	102	1
	707		71	065	184	
	GO:		196	0.45	0.68	
CC	0019 outer membrane	3/294	/23	135	454	3
	867		271	931	077	
	GO:		196	0.45	0.68	
CC	0031 organelle outer membrane	3/294	/23	135	454	3
	968		271	931	077	
	GO:		125	0.47	0.70	
CC	0030 Z disc	2/294	/23	002	474	2
	018		271	872	982	
	GO:		50/	0.47	0.70	
CC	0000 euchromatin	1/294	232	079	474	1
	791		71	863	982	
	GO:		128	0.48	0.71	
CC	0098 intrinsic component of presynaptic membrane	2/294	/23	237	742	2
	889		271	952	692	

	GO:		209	0.49	0.72	
CC	0030 growth cone	3/294	/23	339	911	3
	426		271	94	248	
	GO:		216	0.51	0.74	
CC	0030 site of polarized growth	3/294	/23	537	050	3
	427		271	002	305	
	GO:		296	0.51	0.74	
CC	0034 ion channel complex	4/294	/23	602	050	4
	702		271	315	305	
	GO:		137	0.51	0.74	
CC	0005 bicellular tight junction	2/294	/23	834	050	2
	923		271	542	305	
	GO:		218	0.52	0.74	
CC	0036 cytoplasmic ribonucleoprotein granule	3/294	/23	155	050	3
	464		271	398	305	
	GO:		138	0.52	0.74	
CC	0031 I band	2/294	/23	223	050	2
	674		271	82	305	
	GO:		219	0.52	0.74	
CC	0005 late endosome	3/294	/23	462	050	3
	770		271	989	305	
	GO:		141	0.53	0.74	
CC	0036 sperm flagellum	2/294	/23	378	050	2
	126		271	971	305	
	GO:		222	0.53	0.74	
CC	0034 cation channel complex	3/294	/23	379	050	3
	703		271	223	305	
	GO:		304	0.53	0.74	
CC	0031 cell projection membrane	4/294	/23	699	050	4
	253		271	391	305	
	GO:		61/	0.54	0.74	
CC	0032 cell division site	1/294	232	002	050	1
	153		71	185	305	
	GO:		61/	0.54	0.74	
CC	0034 calcium channel complex	1/294	232	002	050	1
	704		71	185	305	
	GO:		146	0.55	0.74	
CC	0070 tight junction	2/294	/23	261	050	2
	160		271	467	305	
	GO:		229	0.55	0.74	
CC	0035 ribonucleoprotein granule	3/294	/23	477	050	3
	770		271	862	305	

	GO:		147	0.55	0.74	
CC	0030 midbody	2/294	/23	631	050	2
	496		271	493	305	
	GO:		147	0.55	0.74	
CC	0030 transport vesicle membrane	2/294	/23	631	050	2
	658		271	493	305	
	GO:		64/	0.55	0.74	
CC	0098 intrinsic component of synaptic vesicle membrane	1/294	232	728	050	1
	563		71	167	305	
	GO:		312	0.55	0.74	
CC	1902 transmembrane transporter complex	4/294	/23	750	050	4
	495		271	209	305	
	GO:		149	0.56	0.74	
CC	0001 ruffle	2/294	/23	365	050	2
	726		271	03	305	
	GO:		400	0.57	0.74	
CC	0014 postsynaptic density	5/294	/23	158	050	5
	069		271	41	305	
	GO:		67/	0.57	0.74	
CC	0032 stereocilium bundle	1/294	232	389	050	1
	421		71	597	305	
	GO:		319	0.57	0.74	
CC	1990 transporter complex	4/294	/23	504	050	4
	351		271	242	305	
	GO:		320	0.57	0.74	
CC	0019 extrinsic component of membrane	4/294	/23	751	050	4
	898		271	621	305	
	GO:		153	0.57	0.74	
CC	0030 integral component of endoplasmic reticulum membrane	2/294	/23	805	050	2
	176		271	939	305	
	GO:		154	0.58	0.74	
CC	0097 9+2 motile cilium	2/294	/23	160	050	2
	729		271	698	305	
	GO:		405	0.58	0.74	
CC	0032 asymmetric synapse	5/294	/23	262	050	5
	279		271	202	305	
	GO:		69/	0.58	0.74	
CC	0005 clathrin-coated pit	1/294	232	462	050	1
	905		71	546	305	
	GO:		71/	0.59	0.74	
CC	0099 integral component of postsynaptic density membrane	1/294	232	508	963	1
	061		71	568	339	

	GO:		73/	0.60	0.75		
CC	0005 autophagosome	1/294	232	528	121	1	
	776		71	336	792		
	GO:		161	0.60	0.75		
CC	0031 intrinsic component of endoplasmic	2/294	/23	582	121	2	
	227 reticulum membrane		271	587	792		
	GO:		74/	0.61	0.75		
CC	0005 polysome	1/294	232	028	121	1	
	844		71	58	792		
	GO:		337	0.61	0.75		
CC	0030 cytoplasmic vesicle membrane	4/294	/23	828	121	4	
	659		271	977	792		
	GO:		76/	0.62	0.75		
CC	0000 P-body	1/294	232	010	121	1	
	932		71	193	792		
	GO:		76/	0.62	0.75		
CC	0016 inclusion body	1/294	232	010	121	1	
	234		71	193	792		
	GO:		77/	0.62	0.75		
CC	0046 anchored component of plasma membrane	1/294	232	491	121	1	
	658		71	719	792		
	GO:		77/	0.62	0.75		
CC	0099 intrinsic component of postsynaptic density	1/294	232	491	121	1	
	146 membrane		71	719	792		
	GO:		78/	0.62	0.75		
CC	0015 small ribosomal subunit	1/294	232	967	121	1	
	935		71	163	792		
	GO:		169	0.63	0.75		
CC	0009 cytoplasmic side of plasma membrane	2/294	/23	218	121	2	
	898		271	933	792		
	GO:		169	0.63	0.75		
CC	0099 integral component of postsynaptic	2/294	/23	218	121	2	
	055 membrane		271	933	792		
	GO:		433	0.64	0.75		
CC	0098 neuron to neuron synapse	5/294	/23	148	314	5	
	984		271	667	27		
	GO:		81/	0.64	0.75		
CC	0005 collagen trimer	1/294	232	357	314	1	
	581		71	757	27		
	GO:		175	0.65	0.75		
CC	0005 mitochondrial outer membrane	2/294	/23	104	314	2	
	741		271	723	27		

	GO:		83/	0.65	0.75	
CC	0005 mitochondrial intermembrane space	1/294	232	255	314	1
	758		71	783	27	
	GO:		83/	0.65	0.75	
CC	1902 serine/threonine protein kinase complex	1/294	232	255	314	1
	554		71	783	27	
	GO:		439	0.65	0.75	
CC	0099 postsynaptic specialization	5/294	/23	341	314	5
	572		271	148	27	
	GO:		178	0.66	0.75	
CC	0098 intrinsic component of postsynaptic membrane	2/294	/23	018	586	2
	936		271	502	191	
	GO:		86/	0.66	0.75	
CC	0001 stress fiber	1/294	232	560	586	1
	725		71	716	191	
	GO:		86/	0.66	0.75	
CC	0097 contractile actin filament bundle	1/294	232	560	586	1
	517		71	716	191	
	GO:		88/	0.67	0.75	
CC	0016 nuclear matrix	1/294	232	403	610	1
	363		71	419	084	
	GO:		363	0.67	0.75	
CC	0012 vesicle membrane	4/294	/23	570	610	4
	506		271	355	084	
	GO:		89/	0.67	0.75	
CC	0005 lipid droplet	1/294	232	816	610	1
	811		71	799	084	
	GO:		189	0.69	0.75	
CC	0019 extrinsic component of plasma membrane	2/294	/23	205	610	2
	897		271	696	084	
	GO:		284	0.69	0.75	
CC	0005 early endosome	3/294	/23	864	610	3
	769		271	59	084	
	GO:		192	0.70	0.75	
CC	0030 coated vesicle	2/294	/23	031	610	2
	135		271	153	084	
	GO:		95/	0.70	0.75	
CC	0000 heterochromatin	1/294	232	189	610	1
	792		71	635	084	
	GO:		95/	0.70	0.75	
CC	0000 synaptonemal complex	1/294	232	189	610	1
	795		71	635	084	

	GO:		95/	0.70	0.75	
CC	0032 actin filament bundle	1/294	232	189	610	1
	432		71	635	084	
	GO:		95/	0.70	0.75	
CC	0042 actomyosin	1/294	232	189	610	1
	641		71	635	084	
	GO:		95/	0.70	0.75	
CC	0099 synaptonemal structure	1/294	232	189	610	1
	086		71	635	084	
	GO:		96/	0.70	0.75	
CC	0031 organelle envelope lumen	1/294	232	567	663	1
	970		71	796	879	
	GO:		97/	0.70	0.75	
CC	0098 postsynaptic density membrane	1/294	232	941	712	1
	839		71	175	073	
	GO:		198	0.71	0.76	
CC	0042 presynaptic membrane	2/294	/23	627	091	2
	734		271	11	861	
	GO:		105	0.73	0.77	
CC	0098 GABA-ergic synapse	1/294	/23	763	645	1
	982		271	165	437	
	GO:		105	0.73	0.77	
CC	0099 integral component of postsynaptic specialization membrane	1/294	/23	763	645	1
	060		271	165	437	
	GO:		110	0.75	0.78	
CC	1990 oxidoreductase complex	1/294	/23	386	887	1
	204		271	437	495	
	GO:		111	0.75	0.78	
CC	0098 intrinsic component of postsynaptic specialization membrane	1/294	/23	698	887	1
	948		271	876	495	
	GO:		113	0.76	0.78	
CC	0034 nuclear periphery	1/294	/23	311	887	1
	399		271	944	495	
	GO:		113	0.76	0.78	
CC	0098 Schaffer collateral - CA1 synapse	1/294	/23	311	887	1
	685		271	944	495	
	GO:		115	0.76	0.79	
CC	0022 cytosolic ribosome	1/294	/23	909	150	1
	626		271	598	385	
	GO:		222	0.77	0.79	
CC	0031 motile cilium	2/294	/23	312	211	2
	514		271	462	364	

	GO:		119	0.78	0.79	
CC	0005 centriole	1/294	/23	060	371	1
	814		271	195	469	
	GO:		226	0.78	0.79	
CC	0099 integral component of synaptic membrane	2/294	/23	157	371	2
	699		271	339	469	
	GO:		130	0.80	0.81	
CC	0005 lysosomal membrane	1/294	/23	938	477	1
	765		271	093	556	
	GO:		130	0.80	0.81	
CC	0098 lytic vacuole membrane	1/294	/23	938	477	1
	852		271	093	556	
	GO:		244	0.81	0.81	
CC	0099 intrinsic component of synaptic membrane	2/294	/23	626	813	2
	240		271	642	431	
	GO:		135	0.82	0.81	
CC	0072 mitotic spindle	1/294	/23	118	822	1
	686		271	694	852	
	GO:		136	0.82	0.81	
CC	0099 postsynaptic specialization membrane	1/294	/23	345	822	1
	634		271	92	852	
	GO:		138	0.82	0.81	
CC	0005 adherens junction	1/294	/23	791	912	1
	912		271	775	802	
	GO:		368	0.84	0.83	
CC	0031 integral component of organelle membrane	3/294	/23	642	386	3
	301		271	759	254	
	GO:		153	0.85	0.84	
CC	0055 recycling endosome	1/294	/23	796	163	1
	037		271	755	446	
	GO:		159	0.86	0.84	
CC	0000 condensed nuclear chromosome	1/294	/23	846	637	1
	794		271	754	272	
	GO:		160	0.87	0.84	
CC	0097 non-motile cilium	1/294	/23	014	637	1
	730		271	072	272	
	GO:		166	0.87	0.84	
CC	0036 ciliary basal body	1/294	/23	974	864	1
	064		271	36	581	
	GO:		403	0.88	0.84	
CC	0031 intrinsic component of organelle membrane	3/294	/23	652	864	3
	300		271	733	581	

	GO:		171	0.88	0.84	
CC	0030 lamellipodium	1/294	/23	720	864	1
	027		271	301	581	
	GO:		171	0.88	0.84	
CC	0032 plasma membrane bounded cell projection	1/294	/23	720	864	1
	838 cytoplasm		271	301	581	
	GO:		297	0.89	0.84	
CC	0005 spindle	2/294	/23	156	928	2
	819		271	035	976	
	GO:		183	0.90	0.85	
CC	0005 vacuolar membrane	1/294	/23	327	691	1
	774		271	757	049	
	GO:		198	0.92	0.86	
CC	0044 ribosomal subunit	1/294	/23	019	773	1
	391		271	774	731	
	GO:		200	0.92	0.86	
CC	0098 cluster of actin-based cell projections	1/294	/23	221	773	1
	862		271	854	731	
	GO:		210	0.93	0.87	
CC	0000 condensed chromosome	1/294	/23	158	225	1
	793		271	266	621	
	GO:		223	0.94	0.87	
CC	0099 cytoplasmic region	1/294	/23	209	225	1
	568		271	622	621	
	GO:		227	0.94	0.87	
CC	0010 endosome membrane	1/294	/23	499	225	1
	008		271	483	621	
	GO:		231	0.94	0.87	
CC	0005 trans-Golgi network	1/294	/23	774	225	1
	802		271	881	621	
	GO:		489	0.94	0.87	
CC	0019 organelle inner membrane	3/294	/23	827	225	3
	866		271	747	621	
	GO:		234	0.94	0.87	
CC	0005 ribosome	1/294	/23	972	225	1
	840		271	372	621	
	GO:		273	0.96	0.88	
CC	0005 mitochondrial matrix	1/294	/23	954	347	1
	759		271	675	54	
	GO:		430	0.97	0.88	
CC	0005 microtubule	2/294	/23	349	347	2
	874		271	409	54	

	GO:		295	0.97	0.88	
CC	0098 Golgi apparatus subcompartment	1/294	/23	705	347	1
	791		271	712	54	
	GO:		444	0.97	0.88	
CC	0005 mitochondrial inner membrane	2/294	/23	726	347	2
	743		271	902	54	
	GO:		321	0.98	0.88	
CC	0031 organelle subcompartment	1/294	/23	358	571	1
	984		271	85	497	
	GO:		499	8.78	2.64	1
MF	0048 receptor ligand activity	111/292	/22	E-	E-	1
	018		669	109	106	1
	GO:		231	2.00	3.00	5
MF	0005 cytokine activity	56/292	/22	E-	E-	6
	125		669	55	53	6
	GO:		314	8.92	8.95	6
MF	0005 cytokine receptor binding	60/292	/22	E-	E-	0
	126		669	53	51	0
	GO:		123	1.57	1.18	3
MF	0140 immune receptor activity	37/292	/22	E-	E-	7
	375		669	40	38	7
	GO:		147	2.75	1.65	3
MF	0008 growth factor activity	39/292	/22	E-	E-	9
	083		669	40	38	9
	GO:		136	3.42	1.72	3
MF	0019 cytokine binding	36/292	/22	E-	E-	6
	955		669	37	35	6
	GO:		98/	1.82	7.81	3
MF	0004 cytokine receptor activity	32/292	226	E-	E-	2
	896		69	36	35	2
	GO:		310	4.18	1.57	3
MF	0001 G protein-coupled receptor binding	39/292	/22	E-	E-	9
	664		669	27	25	9
	GO:		144	4.61	1.54	2
MF	0008 G protein-coupled peptide receptor activity	28/292	/22	E-	E-	8
	528		669	25	23	8
	GO:		151	1.85	5.56	2
MF	0001 peptide receptor activity	28/292	/22	E-	E-	8
	653		669	24	23	8
	GO:		149	2.42	6.62	2
MF	0070 growth factor receptor binding	27/292	/22	E-	E-	7
	851		669	23	22	7

	GO:		130	8.40	2.11		2
MF	0005 hormone activity	23/292	/22	E-	E-		3
	179		669	20	18		
	GO:		44/	1.15	2.66		1
MF	0008 chemokine activity	16/292	226	E-	E-		6
	009		69	19	18		
	GO:		78/	5.98	1.29		1
MF	0042 chemokine receptor binding	18/292	226	E-	E-		8
	379		69	18	16		
	GO:		24/	3.92	7.87		1
MF	0016 C-C chemokine receptor activity	12/292	226	E-	E-		2
	493		69	17	16		
	GO:		25/	7.46	1.25		1
MF	0001 G protein-coupled chemoattractant receptor activity	12/292	226	E-	E-		2
	637		69	17	15		
	GO:		25/	7.46	1.25		1
MF	0004 chemokine receptor activity	12/292	226	E-	E-		2
	950		69	17	15		
	GO:		25/	7.46	1.25		1
MF	0019 C-C chemokine binding	12/292	226	E-	E-		2
	957		69	17	15		
	GO:		33/	9.37	1.48		1
MF	0019 chemokine binding	13/292	226	E-	E-		3
	956		69	17	15		
	GO:		53/	3.89	5.57		1
MF	0004 nuclear receptor activity	14/292	226	E-	E-		4
	879		69	15	14		
	GO:		53/	3.89	5.57		1
MF	0098 ligand-activated transcription factor activity	14/292	226	E-	E-		4
	531		69	15	14		
	GO:		147	4.47	6.12		2
MF	0019 growth factor binding	20/292	/22	E-	E-		0
	838		669	15	14		
	GO:		54/	5.19	6.79		1
MF	0003 steroid hormone receptor activity	14/292	226	E-	E-		4
	707		69	15	14		
	GO:		29/	3.78	4.74		1
MF	0045 chemorepellent activity	11/292	226	E-	E-		1
	499		69	14	13		
	GO:		48/	7.67	9.24		1
MF	0032 tumor necrosis factor receptor superfamily binding	12/292	226	E-	E-		2
	813		69	13	12		

	GO:		22/	3.71	4.29	
MF	0030 semaphorin receptor binding	9/292	226	E-	E-	9
	215		69	12	11	
	GO:		15/	4.10	4.57	
MF	0045 CXCR chemokine receptor binding	8/292	226	E-	E-	8
	236		69	12	11	
	GO:		88/	1.04	1.12	1
MF	0042 hormone binding	13/292	226	E-	E-	3
	562		69	10	09	
	GO:		318	1.87	1.94	2
MF	0042 peptide binding	22/292	/22	E-	E-	2
	277		669	10	09	
	GO:		156	2.01	2.01	1
MF	0008 heparin binding	16/292	/22	E-	E-	6
	201		669	10	09	
	GO:		33/	2.54	2.47	
MF	0005 tumor necrosis factor receptor binding	9/292	226	E-	E-	9
	164		69	10	09	
	GO:		213	3.60	3.39	1
MF	0005 glycosaminoglycan binding	18/292	/22	E-	E-	8
	539		669	10	09	
	GO:		38/	1.01	9.25	
MF	0042 chemoattractant activity	9/292	226	E-	E-	9
	056		69	09	09	
	GO:		391	1.71	1.51	2
MF	0033 amide binding	23/292	/22	E-	E-	3
	218		669	09	08	
	GO:		56/	2.28	1.96	1
MF	0048 CCR chemokine receptor binding	10/292	226	E-	E-	0
	020		69	09	08	
	GO:		260	8.69	7.27	1
MF	1901 sulfur compound binding	18/292	/22	E-	E-	8
	681		669	09	08	
	GO:		34/	9.35	7.61	
MF	0071 neuropeptide receptor binding	8/292	226	E-	E-	8
	855		69	09	08	
	GO:		53/	2.33	1.84	
MF	0017 peptide hormone binding	9/292	226	E-	E-	9
	046		69	08	07	
	GO:		36/	3.32	2.56	
MF	0005 epidermal growth factor receptor binding	7/292	226	E-	E-	7
	154		69	07	06	

	GO:		181	6.91	5.20		1
MF	0051 hormone receptor binding	13/292	/22	E-	E-		3
	427		669	07	06		
	GO:		28/	1.29	9.23		
MF	0001 transcription coactivator binding	6/292	226	E-	E-		6
	223		69	06	06		
	GO:		28/	1.29	9.23		
MF	0005 neuropeptide hormone activity	6/292	226	E-	E-		6
	184		69	06	06		
	GO:		136	1.57	1.10		1
MF	0005 integrin binding	11/292	/22	E-	E-		1
	178		669	06	05		
	GO:		77/	6.71	4.59		
MF	0019 transmembrane receptor protein kinase activity	8/292	226	E-	E-		8
	199		69	06	05		
	GO:		59/	1.05	7.05		
MF	0001 transcription cofactor binding	7/292	226	E-	E-		7
	221		69	05	05		
	GO:		25/	1.47	9.65		
MF	0005 transforming growth factor beta receptor binding	5/292	226	E-	E-		5
	160		69	05	05		
	GO:		15/	3.29	0.00		
MF	0005 neurotrophin receptor binding	4/292	226	E-	021		4
	165		69	05	082		
	GO:		73/	4.31	0.00		
MF	0030 receptor tyrosine kinase binding	7/292	226	E-	027		7
	971		69	05	061		
	GO:		105	6.52	0.00		
MF	1990 protein tyrosine kinase binding	8/292	/22	E-	040		8
	782		669	05	04		
	GO:		324	8.73	0.00		1
MF	0044 ubiquitin-like protein ligase binding	14/292	/22	E-	051		4
	389		669	05	696		
	GO:		284	8.76	0.00		1
MF	0061 RNA polymerase II-specific DNA-binding transcription factor binding	13/292	/22	E-	051		3
	629		669	05	696		
	GO:		58/	0.00	0.00		
MF	0001 amyloid-beta binding	6/292	226	010	057		6
	540		69	008	943		
	GO:		20/	0.00	0.00		
MF	0005 death receptor binding	4/292	226	011	061		4
	123		69	104	903		

	GO:		20/	0.00	0.00	
MF	0051 peptide hormone receptor binding	4/292	226	011	061	4
	428		69	104	903	
	GO:		64/	0.00	0.00	
MF	0005 structural constituent of cytoskeleton	6/292	226	017	095	6
	200		69	381	135	
	GO:		306	0.00	0.00	
MF	0031 ubiquitin protein ligase binding	13/292	/22	018	098	1
	625		669	348	64	3
	GO:		23/	0.00	0.00	
MF	0051 misfolded protein binding	4/292	226	019	103	4
	787		69	685	969	
	GO:		10/	0.00	0.00	
MF	0034 type I transforming growth factor beta receptor binding	3/292	226	023	123	3
	713		69	739	217	
	GO:		130	0.00	0.00	
MF	0004 protein tyrosine kinase activity	8/292	/22	028	146	8
	713		669	794	922	
	GO:		26/	0.00	0.00	
MF	0044 protein folding chaperone	4/292	226	032	161	4
	183		69	239	762	
	GO:		284	0.00	0.00	
MF	0050 cell adhesion molecule binding	12/292	/22	033	167	1
	839		669	905	332	2
	GO:		76/	0.00	0.00	
MF	0038 cargo receptor activity	6/292	226	044	216	6
	024		69	556	348	
	GO:		29/	0.00	0.00	
MF	0005 insulin-like growth factor binding	4/292	226	049	237	4
	520		69	686	432	
	GO:		13/	0.00	0.00	
MF	0004 complement receptor activity	3/292	226	054	258	3
	875		69	978	611	
	GO:		14/	0.00	0.00	
MF	0044 S100 protein binding	3/292	226	069	317	3
	548		69	306	67	
	GO:		114	0.00	0.00	
MF	0016 nuclear receptor binding	7/292	/22	069	317	7
	922		669	643	67	
	GO:		32/	0.00	0.00	
MF	0033 receptor serine/threonine kinase binding	4/292	226	072	327	4
	612		69	98	923	

	GO:		85/	0.00	0.00	
MF	0003 double-stranded RNA binding	6/292	226	080	355	6
	725		69	946	657	
	GO:		152	0.00	0.00	
MF	0035 nuclear hormone receptor binding	8/292	/22	081	355	8
	257		669	515	657	
	GO:		119	0.00	0.00	
MF	0005 steroid binding	7/292	/22	089	386	7
	496		669	796	189	
	GO:		365	0.00	0.00	
MF	0140 DNA-binding transcription factor binding	13/292	/22	096	406	1
	297		669	858	335	3
	GO:		59/	0.00	0.00	
MF	0004 transmembrane receptor protein tyrosine kinase activity	5/292	226	097	406	5
	714		69	18	335	
	GO:		16/	0.00	0.00	
MF	0004 icosanoid receptor activity	3/292	226	104	425	3
	953		69	61	583	
	GO:		16/	0.00	0.00	
MF	0030 protein tyrosine kinase activator activity	3/292	226	104	425	3
	296		69	61	583	
	GO:		18/	0.00	0.00	
MF	0004 transmembrane receptor protein serine/threonine kinase activity	3/292	226	149	577	3
	675		69	554	228	
	GO:		18/	0.00	0.00	
MF	0016 protein-hormone receptor activity	3/292	226	149	577	3
	500		69	554	228	
	GO:		18/	0.00	0.00	
MF	0050 NAD(P)+ nucleosidase activity	3/292	226	149	577	3
	135		69	554	228	
	GO:		18/	0.00	0.00	
MF	0061 NAD+ nucleotidase, cyclic ADP-ribose generating	3/292	226	149	577	3
	809		69	554	228	
	GO:		40/	0.00	0.00	
MF	0008 neuropeptide receptor activity	4/292	226	171	652	4
	188		69	097	014	
	GO:		20/	0.00	0.00	
MF	0003 NAD+ nucleosidase activity	3/292	226	204	761	3
	953		69	997	914	
	GO:		20/	0.00	0.00	
MF	0035 glucocorticoid receptor binding	3/292	226	204	761	3
	259		69	997	914	

	GO:		45/	0.00	0.00		
MF	0001 phosphotyrosine residue binding	4/292	226	265	973	4	
	784		69	262	877		
	GO:		46/	0.00	0.01		
MF	0005 scavenger receptor activity	4/292	226	287	043	4	
	044		69	622	245		
	GO:		24/	0.00	0.01		
MF	0000 RNA polymerase II core promoter sequence-specific DNA binding	3/292	226	350	241	3	
	979		69	393	019		
	GO:		24/	0.00	0.01		
MF	0070 transmembrane receptor protein serine/threonine kinase binding	3/292	226	350	241	3	
	696		69	393	019		
	GO:		50/	0.00	0.01		
MF	0001 core promoter sequence-specific DNA binding	4/292	226	389	365	4	
	046		69	948	057		
	GO:		83/	0.00	0.01		
MF	0030 protein kinase activator activity	5/292	226	439	493	5	
	295		69	042	951		
	GO:		26/	0.00	0.01		
MF	0005 fibroblast growth factor receptor binding	3/292	226	441	493	3	
	104		69	656	951		
	GO:		26/	0.00	0.01		
MF	0017 fibroblast growth factor binding	3/292	226	441	493	3	
	134		69	656	951		
	GO:		27/	0.00	0.01		
MF	0015 coreceptor activity	3/292	226	492	628	3	
	026		69	18	264		
	GO:		27/	0.00	0.01		
MF	0042 neuropeptide binding	3/292	226	492	628	3	
	923		69	18	264		
	GO:		28/	0.00	0.01		
MF	0030 polysaccharide binding	3/292	226	546	786	3	
	247		69	049	843		
	GO:		90/	0.00	0.01		
MF	0019 kinase activator activity	5/292	226	618	997	5	
	209		69	119	15		
	GO:		57/	0.00	0.01		
MF	0045 protein phosphorylated amino acid binding	4/292	226	623	997	4	
	309		69	586	15		
	GO:		11/	0.00	0.02		
MF	0004 prostaglandin receptor activity	2/292	226	842	641	2	
	955		69	273	338		

	GO:		11/	0.00	0.02	
MF	0005	transforming growth factor beta-activated receptor activity	2/292	226	842	641 2
	024			69	273	338
	GO:		33/	0.00	0.02	
MF	0051	NF-kappaB binding	3/292	226	867	692 3
	059			69	466	297
	GO:		12/	0.01	0.02	
MF	0001	RNA polymerase II transcription cofactor binding	2/292	226	002	987 2
	224			69	188	241
	GO:		12/	0.01	0.02	
MF	0004	prostanoid receptor activity	2/292	226	002	987 2
	954			69	188	241
	GO:		12/	0.01	0.02	
MF	0017	semaphorin receptor activity	2/292	226	002	987 2
	154			69	188	241
	GO:		12/	0.01	0.02	
MF	0023	MHC protein complex binding	2/292	226	002	987 2
	023			69	188	241
	GO:		146	0.01	0.03	
MF	0031	heat shock protein binding	6/292	/22	174	378 6
	072			669	273	912
	GO:		13/	0.01	0.03	
MF	0036	phosphatidylinositol 3-kinase regulatory subunit binding	2/292	226	174	378 2
	312			69	408	912
	GO:		13/	0.01	0.03	
MF	0043	neurotrophin binding	2/292	226	174	378 2
	121			69	408	912
	GO:		37/	0.01	0.03	
MF	0016	hydrolase activity, hydrolyzing N-glycosyl compounds	3/292	226	189	378 3
	799			69	708	912
	GO:		37/	0.01	0.03	
MF	0017	sodium channel regulator activity	3/292	226	189	378 3
	080			69	708	912
	GO:		38/	0.01	0.03	
MF	0051	protein phosphatase 2A binding	3/292	226	279	600 3
	721			69	596	242
	GO:		14/	0.01	0.03	
MF	0005	platelet-derived growth factor receptor binding	2/292	226	358	718 2
	161			69	592	251
	GO:		14/	0.01	0.03	
MF	0048	activin binding	2/292	226	358	718 2
	185			69	592	251

	GO:		14/	0.01	0.03	
MF	0070 BMP receptor binding	2/292	226	358	718	2
	700		69	592	251	
	GO:		152	0.01	0.03	
MF	0002 protease binding	6/292	/22	409	823	6
	020		669	638	201	
	GO:		15/	0.01	0.04	
MF	0046 1-phosphatidylinositol-3-kinase regulator activity	2/292	226	554	178	2
	935		69	404	192	
	GO:		41/	0.01	0.04	
MF	0043 phosphatidylinositol 3-kinase binding	3/292	226	572	188	3
	548		69	034	185	
	GO:		202	0.01	0.04	
MF	0019 kinase regulator activity	7/292	/22	606	242	7
	207		669	511	494	
	GO:		159	0.01	0.04	
MF	0020 heme binding	6/292	/22	723	512	6
	037		669	616	165	
	GO:		16/	0.01	0.04	
MF	0005 vascular endothelial growth factor receptor binding	2/292	226	761	532	2
	172		69	518	561	
	GO:		16/	0.01	0.04	
MF	0008 adenylate cyclase binding	2/292	226	761	532	2
	179		69	518	561	
	GO:		17/	0.01	0.05	
MF	0005 interleukin-1 receptor binding	2/292	226	979	050	2
	149		69	611	568	
	GO:		45/	0.02	0.05	
MF	0004 non-membrane spanning protein tyrosine kinase activity	3/292	226	015	099	3
	715		69	658	322	
	GO:		168	0.02	0.05	
MF	0046 tetrapyrrole binding	6/292	/22	193	503	6
	906		669	88	945	
	GO:		84/	0.02	0.05	
MF	0051 unfolded protein binding	4/292	226	329	796	4
	082		69	738	477	
	GO:		19/	0.02	0.06	
MF	0001 transcription corepressor binding	2/292	226	447	039	2
	222		69	48	511	
	GO:		129	0.02	0.06	
MF	0047 protein N-terminus binding	5/292	/22	593	347	5
	485		669	519	853	

	GO:		20/	0.02	0.06	
MF	0035 phosphatidylinositol 3-kinase regulator activity	2/292	226	696	519	2
	014		69	645	036	
	GO:		88/	0.02	0.06	
MF	0035 steroid hormone receptor binding	4/292	226	706	519	4
	258		69	768	036	
	GO:		22/	0.03	0.07	
MF	0046 retinoid X receptor binding	2/292	226	223	703	2
	965		69	951	006	
	GO:		23/	0.03	0.08	
MF	0004 MAP kinase kinase kinase activity	2/292	226	501	171	2
	709		69	516	632	
	GO:		23/	0.03	0.08	
MF	0038 pattern recognition receptor activity	2/292	226	501	171	2
	187		69	516	632	
	GO:		23/	0.03	0.08	
MF	0050 transforming growth factor beta binding	2/292	226	501	171	2
	431		69	516	632	
	GO:		24/	0.03	0.08	
MF	0001 complement binding	2/292	226	787	772	2
	848		69	981	168	
	GO:		25/	0.04	0.09	
MF	0005 Notch binding	2/292	226	083	383	2
	112		69	074	36	
	GO:		61/	0.04	0.10	
MF	0050 extracellular matrix binding	3/292	226	405	047	3
	840		69	439	493	
	GO:		104	0.04	0.10	
MF	0051 phosphoprotein binding	4/292	/22	562	327	4
	219		669	398	232	
	GO: oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen	2/292	28/	0.05	0.11	
MF	0016		226	017	272	2
	702		69	46	533	
	GO: oxidoreductase activity, acting on single donors with incorporation of molecular oxygen	2/292	29/	0.05	0.11	
MF	0016		226	344	918	2
	701		69	433	19	
	GO:		67/	0.05	0.12	
MF	0035 glutamate receptor binding	3/292	226	548	281	3
	254		69	09	375	
	GO:		31/	0.06	0.13	
MF	0001 fibronectin binding	2/292	226	020	229	2
	968		69	157	081	

	GO:		32/	0.06	0.13	
MF	0035 histone acetyltransferase binding	2/292	226	368	793	2
	035		69	429	037	
	GO:		32/	0.06	0.13	
MF	0042 retinoic acid receptor binding	2/292	226	368	793	2
	974		69	429	037	
	GO:		73/	0.06	0.14	
MF	0070 repressing transcription factor binding	3/292	226	816	658	3
	491		69	89	877	
	GO:		223	0.06	0.14	
MF	0019 phosphatase binding	6/292	/22	937	714	6
	902		669	126	431	
	GO:		170	0.06	0.14	
MF	0019 protein kinase regulator activity	5/292	/22	940	714	5
	887		669	478	431	
	GO:		34/	0.07	0.14	
MF	0097 disordered domain specific binding	2/292	226	084	915	2
	718		69	632	015	
	GO:		176	0.07	0.16	
MF	0019 protein phosphatase binding	5/292	/22	789	284	5
	903		669	233	507	
	GO:		82/	0.08	0.18	
MF	0033 monocarboxylic acid binding	3/292	226	940	515	3
	293		69	358	86	
	GO:		39/	0.08	0.18	
MF	0035 ionotropic glutamate receptor binding	2/292	226	979	515	2
	255		69	545	86	
	GO:		40/	0.09	0.19	
MF	0042 actinin binding	2/292	226	374	069	2
	805		69	745	538	
	GO:		40/	0.09	0.19	
MF	0051 4 iron, 4 sulfur cluster binding	2/292	226	374	069	2
	539		69	745	538	
	GO:		85/	0.09	0.19	
MF	0033 activating transcription factor binding	3/292	226	702	488	3
	613		69	744	441	
	GO:		41/	0.09	0.19	
MF	0001 G-protein alpha-subunit binding	2/292	226	774	488	2
	965		69	884	441	
	GO:		41/	0.09	0.19	
MF	0043 cysteine-type endopeptidase regulator	2/292	226	774	488	2
	028 activity involved in apoptotic process		69	884	441	

	GO:		44/	0.11	0.21		
MF	0005 signal sequence binding	2/292	226	003	650	2	
	048		69	037	283		
	GO:		44/	0.11	0.21		
MF	0042 SH2 domain binding	2/292	226	003	650	2	
	169		69	037	283		
	GO:		143	0.11	0.22		
MF	0016 channel regulator activity	4/292	/22	369	225	4	
	247		669	138	383		
	GO:		93/	0.11	0.22		
MF	0003 single-stranded RNA binding	3/292	226	856	462	3	
	727		69	9	103		
	GO:		10/	0.12	0.22		
MF	0001 complement component C1q complex binding	1/292	226	161	462	1	
	849		69	737	103		
	GO:		10/	0.12	0.22		
MF	0005 iron ion transmembrane transporter activity	1/292	226	161	462	1	
	381		69	737	103		
	GO:		10/	0.12	0.22		
MF	0008 3'-5'-exodeoxyribonuclease activity	1/292	226	161	462	1	
	296		69	737	103		
	GO:		10/	0.12	0.22		
MF	0016 superoxide-generating NAD(P)H oxidase activity	1/292	226	161	462	1	
	175		69	737	103		
	GO:		10/	0.12	0.22		
MF	0034 U3 snoRNA binding	1/292	226	161	462	1	
	511		69	737	103		
	GO:		10/	0.12	0.22		
MF	0050 arachidonic acid binding	1/292	226	161	462	1	
	544		69	737	103		
	GO:		10/	0.12	0.22		
MF	0061 Lys63-specific deubiquitinase activity	1/292	226	161	462	1	
	578		69	737	103		
	GO:		10/	0.12	0.22		
MF	0070 activin receptor binding	1/292	226	161	462	1	
	697		69	737	103		
	GO:		148	0.12	0.22		
MF	0005 extracellular matrix structural constituent	4/292	/22	454	863	4	
	201		669	762	042		
	GO:		49/	0.13	0.23		
MF	0001 RNA polymerase II activating transcription factor binding	2/292	226	131	404	2	
	102		69	628	083		

	GO:		11/	0.13	0.23		
MF	0016	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amidines	1/292	226	293	404	1
	813			69	683	083	
	GO:		11/	0.13	0.23		
MF	0017	phospholipid scramblase activity	1/292	226	293	404	1
	128			69	683	083	
	GO:		11/	0.13	0.23		
MF	0032	bile acid binding	1/292	226	293	404	1
	052			69	683	083	
	GO:		11/	0.13	0.23		
MF	0043	insulin receptor substrate binding	1/292	226	293	404	1
	560			69	683	083	
	GO:		11/	0.13	0.23		
MF	0050	icosanoid binding	1/292	226	293	404	1
	542			69	683	083	
	GO:		11/	0.13	0.23		
MF	0050	icosatetraenoic acid binding	1/292	226	293	404	1
	543			69	683	083	
	GO:		12/	0.14	0.24		
MF	0005	profilin binding	1/292	226	411	717	1
	522			69	092	746	
	GO:		12/	0.14	0.24		
MF	0008	cysteine-type endopeptidase activator activity involved in apoptotic process	1/292	226	411	717	1
	656			69	092	746	
	GO:		12/	0.14	0.24		
MF	0031	protein tag	1/292	226	411	717	1
	386			69	092	746	
	GO:		12/	0.14	0.24		
MF	0033	sialic acid binding	1/292	226	411	717	1
	691			69	092	746	
	GO:		52/	0.14	0.24		
MF	0005	fatty acid binding	2/292	226	450	717	2
	504			69	375	746	
	GO:		53/	0.14	0.25		
MF	0004	peroxidase activity	2/292	226	895	335	2
	601			69	944	95	
	GO:		13/	0.15	0.25		
MF	0031	insulin-like growth factor I binding	1/292	226	514	522	1
	994			69	149	269	
	GO:		13/	0.15	0.25		
MF	0035	G protein-coupled glutamate receptor binding	1/292	226	514	522	1
	256			69	149	269	

	GO:		13/	0.15	0.25	
MF	0035 cAMP response element binding	1/292	226	514	522	1
	497		69	149	269	
	GO:		13/	0.15	0.25	
MF	0042 phosphate ion binding	1/292	226	514	522	1
	301		69	149	269	
	GO:		13/	0.15	0.25	
MF	0051 metal ion:proton antiporter activity	1/292	226	514	522	1
	139		69	149	269	
	GO:		13/	0.15	0.25	
MF	1901 catecholamine binding	1/292	226	514	522	1
	338		69	149	269	
	GO:		344	0.15	0.25	
MF	0001 DNA-binding transcription repressor activity, RNA polymerase II-specific	7/292	/22	742	565	7
	227		669	37	478	
	GO:		55/	0.15	0.25	
MF	0031 polyubiquitin modification-dependent protein binding	2/292	226	795	565	2
	593		69	175	478	
	GO:		55/	0.15	0.25	
MF	0032 sterol binding	2/292	226	795	565	2
	934		69	175	478	
	GO:		345	0.15	0.25	
MF	0001 DNA-binding transcription repressor activity	7/292	/22	904	604	7
	217		669	458	7	
	GO:		14/	0.16	0.25	
MF	0005 insulin-like growth factor receptor binding	1/292	226	603	898	1
	159		69	038	384	
	GO:		14/	0.16	0.25	
MF	0005 tropomyosin binding	1/292	226	603	898	1
	523		69	038	384	
	GO:		14/	0.16	0.25	
MF	0008 metalloendopeptidase inhibitor activity	1/292	226	603	898	1
	191		69	038	384	
	GO:		14/	0.16	0.25	
MF	0016 peptidase activator activity involved in apoptotic process	1/292	226	603	898	1
	505		69	038	384	
	GO:		14/	0.16	0.25	
MF	0036 BMP binding	1/292	226	603	898	1
	122		69	038	384	
	GO:		14/	0.16	0.25	
MF	0051 serotonin binding	1/292	226	603	898	1
	378		69	038	384	

	GO:		226	0.16	0.26	
MF	0031	carboxylic acid binding	5/292	/22	796	065 5
	406			669	999	88
	GO:			58/	0.17	0.26
MF	0016	oxidoreductase activity, acting on peroxide	2/292	226	162	226 2
	684	as acceptor		69	14	941
	GO:			58/	0.17	0.26
MF	0022	transmitter-gated ion channel activity	2/292	226	162	226 2
	824			69	14	941
	GO:			58/	0.17	0.26
MF	0022	transmitter-gated channel activity	2/292	226	162	226 2
	835			69	14	941
	GO:			15/	0.17	0.26
MF	0019	intermediate filament binding	1/292	226	677	743 1
	215			69	94	67
	GO:			15/	0.17	0.26
MF	0045	bioactive lipid receptor activity	1/292	226	677	743 1
	125			69	94	67
	GO:			16/	0.18	0.27
MF	0016	intramolecular oxidoreductase activity,	1/292	226	739	790 1
	863	transposing C=C bonds		69	035	324
	GO:			16/	0.18	0.27
MF	0043	amine binding	1/292	226	739	790 1
	176			69	035	324
	GO:			16/	0.18	0.27
MF	0048	receptor antagonist activity	1/292	226	739	790 1
	019			69	035	324
	GO:			16/	0.18	0.27
MF	0050	oxidoreductase activity, acting on NAD(P)H,	1/292	226	739	790 1
	664	oxygen as acceptor		69	035	324
	GO:			17/	0.19	0.29
MF	0001	opsonin binding	1/292	226	786	057 1
	846			69	499	451
	GO:			17/	0.19	0.29
MF	0016	palmitoyl-CoA hydrolase activity	1/292	226	786	057 1
	290			69	499	451
	GO:			241	0.20	0.29
MF	0043	organic acid binding	5/292	/22	069	330 5
	177			669	844	483
	GO:			18/	0.20	0.29
MF	0004	phosphatidylinositol phospholipase C activity	1/292	226	820	524 1
	435			69	506	214

	GO:		18/	0.20	0.29	
MF	0004 phospholipase C activity	1/292	226	820	524	1
	629		69	506	214	
	GO:		18/	0.20	0.29	
MF	0015 solute:proton antiporter activity	1/292	226	820	524	1
	299		69	506	214	
	GO:		122	0.20	0.29	
MF	0008 drug binding	3/292	722	827	524	3
	144		669	229	214	
	GO:		66/	0.20	0.29	
MF	0043 protein self-association	2/292	226	888	524	2
	621		69	897	214	
	GO:		66/	0.20	0.29	
MF	0051 iron-sulfur cluster binding	2/292	226	888	524	2
	536		69	897	214	
	GO:		66/	0.20	0.29	
MF	0051 metal cluster binding	2/292	226	888	524	2
	540		69	897	214	
	GO:		19/	0.21	0.30	
MF	0042 MHC class I protein binding	1/292	226	841	673	1
	288		69	23	131	
	GO:		186	0.21	0.30	
MF	0004 serine-type endopeptidase activity	4/292	722	905	673	4
	252		669	549	131	
	GO:		70/	0.22	0.30	
MF	0005 extracellular ligand-gated ion channel activity	2/292	226	782	985	2
	230		69	606	15	
	GO:		70/	0.22	0.30	
MF	1990 promoter-specific chromatin binding	2/292	226	782	985	2
	841		69	606	15	
	GO:		20/	0.22	0.30	
MF	0001 RNA polymerase II general transcription initiation factor binding	1/292	226	848	985	1
	091		69	84	15	
	GO:		20/	0.22	0.30	
MF	0008 structural constituent of muscle	1/292	226	848	985	1
	307		69	84	15	
	GO:		20/	0.22	0.30	
MF	0016 oxidoreductase activity, acting on the CH-NH2 group of donors, oxygen as acceptor	1/292	226	848	985	1
	641		69	84	15	
	GO:		20/	0.22	0.30	
MF	0036 long-chain fatty acid binding	1/292	226	848	985	1
	041		69	84	15	

	GO:		20/	0.22	0.30	
MF	0099 structural constituent of postsynapse	1/292	226	848	985	1
	186		69	84	15	
	GO:		21/	0.23	0.32	
MF	0004 exodeoxyribonuclease activity	1/292	226	843	045	1
	529		69	504	31	
	GO:		21/	0.23	0.32	
MF	0016 exodeoxyribonuclease activity, producing 5'- phosphomonoesters	1/292	226	843	045	1
	895		69	504	31	
	GO:		22/	0.24	0.32	
MF	0008 nuclear localization sequence binding	1/292	226	825	636	1
	139		69	387	455	
	GO:		22/	0.24	0.32	
MF	0019 immunoglobulin binding	1/292	226	825	636	1
	865		69	387	455	
	GO:		22/	0.24	0.32	
MF	0048 tau protein binding	1/292	226	825	636	1
	156		69	387	455	
	GO:		22/	0.24	0.32	
MF	0050 nitric-oxide synthase binding	1/292	226	825	636	1
	998		69	387	455	
	GO:		22/	0.24	0.32	
MF	0070 K63-linked polyubiquitin modification- dependent protein binding	1/292	226	825	636	1
	530		69	387	455	
	GO:		75/	0.25	0.32	
MF	0004 exonuclease activity	2/292	226	164	796	2
	527		69	848	293	
	GO:		75/	0.25	0.32	
MF	0043 ubiquitin binding	2/292	226	164	796	2
	130		69	848	293	
	GO:		23/	0.25	0.33	
MF	0016 oxidoreductase activity, acting on the CH- NH2 group of donors	1/292	226	794	472	1
	638		69	654	192	
	GO:		24/	0.26	0.33	
MF	0015 cation:cation antiporter activity	1/292	226	751	981	1
	491		69	466	431	
	GO:		24/	0.26	0.33	
MF	0031 G-protein beta-subunit binding	1/292	226	751	981	1
	681		69	466	431	
	GO:		24/	0.26	0.33	
MF	0051 glycolipid binding	1/292	226	751	981	1
	861		69	466	431	

	GO:		24/	0.26	0.33	
MF	0070 R-SMAD binding	1/292	226	751	981	1
	412		69	466	431	
	GO:		24/	0.26	0.33	
MF	0140 intramembrane lipid transporter activity	1/292	226	751	981	1
	303		69	466	431	
	GO:		140	0.26	0.34	
MF	0016 hydrolase activity, acting on glycosyl bonds	3/292	/22	975	120	3
	798		669	165	343	
	GO:		25/	0.27	0.34	
MF	0000 fatty-acyl-CoA binding	1/292	226	695	120	1
	062		69	982	343	
	GO:		25/	0.27	0.34	
MF	0005 structural constituent of eye lens	1/292	226	695	120	1
	212		69	982	343	
	GO:		25/	0.27	0.34	
MF	0009 cyclase activity	1/292	226	695	120	1
	975		69	982	343	
	GO:		25/	0.27	0.34	
MF	0016 phosphorus-oxygen lyase activity	1/292	226	695	120	1
	849		69	982	343	
	GO:		25/	0.27	0.34	
MF	0031 mitogen-activated protein kinase kinase	1/292	226	695	120	1
	435 kinase binding		69	982	343	
	GO:		25/	0.27	0.34	
MF	0048 mRNA 5'-UTR binding	1/292	226	695	120	1
	027		69	982	343	
	GO:		207	0.27	0.34	
MF	0008 serine-type peptidase activity	4/292	/22	767	120	4
	236		669	517	343	
	GO:		274	0.27	0.34	
MF	0030 carbohydrate binding	5/292	/22	897	140	5
	246		669	015	121	
	GO:		26/	0.28	0.34	
MF	0017 TBP-class protein binding	1/292	226	628	613	1
	025		69	36	025	
	GO:		26/	0.28	0.34	
MF	0019 oxygen binding	1/292	226	628	613	1
	825		69	36	025	
	GO:		26/	0.28	0.34	
MF	0047 acyl-CoA hydrolase activity	1/292	226	628	613	1
	617		69	36	025	

GO:		83/	0.28	0.34	
MF 0008 phosphoric diester hydrolase activity	2/292	226	984	903	2
081		69	927	954	
GO:		212	0.29	0.35	
MF 0017 serine hydrolase activity	4/292	722	201	022	4
171		669	658	562	
GO:		84/	0.29	0.35	
MF 0016 antioxidant activity	2/292	226	461	022	2
209		69	492	562	
GO:		84/	0.29	0.35	
MF 0046 SMAD binding	2/292	226	461	022	2
332		69	492	562	
GO:		27/	0.29	0.35	
MF 0046 sphingolipid binding	1/292	226	548	022	1
625		69	756	562	
GO:		28/	0.30	0.35	
MF 0016 CoA hydrolase activity	1/292	226	457	678	1
289		69	322	043	
GO:		28/	0.30	0.35	
MF 0043 cysteine-type endopeptidase inhibitor	1/292	226	457	678	1
027 activity involved in apoptotic process		69	322	043	
GO:		28/	0.30	0.35	
MF 0120 acyl-CoA binding	1/292	226	457	678	1
227		69	322	043	
GO:		29/	0.31	0.36	
MF 0015 solute:cation antiporter activity	1/292	226	354	586	1
298		69	211	31	
GO:		30/	0.32	0.37	
MF 0000 3'-5'-exoribonuclease activity	1/292	226	239	124	1
175		69	572	981	
GO:		30/	0.32	0.37	
MF 0001 lipopolysaccharide binding	1/292	226	239	124	1
530		69	572	981	
GO:		30/	0.32	0.37	
MF 0098 structural constituent of synapse	1/292	226	239	124	1
918		69	572	981	
GO:		90/	0.32	0.37	
MF 0008 beta-catenin binding	2/292	226	309	124	2
013		69	118	981	
GO:		31/	0.33	0.37	
MF 0030 snoRNA binding	1/292	226	113	904	1
515		69	553	647	

	GO:		92/	0.33	0.37	
MF	0051 dioxygenase activity	2/292	226	252	919	2
	213		69	345	34	
	GO:		93/	0.33	0.38	
MF	0004 phospholipase activity	2/292	226	722	310	2
	620		69	574	452	
	GO:		32/	0.33	0.38	
MF	0016 exoribonuclease activity, producing 5'- phosphomonoesters	1/292	226	976	453	1
	896		69	299	587	
	GO:		95/	0.34	0.39	
MF	0032 ubiquitin-like protein binding	2/292	226	659	080	2
	182		69	997	461	
	GO:		33/	0.34	0.39	
MF	0004 exoribonuclease activity	1/292	226	827	123	1
	532		69	954	31	
	GO:		34/	0.35	0.39	
MF	0030 receptor inhibitor activity	1/292	226	668	918	1
	547		69	661	752	
	GO:		35/	0.36	0.40	
MF	1901 fatty acid derivative binding	1/292	226	498	696	1
	567		69	559	249	
	GO:		100	0.36	0.41	
MF	0099 ligand-gated cation channel activity	2/292	/22	983	002	2
	094		669	501	256	
	GO:		36/	0.37	0.41	
MF	0016 peptidase activator activity	1/292	226	317	002	1
	504		69	788	256	
	GO:		36/	0.37	0.41	
MF	0030 cyclic nucleotide binding	1/292	226	317	002	1
	551		69	788	256	
	GO:		36/	0.37	0.41	
MF	0042 MHC protein binding	1/292	226	317	002	1
	287		69	788	256	
	GO:		38/	0.38	0.42	
MF	0043 proteoglycan binding	1/292	226	924	457	1
	394		69	781	999	
	GO:		38/	0.38	0.42	
MF	0046 transition metal ion transmembrane transporter activity	1/292	226	924	457	1
	915		69	781	999	
	GO:		39/	0.39	0.43	
MF	0004 protein serine/threonine/tyrosine kinase activity	1/292	226	712	161	1
	712		69	813	18	

	GO:		40/	0.40	0.43	
MF	0004 carboxypeptidase activity	1/292	226	490	848	1
	180		69	712	329	
	GO:		41/	0.41	0.44	
MF	0005 frizzled binding	1/292	226	258	360	1
	109		69	608	759	
	GO:		41/	0.41	0.44	
MF	0017 snRNA binding	1/292	226	258	360	1
	069		69	608	759	
	GO:		111	0.41	0.44	
MF	0030 neurotransmitter receptor activity	2/292	/22	971	554	2
	594		669	405	011	
	GO:		42/	0.42	0.44	
MF	0043 protein serine/threonine kinase activator activity	1/292	226	016	554	1
	539		69	629	011	
	GO:		42/	0.42	0.44	
MF	0051 mitogen-activated protein kinase binding	1/292	226	016	554	1
	019		69	629	011	
	GO:		404	0.42	0.44	
MF	0016 ATPase activity	6/292	/22	030	554	6
	887		669	322	011	
	GO:		114	0.43	0.45	
MF	0004 ribonuclease activity	2/292	/22	297	633	2
	540		669	294	651	
	GO:		44/	0.43	0.45	
MF	0004 aminopeptidase activity	1/292	226	503	633	1
	177		69	548	651	
	GO:		44/	0.43	0.45	
MF	0048 beta-tubulin binding	1/292	226	503	633	1
	487		69	548	651	
	GO:		46/	0.44	0.46	
MF	0140 general transcription initiation factor binding	1/292	226	952	989	1
	296		69	465	784	
	GO:		47/	0.45	0.47	
MF	0005 phospholipid transporter activity	1/292	226	662	403	1
	548		69	975	307	
	GO:		47/	0.45	0.47	
MF	0070 E-box binding	1/292	226	662	403	1
	888		69	975	307	
	GO:		48/	0.46	0.47	
MF	0030 estrogen receptor binding	1/292	226	364	638	1
	331		69	346	595	

GO:		48/	0.46	0.47	
MF 0050 NADP binding	1/292	226	364	638	1
661		69	346	595	
GO:		48/	0.46	0.47	
MF 0051 Hsp90 protein binding	1/292	226	364	638	1
879		69	346	595	
GO:		197	0.46	0.47	
MF 0004 nuclease activity	3/292	/22	725	818	3
518		669	871	06	
GO:		49/	0.47	0.47	
MF 0008 3'-5' exonuclease activity	1/292	226	056	818	1
408		69	695	06	
GO:		49/	0.47	0.47	
MF 0015 potassium channel regulator activity	1/292	226	056	818	1
459		69	695	06	
GO:		123	0.47	0.47	
MF 0042 histone deacetylase binding	2/292	/22	174	818	2
826		669	355	06	
GO:		50/	0.47	0.47	
MF 0016 thiolester hydrolase activity	1/292	226	740	907	1
790		69	136	645	
GO:		50/	0.47	0.47	
MF 0016 intramolecular oxidoreductase activity	1/292	226	740	907	1
860		69	136	645	
GO:		50/	0.47	0.47	
MF 0030 Hsp70 protein binding	1/292	226	740	907	1
544		69	136	645	
GO:		51/	0.48	0.48	
MF 0016 transferase activity, transferring pentosyl groups	1/292	226	414	103	1
763		69	785	625	
GO: exonuclease activity, active with either ribo-		51/	0.48	0.48	
MF 0016 or deoxyribonucleic acids and producing 5'-	1/292	226	414	103	1
796 phosphomonoesters		69	785	625	
GO:		51/	0.48	0.48	
MF 0030 nuclear receptor transcription coactivator activity	1/292	226	414	103	1
374		69	785	625	
GO:		128	0.49	0.48	
MF 0016 lipase activity	2/292	/22	258	781	2
298		669	662	085	
GO:		439	0.49	0.49	
MF 0004 protein serine/threonine kinase activity	6/292	/22	918	272	6
674		669	803	744	

	GO:		131	0.50	0.49		
MF	0016	hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds	2/292	/22	484	667	2
	810			669	156	934	
	GO:		132	0.50	0.49		
MF	0015	ligand-gated ion channel activity	2/292	/22	888	876	2
	276			669	385	686	
	GO:		55/	0.51	0.49		
MF	0035	signaling adaptor activity	1/292	226	027	876	1
	591			69	686	686	
	GO:		290	0.51	0.50		
MF	0046	protein heterodimerization activity	4/292	/22	519	168	4
	982			669	038	998	
	GO:		56/	0.51	0.50		
MF	0016	hydro-lyase activity	1/292	226	660	168	1
	836			69	034	998	
	GO:		213	0.51	0.50		
MF	0004	endopeptidase inhibitor activity	3/292	/22	901	241	3
	866			669	782	698	
	GO:		135	0.52	0.50		
MF	0022	ligand-gated channel activity	2/292	/22	088	260	2
	834			669	094	441	
	GO:		58/	0.52	0.50		
MF	0004	deoxyribonuclease activity	1/292	226	900	881	1
	536			69	422	186	
	GO:		59/	0.53	0.51		
MF	0001	basal transcription machinery binding	1/292	226	508	139	1
	098			69	669	446	
	GO:		59/	0.53	0.51		
MF	0001	basal RNA polymerase II transcription machinery binding	1/292	226	508	139	1
	099			69	669	446	
	GO:		219	0.53	0.51		
MF	0030	peptidase inhibitor activity	3/292	/22	772	228	3
	414			669	125	607	
	GO:		460	0.54	0.51		
MF	0008	enzyme activator activity	6/292	/22	475	530	6
	047			669	166	182	
	GO:		61/	0.54	0.51		
MF	0004	endoribonuclease activity	1/292	226	701	530	1
	521			69	779	182	
	GO:		61/	0.54	0.51		
MF	0005	copper ion binding	1/292	226	701	530	1
	507			69	779	182	

	GO:		223	0.54	0.51
MF	0061 endopeptidase regulator activity	3/292	/22	995	530 3
	135		669	829	182
	GO:		143	0.55	0.51
MF	0044 ion channel binding	2/292	/22	190	530 2
	325		669	385	182
	GO:		62/	0.55	0.51
MF	0030 manganese ion binding	1/292	226	286	530 1
	145		69	841	182
	GO:		62/	0.55	0.51
MF	0043 ribosome binding	1/292	226	286	530 1
	022		69	841	182
	GO:		63/	0.55	0.51
MF	0005 protein kinase C binding	1/292	226	864	907 1
	080		69	372	766
	GO:		146	0.56	0.52
MF	0043 ribonucleoprotein complex binding	2/292	/22	316	115 2
	021		669	8	783
	GO:		64/	0.56	0.52
MF	0008 G protein-coupled amine receptor activity	1/292	226	434	115 1
	227		69	468	783
	GO:		65/	0.56	0.52
MF	0001 RNA polymerase II transcription factor binding	1/292	226	997	474 1
	085		69	226	51
	GO:		150	0.57	0.53
MF	0004 helicase activity	2/292	/22	786	039 2
	386		669	969	388
	GO:		67/	0.58	0.53
MF	0016 carbon-oxygen lyase activity	1/292	226	101	165 1
	835		69	099	62
	GO:		69/	0.59	0.53
MF	0004 cysteine-type endopeptidase inhibitor activity	1/292	226	176	985 1
	869		69	731	79
	GO:		70/	0.59	0.54
MF	0016 amino acid binding	1/292	226	704	302 1
	597		69	182	421
	GO:		71/	0.60	0.54
MF	0005 collagen binding	1/292	226	224	610 1
	518		69	842	985
	GO:		73/	0.61	0.54
MF	0005 Rho guanyl-nucleotide exchange factor activity	1/292	226	246	926 1
	089		69	132	771

GO:		73/	0.61	0.54	
MF 0005 chloride channel activity	1/292	226	246	926	1
254		69	132	771	
GO:		73/	0.61	0.54	
MF 0017 myosin binding	1/292	226	246	926	1
022		69	132	771	
GO:		160	0.61	0.54	
MF 0008 cysteine-type peptidase activity	2/292	/22	302	926	2
234		669	886	771	
GO:		74/	0.61	0.54	
MF 0015 antiporter activity	1/292	226	746	997	1
297		69	935	27	
GO:		74/	0.61	0.54	
MF 0097 scaffold protein binding	1/292	226	746	997	1
110		69	935	27	
GO:		254	0.63	0.56	
MF 0061 peptidase regulator activity	3/292	/22	799	658	3
134		669	801	106	
GO:		80/	0.64	0.57	
MF 0016 hydrolase activity, acting on carbon-nitrogen (but not peptide) bonds, in linear amides	1/292	226	619	216	1
811		69	163	968	
GO:		82/	0.65	0.57	
MF 0048 monosaccharide binding	1/292	226	527	851	1
029		69	982	529	
GO:		83/	0.65	0.57	
MF 0005 anion channel activity	1/292	226	973	905	1
253		69	629	349	
GO:		83/	0.65	0.57	
MF 0016 oxidoreductase activity, acting on NAD(P)H	1/292	226	973	905	1
651		69	629	349	
GO:		89/	0.68	0.59	
MF 0048 calcium-dependent protein binding	1/292	226	529	973	1
306		69	482	782	
GO:		91/	0.69	0.60	
MF 0008 exopeptidase activity	1/292	226	338	505	1
238		69	178	626	
GO:		453	0.69	0.60	
MF 0004 endopeptidase activity	5/292	/22	655	606	5
175		669	6	941	
GO:		188	0.69	0.60	
MF 0016 lyase activity	2/292	/22	948	686	2
829		669	571	46	

	GO:		94/	0.70	0.60	
MF	0031 chromatin DNA binding	1/292	226	512	999	1
	490		69	553	97	
	GO:		192	0.71	0.61	
MF	0140 modification-dependent protein binding	2/292	/22	043	283	2
	030		669	961	586	
	GO:		96/	0.71	0.61	
MF	0004 cysteine-type endopeptidase activity	1/292	226	270	303	1
	197		69	456	31	
	GO:		97/	0.71	0.61	
MF	0051 ATPase binding	1/292	226	642	447	1
	117		69	096	412	
	GO:		99/	0.72	0.61	
MF	0004 thiol-dependent ubiquitin-specific protease activity	1/292	226	371	896	1
	843		69	064	305	
	GO:		100	0.72	0.62	
MF	0101 ubiquitinyl hydrolase activity	1/292	/22	728	025	1
	005		669	514	809	
	GO:		102	0.73	0.62	
MF	0015 chloride transmembrane transporter activity	1/292	/22	429	270	1
	108		669	647	953	
	GO:		102	0.73	0.62	
MF	0051 chaperone binding	1/292	/22	429	270	1
	087		669	647	953	
	GO:		208	0.75	0.63	
MF	0003 antigen binding	2/292	/22	096	334	2
	823		669	468	795	
	GO:		107	0.75	0.63	
MF	0008 omega peptidase activity	1/292	/22	104	334	1
	242		669	88	795	
	GO:		110	0.76	0.63	
MF	0099 ion channel regulator activity	1/292	/22	059	949	1
	106		669	053	868	
	GO: oxidoreductase activity, acting on paired		213	0.76	0.63	
MF	0016 donors, with incorporation or reduction of	2/292	/22	259	949	2
	705 molecular oxygen		669	099	868	
	GO:		112	0.76	0.64	
MF	0015 proton transmembrane transporter activity	1/292	/22	674	119	1
	078		669	83	887	
	GO:		222	0.78	0.65	
MF	0030 protein-macromolecule adaptor activity	2/292	/22	233	242	2
	674		669	743	311	

	GO:		121	0.79	0.65	
MF	0004 endonuclease activity	1/292	/22	256	912	1
	519		669	217	411	
	GO:		232	0.80	0.66	
MF	0003 transcription coactivator activity	2/292	/22	257	421	2
	713		669	834	914	
	GO:		125	0.80	0.66	
MF	0005 Ras guanyl-nucleotide exchange factor activity	1/292	/22	310	421	1
	088		669	133	914	
	GO:		129	0.81	0.66	
MF	0004 serine-type endopeptidase inhibitor activity	1/292	/22	310	881	1
	867		669	677	949	
	GO:		129	0.81	0.66	
MF	0017 SH3 domain binding	1/292	/22	310	881	1
	124		669	677	949	
	GO:		441	0.82	0.67	
MF	0003 transcription coregulator activity	4/292	/22	246	467	4
	712		669	731	561	
	GO:		136	0.82	0.67	
MF	0015 inorganic anion transmembrane transporter activity	1/292	/22	941	843	1
	103		669	23	021	
	GO:		137	0.83	0.67	
MF	0019 vitamin binding	1/292	/22	162	843	1
	842		669	291	021	
	GO:		138	0.83	0.67	
MF	0005 lipid transporter activity	1/292	/22	380	843	1
	319		669	497	021	
	GO:		265	0.85	0.69	
MF	0042 histone binding	2/292	/22	801	624	2
	393		669	31	556	
	GO:		153	0.86	0.69	
MF	0016 isomerase activity	1/292	/22	334	869	1
	853		669	886	206	
	GO:		379	0.86	0.69	
MF	0019 guanyl nucleotide binding	3/292	/22	890	942	3
	001		669	01	423	
	GO:		379	0.86	0.69	
MF	0032 guanyl ribonucleotide binding	3/292	/22	890	942	3
	561		669	01	423	
	GO:		163	0.88	0.70	
MF	0017 Rab GTPase binding	1/292	/22	007	652	1
	137		669	444	994	

GO:		392	0.88	0.70	
MF 0004 enzyme inhibitor activity	3/292	/22	320	685	3
857		669	571	211	
GO:		168	0.88	0.70	
MF 0017 Rho GTPase binding	1/292	/22	765	685	1
048		669	559	211	
GO:		176	0.89	0.70	
MF 0003 transcription corepressor activity	1/292	/22	880	685	1
714		669	435	211	
GO:		299	0.89	0.70	
MF 0061 ubiquitin protein ligase activity	2/292	/22	994	685	2
630		669	71	211	
GO:		418	0.90	0.70	
MF 0004 ubiquitin-protein transferase activity	3/292	/22	771	685	3
842		669	938	211	
GO:		307	0.90	0.70	
MF 0061 ubiquitin-like protein ligase activity	2/292	/22	798	685	2
659		669	14	211	
GO:		184	0.90	0.70	
MF 0140 catalytic activity, acting on DNA	1/292	/22	885	685	1
097		669	015	211	
GO:		421	0.91	0.70	
MF 0005 ion channel activity	3/292	/22	022	685	3
216		669	689	211	
GO:		424	0.91	0.70	
MF 0031 small GTPase binding	3/292	/22	267	685	3
267		669	263	211	
GO:		316	0.91	0.70	
MF 0060 molecular adaptor activity	2/292	/22	629	685	2
090		669	862	211	
GO:		192	0.91	0.70	
MF 0005 calmodulin binding	1/292	/22	790	685	1
516		669	177	211	
GO:		434	0.92	0.70	
MF 0003 actin binding	3/292	/22	039	685	3
779		669	52	211	
GO:		435	0.92	0.70	
MF 0019 ubiquitin-like protein transferase activity	3/292	/22	113	685	3
787		669	225	211	
GO:		323	0.92	0.70	
MF 0022 gated channel activity	2/292	/22	227	685	2
836		669	513	211	

	GO:		197	0.92	0.70	
MF	0000 magnesium ion binding	1/292	/22	309	685	1
	287		669	817	211	
	GO:		199	0.92	0.70	
MF	0016 transferase activity, transferring hexosyl groups	1/292	/22	508	685	1
	758		669	374	211	
	GO:		327	0.92	0.70	
MF	0005 cation channel activity	2/292	/22	550	685	2
	261		669	794	211	
	GO:		201	0.92	0.70	
MF	0005 guanyl-nucleotide exchange factor activity	1/292	/22	701	685	1
	085		669	822	211	
	GO:		332	0.92	0.70	
MF	0140 catalytic activity, acting on RNA	2/292	/22	937	685	2
	098		669	119	211	
	GO:		210	0.93	0.70	
MF	0051 actin filament binding	1/292	/22	512	685	1
	015		669	544	211	
	GO:		461	0.93	0.70	
MF	0015 channel activity	3/292	/22	823	685	3
	267		669	863	211	
	GO:		461	0.93	0.70	
MF	0022 passive transmembrane transporter activity	3/292	/22	823	685	3
	803		669	863	211	
	GO:		218	0.94	0.70	
MF	0022 active ion transmembrane transporter activity	1/292	/22	157	685	1
	853		669	491	211	
	GO:		355	0.94	0.70	
MF	0005 GTP binding	2/292	/22	483	685	2
	525		669	075	211	
	GO:		357	0.94	0.70	
MF	0042 phosphoric ester hydrolase activity	2/292	/22	601	685	2
	578		669	149	211	
	GO:		362	0.94	0.70	
MF	0032 purine ribonucleoside binding	2/292	/22	885	685	2
	550		669	922	211	
	GO:		365	0.95	0.70	
MF	0032 ribonucleoside binding	2/292	/22	049	685	2
	549		669	868	211	
	GO:		231	0.95	0.70	
MF	0015 secondary active transmembrane transporter activity	1/292	/22	072	685	1
	291		669	036	211	

	GO:		366	0.95	0.70	
MF	0001 purine nucleoside binding	2/292	/22	103	685	2
	883		669	397	211	
	GO:		233	0.95	0.70	
MF	0008 protein C-terminus binding	1/292	/22	199	685	1
	022		669	465	211	
	GO:		238	0.95	0.70	
MF	0005 GTPase activator activity	1/292	/22	503	685	1
	096		669	856	211	
	GO:		375	0.95	0.70	
MF	0001 nucleoside binding	2/292	/22	560	685	2
	882		669	968	211	
	GO:		258	0.96	0.71	
MF	0030 GTPase regulator activity	1/292	/22	540	084	1
	695		669	773	035	
	GO:		260	0.96	0.71	
MF	0008 microtubule binding	1/292	/22	630	084	1
	017		669	331	035	
	GO:		409	0.96	0.71	
MF	0017 Ras GTPase binding	2/292	/22	947	084	2
	016		669	605	035	
	GO:		270	0.97	0.71	
MF	0016 transferase activity, transferring glycosyl groups	1/292	/22	044	084	1
	757		669	621	035	
	GO:		296	0.97	0.71	
MF	0003 GTPase activity	1/292	/22	899	402	1
	924		669	317	536	
	GO:		298	0.97	0.71	
MF	0060 nucleoside-triphosphatase regulator activity	1/292	/22	953	402	1
	589		669	794	536	
	GO:		336	0.98	0.71	
MF	0008 anion transmembrane transporter activity	1/292	/22	758	419	1
	509		669	517	849	
	GO:		341	0.98	0.71	
MF	0022 active transmembrane transporter activity	1/292	/22	837	419	1
	804		669	59	849	
	GO:		345	0.98	0.71	
MF	0003 mRNA binding	1/292	/22	897	419	1
	729		669	218	849	
	GO:		361	0.99	0.71	
MF	0015 monovalent inorganic cation transmembrane transporter activity	1/292	/22	106	419	1
	077		669	758	849	

GO:		366	0.99	0.71
MF 0015 tubulin binding	1/292	/22	163	419 1
631		669	713	849
GO:		426	0.99	0.71
MF 0046 metal ion transmembrane transporter activity	1/292	/22	621	578 1
873		669	133	053

Table S9 Significant Enrichment Results of KEGG of FRGs

ID	Description	GeneRatio	BgRatio	pvalue	qvalue	Count
mmu04216	Ferroptosis	9/48	40/8939	4.06E-13	4.70E-11	9
mmu04140	Autophagy - animal	7/48	142/8939	9.41E-06	0.0005445	7
mmu04657	IL-17 signaling pathway	5/48	91/8939	0.00011867	0.00449769	5
mmu01210	2-Oxocarboxylic acid metabolism	3/48	20/8939	0.00015537	0.00449769	3
mmu04668	TNF signaling pathway	5/48	113/8939	0.00032794	0.00659257	5
mmu04066	HIF-1 signaling pathway	5/48	114/8939	0.00034161	0.00659257	5
mmu05230	Central carbon metabolism in cancer	4/48	69/8939	0.00048984	0.00680123	4
mmu01523	Antifolate resistance	3/48	30/8939	0.00053288	0.00680123	3
mmu00480	Glutathione metabolism	4/48	72/8939	0.0005761	0.00680123	4
mmu00020	Citrate cycle (TCA cycle)	3/48	32/8939	0.00064612	0.00680123	3
mmu04136	Autophagy - other	3/48	32/8939	0.00064612	0.00680123	3

	Kaposi sarcoma-					
mmu05167	associated herpesvirus infection	6/48	224/8939	0.00117885	0.01137491	6
mmu04064	NF-kappa B signaling pathway	4/48	105/8939	0.00235195	0.02040769	4
mmu05146	Amoebiasis	4/48	107/8939	0.00251931	0.02040769	4
mmu04931	Insulin resistance	4/48	110/8939	0.00278546	0.02040769	4
mmu00270	Cysteine and methionine metabolism	3/48	53/8939	0.00281997	0.02040769	3
mmu05134	Legionellosis	3/48	61/8939	0.00420438	0.02863667	3
mmu05206	MicroRNAs in cancer	6/48	303/8939	0.00534251	0.03350613	6
mmu04137	Mitophagy - animal	3/48	68/8939	0.00570315	0.03350613	3
mmu05417	Lipid and atherosclerosis	5/48	216/8939	0.00578742	0.03350613	5
mmu04920	Adipocytokine signaling pathway	3/48	71/8939	0.0064316	0.03546246	3
mmu05162	Measles	4/48	146/8939	0.00761413	0.04007435	4
mmu05418	Fluid shear stress and atherosclerosis	4/48	148/8939	0.00798205	0.04018422	4
mmu01230	Biosynthesis of amino acids	3/48	79/8939	0.00863661	0.04166785	3

mmu04146	Peroxisome	3/48	86/8939	0.01088889	0.05043277	3
mmu03320	PPAR signaling pathway	3/48	89/8939	0.01194874	0.05216797	3
	Pathways of					
mmu05022	neurodegeneration - multiple diseases	7/48	471/8939	0.01216462	0.05216797	7
	Glyoxylate and					
mmu00630	dicarboxylate metabolism	2/48	32/8939	0.01263966	0.05226926	2
mmu04217	Necroptosis	4/48	176/8939	0.01440882	0.05753067	4
mmu04659	Th17 cell differentiation	3/48	105/8939	0.01858379	0.07172691	3
	C-type lectin receptor					
mmu04625	signaling pathway	3/48	112/8939	0.02201517	0.08222984	3
	NOD-like receptor					
mmu04621	signaling pathway	4/48	211/8939	0.02613582	0.09439954	4
mmu01200	Carbon metabolism	3/48	121/8939	0.02690387	0.09439954	3
mmu04726	Serotonergic synapse	3/48	131/8939	0.03296401	0.11197638	3
mmu04978	Mineral absorption	2/48	54/8939	0.03384741	0.11197638	2
	Epstein-Barr virus					
mmu05169	infection	4/48	231/8939	0.03483813	0.11205246	4
mmu04370	VEGF signaling pathway	2/48	58/8939	0.03857466	0.11780677	2
mmu04936	Alcoholic liver disease	3/48	141/8939	0.03967946	0.11780677	3

mmu05017	Spinocerebellar ataxia	3/48	141/8939	0.03967946	0.11780677	3
mmu01212	Fatty acid metabolism	2/48	62/8939	0.04353846	0.12067683	2
mmu05321	Inflammatory bowel disease	2/48	62/8939	0.04353846	0.12067683	2
mmu05166	Human T-cell leukemia virus 1 infection	4/48	250/8939	0.04450506	0.12067683	4
mmu04623	Cytosolic DNA-sensing pathway	2/48	63/8939	0.04481499	0.12067683	2
mmu04150	mTOR signaling pathway	3/48	156/8939	0.05095623	0.13226261	3
mmu05211	Renal cell carcinoma	2/48	68/8939	0.05140206	0.13226261	2
mmu05010	Alzheimer disease	5/48	383/8939	0.05335479	0.13335257	5
mmu05140	Leishmaniasis	2/48	70/8939	0.05412902	0.13335257	2
mmu04918	Thyroid hormone synthesis	2/48	74/8939	0.05973335	0.1440936	2
mmu05133	Pertussis	2/48	77/8939	0.06406295	0.14941598	2
mmu04141	Protein processing in endoplasmic reticulum	3/48	172/8939	0.06452054	0.14941598	3
mmu00430	Taurine and hypotaurine metabolism	1/48	13/8939	0.06764507	0.15358014	1

mmu04218	Cellular senescence	3/48	184/8939	0.07568383	0.16852674	3
mmu00590	Arachidonic acid metabolism	2/48	86/8939	0.07765543	0.16965436	2
mmu05323	Rheumatoid arthritis	2/48	87/8939	0.07921824	0.16986367	2
mmu05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	2/48	88/8939	0.08079101	0.17008634	2
mmu04211	Longevity regulating pathway	2/48	90/8939	0.08396584	0.17361357	2
mmu05222	Small cell lung cancer	2/48	93/8939	0.08879913	0.17841483	2
mmu04640	Hematopoietic cell lineage	2/48	94/8939	0.0904286	0.17841483	2
mmu04061	Viral protein interaction with cytokine and cytokine receptor	2/48	95/8939	0.09206703	0.17841483	2
mmu00120	Primary bile acid biosynthesis	1/48	18/8939	0.09245132	0.17841483	1
mmu00061	Fatty acid biosynthesis	1/48	19/8939	0.09733444	0.18434349	1
mmu05215	Prostate cancer	2/48	99/8939	0.09870756	0.18434349	2
mmu04620	Toll-like receptor signaling pathway	2/48	100/8939	0.10038872	0.18450725	2

AGE-RAGE signaling

mmu04933 pathway in diabetic complications	2/48	101/8939	0.10207802	0.18468063	2
mmu05142 Chagas disease	2/48	103/8939	0.10548053	0.18790055	2

Table S10 Significant Enrichment Results of KEGG of IRGs

ID	Description	GeneRatio	BgRatio	pvalue	p.adjust	qvalue	Count
mmu04060	Cytokine-cytokine receptor interaction	89/259	292/8939	6.35E-70	1.42E-67	8.09E-68	89
mmu04061	Viral protein interaction with cytokine and cytokine receptor	39/259	95/8939	1.01E-35	1.13E-33	6.41E-34	39
mmu05323	Rheumatoid arthritis	25/259	87/8939	9.79E-19	7.31E-17	4.15E-17	25
mmu04062	Chemokine signaling pathway	33/259	192/8939	5.69E-17	2.94E-15	1.67E-15	33
mmu04630	JAK-STAT signaling pathway	31/259	168/8939	6.57E-17	2.94E-15	1.67E-15	31
mmu04668	TNF signaling pathway	25/259	113/8939	9.01E-16	3.36E-14	1.91E-14	25
mmu04657	IL-17 signaling pathway	22/259	91/8939	7.09E-15	2.27E-13	1.29E-13	22
mmu05321	Inflammatory bowel disease	18/259	62/8939	6.80E-14	1.90E-12	1.08E-12	18
mmu04659	Th17 cell differentiation	22/259	105/8939	1.71E-13	4.26E-12	2.42E-12	22
mmu04010	MAPK signaling pathway	35/259	294/8939	6.30E-13	1.41E-11	8.02E-12	35
mmu04064	NF-kappa B signaling pathway	21/259	105/8939	1.63E-12	3.32E-11	1.89E-11	21
mmu04080	Neuroactive ligand-receptor interaction	39/259	376/8939	2.26E-12	4.22E-11	2.40E-11	39
mmu04620	Toll-like receptor signaling pathway	20/259	100/8939	5.65E-12	9.73E-11	5.53E-11	20

mmu04380	Osteoclast differentiation	22/259	128/893 9	1.16E-11	1.85E-10	1.05E-10	22
mmu05417	Lipid and atherosclerosis	28/259	216/893 9	1.99E-11	2.97E-10	1.69E-10	28
mmu05144	Malaria	15/259	57/8939	4.22E-11	5.91E-10	3.36E-10	15
mmu04672	Intestinal immune network for IgA production	12/259	43/8939	1.87E-09	2.47E-08	1.40E-08	12
mmu04660	T cell receptor signaling pathway	17/259	103/893 9	5.23E-09	6.50E-08	3.70E-08	17
mmu04151	PI3K-Akt signaling pathway	32/259	359/893 9	1.16E-08	1.36E-07	7.76E-08	32
mmu05134	Legionellosis	13/259	61/8939	1.43E-08	1.60E-07	9.09E-08	13
mmu05164	Influenza A	21/259	173/893 9	2.41E-08	2.57E-07	1.46E-07	21
mmu05167	Kaposi sarcoma-associated herpesvirus infection	24/259	224/893 9	2.77E-08	2.82E-07	1.61E-07	24
mmu04625	C-type lectin receptor signaling pathway	16/259	112/893 9	1.23E-07	1.19E-06	6.79E-07	16
mmu04933	AGE-RAGE signaling pathway in diabetic complications	15/259	101/893 9	1.82E-07	1.70E-06	9.65E-07	15
mmu04658	Th1 and Th2 cell differentiation	14/259	88/8939	1.96E-07	1.70E-06	9.67E-07	14
mmu05162	Measles	18/259	146/893 9	1.97E-07	1.70E-06	9.67E-07	18
mmu05146	Amoebiasis	15/259	107/893 9	3.95E-07	3.27E-06	1.86E-06	15
mmu05145	Toxoplasmosis	15/259	110/893 9	5.69E-07	4.55E-06	2.59E-06	15
mmu05142	Chagas disease	14/259	103/893 9	1.42E-06	1.10E-05	6.24E-06	14
mmu04640	Hematopoietic cell lineage	13/259	94/8939	2.79E-06	2.08E-05	1.18E-05	13
mmu05161	Hepatitis B	17/259	163/893 9	4.59E-06	3.16E-05	1.79E-05	17
mmu04622	RIG-I-like receptor signaling pathway	11/259	70/8939	4.65E-06	3.16E-05	1.79E-05	11
mmu05140	Leishmaniasis	11/259	70/8939	4.65E-06	3.16E-05	1.79E-05	11
mmu05418	Fluid shear stress and atherosclerosis	16/259	148/893 9	5.53E-06	3.55E-05	2.02E-05	16

mmu04024	cAMP signaling pathway	20/259	220/893 9	5.55E-06	3.55E-05	2.02E-05	20
mmu05135	Yersinia infection	15/259	134/893 9	7.10E-06	4.42E-05	2.51E-05	15
mmu04623	Cytosolic DNA-sensing pathway	10/259	63/8939	1.16E-05	7.01E-05	3.98E-05	10
mmu04014	Ras signaling pathway	20/259	232/893 9	1.23E-05	7.23E-05	4.11E-05	20
mmu05143	African trypanosomiasis	8/259	39/8939	1.26E-05	7.23E-05	4.11E-05	8
mmu04015	Rap1 signaling pathway	19/259	214/893 9	1.35E-05	7.54E-05	4.29E-05	19
mmu05163	Human cytomegalovirus infection	21/259	256/893 9	1.60E-05	8.71E-05	4.96E-05	21
mmu05205	Proteoglycans in cancer	18/259	205/893 9	2.65E-05	0.000141 34	8.04E-05	18
mmu05171	Coronavirus disease - COVID-19	20/259	247/893 9	3.08E-05	0.000160 48	9.12E-05	20
mmu04920	Adipocytokine signaling pathway	10/259	71/8939	3.41E-05	0.000173 61	9.87E-05	10
mmu05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	11/259	88/8939	4.34E-05	0.000215 93	0.00012 278	11
mmu04650	Natural killer cell mediated cytotoxicity	13/259	121/893 9	4.53E-05	0.000220 57	0.00012 542	13
mmu04917	Prolactin signaling pathway	10/259	74/8939	4.92E-05	0.000234 28	0.00013 322	10
mmu04936	Alcoholic liver disease	14/259	141/893 9	5.59E-05	0.000260 93	0.00014 837	14
mmu05310	Asthma	6/259	25/8939	6.22E-05	0.000284 28	0.00016 165	6
mmu04360	Axon guidance	16/259	181/893 9	6.89E-05	0.000308 68	0.00017 552	16
mmu05166	Human T-cell leukemia virus 1 infection	19/259	250/893 9	0.000114	0.000502 47	0.00028 75	19
mmu05169	Epstein-Barr virus infection	18/259	231/893 9	0.000126	0.000544 49	0.00030 9	18
mmu04012	ErbB signaling pathway	10/259	84/8939	0.000146	0.000619 53	0.00035 28	10
mmu04020	Calcium signaling pathway	18/259	240/893 9	0.000204	0.000848 54	0.00048 44	18
mmu05160	Hepatitis C	14/259	165/893 9	0.000300	0.001223 45	0.00069 63	14

mmu04621	NOD-like receptor signaling pathway	16/259	211/893	0.000407	0.001629	0.00092	9	27	1	632	16
mmu04662	B cell receptor signaling pathway	9/259	81/8939	0.000528	0.002075	0.00118	9	09	31	004	9
mmu04932	Non-alcoholic fatty liver disease	13/259	156/893	0.000584	0.002256	0.00128	9	26	47	305	13
mmu05152	Tuberculosis	14/259	180/893	0.000724	0.002751	0.00156	9	72	49	452	14
mmu05224	Breast cancer	12/259	147/893	0.001131	0.004224	0.00240	9	64	8	226	12
mmu05220	Chronic myeloid leukemia	8/259	76/8939	0.001530	0.005619	0.00319	9	41	86	55	8
mmu05133	Pertussis	8/259	77/8939	0.001665	0.005951	0.00338	9	98	42	403	8
mmu04350	TGF-beta signaling pathway	9/259	95/8939	0.001673	0.005951	0.00338	9	84	42	403	9
mmu04210	Apoptosis	11/259	136/893	0.001942	0.006773	0.00385	9	96	63	155	11
mmu01521	EGFR tyrosine kinase inhibitor resistance	8/259	79/8939	0.001965	0.006773	0.00385	9	56	63	155	8
mmu04722	Neurotrophin signaling pathway	10/259	121/893	0.002634	0.008939	0.00508	9	65	65	317	10
mmu05226	Gastric cancer	11/259	150/893	0.004166	0.013931	0.00792	9	86	01	13	11
mmu04612	Antigen processing and presentation	8/259	90/8939	0.004448	0.014555	0.00827	9	19	65	647	8
mmu04931	Insulin resistance	9/259	110/893	0.004546	0.014555	0.00827	9	85	65	647	9
mmu04514	Cell adhesion molecules	12/259	174/893	0.004631	0.014555	0.00827	9	26	65	647	12
mmu04068	FoxO signaling pathway	10/259	131/893	0.004669	0.014555	0.00827	9	08	65	647	10
mmu05218	Melanoma	7/259	72/8939	0.004678	0.014555	0.00827	9	6	65	647	7
mmu05410	Hypertrophic cardiomyopathy	8/259	91/8939	0.004757	0.014599	0.00830	9	97	81	158	8
mmu04923	Regulation of lipolysis in adipocytes	6/259	56/8939	0.005388	0.016309	0.00927	9	05	76	388	6
mmu04924	Renin secretion	7/259	76/8939	0.006298	0.018811	0.01069	9	49	48	638	7
mmu04213	Longevity regulating pathway - multiple species	6/259	62/8939	0.008837	0.026046	0.01481	9	08	14	007	6

mmu05332	Graft-versus-host disease	6/259	63/8939	0.009536	0.027743	0.01577	6
				83	49	52	
mmu01523	Antifolate resistance	4/259	30/8939	0.010430	0.029954	0.01703	4
				61	57	244	
mmu04072	Phospholipase D signaling pathway	10/259	149/893	0.011256	0.031916	0.01814	10
			9	13	11	779	
mmu04930	Type II diabetes mellitus	5/259	48/8939	0.012180	0.034105	0.01939	5
				7	95	295	
mmu04926	Relaxin signaling pathway	9/259	129/893	0.012513	0.034604	0.01967	9
			9	34	8	66	
mmu05202	Transcriptional misregulation in cancer	13/259	223/893	0.012864	0.035005	0.01990	13
			9	91	07	42	
mmu04928	Parathyroid hormone synthesis, secretion and action	8/259	108/893	0.012970	0.035005	0.01990	8
			9	63	07	42	
mmu05210	Colorectal cancer	7/259	88/8939	0.013667	0.036447	0.02072	7
				9	72	45	
mmu04510	Focal adhesion	12/259	201/893	0.013915	0.036671	0.02085	12
			9	71	99	202	
mmu04915	Estrogen signaling pathway	9/259	134/893	0.015739	0.040995	0.02331	9
			9	27	3	03	
mmu04066	HIF-1 signaling pathway	8/259	114/893	0.017506	0.045074	0.02562	8
			9	42		948	
mmu01522	Endocrine resistance	7/259	93/8939	0.018074	0.046008	0.02616	7
				76	47	083	
mmu05414	Dilated cardiomyopathy	7/259	94/8939	0.019063	0.047897	0.02723	7
				4	71	507	
mmu04935	Growth hormone synthesis, secretion and action	8/259	116/893	0.019244	0.047897	0.02723	8
			9	61	71	507	
mmu05340	Primary immunodeficiency	4/259	36/8939	0.019593	0.048229	0.02742	4
				26	57	377	
mmu04550	Signaling pathways regulating pluripotency of stem cells	9/259	140/893	0.020372	0.049601	0.02820	9
			9	22	91	41	
mmu04670	Leukocyte transendothelial migration	8/259	118/893	0.021102	0.050828	0.02890	8
			9	81	27	141	
mmu05212	Pancreatic cancer	6/259	76/8939	0.022526	0.053681	0.03052	6
				92	17	36	
mmu04270	Vascular smooth muscle contraction	9/259	144/893	0.023963	0.056502	0.03212	9
			9	24	79	8	
mmu05215	Prostate cancer	7/259	99/8939	0.024579	0.057351	0.03261	7
				06	13	037	
mmu05320	Autoimmune thyroid disease	6/259	79/8939	0.026679	0.061611	0.03503	6
				99	52	287	

mmu05225	Hepatocellular carcinoma	10/259	174/893 9	0.029808 9	0.068134 62	0.03874 196	10
mmu05207	Chemical carcinogenesis - receptor activation	12/259	225/893 9	0.030522 37	0.069060 71	0.03926 854	12
mmu05330	Allograft rejection	5/259	63/8939	0.035340 14	0.079161 91	0.04501 218	5
mmu04664	Fc epsilon RI signaling pathway	5/259	66/8939	0.041943 3	0.093022 76	0.05289 358	5
mmu04211	Longevity regulating pathway	6/259	90/8939	0.046128 93	0.100778 8	0.05730 374	6
mmu05170	Human immunodeficiency virus 1 infection	12/259	240/893 9	0.046340 25	0.100778 8	0.05730 374	12
mmu04610	Complement and coagulation cascades	6/259	93/8939	0.052642 29	0.113383 4	0.06447 082	6
mmu04710	Circadian rhythm	3/259	30/8939	0.054926 58	0.116233 3	0.06609 131	3
mmu04810	Regulation of actin cytoskeleton	11/259	220/893 9	0.055003 26	0.116233 3	0.06609 131	11
mmu05132	Salmonella infection	12/259	253/893 9	0.064017 39	0.134017 7	0.07620 368	12
mmu04370	VEGF signaling pathway	4/259	58/8939	0.086773 39	0.179974 43	0.10233 509	4
mmu05416	Viral myocarditis	5/259	88/8939	0.111605 63	0.229354 7	0.13041 315	5
mmu05211	Renal cell carcinoma	4/259	68/8939	0.134105 25	0.273087 06	0.15527 977	4
mmu04217	Necroptosis	8/259	176/893 9	0.138823 72	0.280148 76	0.15929 511	8
mmu04940	Type I diabetes mellitus	4/259	70/8939	0.144630 13	0.289260 26	0.16447 6	4
mmu04520	Adherens junction	4/259	71/8939	0.150010 92	0.295997 43	0.16830 681	4
mmu04071	Sphingolipid signaling pathway	6/259	124/893 9	0.150641 55	0.295997 43	0.16830 681	6
mmu04152	AMPK signaling pathway	6/259	126/893 9	0.158744 38	0.309206 44	0.17581 757	6
mmu04218	Cellular senescence	8/259	184/893 9	0.165180 6	0.318969 44	0.18136 89	8
mmu04390	Hippo signaling pathway	7/259	157/893 9	0.170747 27	0.326900 75	0.18587 872	7
mmu05100	Bacterial invasion of epithelial cells	4/259	76/8939	0.178005 3	0.335213 8	0.19060 559	4

mmu05168	Herpes simplex virus 1 infection	17/259	459/893	0.178082	0.335213	0.19060					17
			9		33	8	559				
mmu04950	Maturity onset diabetes of the young	2/259	27/8939	0.183538	0.342605	0.19480					2
				71	59	863					