

Table S2. Gene set enrichment analysis of the core molecular KEGG pathways related to the expression of LMNA in GBM patients from TCGA RNASeq data.

NAME	GS follow link to MSigDB	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT LEADING EDGE MAX	
KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KERATAN_SULFATE	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KERATAN_SULFATE	14	0.5707749	0.5707749	0.001012146	0.005897383	0.0045	21024	tags=100%, list=43%, signal=175%
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	21	0.5617917	0.5617917	0	0.004521676	0.007	5146	tags=67%, list=11%, signal=74%
KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROITIN_SULFATE	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROITIN_SULFATE	22	0.5529131	0.5529131	0	0.003887325	0.009	6323	tags=68%, list=13%, signal=78%
KEGG_OTHER_GLYCAN_DEGRADATION	KEGG_OTHER_GLYCAN_DEGRADATION	16	0.54579383	0.54579383	0	0.003555518	0.011	13067	tags=81%, list=27%, signal=111%
KEGG_ECM_RECEPTOR_INTERACTION	KEGG_ECM_RECEPTOR_INTERACTION	83	0.51111627	0.51111627	0	0.00674333	0.026	10411	tags=72%, list=21%, signal=76%
KEGG_GALACTOSE_METABOLISM	KEGG_GALACTOSE_METABOLISM	26	0.51001406	0.51001406	0	0.005733673	0.0265	7055	tags=65%, list=14%, signal=76%
KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS	11	0.49006304	0.49006304	0.010111224	0.007629179	0.0405	7168	tags=64%, list=15%, signal=75%
KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES	15	0.46108958	0.46108958	9.92E-04	0.011893394	0.0705	10072	tags=67%, list=21%, signal=84%
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	44	0.41718328	0.41718328	0	0.024909593	0.153	7411	tags=57%, list=15%, signal=67%
KEGG_ONE_CARBON_POOL_BY_FOLATE	KEGG_ONE_CARBON_POOL_BY_FOLATE	17	0.40005362	0.40005362	0.00483559	0.031165738	0.211	17861	tags=76%, list=36%, signal=120%
KEGG_NOTCH_SIGNALING_PATHWAY	KEGG_NOTCH_SIGNALING_PATHWAY	47	0.3713157	0.3713157	0	0.048369367	0.3345	8922	tags=55%, list=18%, signal=68%
KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_SULFATE	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_SULFATE	26	0.37113473	0.37113473	0.001034126	0.04460336	0.3365	2552	tags=42%, list=5%, signal=45%
KEGG_O_GLYCAN_BIOSYNTHESIS	KEGG_O_GLYCAN_BIOSYNTHESIS	27	0.37069806	0.37069806	0	0.04154259	0.34	3620	tags=44%, list=7%, signal=48%
KEGG_FOCAL_ADHESION	KEGG_FOCAL_ADHESION	197	0.36790058	0.36790058	0	0.040333424	0.353	6664	tags=50%, list=14%, signal=58%
KEGG_PHENYLALANINE_METABOLISM	KEGG_PHENYLALANINE_METABOLISM	18	0.36671865	0.36671865	0.01003009	0.038857285	0.3625	9252	tags=56%, list=19%, signal=68%
KEGG_MISMATCH_REPAIR	KEGG_MISMATCH_REPAIR	23	0.36115423	0.36115423	0.003024194	0.040877532	0.3945	16386	tags=70%, list=33%, signal=105%
KEGG_PRION_DISEASES	KEGG_PRION_DISEASES	35	0.35352546	0.35352546	0	0.044632327	0.4425	20474	tags=77%, list=42%, signal=132%
KEGG_LYSOSOME	KEGG_LYSOSOME	119	0.35129255	0.35129255	0	0.044455867	0.4605	7528	tags=50%, list=15%, signal=59%
KEGG_N_GLYCAN_BIOSYNTHESIS	KEGG_N_GLYCAN_BIOSYNTHESIS	46	0.34807894	0.34807894	0	0.04503697	0.4825	3196	tags=41%, list=7%, signal=44%
KEGG_RENIN_ANGIOTENSIN_SYSTEM	KEGG_RENIN_ANGIOTENSIN_SYSTEM	17	0.34315288	0.34315288	0.024390243	0.047652006	0.52	9125	tags=53%, list=19%, signal=65%
KEGG_HOMOLOGOUS_RECOMBINATION	KEGG_HOMOLOGOUS_RECOMBINATION	27	0.34149027	0.34149027	0.002979146	0.04736493	0.532	17744	tags=70%, list=36%, signal=110%
KEGG_SMALL_CELL_LUNG_CANCER	KEGG_SMALL_CELL_LUNG_CANCER	84	0.34056348	0.34056348	0	0.0458273	0.5365	10749	tags=56%, list=22%, signal=72%
KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	KEGG_AMINOACYL_TRNA_BIOSYNTHESIS	41	0.33934763	0.33934763	0	0.04497418	0.548	15642	tags=66%, list=32%, signal=70%
KEGG_BLADDER_CANCER	KEGG_BLADDER_CANCER	40	0.33908534	0.33908534	0	0.043325417	0.5495	10340	tags=55%, list=21%, signal=70%
KEGG_CIRCADIEN_RHYTHM_MAMMAL	KEGG_CIRCADIEN_RHYTHM_MAMMAL	13	0.3261531	0.3261531	0.10958904	0.054071195	0.646	17932	tags=69%, list=37%, signal=109%
KEGG_DNA_REPLICATION	KEGG_DNA_REPLICATION	36	0.32357487	0.32357487	0	0.054292593	0.664	15450	tags=64%, list=32%, signal=93%

KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GLOBO_SERIES	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GLOBO_SERIES	14	0.31870648	0.31870648	0.07411168	0.05694878	0.694	5383	tags=43%, list=11%, signal=48%
KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	56	0.31789142	0.31789142	0	0.05612397	0.7025	14180	tags=61%, list=29%, signal=85%
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	60	0.31417376	0.31417376	0	0.0590761	0.7295	10749	tags=53%, list=22%, signal=68%
KEGG_APOPTOSIS	KEGG_APOPTOSIS	86	0.3058642	0.3058642	0	0.06799298	0.7965	6115	tags=43%, list=12%, signal=49%
KEGG_HEMATOPOIETIC_CELL_LINEAGE	KEGG_HEMATOPOIETIC_CELL_LINEAGE	84	0.30288526	0.30288526	0	0.06964665	0.8155	17837	tags=67%, list=36%, signal=105%
KEGG_PENTOSE_PHOSPHATE_PATHWAY	KEGG_PENTOSE_PHOSPHATE_PATHWAY	26	0.30067965	0.30067965	0.016260162	0.07024792	0.8275	6000	tags=42%, list=12%, signal=48%
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	253	0.29452127	0.29452127	0	0.076147236	0.858	12554	tags=55%, list=26%, signal=74%
KEGG_FRUCTOSE_AND_MANNANOSE_METABOLISM	KEGG_FRUCTOSE_AND_MANNANOSE_METABOLISM	34	0.2937678	0.2937678	0.001998002	0.07501489	0.862	8667	tags=47%, list=18%, signal=57%
KEGG_GLYCOLYSIS_GLUONEOGENESIS	KEGG_GLYCOLYSIS_GLUONEOGENESIS	60	0.29372936	0.29372936	0	0.07292745	0.862	13381	tags=57%, list=27%, signal=78%
KEGG_STEROID_BIOSYNTHESIS	KEGG_STEROID_BIOSYNTHESIS	16	0.29142195	0.29142195	0.108778626	0.07410208	0.8705	13277	tags=56%, list=27%, signal=77%
KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOMYOPATHY_ARVC	KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOMYOPATHY_ARVC	73	0.2906476	0.2906476	0	0.07346807	0.875	3899	tags=37%, list=8%, signal=40%
KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	67	0.2890226	0.2890226	0	0.07339862	0.882	7791	tags=45%, list=16%, signal=53%
KEGG_ALLOGRAFT_REJECTION	KEGG_ALLOGRAFT_REJECTION	35	0.28694054	0.28694054	0.005785921	0.07447637	0.8935	22333	tags=74%, list=46%, signal=136%
KEGG_CHRONIC_MYELOID_LEUKEMIA	KEGG_CHRONIC_MYELOID_LEUKEMIA	73	0.2816025	0.2816025	0	0.080159724	0.9145	7695	tags=44%, list=16%, signal=52%
KEGG_GRAFT_VERSUS_HOST_DISEASE	KEGG_GRAFT_VERSUS_HOST_DISEASE	37	0.27381495	0.27381495	0.003838772	0.09004085	0.942	22333	tags=73%, list=46%, signal=134%
KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS	KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS	16	0.27190673	0.27190673	0.14565004	0.091334164	0.9505	1991	tags=31%, list=4%, signal=33%
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	69	0.27130255	0.27130255	0	0.09022862	0.9525	20796	tags=70%, list=42%, signal=121%
KEGG_ADHERENS_JUNCTION	KEGG_ADHERENS_JUNCTION	68	0.26347038	0.26347038	0	0.10228589	0.97	5838	tags=38%, list=12%, signal=43%
KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	78	0.2629452	0.2629452	0	0.10102689	0.9715	21671	tags=71%, list=44%, signal=126%
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	114	0.26122954	0.26122954	0	0.1019268	0.9745	7425	tags=41%, list=15%, signal=48%
KEGG_PRIMARY_IMMUNODEFICIENCY	KEGG_PRIMARY_IMMUNODEFICIENCY	35	0.2586961	0.2586961	0.017924529	0.10439286	0.981	22316	tags=71%, list=46%, signal=131%
KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	22	0.25616628	0.25616628	0.1002045	0.10682454	0.983	18621	tags=64%, list=38%, signal=103%
KEGG_LEISHMANIA_INFECTION	KEGG_LEISHMANIA_INFECTION	70	0.25167194	0.25167194	0	0.11405265	0.989	21969	tags=70%, list=45%, signal=127%
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	52	0.24965757	0.24965757	0.003024194	0.115912095	0.99	12270	tags=50%, list=25%, signal=48%
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	74	0.24860764	0.24860764	0	0.11626541	0.992	7695	tags=41%, list=16%, signal=48%
KEGG_DILATED_CARDIOMYOPATHY	KEGG_DILATED_CARDIOMYOPATHY	89	0.24664228	0.24664228	0	0.118488595	0.9925	3899	tags=33%, list=8%, signal=35%
KEGG_JAK_STAT_SIGNALING_PATHWAY	KEGG_JAK_STAT_SIGNALING_PATHWAY	147	0.24655522	0.24655522	0	0.11657327	0.9925	13611	tags=52%, list=28%, signal=56%
KEGG_THYROID_CANCER	KEGG_THYROID_CANCER	29	0.24586862	0.24586862	0.03767821	0.11586282	0.993	9917	tags=45%, list=20%, signal=56%

KEGG_ENDOCYTOSIS	KEGG_ENDOCYTOSIS	176	0.24256493	0.24256493	0	0.121194586	0.995	12647	tags=50%, list=26%, signal=67%
KEGG_GLUTATHIONE_METABOLISM	KEGG_GLUTATHIONE_METABOLISM	48	0.24181949	0.24181949	0.009081735	0.120522715	0.9955	8572	tags=42%, list=18%, signal=50%
KEGG_PATHWAYS_IN_CANCER	KEGG_PATHWAYS_IN_CANCER	323	0.23958392	0.23958392	0	0.1235381	0.998	8962	tags=42%, list=18%, signal=51%
KEGG_ACUTE_MYELOID_LEUKEMIA	KEGG_ACUTE_MYELOID_LEUKEMIA	57	0.23699278	0.23699278	9.97E-04	0.1275729	0.9985	9025	tags=42%, list=18%, signal=52%
KEGG_PANCREATIC_CANCER	KEGG_PANCREATIC_CANCER	69	0.23446126	0.23446126	0	0.13158838	0.999	7695	tags=39%, list=16%, signal=46%
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	KEGG_NATURAL_KILLER_CELL_MEDIATE_D_CYTOTOXICITY	129	0.23270607	0.23270607	0	0.13328154	0.999	14066	tags=52%, list=29%, signal=73%
KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	99	0.23225111	0.23225111	0	0.13216415	0.999	15358	tags=55%, list=31%, signal=79%
KEGG_P53_SIGNALING_PATHWAY	KEGG_P53_SIGNALING_PATHWAY	66	0.23008187	0.23008187	0.001980198	0.13508774	0.9995	4328	tags=32%, list=9%, signal=35%
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	211	0.22980155	0.22980155	0	0.13364965	0.9995	6664	tags=36%, list=14%, signal=42%
KEGG_HYPERTROPHIC_CARDIOMYOPATHY	KEGG_HYPERTROPHIC_CARDIOMYOPATHY	82	0.22560713	0.22560713	9.82E-04	0.14203712	0.9995	3899	tags=30%, list=8%, signal=46%
KEGG_ABC_TRANSPORTERS	KEGG_ABC_TRANSPORTERS	44	0.22011603	0.22011603	0.02123357	0.15496477	1	8149	tags=39%, list=17%, signal=46%
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	106	0.22003943	0.22003943	0	0.15284643	1	17888	tags=58%, list=37%, signal=92%
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	67	0.21723624	0.21723624	0.00295858	0.15878147	1	3993	tags=30%, list=8%, signal=32%
KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_NEOLACTO_SERIES	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_NEOLACTO_SERIES	25	0.21279526	0.21279526	0.20101523	0.16945462	1	13088	tags=48%, list=27%, signal=65%
KEGG_CHEMOKINE_SIGNALING_PATHWAY	KEGG_CHEMOKINE_SIGNALING_PATHWAY	184	0.21250992	0.21250992	0	0.16776825	1	9325	tags=40%, list=19%, signal=49%
KEGG_AUTOIMMUNE_THYROID_DISEASE	KEGG_AUTOIMMUNE_THYROID_DISEASE	48	0.21075156	0.21075156	0.02098636	0.1709527	1	22333	tags=67%, list=46%, signal=122%
KEGG_VIBRIO_CHOLERAE_INFECTION	KEGG_VIBRIO_CHOLERAE_INFECTION	53	0.20939955	0.20939955	0.019354839	0.17299344	1	2691	tags=26%, list=5%, signal=28%
KEGG_CITRATE_CYCLE_TCA_CYCLE	KEGG_CITRATE_CYCLE_TCA_CYCLE	30	0.20651206	0.20651206	0.15915915	0.17967749	1	6215	tags=33%, list=13%, signal=38%
KEGG_CELL_ADHESION_MOLECULES_CAMPS	KEGG_CELL_ADHESION_MOLECULES_CAMPS	127	0.20562582	0.20562582	9.93E-04	0.18025388	1	7692	tags=36%, list=16%, signal=43%
KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_BIOSYNTHESIS	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_BIOSYNTHESIS	24	0.2020043	0.2020043	0.22344689	0.18981017	1	12555	tags=46%, list=26%, signal=62%
KEGG_EPITHELIAL_CELL_SIGNALING_IN_Helicobacter_Pylori_Infection	KEGG_EPITHELIAL_CELL_SIGNALING_IN_Helicobacter_Pylori_Infection	67	0.20131092	0.20131092	0.012695313	0.18962152	1	7695	tags=36%, list=16%, signal=42%
KEGG_TYPE_1_DIABETES_MELLITUS	KEGG_TYPE_1_DIABETES_MELLITUS	41	0.20127633	0.20127633	0.057059962	0.18722332	1	22397	tags=66%, list=46%, signal=121%
KEGG_VIRAL_MYOCARDITIS	KEGG_VIRAL_MYOCARDITIS	68	0.20037559	0.20037559	0.008196721	0.18821001	1	7483	tags=35%, list=15%, signal=42%
KEGG_RENAL_CELL_CARCINOMA	KEGG_RENAL_CELL_CARCINOMA	68	0.20009227	0.20009227	0.006776379	0.18676144	1	8937	tags=38%, list=18%, signal=47%
KEGG_PROSTATE_CANCER	KEGG_PROSTATE_CANCER	89	0.19984718	0.19984718	0.001012146	0.18515569	1	8937	tags=38%, list=18%, signal=47%
KEGG_VEGF_SIGNALING_PATHWAY	KEGG_VEGF_SIGNALING_PATHWAY	75	0.19935638	0.19935638	0.007920792	0.18430574	1	7227	tags=35%, list=15%, signal=41%
KEGG_DORSO_VENTRAL_AXIS_FORMATION	KEGG_DORSO_VENTRAL_AXIS_FORMATION	24	0.19932505	0.19932505	0.24616957	0.18214957	1	31048	tags=83%, list=63%, signal=228%

KEGG_BASAL_CELL_CARCINOMA	KEGG_BASAL_CELL_CARCINOMA	55	0.1959443	0.1959443	0.031281535	0.19130553	1	5550 tags=31%, list=11%, signal=35%
KEGG_STARCH_AND_SUCROSE_METABOLISM	KEGG_STARCH_AND_SUCROSE_METABOLISM	47	0.19530034	0.19530034	0.054421768	0.19100228	1	2947 tags=26%, list=6%, signal=27%
KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	125	0.1912711	0.1912711	0	0.2028899	1	7893 tags=35%, list=16%, signal=42%
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	46	0.19004308	0.19004308	0.07468477	0.20506701	1	34345 tags=89%, list=70%, signal=298%
KEGG_INSULIN_SIGNALING_PATHWAY	KEGG_INSULIN_SIGNALING_PATHWAY	137	0.18641376	0.18641376	0	0.21613605	1	7695 tags=34%, list=16%, signal=41%
KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	19	0.18434495	0.18434495	0.46474677	0.22140309	1	14170 tags=47%, list=29%, signal=67%
KEGG_ERBB_SIGNALING_PATHWAY	KEGG_ERBB_SIGNALING_PATHWAY	86	0.18300483	0.18300483	0.005081301	0.2238749	1	6996 tags=33%, list=14%, signal=38%
KEGG_GLIOMA	KEGG_GLIOMA	65	0.18041843	0.18041843	0.029693486	0.2316829	1	6996 tags=32%, list=14%, signal=38%
KEGG_LYSINE_DEGRADATION	KEGG_LYSINE_DEGRADATION	41	0.17700425	0.17700425	0.14980158	0.24317455	1	8059 tags=34%, list=16%, signal=41%
KEGG_INOSITOL_PHOSPHATE_METABOLISM	KEGG_INOSITOL_PHOSPHATE_METABOLISM	54	0.17616956	0.17616956	0.051102206	0.24407972	1	4077 tags=26%, list=8%, signal=28%
KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	20	0.17284197	0.17284197	0.56646216	0.25562945	1	8677 tags=35%, list=18%, signal=43%
KEGG_BASE_EXCISION_REPAIR	KEGG_BASE_EXCISION_REPAIR	35	0.17198038	0.17198038	0.21978022	0.2567461	1	8372 tags=34%, list=17%, signal=41%
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	93	0.16925143	0.16925143	0.010880317	0.26566455	1	6996 tags=31%, list=14%, signal=36%
KEGG_HEDGEHOG_SIGNALING_PATHWAY	KEGG_HEDGEHOG_SIGNALING_PATHWAY	56	0.1684864	0.1684864	0.060817547	0.26635736	1	9246 tags=36%, list=19%, signal=44%
KEGG_COLORECTAL_CANCER	KEGG_COLORECTAL_CANCER	62	0.16455351	0.16455351	0.051896207	0.28242758	1	7747 tags=32%, list=16%, signal=38%
KEGG_PYRIMIDINE_METABOLISM	KEGG_PYRIMIDINE_METABOLISM	96	0.16265254	0.16265254	0.007121058	0.28870386	1	8372 tags=33%, list=17%, signal=40%
KEGG_AXON_GUIDANCE	KEGG_AXON_GUIDANCE	127	0.1618852	0.1618852	0.003003003	0.2894131	1	8286 tags=33%, list=17%, signal=40%
KEGG_DRUG_METABOLISM_OTHER_ENZYMES	KEGG_DRUG_METABOLISM_OTHER_ENZYMES	46	0.16064088	0.16064088	0.16716717	0.2923025	1	7043 tags=30%, list=14%, signal=36%
KEGG_TGF_BETA_SIGNALING_PATHWAY	KEGG_TGF_BETA_SIGNALING_PATHWAY	85	0.15992348	0.15992348	0.022749752	0.2928523	1	12344 tags=41%, list=25%, signal=55%
KEGG_MAPK_SIGNALING_PATHWAY	KEGG_MAPK_SIGNALING_PATHWAY	265	0.1490233	0.1490233	0	0.34802884	1	7893 tags=31%, list=16%, signal=37%
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	71	0.14864607	0.14864607	0.07186858	0.3468184	1	8593 tags=32%, list=18%, signal=39%
KEGG_NUCLEOTIDE_EXCISION_REPAIR	KEGG_NUCLEOTIDE_EXCISION_REPAIR	44	0.14676353	0.14676353	0.2682927	0.35451967	1	15076 tags=45%, list=31%, signal=66%
KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS	132	0.1465513	0.1465513	0.007744434	0.35240236	1	31050 tags=78%, list=63%, signal=213%
KEGG_ENDOMETRIAL_CANCER	KEGG_ENDOMETRIAL_CANCER	52	0.1457183	0.1457183	0.22073922	0.35389972	1	6996 tags=29%, list=14%, signal=34%
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	76	0.14150934	0.14150934	0.079380445	0.3752617	1	5322 tags=25%, list=11%, signal=28%
KEGG_PROTEASOME	KEGG_PROTEASOME	46	0.13877021	0.13877021	0.32604373	0.38816062	1	17693 tags=50%, list=36%, signal=78%
KEGG_GNRH_SIGNALING_PATHWAY	KEGG_GNRH_SIGNALING_PATHWAY	101	0.13815673	0.13815673	0.0347567	0.3885226	1	15549 tags=46%, list=32%, signal=67%

KEGG_TYROSINE_METABOLISM	KEGG_TYROSINE_METABOLISM	42	0.13142422	0.13142422	0.42627883	0.42909488	1	9891 tags=33%, list=20%, signal=42%
KEGG_ASTHMA	KEGG_ASTHMA	28	0.13051477	0.13051477	0.6719841	0.43090236	1	21592 tags=57%, list=44%, signal=102%
KEGG_VASCULAR_SMOOTH_MUSCLE_CON TRACTION	KEGG_VASCULAR_SMOOTH_MUSCLE_CO NTRACTION	115	0.12828177	0.12828177	0.039354187	0.4418992	1	14170 tags=42%, list=29%, signal=59%
KEGG_MELANOGENESIS	KEGG_MELANOGENESIS	101	0.1270473	0.1270473	0.07947686	0.44643047	1	3487 tags=20%, list=7%, signal=21%
KEGG_PPAR_SIGNALING_PATHWAY	KEGG_PPAR_SIGNALING_PATHWAY	69	0.127001	0.127001	0.20170757	0.44274196	1	5853 tags=25%, list=12%, signal=28%
KEGG_MELANOMA	KEGG_MELANOMA	71	0.124888726	0.12488873	0.20406091	0.4528833	1	6996 tags=27%, list=14%, signal=31%
KEGG_MTOR_SIGNALING_PATHWAY	KEGG_MTOR_SIGNALING_PATHWAY	51	0.12258611	0.12258611	0.36948177	0.46501824	1	5524 tags=24%, list=11%, signal=26%
KEGG_CELL_CYCLE	KEGG_CELL_CYCLE	124	0.121814124	0.12181412	0.046421662	0.46621928	1	8660 tags=30%, list=18%, signal=36%
KEGG_GAP_JUNCTION	KEGG_GAP_JUNCTION	90	0.1214902	0.1214902	0.12410256	0.4645354	1	2222 tags=17%, list=5%, signal=17%
KEGG_SPLICEOSOME	KEGG_SPLICEOSOME	123	0.11543792	0.11543792	0.079637095	0.50406617	1	8692 tags=29%, list=18%, signal=35%
KEGG_FC_EPSILON_RI_SIGNALING_PATHW AY	KEGG_FC_EPSILON_RI_SIGNALING_PATH WAY	79	0.1031607	0.1031607	0.34890655	0.59530956	1	14170 tags=39%, list=29%, signal=55%
KEGG_PEROXISOME	KEGG_PEROXISOME	78	0.096561775	0.09656178	0.47244897	0.64505506	1	6578 tags=23%, list=13%, signal=27%
KEGG_LINOLEIC_ACID_METABOLISM	KEGG_LINOLEIC_ACID_METABOLISM	29	0.089952804	0.0899528	0.9468085	0.6940002	1	14170 tags=38%, list=29%, signal=53%
KEGG_ARACHIDONIC_ACID_METABOLISM	KEGG_ARACHIDONIC_ACID_METABOLISM	58	0.07075287	0.07075287	0.9047619	0.8404326	1	35373 tags=79%, list=72%, signal=285%