Supplental Table 3A. GSEA applying the c5 GO gene set collection.

NAME	SIZE	ES	NOM p-val	FDR q-val	FWER p-val	RANK AT MA	LEADING EDGE
HYDROLASE_ACTIVITY__HYDROLYZING_O_GLYCOSYL_COMPOUNDS	36	-0.7818106	-2.3272913	0	0	0	2401 tags=47%, list=10%, signal=52%
SECONDARY_ACTIVE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	47	-0.6832812	-2.110089	0	3.52E-04	0.001	1575 tags=32%, list=6%, signal=34%
HYDROLASE_ACTIVITY__ACTING_ON_GLYCOSYL_BONDS	46	-0.6652442	-2.0428782	0	0.00165886	0.007	2526 tags=39%, list=10%, signal=43%
ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	58	-0.6233542	-2.011222	0	0.00317833	0.018	1575 tags=24%, list=6%, signal=26%
SERINE_HYDROLASE_ACTIVITY	44	-0.65078	-1.9707515	0	0.00605632	0.043	3403 tags=39%, list=14%, signal=45%
PROTEIN_AMINO_ACID_N_LINKED_GLYCOSYLATION	29	-0.6939393	-1.9522052	0	0.00648	0.055	4507 tags=55%, list=18%, signal=67%
LIPOPROTEIN_METABOLIC_PROCESS	33	-0.6846137	-1.9355763	0	0.00665539	0.066	3172 tags=55%, list=13%, signal=62%
SERINE_TYPE_PEPTIDASE_ACTIVITY	43	-0.644798	-1.9307067	0	0.00643396	0.072	3403 tags=37%, list=14%, signal=43%
SYMPORTER_ACTIVITY	31	-0.6842873	-1.9233667	0	0.00651516	0.082	1575 tags=32%, list=6%, signal=34%
SERINE_TYPE_ENDOPEPTIDASE_ACTIVITY	39	-0.6136697	-1.858553	0	0.01727433	0.222	3403 tags=36%, list=14%, signal=41%
VACUOLE_ORGANIZATION_AND_BIOGENESIS	12	-0.8189157	-1.8324671	0	0.02408944	0.321	2481 tags=58%, list=10%, signal=65%
SOLUTE_SODIUM_SYMPORTER_ACTIVITY	13	-0.8047919	-1.8193982	0.00410678	0.02721026	0.384	351 tags=31%, list=1%, signal=31%
LIPOPROTEIN_BIOSYNTHETIC_PROCESS	26	-0.6720095	-1.806974	0.00200803	0.03107003	0.46	3172 tags=54%, list=13%, signal=62%
EXTERNAL_SIDE_OF_PLASMA_MEMBRANE	16	-0.733018	-1.8014957	0.00205761	0.03104012	0.485	3281 tags=56%, list=13%, signal=65%
VITAMIN_TRANSPORT	13	-0.7621377	-1.7996609	0	0.02990531	0.497	1424 tags=38%, list=6%, signal=41%
LYSOSOME_ORGANIZATION_AND_BIOGENESIS	11	-0.8307377	-1.796958	0	0.02897762	0.511	2481 tags=64%, list=10%, signal=71%
PHOSPHATE_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	13	-0.7694588	-1.7954001	0	0.02790158	0.52	124 tags=31%, list=0%, signal=31%
ORGANIC_ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	10	-0.8356974	-1.7939773	0.00217865	0.02710548	0.53	1256 tags=50%, list=5%, signal=53%
RESPONSE_TO_XENOBIOTIC_STIMULUS	12	-0.8045701	-1.7755631	0	0.03314876	0.609	2408 tags=42%, list=10%, signal=46%
ANION_TRANSPORT	31	-0.623848	-1.7639052	0.00431035	0.03786528	0.691	1832 tags=23%, list=7%, signal=24%
XENOBIOTIC_METABOLIC_PROCESS	11	-0.808131	-1.7562022	0.00205761	0.03970722	0.716	2408 tags=45%, list=10%, signal=50%
INORGANIC_ANION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	19	-0.690707	-1.7425597	0.00198807	0.04531192	0.766	1575 tags=26%, list=6%, signal=28%
RNA_PROCESSING	168	0.66806686	2.3943808	0	0	0	5902 tags=69%, list=23%, signal=90%
RNA_BINDING	250	0.63021153	2.3583093	0	0	0	5626 tags=57%, list=22%, signal=72%
RNA_SPLICING	90	0.6980362	2.3115022	0	0	0	5853 tags=72%, list=23%, signal=94%
TRANSCRIPTION_COREPRESSOR_ACTIVITY	91	0.69408065	2.2987466	0	0	0	3893 tags=51%, list=15%, signal=60%
TRANSCRIPTION_COFACTOR_ACTIVITY	218	0.6102208	2.268004	0	0	0	4025 tags=42%, list=16%, signal=49%
NUCLEOLUS	119	0.65794456	2.2569606	0	0	0	4534 tags=50%, list=18%, signal=61%
TRANSCRIPTION_FACTOR_BINDING	291	0.5925111	2.2406206	0	0	0	4045 tags=40%, list=16%, signal=47%
PORE_COMPLEX	35	0.7798341	2.205133	0	0	0	2644 tags=57%, list=11%, signal=64%
TRANSCRIPTION_REPRESSOR_ACTIVITY	148	0.6263885	2.204786	0	0	0	3936 tags=43%, list=16%, signal=50%
NUCLEAR_LUMEN	366	0.56409633	2.1808102	0	0	0	5911 tags=52%, list=23%, signal=67%
NUCLEAR_PORE	30	0.7835675	2.1551075	0	0	0	2644 tags=60%, list=11%, signal=67%
TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	437	0.5491339	2.1494484	0	0	0	5450 tags=45%, list=22%, signal=56%
NUCLEAR_ENVELOPE	71	0.6595207	2.1101491	0	1.90E-04	0.002	4897 tags=58%, list=19%, signal=72%
MRNA_METABOLIC_PROCESS	83	0.64272845	2.0901098	0	1.76E-04	0.002	5953 tags=69%, list=24%, signal=90%
GUANYL_NUCLEOTIDE_BINDING	45	0.69481	2.0835226	0	2.47E-04	0.003	3899 tags=51%, list=15%, signal=60%
NUCLEAR_MEMBRANE	48	0.6864833	2.0745378	0	2.31E-04	0.003	4301 tags=58%, list=17%, signal=70%
REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	277	0.54533255	2.056615	0	2.89E-04	0.004	4743 tags=41%, list=19%, signal=50%
MRNA_PROCESSING_GO_0006397	72	0.634495	2.0523233	0	3.41E-04	0.005	5730 tags=65%, list=23%, signal=84%
ORGANELLE_LUMEN	433	0.5203779	2.0422518	0	4.56E-04	0.007	5911 tags=49%, list=23%, signal=63%
RIBONUCLEOPROTEIN_COMPLEX_BIOGENESIS_AND_ASSEMBLY	82	0.6187583	2.042169	0	4.33E-04	0.007	6108 tags=65%, list=24%, signal=85%
PROTEIN_IMPORT_INTO_NUCLEUS	47	0.67849725	2.0390773	0	4.13E-04	0.007	3787 tags=49%, list=15%, signal=58%
ACTIN_BINDING	74	0.62539816	2.0357542	0	4.49E-04	0.008	3875 tags=41%, list=15%, signal=48%
MEMBRANE_ENCLOSED_LUMEN	433	0.5203779	2.034907	0	4.30E-04	0.008	5911 tags=49%, list=23%, signal=63%
GTPASE_ACTIVITY	95	0.6132628	2.0327487	0	4.12E-04	0.008	4057 tags=47%, list=16%, signal=56%
TRANSLATION_REGULATOR_ACTIVITY	38	0.6997347	2.0315475	0	3.96E-04	0.008	4195 tags=53%, list=17%, signal=63%
GTP_BINDING	44	0.6892012	2.028071	0	3.80E-04	0.008	3899 tags=50%, list=15%, signal=59%
NUCLEAR_TRANSPORT	87	0.61596495	2.0280452	0	3.66E-04	0.008	4405 tags=47%, list=18%, signal=57%
NUCLEOSIDE_TRIPHOSPHATASE_ACTIVITY	208	0.55128115	2.0264	0	3.53E-04	0.008	4160 tags=39%, list=17%, signal=47%
ACTIN_FILAMENT_BASED_PROCESS	115	0.58725166	2.022075	0	4.26E-04	0.01	3642 tags=38%, list=14%, signal=45%
NUCLEOCYTOPLASMIC_TRANSPORT	86	0.61613786	2.021849	0	4.12E-04	0.01	4405 tags=48%, list=18%, signal=58%
NUCLEOPLASM	265	0.5342159	2.019855	0	3.98E-04	0.01	5911 tags=49%, list=23%, signal=64%
ACTIN_FILAMENT_BINDING	24	0.76924264	2.0186236	0	4.25E-04	0.011	1715 tags=50%, list=7%, signal=54%
TRANSLATION_FACTOR_ACTIVITY__NUCLEIC_ACID_BINDING	36	0.7002382	2.0044525	0	5.22E-04	0.014	4195 tags=53%, list=17%, signal=63%
ACTIN_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	105	0.5889319	2.0034237	0	5.07E-04	0.014	3642 tags=38%, list=14%, signal=44%
NUCLEAR_IMPORT	48	0.6656467	1.9970423	0	4.92E-04	0.014	3787 tags=48%, list=15%, signal=56%
POSITIVE_REGULATION_OF_TRANSCRIPTION	134	0.56665206	1.9961027	0	4.79E-04	0.014	4626 tags=41%, list=18%, signal=50%
RIBONUCLEOPROTEIN_COMPLEX	134	0.56868994	1.9918624	0	4.66E-04	0.014	5730 tags=60%, list=23%, signal=77%
POSITIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	144	0.56856203	1.9883968	0	4.86E-04	0.015	4626 tags=42%, list=18%, signal=51%
TRANSCRIPTION_ACTIVATOR_ACTIVITY	163	0.55086505	1.9854473	0	4.73E-04	0.015	4051 tags=36%, list=16%, signal=42%
TRANSCRIPTION_COACTIVATOR_ACTIVITY	117	0.56999695	1.9827552	0	5.24E-04	0.017	5077 tags=44%, list=20%, signal=55%
REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	442	0.50198656	1.9674488	0	6.28E-04	0.021	4628 tags=36%, list=18%, signal=43%
RNA_POLYMERASE_II_TRANSCRIPTION_FACTOR_ACTIVITY__ENHANCER_BINDING	13	0.86638993	1.9554838	0	7.61E-04	0.026	2338 tags=54%, list=9%, signal=59%
REGULATION_OF_RNA_METABOLIC_PROCESS	452	0.49975836	1.9549747	0	7.43E-04	0.026	4628 tags=36%, list=18%, signal=43%
TRANSCRIPTION_FACTOR_ACTIVITY	342	0.5124872	1.954919	0	7.26E-04	0.026	4051 tags=33%, list=16%, signal=39%
POSITIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	111	0.56551677	1.9543072	0	7.10E-04	0.026	4626 tags=43%, list=18%, signal=53%
ACID_AMINO_ACID_LIGASE_ACTIVITY	53	0.6471464	1.9436959	0	0.00104155	0.039	2949 tags=34%, list=12%, signal=38%
NUCLEAR_MEMBRANE_PART	40	0.68149596	1.9384768	0	0.00109803	0.042	2644 tags=48%, list=11%, signal=53%
NEGATIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	255	0.5132503	1.9384344	0	0.00107515	0.042	4175 tags=32%, list=17%, signal=38%
POSITIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	61	0.6252675	1.9334099	0	0.001104	0.044	5043 tags=54%, list=20%, signal=67%
SPLICEOSOME	47	0.6489944	1.9226964	0	0.00132921	0.054	5853 tags=68%, list=23%, signal=89%
LIGASE_ACTIVITY__FORMING_CARBON_NITROGEN_BONDS	63	0.6132146	1.9216945	0	0.00132738	0.055	3328 tags=40%, list=13%, signal=46%
PROTEIN_IMPORT	61	0.6065001	1.9215142	0	0.00130185	0.055	3787 tags=43%, list=15%, signal=50%
PROTEIN_CATABOLIC_PROCESS	64	0.6054251	1.920037	0	0.00137141	0.058	5189 tags=50%, list=21%, signal=63%
BIOPOLYMER_CATABOLIC_PROCESS	111	0.56017154	1.9153231	0	0.00139178	0.06	4771 tags=43%, list=19%, signal=53%
NEGATIVE_REGULATION_OF_METABOLIC_PROCESS	258	0.5112492	1.9148763	0	0.00136647	0.06	4175 tags=32%, list=17%, signal=38%
POSITIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	109	0.56299675	1.9144654	0	0.00136443	0.061	4626 tags=43%, list=18%, signal=53%
TRANSLATION_INITIATION_FACTOR_ACTIVITY	21	0.7445266	1.9114094	0	0.00142881	0.064	3648 tags=62%, list=15%, signal=72%
NUCLEOPLASM_PART	200	0.5221997	1.9109613	0	0.00142647	0.065	6750 tags=60%, list=27%, signal=81%
PROGRAMMED_CELL_DEATH	426	0.47913426	1.9058014	0	0.00154788	0.072	4465 tags=39%, list=18%, signal=47%
ANTI_APOPTOSIS	118	0.54956144	1.9049568	0	0.00152209	0.072	3642 tags=40%, list=14%, signal=46%
INTRACELLULAR_TRANSPORT	274	0.4987926	1.9038053	0	0.00149713	0.072	4669 tags=45%, list=19%, signal=54%
COATED_MEMBRANE	17	0.7801006	1.8995547	0	0.00167408	0.081	3361 tags=65%, list=13%, signal=75%
NEGATIVE_REGULATION_OF_TRANSCRIPTION	184	0.5206655	1.8978026	0	0.00172662	0.085	3936 tags=32%, list=16%, signal=37%
MEMBRANE_COAT	17	0.7801006	1.8942058	0.00382409	0.00189222	0.093	3361 tags=65%, list=13%, signal=75%
EPIDERMAL_GROWTH_FACTOR_RECEPTOR_SIGNALING_PATHWAY	22	0.7422032	1.8926259	0	0.00193962	0.097	4707 tags=64%, list=19%, signal=78%
CELL_CORTEX	38	0.6514672	1.8920581	0	0.00192993	0.098	3275 tags=39%, list=13%, signal=45%
PHOSPHATASE_REGULATOR_ACTIVITY	26	0.728565	1.8916659	0	0.00191991	0.099	3187 tags=38%, list=13%, signal=44%
SMALL_CONJUGATING_PROTEIN_LIGASE_ACTIVITY	47	0.6409029	1.8887342	0	0.0020173	0.104	4405 tags=40%, list=18%, signal=49%
CELLULAR_PROTEIN_CATABOLIC_PROCESS	54	0.61853707	1.8843225	0	0.00211327	0.109	5189 tags=52%, list=21%, signal=65%
COATED_VESICLE_MEMBRANE	17	0.77576977	1.8840735	0	0.00208308	0.109	3361 tags=65%, list=13%, signal=75%
APOPTOSIS_GO	425	0.47921574	1.8825123	0	0.00210481	0.112	4465 tags=40%, list=18%, signal=47%
RNA_SPLICING__VIA_TRANSESTERIFICATION_REACTIONS	36	0.6637179	1.8813045	0	0.00219635	0.119	6408 tags=69%, list=25%, signal=93%
PROTEASOME_COMPLEX	23	0.7255346	1.8807669	0	0.00218359	0.12	5162 tags=70%, list=21%, signal=87%
SMALL_PROTEIN_CONJUGATING_ENZYME_ACTIVITY	48	0.6231246	1.8799707	0	0.00220655	0.123	4405 tags=38%, list=18%, signal=45%
PYROPHOSPHATASE_ACTIVITY	222	0.5041575	1.8751504	0	0.0024251	0.137	4160 tags=37%, list=17%, signal=44%
RESPONSE_TO_HYPOXIA	28	0.68349457	1.8721696	0	0.00250645	0.144	2704 tags=46%, list=11%, signal=52%
NEGATIVE_REGULATION_OF_NUCLEOBASE__NUCLEOSIDE__NUCLEOTIDE_AND_NUCLEIC_ACID_METABOLIC_PROCESS	207	0.51259136	1.8721144	0	0.0024739	0.144	4706 tags=36%, list=19%, signal=44%
REGULATION_OF_CELL_CYCLE	180	0.5172228	1.8715239	0	0.00247415	0.146	5498 tags=40%, list=22%, signal=51%
TRANSCRIPTION_FACTOR_COMPLEX	84	0.5727531	1.8693227	0	0.00253574	0.151	5901 tags=57%, list=23%, signal=74%
RNA_POLYMERASE_II_TRANSCRIPTION_FACTOR_ACTIVITY	170	0.5180028	1.8639319	0	0.00270307	0.162	4626 tags=42%, list=18%, signal=51%
HYDROLASE_ACTIVITY__ACTING_ON_ACID_ANHYDRIDES	224	0.5013533	1.8612367	0	0.0028543	0.173	4160 tags=37%, list=17%, signal=44%
REGULATION_OF_BINDING	57	0.6059332	1.859686	0	0.00295512	0.179	4151 tags=40%, list=17%, signal=48%
GENERAL_RNA_POLYMERASE_II_TRANSCRIPTION_FACTOR_ACTIVITY	26	0.69640785	1.8581302	0.00187266	0.00303859	0.186	5787 tags=73%, list=23%, signal=95%
REGULATION_OF_PROGRAMMED_CELL_DEATH	336	0.48026854	1.855862	0	0.00312015	0.192	5040 tags=44%, list=20%, signal=55%
PURINE_RIBONUCLEOTIDE_BINDING	202	0.50456524	1.8525562	0	0.00336024	0.205	4828 tags=38%, list=19%, signal=46%
LIGASE_ACTIVITY	92	0.55863476	1.8439981	0	0.00385178	0.232	4902 tags=46%, list=19%, signal=56%
PHOSPHOPROTEIN_PHOSPHATASE_ACTIVITY	81	0.56833035	1.8439037	0	0.00382135	0.232	4146 tags=36%, list=16%, signal=43%
NEGATIVE_REGULATION_OF_PROGRAMMED_CELL_DEATH	151	0.51412237	1.843721	0	0.00377792	0.232	4151 tags=42%, list=17%, signal=50%
REGULATION_OF_APOPTOSIS	335	0.4803715	1.8423828	0	0.00380495	0.236	5040 tags=44%, list=20%, signal=55%
PROTEIN_TYROSINE_PHOSPHATASE_ACTIVITY	53	0.6065121	1.8422935	0	0.00376268	0.236	4146 tags=40%, list=16%, signal=47%
HELICASE_ACTIVITY	51	0.6099546	1.8420389	0	0.00374842	0.238	4160 tags=43%, list=17%, signal=52%
UBIQUITIN_PROTEIN_LIGASE_ACTIVITY	45	0.62401825	1.8393803	0.00182149	0.00388228	0.245	4405 tags=38%, list=18%, signal=46%
NEGATIVE_REGULATION_OF_APOPTOSIS	150	0.51431805	1.83867	0	0.00387984	0.247	4151 tags=42%, list=17%, signal=50%
PROTEIN_KINASE_CASCADE	289	0.48455542	1.8367732	0	0.00394272	0.255	4777 tags=40%, list=19%, signal=49%
NEGATIVE_REGULATION_OF_RNA_METABOLIC_PROCESS	128	0.5261323	1.8331424	0	0.00427603	0.274	3936 tags=33%, list=16%, signal=39%
PURINE_NUCLEOTIDE_BINDING	208	0.4949573	1.8323383	0	0.00430914	0.277	4828 tags=38%, list=19%, signal=47%
POSITIVE_REGULATION_OF_CELLULAR_METABOLIC_PROCESS	218	0.4952561	1.8319817	0	0.00428948	0.279	4626 tags=34%, list=18%, signal=42%
REGULATION_OF_ORGANELLE_ORGANIZATION_AND_BIOGENESIS	40	0.63935834	1.8319668	0	0.00424571	0.279	4200 tags=45%, list=17%, signal=54%
HORMONE_RECEPTOR_BINDING	23	0.70445955	1.828689	0	0.00443935	0.292	3757 tags=52%, list=15%, signal=61%
VESICLE_MEMBRANE	30	0.66237634	1.8254074	0	0.0045683	0.302	3768 tags=53%, list=15%, signal=63%
PROTEIN_AMINO_ACID_DEPHOSPHORYLATION	63	0.5875912	1.825326	0	0.00453495	0.302	3545 tags=33%, list=14%, signal=39%
PROTEIN_RNA_COMPLEX_ASSEMBLY	64	0.57770884	1.8239572	0	0.00455128	0.305	6408 tags=64%, list=25%, signal=86%
POSITIVE_REGULATION_OF_METABOLIC_PROCESS	225	0.4904414	1.8237529	0	0.00450709	0.305	4626 tags=35%, list=18%, signal=42%
NEGATIVE_REGULATION_OF_CELL_CYCLE	78	0.5599447	1.8220341	0	0.0046082	0.313	2943 tags=28%, list=12%, signal=32%
KINASE_ACTIVITY	365	0.46827665	1.8201478	0	0.00467081	0.318	5405 tags=40%, list=21%, signal=50%
RNA_CATABOLIC_PROCESS	23	0.7066339	1.8172433	0.00186567	0.00485882	0.331	4241 tags=52%, list=17%, signal=63%
GOLGI_ASSOCIATED_VESICLE	28	0.66825926	1.8156934	0.00347826	0.00499967	0.342	3609 tags=50%, list=14%, signal=58%
CELL_CYCLE_GO_0007049	311	0.47580743	1.8143963	0	0.00508083	0.349	5498 tags=37%, list=22%, signal=47%
VESICLE_COAT	16	0.7699287	1.8140155	0.00197628	0.00507852	0.35	3361 tags=63%, list=13%, signal=72%
CELL_CYCLE_ARREST_GO_0007050	56	0.59077907	1.8116516	0	0.00521443	0.361	5880 tags=46%, list=23%, signal=60%
TRANSFERASE_ACTIVITY__TRANSFERRING_PHOSPHORUS_CONTAINING_GROUPS	419	0.4610493	1.8116127	0	0.00516745	0.362	5418 tags=39%, list=22%, signal=49%
REGULATION_OF_DNA_BINDING	46	0.6160592	1.8112905	0.00181159	0.00514265	0.364	3885 tags=41%, list=15%, signal=49%
ADHERENS_JUNCTION	22	0.7168542	1.8090314	0	0.00524002	0.37	2266 tags=50%, list=9%, signal=55%
CYTOSKELETON	357	0.46847314	1.8077714	0	0.00524773	0.373	4706 tags=32%, list=19%, signal=38%
NEGATIVE_REGULATION_OF_TRANSCRIPTION__DNA_DEPENDENT	126	0.5250936	1.8071288	0	0.0052867	0.379	3936 tags=33%, list=16%, signal=38%
CYTOSKELETAL_PROTEIN_BINDING	156	0.5106411	1.805391	0	0.00539918	0.391	4413 tags=33%, list=18%, signal=39%
NUCLEAR_HORMONE_RECEPTOR_BINDING	22	0.7070923	1.8030882	0	0.00553098	0.397	3757 tags=55%, list=15%, signal=64%
TRNA_METABOLIC_PROCESS	19	0.733377	1.8014129	0	0.00564153	0.405	4530 tags=68%, list=18%, signal=83%
PROTEIN_KINASE_ACTIVITY	283	0.47525424	1.8005203	0	0.00566701	0.408	5328 tags=40%, list=21%, signal=50%
POSITIVE_REGULATION_OF_CELL_DIFFERENTIATION	24	0.6863632	1.7993236	0.00186916	0.00574311	0.415	4428 tags=33%, list=18%, signal=40%
REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	39	0.6201806	1.7983767	0	0.00573651	0.418	3885 tags=41%, list=15%, signal=48%
PHOSPHATASE_INHIBITOR_ACTIVITY	11	0.85356814	1.7959628	0	0.00590428	0.433	2299 tags=45%, list=9%, signal=50%
NEGATIVE_REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	45	0.6022377	1.7925594	0	0.00620537	0.449	2046 tags=29%, list=8%, signal=31%
SEQUENCE_SPECIFIC_DNA_BINDING	57	0.57665074	1.7925495	0	0.00615533	0.449	2975 tags=30%, list=12%, signal=34%
ESTABLISHMENT_OF_CELLULAR_LOCALIZATION	345	0.46404353	1.7904751	0	0.00639121	0.463	4405 tags=39%, list=18%, signal=46%
HOMEOSTASIS_OF_NUMBER_OF_CELLS	20	0.70943695	1.7853676	0.00187617	0.00685986	0.492	910 tags=35%, list=4%, signal=36%
PHOSPHOTRANSFERASE_ACTIVITY__ALCOHOL_GROUP_AS_ACCEPTOR	330	0.46539095	1.7841866	0	0.00698976	0.504	5328 tags=39%, list=21%, signal=49%
UBIQUITIN_CYCLE	46	0.59749895	1.7839519	0	0.0069642	0.505	5121 tags=48%, list=20%, signal=60%

RIBOSOME_BIOGENESIS_AND_ASSEMBLY	17	0.73755115	1.7818667	0	0.00712137	0.515	5582	tags=82%, list=22%, signal=106%
INTERMEDIATE_FILAMENT	23	0.6893677	1.78	0.0019084	0.00730321	0.527	317	tags=17%, list=1%, signal=18%
PERINUCLEAR_REGION_OF_CYTOPLASM	53	0.579146	1.7777379	0	0.00746548	0.542	2901	tags=32%, list=12%, signal=36%
RNA_SPLICING_FACTOR_ACTIVITY__TRANSESTERIFICATION_MECHANISM	19	0.71132755	1.7773919	0	0.0079421	0.569	5626	tags=74%, list=22%, signal=95%
KINASE_BINDING	69	0.5502214	1.7727478	0	0.0080038	0.573	4208	tags=39%, list=17%, signal=47%
SMALL_NUCLEAR_RIBONUCLEOPROTEIN_COMPLEX	21	0.69443214	1.7711582	0	0.00816368	0.583	5730	tags=76%, list=23%, signal=99%
REGULATION_OF_TRANSFORMING_GROWTH_FACTOR_BETA_RECEPTOR_SIGNALING_PATHWAY	14	0.7657647	1.7692639	0.00204918	0.00833118	0.595	2593	tags=29%, list=10%, signal=32%
I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	112	0.5110772	1.7683724	0	0.00838817	0.6	4699	tags=46%, list=19%, signal=57%
REGULATION_OF_MITOTIC_CELL_CYCLE	22	0.681358	1.7682081	0.0035524	0.00836288	0.601	819	tags=23%, list=3%, signal=23%
MYOBLAST_DIFFERENTIATION	17	0.7306395	1.7670319	0.00575816	0.00840922	0.608	2024	tags=24%, list=8%, signal=26%
INTERMEDIATE_FILAMENT_CYTOSKELETON	23	0.6893677	1.7667463	0	0.00836654	0.608	317	tags=17%, list=1%, signal=18%
DEPHOSPHORYLATION	70	0.5492232	1.7667066	0	0.00830678	0.608	4808	tags=37%, list=19%, signal=46%
TRANSLATION	176	0.49123588	1.7666426	0	0.00828283	0.61	5354	tags=44%, list=21%, signal=56%
BASOLATERAL_PLASMA_MEMBRANE	34	0.6284349	1.7619641	0.00182815	0.0089042	0.645	2597	tags=41%, list=10%, signal=46%
RAS_GTPASE_BINDING	24	0.67935413	1.7604384	0.00184843	0.00904767	0.658	3165	tags=50%, list=13%, signal=57%
NEGATIVE_REGULATION_OF_PROTEIN_METABOLIC_PROCESS	48	0.5902538	1.7600341	0	0.00906137	0.66	2046	tags=27%, list=8%, signal=29%
REGULATION_OF_PROTEIN_KINASE_ACTIVITY	155	0.49002585	1.7598573	0	0.0090165	0.66	4585	tags=38%, list=18%, signal=46%
CYTOPLASMIC_VESICLE_MEMBRANE	28	0.6587035	1.7597169	0	0.00898771	0.661	3768	tags=54%, list=15%, signal=63%
MUSCLE_CELL_DIFFERENTIATION	22	0.68682146	1.7596041	0.00375235	0.00894381	0.661	2024	tags=18%, list=8%, signal=20%
NEGATIVE_REGULATION_OF_TRANSCRIPTION_FROM_RNA_POLYMERASE_II_PROMOTER	82	0.54279786	1.7587075	0	0.00898411	0.665	5989	tags=50%, list=24%, signal=65%
RNA_HELICASE_ACTIVITY	24	0.6714373	1.7580432	0.00185529	0.00899769	0.668	3757	tags=46%, list=15%, signal=54%
MOTOR_ACTIVITY	27	0.6605234	1.7562097	0	0.00921011	0.681	3373	tags=30%, list=13%, signal=34%
CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	205	0.47684762	1.752743	0	0.00969033	0.701	3819	tags=31%, list=15%, signal=36%
CELL_JUNCTION	80	0.53495836	1.7509701	0	0.00986887	0.712	2618	tags=31%, list=10%, signal=35%
ENDOSOME_TRANSPORT	23	0.67033815	1.7508383	0.0018797	0.00982084	0.714	4978	tags=61%, list=20%, signal=76%
MYELOID_CELL_DIFFERENTIATION	37	0.6201245	1.747451	0.0018018	0.01026292	0.73	1717	tags=30%, list=7%, signal=32%
ACTIN_CYTOSKELETON	125	0.5125259	1.7471099	0	0.01023672	0.731	4652	tags=38%, list=18%, signal=46%
MYELOID_LEUKOCYTE_DIFFERENTIATION	15	0.74425584	1.7464988	0	0.01028211	0.736	1717	tags=27%, list=7%, signal=29%
POSITIVE_REGULATION_OF_CELL_ADHESION	13	0.7546882	1.7429764	0.00743494	0.01085975	0.756	2855	tags=38%, list=11%, signal=43%
RRNA_PROCESSING	14	0.755936	1.7419138	0.00369686	0.01094773	0.759	5582	tags=86%, list=22%, signal=110%
REGULATION_OF_DEVELOPMENTAL_PROCESS	433	0.44371867	1.7410092	0	0.01101895	0.76	5040	tags=40%, list=20%, signal=50%
REGULATION_OF_TRANSFERASE_ACTIVITY	161	0.48156694	1.7400142	0	0.0111128	0.767	4585	tags=37%, list=18%, signal=45%
STRUCTURAL_CONSTITUENT_OF_RIBOSOME	79	0.5363326	1.7375906	0	0.01141186	0.776	5354	tags=53%, list=21%, signal=67%
PROTEIN_SERINE_THREONINE_KINASE_ACTIVITY	203	0.47152406	1.7320479	0	0.01226864	0.808	5316	tags=40%, list=21%, signal=51%
CYTOPLASMIC_VESICLE_PART	28	0.6587035	1.73018	0	0.01242117	0.816	3768	tags=54%, list=15%, signal=63%
PROTEIN_UBIQUITINATION	38	0.60410696	1.7304559	0.00185185	0.01239111	0.816	5121	tags=42%, list=20%, signal=53%
ENZYME_LINKED_RECEPTOR_PROTEIN_SIGNALING_PATHWAY	139	0.4958478	1.7301387	0	0.01233125	0.818	4768	tags=34%, list=19%, signal=41%
PROTEIN_MODIFICATION_BY_SMALL_PROTEIN_CONJUGATION	40	0.59731305	1.7289627	0.00194175	0.01245047	0.822	5121	tags=40%, list=20%, signal=50%
CELLULAR_LOCALIZATION	363	0.44475338	1.7262176	0	0.0128625	0.838	4405	tags=37%, list=18%, signal=45%
RUFFLE	31	0.62826943	1.7243397	0.00357143	0.01313773	0.843	3603	tags=55%, list=14%, signal=64%
NEGATIVE_REGULATION_OF_GROWTH	39	0.597254	1.7223791	0.00383142	0.0135352	0.858	2616	tags=26%, list=10%, signal=29%
REGULATION_OF_KINASE_ACTIVITY	157	0.4851815	1.7200768	0	0.01386955	0.865	4585	tags=38%, list=18%, signal=46%
LEADING_EDGE	47	0.5732438	1.7193012	0	0.01386739	0.869	3611	tags=47%, list=14%, signal=55%
POSITIVE_REGULATION_OF_SIGNAL_TRANSDUCTION	124	0.49970478	1.7170078	0	0.01429608	0.877	4699	tags=44%, list=19%, signal=53%
NUCLEOTIDE_BINDING	221	0.46337837	1.7163544	0	0.01429893	0.879	4828	tags=37%, list=19%, signal=45%
NEGATIVE_REGULATION_OF_PHOSPHATE_METABOLIC_PROCESS	13	0.7635427	1.7163078	0	0.01423124	0.88	2593	tags=23%, list=10%, signal=26%
INTERPHASE	67	0.5473161	1.7160926	0.00172117	0.0141709	0.88	5237	tags=45%, list=21%, signal=56%
ADP_BINDING	11	0.805532	1.7125686	0.00582524	0.01467065	0.89	764	tags=36%, list=3%, signal=37%
STRUCTURAL_MOLECULE_ACTIVITY	238	0.45567304	1.7125509	0	0.01459472	0.89	5354	tags=37%, list=21%, signal=47%
VESICLE_MEDIATED_TRANSPORT	192	0.46760067	1.7109	0	0.01487525	0.901	4617	tags=41%, list=18%, signal=50%
ENZYME_BINDING	177	0.47390518	1.7043713	0	0.01616685	0.912	4841	tags=40%, list=19%, signal=49%
UBIQUITIN_BINDING	11	0.793386	1.7041869	0.00992064	0.01611822	0.913	4706	tags=73%, list=19%, signal=89%
REGULATION_OF_CELLULAR_PROTEIN_METABOLIC_PROCESS	157	0.47540778	1.7037841	0	0.01609762	0.913	3033	tags=26%, list=12%, signal=30%
RNA_EXPORT_FROM_NUCLEUS	21	0.66899335	1.7024788	0.00548446	0.01629653	0.918	4897	tags=52%, list=19%, signal=65%
PROTEIN_TARGETING	107	0.4986622	1.7010429	0	0.01651056	0.921	5915	tags=52%, list=24%, signal=68%
SPLICEOSOME_ASSEMBLY	21	0.67287517	1.6943074	0.00770713	0.01788654	0.944	6727	tags=81%, list=27%, signal=110%
REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	92	0.50742644	1.6926173	0	0.0181281	0.945	4699	tags=47%, list=19%, signal=57%
ORGANELLE_ENVELOPE	162	0.47107145	1.6925672	0	0.01805843	0.945	5073	tags=42%, list=20%, signal=52%
STRUCTURAL_CONSTITUENT_OF_CYTOSKELETON	56	0.55428946	1.6922845	0	0.01801387	0.946	4624	tags=34%, list=18%, signal=41%
SKELETAL_MUSCLE_DEVELOPMENT	31	0.6197629	1.691043	0	0.01814711	0.948	3939	tags=26%, list=16%, signal=31%
NEGATIVE_REGULATION_OF_PHOSPHORYLATION	12	0.77717656	1.6902683	0.00581395	0.01828015	0.951	2593	tags=25%, list=10%, signal=28%
NUCLEOLAR_PART	17	0.7100589	1.6867696	0.0020202	0.01902136	0.961	5675	tags=76%, list=23%, signal=99%
ENVELOPE	162	0.47107145	1.6851894	0	0.01936823	0.964	5073	tags=42%, list=20%, signal=52%
REGULATION_OF_PROTEIN_METABOLIC_PROCESS	168	0.46883237	1.6834152	0	0.01969071	0.969	3033	tags=26%, list=12%, signal=29%
MRNA_SPLICE_SITE_SELECTION	13	0.7406232	1.6823665	0.00767754	0.01989641	0.97	4818	tags=69%, list=19%, signal=86%
APOPTOTIC_PROGRAM	59	0.5482457	1.6818644	0.00174825	0.01989645	0.971	4870	tags=46%, list=19%, signal=57%
REGULATION_OF_CELL_PROLIFERATION	305	0.43899733	1.6815057	0	0.01991339	0.972	3548	tags=26%, list=14%, signal=29%
SMALL_CONJUGATING_PROTEIN_BINDING	12	0.7837699	1.6783366	0.00773694	0.02064917	0.979	4706	tags=67%, list=19%, signal=82%
INTRACELLULAR_PROTEIN_TRANSPORT	140	0.474151	1.6779164	0	0.02066968	0.98	4372	tags=42%, list=17%, signal=51%
RRNA_METABOLIC_PROCESS	15	0.72763216	1.67464	0.00592885	0.02131986	0.983	5582	tags=80%, list=22%, signal=103%
TRANSMEMBRANE_RECEPTOR_PROTEIN_TYROSINE_KINASE_SIGNALING_PATHWAY	83	0.50744504	1.6742498	0	0.02133059	0.984	5736	tags=46%, list=23%, signal=59%
DNA_DIRECTED_RNA_POLYMERASE_II__HOLOENZYME	59	0.53508455	1.6741482	0	0.02124284	0.984	6181	tags=61%, list=25%, signal=81%
REGULATION_OF_ACTIN_POLYMERIZATION_AND_OR_DEPOLYMERIZATION	12	0.7496483	1.6720245	0.00389105	0.02161611	0.985	2046	tags=42%, list=8%, signal=45%
ORGANELLE_ORGANIZATION_AND_BIOGENESIS	468	0.42265773	1.6714231	0	0.02163233	0.985	5522	tags=38%, list=22%, signal=48%
REGULATION_OF_MOLECULAR_FUNCTION	321	0.4349031	1.670624	0	0.02170806	0.985	4871	tags=36%, list=19%, signal=44%
MAGNESIUM_ION_BINDING	61	0.53271115	1.6701593	0	0.02175904	0.985	5407	tags=49%, list=21%, signal=62%
CELL_SUBSTRATE_ADHERENS_JUNCTION	16	0.6898071	1.6688787	0.00760456	0.02195289	0.986	2266	tags=50%, list=9%, signal=55%
POSITIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	214	0.4538016	1.668456	0	0.02195334	0.986	5040	tags=41%, list=20%, signal=51%
POST_TRANSLATIONAL_PROTEIN_MODIFICATION	467	0.4217418	1.6676307	0	0.02216799	0.987	4808	tags=31%, list=19%, signal=38%
CELL_MATRIX_JUNCTION	18	0.6835925	1.6673872	0.01115242	0.0221324	0.987	2266	tags=44%, list=9%, signal=49%
REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	123	0.48482248	1.6631851	0	0.02218821	0.992	4200	tags=38%, list=17%, signal=46%
NEGATIVE_REGULATION_OF_CELL_PROLIFERATION	155	0.4616965	1.6600304	0.00164474	0.02397576	0.994	3509	tags=26%, list=14%, signal=31%
ECTODERM_DEVELOPMENT	77	0.51529163	1.6592292	0.00173611	0.02414259	0.994	1665	tags=18%, list=7%, signal=19%
CYTOSKELETAL_PART	227	0.44534537	1.6591309	0	0.02408069	0.994	3592	tags=25%, list=14%, signal=29%
ATPASE_ACTIVITY	112	0.48623246	1.658797	0	0.02409508	0.994	4160	tags=33%, list=17%, signal=39%
REGULATION_OF_CYTOSKELETON_ORGANIZATION_AND_BIOGENESIS	30	0.6087526	1.6586481	0.01500938	0.02404002	0.994	5890	tags=50%, list=23%, signal=65%
SECRETORY_PATHWAY	81	0.5027318	1.6538827	0	0.02518803	0.994	4604	tags=38%, list=18%, signal=47%
NEGATIVE_REGULATION_OF_BINDING	18	0.6718733	1.6474241	0.01071429	0.02706049	0.994	3430	tags=39%, list=14%, signal=45%
EPIDERMIS_DEVELOPMENT	68	0.5242307	1.6461148	0.0016835	0.02737961	0.994	1665	tags=19%, list=7%, signal=20%
TRANSCRIPTION_INITIATION	26	0.6223423	1.6453327	0.00560748	0.0275378	0.994	5009	tags=58%, list=20%, signal=72%
POSITIVE_REGULATION_OF_TRANSFERASE_ACTIVITY	86	0.49842203	1.645092	0	0.02747956	0.994	4585	tags=43%, list=18%, signal=52%
GOLGI_VESICLE_TRANSPORT	47	0.5453441	1.6442453	0	0.02762443	0.994	4604	tags=47%, list=18%, signal=57%
MYOFIBRIL	19	0.6671165	1.6400765	0.0198915	0.02873044	0.994	599	tags=26%, list=2%, signal=27%
POSITIVE_REGULATION_OF_I_KAPPAB_KINASE_NF_KAPPAB_CASCADE	87	0.49982587	1.6386536	0	0.02911922	0.995	4699	tags=47%, list=19%, signal=58%
REGULATION_OF_CELLULAR_COMPONENT_SIZE	14	0.710642	1.6378235	0.02004008	0.02929874	0.995	4736	tags=57%, list=19%, signal=70%
CHROMOSOME	121	0.46925035	1.6353621	0	0.02997476	0.996	6068	tags=45%, list=24%, signal=60%
KINASE_ACTIVATOR_ACTIVITY	12	0.7413255	1.6349207	0.0131579	0.03000614	0.996	4405	tags=42%, list=18%, signal=50%
CELLULAR_MACROMOLECULE_CATABOLIC_PROCESS	99	0.4863924	1.6345682	0.00163132	0.02997104	0.996	4241	tags=38%, list=17%, signal=46%
MICROTUBULE_BASED_PROCESS	80	0.4909748	1.6343658	0	0.02988763	0.996	6018	tags=46%, list=24%, signal=61%
MACROMOLECULE_CATABOLIC_PROCESS	131	0.47005942	1.6343257	0	0.02976746	0.996	4771	tags=38%, list=19%, signal=47%
RESPONSE_TO_STRESS	499	0.4100436	1.6333828	0	0.0299765	0.996	4177	tags=30%, list=17%, signal=35%
HEPARIN_BINDING	23	0.63752514	1.6327454	0.00722022	0.03011075	0.996	1225	tags=30%, list=5%, signal=32%
CELL_CORTEX_PART	23	0.6305011	1.6324108	0.00910747	0.03007129	0.996	4268	tags=39%, list=17%, signal=47%
ATP_DEPENDENT_HELICASE_ACTIVITY	27	0.6087	1.6307074	0.00769231	0.03051681	0.996	6622	tags=74%, list=26%, signal=100%
THYROID_HORMONE_RECEPTOR_BINDING	12	0.7467734	1.6305476	0.01167315	0.03043323	0.996	3090	tags=58%, list=12%, signal=66%
MRNA_BINDING	23	0.630849	1.6291708	0.01872659	0.03084592	0.997	4530	tags=57%, list=18%, signal=69%
APOPTOTIC_NUCLEAR_CHANGES	19	0.6606198	1.6276263	0.01701323	0.03131336	0.997	2601	tags=37%, list=10%, signal=41%
CHLORIDE_CHANNEL_ACTIVITY	19	0.64804375	1.6273506	0.01364522	0.03123847	0.997	4413	tags=32%, list=18%, signal=38%
ACTIN_POLYMERIZATION_AND_OR_DEPOLYMERIZATION	23	0.63192445	1.6253797	0.01107011	0.03173031	0.997	2159	tags=39%, list=9%, signal=43%
TRANSCRIPTION_ELONGATION_REGULATOR_ACTIVITY	12	0.7203893	1.6238393	0.01792829	0.03211017	0.997	4600	tags=50%, list=18%, signal=61%
NUCLEAR_EXPORT	34	0.5779472	1.6226226	0.00739372	0.03243055	0.997	4897	tags=50%, list=19%, signal=62%
FOCAL_ADHESION	13	0.7095329	1.6190907	0.00796813	0.03360018	0.997	2266	tags=54%, list=9%, signal=59%
GROWTH	76	0.5018876	1.6165686	0.00351494	0.0343416	0.997	4965	tags=32%, list=20%, signal=39%
NEGATIVE_REGULATION_OF_CELLULAR_COMPONENT_ORGANIZATION_AND_BIOGENESIS	28	0.6076637	1.615608	0.01704546	0.03454159	0.997	2046	tags=36%, list=8%, signal=39%
MITOTIC_CELL_CYCLE	150	0.45433792	1.6153342	0	0.03450076	0.997	5498	tags=37%, list=22%, signal=47%
CELLULAR_BIOSYNTHETIC_PROCESS	314	0.42366254	1.6149879	0	0.03446602	0.997	5354	tags=41%, list=21%, signal=52%
REGULATION_OF_ACTIN_FILAMENT_LENGTH	13	0.7128526	1.6145817	0.01949318	0.03449051	0.997	2046	tags=38%, list=8%, signal=42%
MACROMOLECULE_LOCALIZATION	228	0.43533102	1.6139783	0	0.03460044	0.998	4372	tags=38%, list=17%, signal=45%
CELLULAR_COMPONENT_ASSEMBLY	279	0.42652494	1.6132785	0	0.0347586	0.999	4453	tags=34%, list=18%, signal=41%
NEGATIVE_REGULATION_OF_DEVELOPMENTAL_PROCESS	197	0.4385796	1.6125919	0	0.03488698	0.999	4151	tags=35%, list=17%, signal=42%
TRANSCRIPTION_INITIATION_FROM_RNA_POLYMERASE_II_PROMOTER	20	0.63630664	1.6108515	0.00792079	0.03543712	0.999	5963	tags=70%, list=24%, signal=92%
REGULATION_OF_GROWTH	57	0.5266297	1.6087029	0	0.03606799	0.999	4965	tags=35%, list=20%, signal=44%
ATPASE_ACTIVITY__COUPLED	93	0.47995538	1.6067232	0.0016835	0.03662846	0.999	4127	tags=32%, list=16%, signal=38%
ANION_CHANNEL_ACTIVITY	19	0.64804375	1.6049337	0.01666667	0.03721281	0.999	4413	tags=32%, list=18%, signal=38%
PROTEIN_SERINE_THREONINE_TYROSINE_KINASE_ACTIVITY	10	0.7608489	1.6046501	0.01789264	0.03718672	0.999	3699	tags=60%, list=15%, signal=70%
MACROMOLECULAR_COMPLEX_ASSEMBLY	261	0.42691463	1.6035558	0	0.0374843	0.999	4721	tags=37%, list=19%, signal=45%
GOLGI_APPARATUS_PART	96	0.47939655	1.6018138	0.00169779	0.03799069	0.999	4521	tags=44%, list=18%, signal=53%
REGULATION_OF_CYCLIN_DEPENDENT_PROTEIN_KINASE_ACTIVITY	43	0.54772496	1.6010085	0.0093633	0.03813389	0.999	2593	tags=26%, list=10%, signal=28%
CASPASE_ACTIVATION	25	0.6143228	1.6009684	0.01301115	0.03799972	0.999	4817	tags=48%, list=19%, signal=59%
PROTEIN_SERINE_THREONINE_PHOSPHATASE_ACTIVITY	24	0.6155298	1.5987731	0.00884956	0.0387149	0.999	5709	tags=58%, list=23%, signal=75%
SMALL_CONJUGATING_PROTEIN_SPECIFIC_PROTEASE_ACTIVITY	10	0.7487786	1.5979421	0.02099237	0.03893136	0.999	2211	tags=40%, list=9%, signal=44%
DNA_DAMAGE_RESPONSE__SIGNAL_TRANSDUCTION_BY_P53_CLASS_MEDIATOR	13	0.70825714	1.5973253	0.00592885	0.03899463	0.999	3496	tags=38%, list=14%, signal=45%
RNA_ELONGATION	10	0.76544374	1.5971398	0.01574803	0.03891663	0.999	4600	tags=70%, list=18%, signal=86%
PROTEIN_TRANSPORT	152	0.448408	1.5962732	0	0.03909805	0.999	4372	tags=41%, list=17%, signal=50%
REGULATION_OF_SIGNAL_TRANSDUCTION	220	0.42900172	1.5951848	0	0.03934711	0.999	4768	tags=35%, list=19%, signal=43%
COLLAGEN	23	0.6232746	1.594945	0.02169982	0.03929651	0.999	2421	tags=39%, list=10%, signal=43%
POSITIVE_REGULATION_OF_BINDING	27	0.5975053	1.5948342	0.01359223	0.03919407	0.999	4539	tags=48%, list=18%, signal=59%
POSITIVE_REGULATION_OF_DNA_BINDING	25	0.6036586	1.5930758	0.01441442	0.03975895	0.999	4539	tags=48%, list=18%, signal=59%
INTERPHASE_OF_MITOTIC_CELL_CYCLE	61	0.503796	1.5919741	0.00182149	0.04006436	1	5237	tags=41%, list=21%, signal=52%
ADENYL_RIBONUCLEOTIDE_BINDING	162	0.44233683	1.5894094	0	0.04091515	1	4768	tags=34%, list=19%, signal=42%
STRIATED_MUSCLE_DEVELOPMENT	40	0.55740297	1.5884733	0.00724638	0.04116679	1	3939	tags=23%, list=16%, signal=27%
REGULATION_OF_TRANSLATION	90	0.48632917	1.587268	0.0034662	0.04146801	1	3317	tags=28%, list=13%, signal=32%
NLS_BEARING_SUBSTRATE_IMPORT_INTO_NUCLEUS	13	0.71834743	1.5858847	0.01503759	0.041919	1	3650	tags=62%, list=15%, signal=72%
POSITIVE_REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	23	0.6117977	1.5850133	0.01401051	0.04204384	1	3885	tags=43%, list=15%, signal=51%
PROTEIN_KINASE_BINDING	61	0.5126748	1.5833786	0.0083612	0.04261643	1	4208	tags=36%, list=17%, signal=43%
INSULIN_LIKE_GROWTH_FACTOR_RECEPTOR_BINDING	10	0.7422863	1.583338	0.01992032	0.04246992	1	790	tags=30%, list=3%, signal=31%
PHOSPHORYLATION	307	0.4132152	1.583213	0	0.04236022	1	6318	tags=41%, list=25%, signal=54%
INTERCELLULAR_JUNCTION	64	0.50544536	1.5797222	0.00352113	0.04362192	1	2618	tags=28%, list=10%, signal=31%
DNA_REPLICATION	98	0.47540826	1.5786254	0.00536673	0.04397274	1	5416	tags=40%, list=22%, signal=51%
ACTIN_FILAMENT	17	0.65992296	1.5776631	0.02589642	0.04420488	1	1365	tags=29%, list=5%, signal=31%
PROTEIN_AMINO_ACID_AUTOPHOSPHORYLATION	31	0.56663615	1.5743372	0.01377953	0.04554525	1	7206	tags=61%, list=29%, signal=86%
INDUCTION_OF_APOPTOSIS_BY_INTRACELLULAR_SIGNALS	24	0.5998308	1.5734373	0.02443609	0.04578364	1	3232	tags=33%, list=13%, signal=38%

RNA_DEPENDENT_ATPASE_ACTIVITY	18	0.6381389	1.5729166	0.02398524	0.04583609	1	3757	tags=44%, list=15%, signal=52%
REGULATION_OF_TRANSPORT	65	0.50255823	1.5726172	0.00503356	0.04576074	1	2949	tags=26%, list=12%, signal=30%
REGULATION_OF_CELL_GROWTH	45	0.5397814	1.5724726	0.00736648	0.04565985	1	4965	tags=42%, list=20%, signal=53%
TRANSLATIONAL_INITIATION	36	0.5535418	1.5723628	0.01088929	0.04556055	1	3648	tags=42%, list=15%, signal=49%
ADENYL_NUCLEOTIDE_BINDING	168	0.43307868	1.5714543	0	0.04578682	1	4768	tags=35%, list=19%, signal=42%
PROTEIN_KINASE_REGULATOR_ACTIVITY	39	0.55002505	1.570795	0.01974865	0.04590825	1	3653	tags=28%, list=15%, signal=33%
POSITIVE_REGULATION_OF_CASPASE_ACTIVITY	28	0.5773355	1.5697871	0.01498127	0.04611751	1	4817	tags=43%, list=19%, signal=53%
REGULATION_OF_NUCLEOCYTOPLASMIC_TRANSPORT	22	0.61606365	1.5697684	0.01714286	0.04598298	1	2370	tags=32%, list=9%, signal=35%
ACTIN_FILAMENT_BUNDLE_FORMATION	12	0.7030536	1.5690141	0.03118908	0.04618751	1	4316	tags=42%, list=17%, signal=50%
PROTEIN_AUTOPROCESSING	32	0.56341404	1.5690104	0.01824817	0.04603232	1	7206	tags=59%, list=29%, signal=83%
STEROID_HORMONE_RECEPTOR_SIGNALING_PATHWAY	15	0.66526484	1.5681324	0.02970297	0.04624765	1	3757	tags=53%, list=15%, signal=63%
PURINE_NUCLEOTIDE_METABOLIC_PROCESS	12	0.70936537	1.5674949	0.02480916	0.04630781	1	2432	tags=33%, list=10%, signal=37%
CYTOSKELETON_DEPENDENT_INTRACELLULAR_TRANSPORT	26	0.6043526	1.5667729	0.01757469	0.04649865	1	3559	tags=38%, list=14%, signal=45%
UBIQUITIN_LIGASE_COMPLEX	25	0.6016522	1.5666163	0.01289135	0.04641552	1	6709	tags=52%, list=27%, signal=71%
INDUCTION_OF_APOPTOSIS_BY_EXTRACELLULAR_SIGNALS	27	0.58771265	1.5635796	0.01778656	0.04765374	1	5040	tags=52%, list=20%, signal=65%
REGULATION_OF_PROTEIN_IMPORT_INTO_NUCLEUS	16	0.65366715	1.5635076	0.01890359	0.04752604	1	3430	tags=44%, list=14%, signal=51%
NEGATIVE_REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY	15	0.66493386	1.5634167	0.02309059	0.04739911	1	3430	tags=40%, list=14%, signal=46%
MEMBRANE_FUSION	27	0.5810604	1.5630187	0.02281369	0.04741807	1	4516	tags=48%, list=18%, signal=59%
DNA_METABOLIC_PROCESS	251	0.41553983	1.55879	0	0.04902728	1	4247	tags=26%, list=17%, signal=31%
CHROMOSOMAL_PART	94	0.45950308	1.5569558	0.00338409	0.04965719	1	6068	tags=47%, list=24%, signal=61%
CALCIUM_ION_TRANSMEMBRANE_TRANSPORTER_ACTIVITY	11	0.7181926	1.5564916	0.0248566	0.04975615	1	1698	tags=36%, list=7%, signal=39%
PROTEIN_AMINO_ACID_PHOSPHORYLATION	273	0.41239893	1.5564026	0	0.04961956	1	6318	tags=42%, list=25%, signal=56%
REPLICATION_FORK	18	0.6232971	1.555453	0.01798561	0.04991534	1	6046	tags=72%, list=24%, signal=95%

Supplental Table 3B. GSEA applying the c2 curated gene sets.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MA	LEADING EDGE
HCC_SURVIVAL_GOOD_VS_POOR_UP	139	-0.6216995	-2.2713902	0	0	0	3947	tags=44%, list=16%, signal=52%
HSIAO_LIVER_SPECIFIC_GENES	248	-0.5581823	-2.1965322	0	0	0	3956	tags=38%, list=16%, signal=44%
SANSOM_APC_5_DN	330	-0.5329908	-2.156622	0	0	0	2646	tags=29%, list=11%, signal=32%
HSA01032_GLYCAN_STRUCTURES_DEGRADATION	30	-0.758944	-2.1410398	0	0	0	2217	tags=53%, list=9%, signal=58%
HSA00511_N_GLYCAN_DEGRADATION	16	-0.8259946	-2.0183804	0	0.00101479	0.015	4169	tags=81%, list=17%, signal=97%
HSA00040_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS	25	-0.7428018	-2.0083268	0	9.01E-04	0.016	678	tags=40%, list=3%, signal=41%
HSA04612_ANTIGEN_PROCESSING_AND_PRESENTATION	81	-0.5766249	-1.9629775	0	0.0019349	0.038	5665	tags=49%, list=23%, signal=64%
HSA00563_GLYCOSYLPHOSPHATIDYLINOSITOL_ANCHOR_BIOSYNTHESIS	23	-0.7295217	-1.9573638	0.00214592	0.00194637	0.044	2918	tags=57%, list=12%, signal=64%
HSA00480_GLUTATHIONE_METABOLISM	39	-0.6544321	-1.9483595	0	0.00206639	0.053	1452	tags=36%, list=6%, signal=38%
FETAL_LIVER_VS_ADULT_LIVER_GNF2	70	-0.5900008	-1.9416324	0	0.00202713	0.057	4168	tags=41%, list=17%, signal=50%
HSA01031_GLYCAN_STRUCTURES_BIOSYNTHESIS_2	61	-0.5881043	-1.8783379	0	0.00511191	0.149	2918	tags=39%, list=12%, signal=44%
LEE_DENA_DN	73	-0.5612781	-1.8718146	0	0.00510864	0.161	4491	tags=36%, list=18%, signal=43%
HSA04940_TYPE_1_DIABETES_MELLITUS	44	-0.6025201	-1.8685457	0	0.00495361	0.169	2330	tags=34%, list=9%, signal=38%
HSA00980_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	70	-0.5630037	-1.8664087	0	0.00471974	0.174	902	tags=21%, list=4%, signal=22%
HSA00860_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	40	-0.6289949	-1.8601896	0	0.0048141	0.185	1547	tags=28%, list=6%, signal=29%
APPEL_IMATINIB_UP	31	-0.6387288	-1.8467257	0.0045977	0.00554749	0.227	4169	tags=58%, list=17%, signal=70%
LEE_CIP_DN	66	-0.5551506	-1.8370739	0	0.00624898	0.273	4497	tags=36%, list=18%, signal=44%
INTRINSICPATHWAY	21	-0.7046621	-1.817842	0.00224719	0.00804175	0.352	3956	tags=52%, list=16%, signal=62%
HSA03320_PPAR_SIGNALING_PATHWAY	68	-0.5451407	-1.8175415	0	0.0076185	0.352	4143	tags=32%, list=16%, signal=39%
NO2IL12PATHWAY	16	-0.7438682	-1.8046514	0.00210526	0.00878688	0.41	3180	tags=63%, list=13%, signal=71%
TOB1PATHWAY	16	-0.7489029	-1.783597	0	0.01161555	0.529	1357	tags=38%, list=5%, signal=40%
STATIN_PATHWAY_PHARMGKB	18	-0.7093565	-1.7671908	0.00646552	0.01355003	0.591	948	tags=39%, list=4%, signal=40%
DIAB_NEPH_UP	60	-0.5342867	-1.7426834	0	0.0179455	0.688	2951	tags=42%, list=12%, signal=47%
HSA00510_N_GLYCAN_BIOSYNTHESIS	41	-0.5780637	-1.7379285	0	0.01823682	0.709	4507	tags=41%, list=18%, signal=50%
HSA00531_GLYCOSAMINOGLYCAN_DEGRADATION	17	-0.7111252	-1.7299643	0.00840336	0.01908763	0.743	1555	tags=41%, list=6%, signal=44%
WIELAND_HEPATITIS_B_INDUCED	93	-0.492596	-1.7223066	0	0.02020508	0.773	2999	tags=32%, list=12%, signal=36%
HSA04614_RENIN_ANGIOTENSIN_SYSTEM	17	-0.6987255	-1.7122463	0.01279318	0.02184191	0.817	2371	tags=47%, list=9%, signal=52%
GLUTATHIONE_METABOLISM	31	-0.5991247	-1.7013884	0.00865801	0.02423617	0.857	1409	tags=29%, list=6%, signal=31%
HSA00150_ANDROGEN_AND_ESTROGEN_METABOLISM	54	-0.5405413	-1.6996319	0	0.02389991	0.862	678	tags=17%, list=3%, signal=17%
YU_CMYC_DN	44	-0.5490752	-1.6978747	0	0.02354499	0.869	2622	tags=34%, list=10%, signal=38%
DCPATHWAY	21	-0.6544923	-1.6918993	0.00636943	0.02467615	0.891	3312	tags=33%, list=13%, signal=38%
HSA04514_CELL_ADHESION_MOLECULES	133	-0.4683649	-1.6892378	0	0.02471314	0.897	2898	tags=33%, list=12%, signal=37%
CTLA4PATHWAY	17	-0.6907446	-1.6829466	0.01072961	0.02569767	0.911	1357	tags=47%, list=5%, signal=50%
ROSS_MLL_FUSION	73	-0.4998597	-1.6731197	0	0.02752006	0.938	1526	tags=25%, list=6%, signal=26%
RESISTANCE_XENOGRAFTS_UP	28	-0.5934926	-1.6620537	0.00430108	0.03026863	0.952	1027	tags=25%, list=4%, signal=26%
BENNETT_SLE_UP	28	-0.5967727	-1.6608531	0.0045977	0.02970834	0.953	1160	tags=36%, list=5%, signal=37%
TSA_CD4_DN	18	-0.657881	-1.6512276	0.01321586	0.03191976	0.971	2503	tags=44%, list=10%, signal=49%
GLYCOSPHINGOLIPID_METABOLISM	22	-0.6090559	-1.6329017	0.01162791	0.03759005	0.985	3248	tags=55%, list=13%, signal=63%
HSA00590_ARACHIDONIC_ACID_METABOLISM	54	-0.511451	-1.6131154	0.00205761	0.04457585	0.994	3428	tags=31%, list=14%, signal=36%
HSA00592_ALPHA_LINOLENIC_ACID_METABOLISM	15	-0.6767966	-1.6128293	0.01622718	0.04363716	0.995	1442	tags=20%, list=6%, signal=21%
HSA04610_COMPLEMENT_AND_COAGULATION_CASCADES	68	-0.4852642	-1.6118056	0.00665189	0.04292009	0.995	1142	tags=25%, list=5%, signal=26%
HSA00361_GAMMA_HEXACHLOROCYCLOHEXANE_DEGRADATION	23	-0.6174572	-1.6064394	0.01079914	0.04426694	0.996	3547	tags=39%, list=14%, signal=46%
FLECHNER_KIDNEY_TRANSPLANT_REJECTION_UP	81	-0.4747207	-1.6025659	0.00221729	0.0449154	0.996	2533	tags=33%, list=10%, signal=37%
BRENTANI_IMMUNE_FUNCTION	52	-0.4956814	-1.5886543	0.00683371	0.04989293	0.997	3736	tags=42%, list=15%, signal=50%
UVC_HIGH_ALL_DN	281	0.7311077	2.7616491	0	0	0	3473	tags=54%, list=14%, signal=62%
RAS_ONCOGENIC_SIGNATURE	247	0.7313648	2.7165584	0	0	0	3049	tags=48%, list=12%, signal=54%
UVC_XPCS_ALL_DN	448	0.6717067	2.6503847	0	0	0	4567	tags=54%, list=18%, signal=64%
UVC_XPCS_8HR_DN	382	0.6777778	2.6371446	0	0	0	4550	tags=55%, list=18%, signal=66%
UVB_NHEK3_ALL	382	0.66976905	2.6117747	0	0	0	4171	tags=55%, list=17%, signal=65%
UVC_TTD_ALL_DN	337	0.67199916	2.605418	0	0	0	4567	tags=53%, list=18%, signal=64%
ET743_SARCOMA_72HRS_DN	205	0.7012043	2.586437	0	0	0	4764	tags=59%, list=19%, signal=72%
UVC_XPCS_4HR_DN	223	0.6950709	2.5749629	0	0	0	4764	tags=58%, list=19%, signal=71%
UVB_NHEK1_DN	252	0.6801975	2.5491471	0	0	0	4522	tags=48%, list=18%, signal=58%
UVC_TTD_4HR_DN	277	0.6632995	2.5246081	0	0	0	4567	tags=53%, list=18%, signal=65%
ET743_SARCOMA_DN	247	0.6700792	2.493253	0	0	0	4764	tags=57%, list=19%, signal=69%
CHEN_HOXA5_TARGETS_UP	198	0.6797255	2.4865031	0	0	0	4553	tags=57%, list=18%, signal=69%
UVB_NHEK3_C1	56	0.7993145	2.4646053	0	0	0	2882	tags=64%, list=11%, signal=72%
ET743_SARCOMA_48HRS_DN	171	0.67856526	2.4612324	0	0	0	4764	tags=57%, list=19%, signal=70%
UVC_TTD_8HR_DN	157	0.684579	2.4589424	0	0	0	4228	tags=54%, list=17%, signal=64%
UVC_TTD-XPCS_COMMON_DN	136	0.6956368	2.4438024	0	0	0	4713	tags=59%, list=19%, signal=72%
REOVIRUS_HEK293_UP	231	0.6547243	2.4264152	0	0	0	4279	tags=52%, list=17%, signal=62%
HYPOXIA_REVIEW	80	0.74071383	2.426412	0	0	0	2844	tags=54%, list=11%, signal=60%
LEI_MYB_REGULATED_GENES	305	0.63072145	2.4140236	0	0	0	2770	tags=41%, list=11%, signal=46%
BAF57_BT549_DN	308	0.6272466	2.3931077	0	0	0	4317	tags=47%, list=17%, signal=56%
NGUYEN_KERATO_DN	80	0.7314832	2.389196	0	0	0	3202	tags=55%, list=13%, signal=63%
HDACI_COLON_SUL_UP	122	0.68948275	2.385207	0	0	0	3484	tags=55%, list=14%, signal=63%
SMITH_HTERT_UP	101	0.7100272	2.37374	0	0	0	5076	tags=70%, list=20%, signal=88%
UVB_NHEK3_C0	79	0.73286426	2.3713799	0	0	0	4265	tags=61%, list=17%, signal=73%
MENSE_HYPOXIA_UP	98	0.7055276	2.371113	0	0	0	1845	tags=43%, list=7%, signal=46%
UVB_SCC_DN	99	0.70579594	2.366092	0	0	0	3392	tags=53%, list=13%, signal=60%
STEMCELL_COMMON_UP	169	0.6554166	2.357283	0	0	0	4413	tags=57%, list=18%, signal=69%
DIAB_NEPH_DN	357	0.6136923	2.3564508	0	0	0	5089	tags=54%, list=20%, signal=67%
UVB_NHEK1_C6	121	0.67588675	2.329886	0	0	0	4522	tags=46%, list=18%, signal=56%
MRNA_PROCESSING_REACTOME	108	0.6834881	2.3248386	0	0	0	5626	tags=69%, list=22%, signal=89%
ADIP_DIFF_CLUSTER2	39	0.8046276	2.3217697	0	0	0	2251	tags=69%, list=9%, signal=76%
HYPOXIA_REG_UP	36	0.8241779	2.318427	0	0	0	3010	tags=75%, list=12%, signal=85%
ZUCCHI_EPITHELIAL_DN	42	0.79983157	2.2756528	0	0	0	2954	tags=71%, list=12%, signal=81%
ROME_INSULIN_2F_UP	183	0.63674897	2.3169801	0	0	0	4716	tags=56%, list=19%, signal=68%
ET743_SARCOMA_24HRS_DN	102	0.6726107	2.3071294	0	0	0	5166	tags=58%, list=21%, signal=72%
HCC_SURVIVAL_GOOD_VS_POOR_DN	133	0.66835696	2.306035	0	0	0	4558	tags=57%, list=18%, signal=69%
HDACI_COLON_SUL48HRS_UP	83	0.69606674	2.3040853	0	0	0	3484	tags=58%, list=14%, signal=67%
HDACI_COLON_SUL24HRS_UP	60	0.73386663	2.302893	0	0	0	3155	tags=53%, list=13%, signal=61%
CMV_HCMV_TIMECOURSE_14HRS_UP	43	0.7778497	2.3006806	0	0	0	2581	tags=53%, list=10%, signal=60%
UVB_NHEK2_DN	80	0.7063425	2.2913325	0	0	0	3755	tags=59%, list=15%, signal=69%
CROONQUIST_IL6_STROMA_UP	38	0.7948322	2.290348	0	0	0	1781	tags=45%, list=7%, signal=48%
GALINDO_ACT_UP	76	0.7045212	2.2755783	0	0	0	4010	tags=63%, list=16%, signal=75%
UVC_HIGH_D3_DN	44	0.7707451	2.2747502	0	0	0	3040	tags=57%, list=12%, signal=65%
CTNNB1_ONCOGENIC_SIGNATURE	76	0.7083442	2.2654316	0	0	0	4378	tags=54%, list=17%, signal=65%
MYC_ONCOGENIC_SIGNATURE	185	0.6254738	2.2638807	0	0	0	5409	tags=53%, list=22%, signal=67%
BROCKE_IL6	136	0.6390755	2.2590036	0	0	0	3117	tags=44%, list=12%, signal=50%
PENG_RAPAMYCIN_DN	189	0.6234057	2.2572062	0	0	0	5168	tags=61%, list=21%, signal=77%
DSRNA_UP	36	0.7989733	2.2542384	0	0	0	3070	tags=67%, list=12%, signal=76%
CMV_HCMV_TIMECOURSE_6HRS_DN	50	0.75322336	2.2515123	0	0	0	4639	tags=60%, list=18%, signal=73%
UVB_NHEK3_C2	43	0.75715274	2.2499242	0	0	0	2146	tags=53%, list=9%, signal=58%
PENG_GLUTAMINE_DN	252	0.5977815	2.2424083	0	0	0	4628	tags=54%, list=18%, signal=65%
NEMETH_TNF_UP	79	0.6834639	2.2329671	0	0	0	4719	tags=62%, list=19%, signal=76%
KRETZSCHMAR_IL6_DIFF	136	0.6390755	2.230243	0	0	0	3117	tags=44%, list=12%, signal=50%
ADIP_VS_PREADIP_DN	37	0.7703943	2.229811	0	0	0	4325	tags=70%, list=17%, signal=85%
CMV_HCMV_TIMECOURSE_ALL_DN	391	0.5715874	2.2282267	0	0	0	4704	tags=41%, list=19%, signal=49%
HIF1_TARGETS	35	0.79064995	2.2122517	0	0	0	1910	tags=49%, list=8%, signal=52%
ADIPOGENESIS_HMSC_CLASS8_DN	31	0.7870263	2.2115993	0	0	0	2779	tags=52%, list=11%, signal=58%
CROMER_HYPOPHARYNGEAL_MET_VS_NON_DN	76	0.6753014	2.1925118	0	0	0	3260	tags=45%, list=13%, signal=51%
CMV_HCMV_TIMECOURSE_ALL_UP	452	0.55225056	2.1804314	0	0	0	5032	tags=49%, list=20%, signal=60%
NI2_MOUSE_UP	40	0.741643	2.17632	0	0	0	2532	tags=55%, list=10%, signal=61%
BREAST_CANCER_ESTROGEN_SIGNALING	94	0.64981484	2.1725662	0	0	0	1771	tags=30%, list=7%, signal=32%
HDACI_COLON_CURSUL_UP	39	0.75773287	2.1687415	0	0	0	3484	tags=59%, list=14%, signal=68%
HINATA_NFKB_UP	106	0.62944406	2.1603775	0	0	0	4401	tags=45%, list=17%, signal=55%
UVC_HIGH_D2_DN	34	0.77781916	2.1602807	0	0	0	3881	tags=65%, list=15%, signal=76%
PENG_LEUCINE_DN	145	0.6130549	2.160175	0	0	0	5226	tags=63%, list=21%, signal=80%
MRNA_PROCESSING	43	0.7373028	2.1553152	0	0	0	5626	tags=74%, list=22%, signal=96%
SANSOM_APC_LOSS5_UP	78	0.66310555	2.1545901	0	0	0	3586	tags=49%, list=14%, signal=57%
CMV_HCMV_6HRS_DN	54	0.7073888	2.1534245	0	0	0	4590	tags=56%, list=18%, signal=68%
SERUM_FIBROBLAST_CORE_UP	186	0.59465885	2.1526177	0	0	0	4597	tags=48%, list=18%, signal=58%
HYPOXIA_FIBRO_UP	19	0.87061095	2.1522562	0	0	0	3048	tags=79%, list=12%, signal=90%
JECHLINGER_EMT_DN	40	0.73355424	2.1503465	0	0	0	2036	tags=50%, list=8%, signal=54%
RCC_NL_UP	481	0.5420356	2.144737	0	0	0	5039	tags=49%, list=20%, signal=60%
HDACI_COLON_CUR_UP	104	0.62991965	2.1358016	0	0	0	5315	tags=59%, list=21%, signal=74%
WERNER_FIBRO_UP	48	0.7086203	2.1342037	0	0	0	3063	tags=52%, list=12%, signal=59%
CMV_HCMV_TIMECOURSE_20HRS_UP	83	0.65299755	2.1337583	0	0	0	4017	tags=49%, list=16%, signal=59%
IRS_KO_ADIP_UP	27	0.8004494	2.1313698	0	0	0	2875	tags=52%, list=11%, signal=58%
AD12_ANY_DN	27	0.7890966	2.1305473	0	0	0	1495	tags=56%, list=6%, signal=59%
HOFMANN_MDS_CD34_LOW_RISK	51	0.71219003	2.1302714	0	0	0	1858	tags=31%, list=7%, signal=34%
IDX_TSA_UP_CLUSTER1	24	0.81995994	2.1275167	0	0	0	3014	tags=75%, list=12%, signal=85%

PASSERINI_GROWTH	32	0.7768467	2.1254287	0	0	0	2194 tags=47%, list=9%, signal=51%
FLECHNER_KIDNEY_TRANSPLANT_WELL_UP	499	0.53676116	2.1221223	0	0	0	4754 tags=52%, list=19%, signal=63%
BHATTACHARYA_ESC_UP	67	0.6698894	2.1208148	0	0	0	3709 tags=46%, list=15%, signal=54%
UVB_NHEK1_C2	22	0.82801056	2.1183314	0	0	0	1835 tags=59%, list=7%, signal=64%
BRCA1_OVEREXP_DN	104	0.628125	2.118226	0	0	0	5005 tags=60%, list=20%, signal=74%
LVAD_HEARTFAILURE_UP	83	0.6528801	2.1174629	0	0	0	2616 tags=45%, list=10%, signal=50%
VERNELL_PRB_CLSTR2	18	0.8802312	2.1162043	0	0	0	2131 tags=72%, list=8%, signal=79%
EMT_DN	54	0.6821163	2.1149676	0	0	0	2036 tags=41%, list=8%, signal=44%
FSH_GRANULOSA_DN	75	0.651781	2.1141446	0	0	0	3717 tags=43%, list=15%, signal=50%
UVB_NHEK1_UP	170	0.5861571	2.113819	0	0	0	4167 tags=43%, list=17%, signal=51%
BLEO_MOUSE_LYMPH_HIGH_24HRS_DN	34	0.7578431	2.1113348	0	0	0	3450 tags=65%, list=14%, signal=75%
BRCA1_MES_UP	40	0.72991526	2.1079836	0	0	0	3691 tags=60%, list=15%, signal=70%
FSH_OVARY_MCV152_DN	44	0.71253186	2.1053412	0	0	0	5014 tags=66%, list=20%, signal=82%
INOS_ALL_UP	53	0.69055915	2.1046143	0	0	0	3452 tags=58%, list=14%, signal=68%
UVC_HIGH_D4_DN	45	0.7182838	2.1024406	0	0	0	3473 tags=49%, list=14%, signal=57%
INSULIN_ADIP_INSENS_UP	21	0.84055626	2.1008787	0	0	0	2241 tags=71%, list=9%, signal=78%
MYC_TARGETS	41	0.73352754	2.100487	0	0	0	5005 tags=71%, list=20%, signal=88%
LEE_TCELLS9_UP	27	0.7720896	2.0992036	0	0	0	3668 tags=52%, list=15%, signal=61%
DNMT1_KO_UP	73	0.6541672	2.0989451	0	0	0	5022 tags=56%, list=20%, signal=70%
IGF1_NIH3T3_UP	36	0.7421936	2.0934386	0	0	0	2273 tags=44%, list=9%, signal=49%
CMV_UV-CMV_COMMON_HCMV_6HRS_DN	27	0.78365064	2.0900497	0	0	0	3827 tags=67%, list=15%, signal=79%
BRCA1_OVEREXP_PROSTATE_UP	157	0.58371794	2.0888524	0	0	0	3014 tags=38%, list=12%, signal=43%
ESR_FIBROBLAST_UP	50	0.686892	2.0886297	0	0	0	3431 tags=50%, list=14%, signal=58%
AS3_FIBRO_DN	31	0.762978	2.0877326	0	0	0	1623 tags=45%, list=6%, signal=48%
UVC_HIGH_D6_DN	29	0.77306867	2.0845647	0	0	0	2682 tags=55%, list=11%, signal=62%
ADIP_VS_FIBRO_DN	26	0.775795	2.082162	0	0	0	4088 tags=65%, list=16%, signal=78%
LH_GRANULOSA_DN	75	0.651781	2.0811195	0	0	0	3717 tags=43%, list=15%, signal=50%
VHL_NORMAL_UP	403	0.52937466	2.0782256	0	0	0	4662 tags=45%, list=19%, signal=54%
HDACI_COLON_SUL16HRS_UP	40	0.72637904	2.0764806	0	0	0	3239 tags=52%, list=13%, signal=60%
HUMAN_CD34_ENRICHED_TRANSCRIPTION_FACTORS	181	0.56800765	2.0751934	0	0	0	4692 tags=46%, list=19%, signal=57%
CANCER_NEOPLASTIC_META_UP	61	0.67552286	2.0739715	0	0	0	5162 tags=66%, list=21%, signal=82%
CMV_HCMV_TIMECOURSE_20HRS_DN	34	0.73703104	2.0738475	0	0	0	3960 tags=53%, list=16%, signal=63%
IDX_TSA_DN_CLUSTER3	80	0.63549864	2.0725622	0	0	0	2700 tags=43%, list=11%, signal=47%
RIBAVIRIN_RSV_DN	42	0.70265734	2.068854	0	0	0	2146 tags=40%, list=9%, signal=44%
AD12_24HRS_DN	19	0.82372886	2.065237	0	0	0	1495 tags=58%, list=6%, signal=62%
MRNA_SPLICING	50	0.67854124	2.0642505	0	0	0	5626 tags=72%, list=22%, signal=93%
GERY_CEBP_TARGETS	111	0.6055935	2.0624785	0	0	0	2251 tags=35%, list=9%, signal=38%
AGEING_KIDNEY_SPECIFIC_UP	173	0.5752395	2.0601087	0	0	0	3117 tags=39%, list=12%, signal=45%
CIS_XPC_DN	180	0.5702676	2.0579672	0	0	0	5478 tags=48%, list=22%, signal=61%
HDACI_COLON_SUL12HRS_UP	23	0.80439687	2.0556948	0	0	0	2817 tags=61%, list=11%, signal=68%
TGFBETA_ALL_UP	79	0.6358222	2.0528662	0	0	0	2888 tags=46%, list=11%, signal=51%
UVC_HIGH_D5_DN	33	0.7468514	2.0497942	0	0	0	5438 tags=73%, list=22%, signal=93%
SCHUMACHER_MYC_UP	51	0.67054915	2.049625	0	0	0	3919 tags=57%, list=16%, signal=67%
P53_SIGNALING	93	0.6154286	2.0471282	0	1.25E-05	0.001	5118 tags=43%, list=20%, signal=54%
CMV-UV_HCMV_6HRS_DN	103	0.600117	2.037961	0	1.24E-05	0.001	4602 tags=45%, list=18%, signal=54%
HSA04520_ADHERENS_JUNCTION	75	0.62820697	2.0362694	0	1.23E-05	0.001	3133 tags=39%, list=12%, signal=44%
UVB_NHEK3_C5	33	0.7150144	2.0353777	0	1.22E-05	0.001	4323 tags=52%, list=17%, signal=62%
SHEPARD_CRASH_AND_BURN_MUT_VS_WT_UP	158	0.57865924	2.0318677	0	3.58E-05	0.003	4228 tags=43%, list=17%, signal=51%
HDACI_COLON_CUR12HRS_UP	20	0.80910015	2.0309381	0	3.55E-05	0.003	2817 tags=60%, list=11%, signal=68%
LINDSTEDT_DEND_8H_VS_48H_DN	64	0.63993996	2.0296137	0	3.53E-05	0.003	3141 tags=41%, list=12%, signal=46%
TARTE_PLASMA_BLASTIC	287	0.5311172	2.0293057	0	3.50E-05	0.003	4300 tags=44%, list=17%, signal=53%
LI_FETAL_VS_WT_KIDNEY_DN	152	0.57273483	2.0283394	0	4.64E-05	0.004	5282 tags=43%, list=21%, signal=54%
TGFBETA_EARLY_UP	46	0.6873441	2.0280695	0	4.61E-05	0.004	2888 tags=50%, list=11%, signal=56%
CHANG_SERUM_RESPONSE_UP	141	0.5747282	2.026016	0	4.57E-05	0.004	4628 tags=48%, list=18%, signal=59%
HSA04115_P53_SIGNALING_PATHWAY	68	0.6404768	2.0193105	0	7.95E-05	0.007	2729 tags=31%, list=11%, signal=35%
PASSERINI_APOPTOSIS	42	0.6877942	2.0173488	0	7.89E-05	0.007	4151 tags=62%, list=17%, signal=74%
ELONGINA_KO_DN	174	0.5557595	2.017284	0	7.83E-05	0.007	4141 tags=42%, list=16%, signal=50%
IGFR_IR_UP	18	0.8152073	2.0133336	0	7.77E-05	0.007	1466 tags=50%, list=6%, signal=53%
HYPOXIA_NORMAL_UP	200	0.5489671	2.009447	0	8.80E-05	0.008	4930 tags=50%, list=20%, signal=61%
GREENBAUM_E2A_UP	33	0.7166355	2.005369	0	9.82E-05	0.009	4679 tags=42%, list=19%, signal=52%
IL1RPATHWAY	32	0.7158328	2.001622	0	1.08E-04	0.01	3784 tags=53%, list=15%, signal=62%
RUIZ_TENASCIN_TARGETS	77	0.6206814	1.9996426	0	1.18E-04	0.011	2886 tags=35%, list=11%, signal=39%
HSA05222_SMALL_CELL_LUNG_CANCER	87	0.60124296	1.9992994	0	1.17E-04	0.011	4151 tags=45%, list=17%, signal=54%
DORSEY_DOXYCYCLINE_UP	29	0.7327021	1.9981546	0	1.17E-04	0.011	3043 tags=45%, list=12%, signal=51%
HALMOS_CEBP_DN	43	0.6817201	1.9975718	0	1.16E-04	0.011	1336 tags=35%, list=5%, signal=37%
GN_CAMP_GRANULOSA_DN	59	0.6446625	1.9970189	0	1.15E-04	0.011	4206 tags=44%, list=17%, signal=53%
BRCA1_OVEREXP_PROSTATE_DN	76	0.61893857	1.9967678	0	1.14E-04	0.011	5076 tags=51%, list=20%, signal=64%
UVC_HIGH_D9_DN	22	0.78159994	1.9943372	0	1.45E-04	0.014	3045 tags=55%, list=12%, signal=62%
HDACI_COLON_TSA_DN	60	0.6458734	1.993618	0	1.44E-04	0.014	3347 tags=45%, list=13%, signal=52%
UVB_SCC_UP	85	0.60566986	1.9933167	0	1.43E-04	0.014	4862 tags=49%, list=19%, signal=61%
HDACI_COLON_CUR2HRS_UP	26	0.752353	1.991717	0	1.42E-04	0.014	4765 tags=65%, list=19%, signal=81%
HSA05220_CHRONIC_MYELOID_LEUKEMIA	76	0.62831086	1.9868186	0	1.61E-04	0.016	4522 tags=45%, list=18%, signal=54%
IL6PATHWAY	21	0.7786122	1.9848444	0	1.70E-04	0.017	5118 tags=86%, list=20%, signal=108%
MOREAUX_TACI_HI_VS_LOW_DN	155	0.55487496	1.9847448	0	1.69E-04	0.017	4258 tags=39%, list=17%, signal=47%
UVB_NHEK1_C1	49	0.6621438	1.9835559	0	1.78E-04	0.018	4133 tags=43%, list=16%, signal=51%
UVC_HIGH_D7_DN	31	0.7139043	1.9800664	0	1.96E-04	0.02	3384 tags=58%, list=13%, signal=67%
HSA05211_RENAL_CELL_CARCINOMA	69	0.61713755	1.9747648	0	2.15E-04	0.022	4628 tags=49%, list=18%, signal=60%
ZUCCHI_EPITHELIAL_UP	42	0.6727714	1.9731601	0	2.13E-04	0.022	3334 tags=57%, list=13%, signal=66%
EGF_HDMEC_UP	43	0.67631227	1.9712064	0	2.12E-04	0.022	3647 tags=60%, list=14%, signal=71%
HSA05215_PROSTATE_CANCER	87	0.59314257	1.9682002	0	2.30E-04	0.024	4151 tags=37%, list=17%, signal=44%
CORDERO_KRAS_KD_VS_CONTROL_UP	75	0.61574644	1.9643278	0	2.47E-04	0.026	2586 tags=37%, list=10%, signal=41%
MMS_MOUSE_LYMPH_HIGH_4HRS_UP	35	0.6949351	1.959171	0	2.84E-04	0.029	3653 tags=51%, list=15%, signal=60%
UVC_LOW_ALL_DN	56	0.6391825	1.9574432	0	2.92E-04	0.03	3308 tags=41%, list=13%, signal=47%
FERRARI_4HPR_UP	24	0.75102735	1.9512345	0	3.18E-04	0.033	2807 tags=63%, list=11%, signal=70%
PARP_KO_UP	30	0.70516104	1.9505106	0	3.44E-04	0.036	1739 tags=47%, list=7%, signal=50%
HSA05210_COLORECTAL_CANCER	84	0.59421563	1.946223	0	3.60E-04	0.038	4590 tags=40%, list=18%, signal=49%
ALZHEIMERS_INCIPIENT_DN	139	0.5512001	1.9461124	0	3.58E-04	0.038	5369 tags=50%, list=21%, signal=63%
KERATINOCYTEPATHWAY	44	0.6564637	1.9435986	0	3.74E-04	0.04	5001 tags=61%, list=20%, signal=76%
CHAUHAN_2ME2	46	0.6570756	1.9434426	0	3.72E-04	0.04	3453 tags=48%, list=14%, signal=55%
OXSTRESS_RPETHREE_DN	27	0.71912605	1.9414723	0	3.79E-04	0.041	3309 tags=41%, list=13%, signal=47%
HSA03010_RIBOSOME	86	0.58615047	1.9408609	0	3.76E-04	0.041	5829 tags=59%, list=23%, signal=77%
HSA04010_MAPK_SIGNALING_PATHWAY	256	0.51420504	1.9369632	0	4.45E-04	0.049	4763 tags=36%, list=19%, signal=44%
PASSERINI_PROLIFERATION	64	0.6140659	1.9357102	0	4.43E-04	0.049	3509 tags=42%, list=14%, signal=49%
BREASTCA_TWO_CLASSES	133	0.54954684	1.9356145	0	4.40E-04	0.049	4291 tags=46%, list=17%, signal=55%
CIRCADIAN_EXERCISE	42	0.66840845	1.9353153	0	4.38E-04	0.049	3091 tags=55%, list=12%, signal=62%
TPA_RESIST_MIDDLE_UP	45	0.65197	1.9339422	0	4.53E-04	0.051	3014 tags=44%, list=12%, signal=50%
TNFA_NFKB_DEP_UP	18	0.7858152	1.9334419	0	4.59E-04	0.052	3070 tags=72%, list=12%, signal=82%
BASSO_REGULATORY_HUBS	131	0.55684376	1.9291279	0	5.08E-04	0.058	4743 tags=53%, list=19%, signal=65%
AD12_32HRS_DN	15	0.81983685	1.9290789	0	5.05E-04	0.058	1495 tags=60%, list=6%, signal=64%
IRITANI_ADPROX_VASC	149	0.54856527	1.9274249	0	5.02E-04	0.058	2614 tags=35%, list=10%, signal=39%
GH_GHRHR_KO_24HRS_DN	160	0.5415715	1.9261227	0	5.16E-04	0.059	3914 tags=41%, list=16%, signal=48%
HSA05218_MELANOMA	71	0.6037318	1.9260519	0	5.13E-04	0.059	3623 tags=31%, list=14%, signal=36%
WNT_TARGETS	23	0.753381	1.9258152	0	5.11E-04	0.059	942 tags=39%, list=4%, signal=41%
FLECHNER_KIDNEY_TRANSPLANT_REJECTION_PBL_UP	60	0.6210923	1.9237087	0	5.16E-04	0.06	4627 tags=52%, list=18%, signal=63%
CMV_ALL_DN	101	0.5737767	1.9231741	0	5.22E-04	0.061	4443 tags=44%, list=18%, signal=53%
CHEN_LUNG_SURVIVAL	21	0.74561137	1.9227023	0	5.19E-04	0.061	2524 tags=48%, list=10%, signal=53%
METPATHWAY	35	0.684638	1.9225038	0	5.16E-04	0.061	4907 tags=60%, list=20%, signal=74%
SMOOTH_MUSCLE_CONTRACTION	142	0.5435957	1.9205713	0	5.21E-04	0.062	2801 tags=28%, list=11%, signal=32%
BRCA1KO_MEF_DN	77	0.5997974	1.9199026	0	5.42E-04	0.065	4543 tags=49%, list=18%, signal=60%
CROONQUIST_RAS_STROMA_DN	21	0.76668924	1.9191358	0	5.48E-04	0.066	1705 tags=43%, list=7%, signal=46%
ET743PT650_COLONCA_DN	44	0.6536024	1.9190735	0	5.45E-04	0.066	3308 tags=43%, list=13%, signal=50%
ACTINYPATHWAY	18	0.778035	1.9187576	0	5.42E-04	0.066	4007 tags=61%, list=16%, signal=73%
H2O2_CSBDIFF_C2	32	0.70029414	1.9164798	0	5.47E-04	0.067	4907 tags=53%, list=20%, signal=66%
STRESS_TPA_SPECIFIC_UP	43	0.6538917	1.915435	0	5.52E-04	0.068	3080 tags=49%, list=12%, signal=56%
HTERT_DN	65	0.6067549	1.9144875	0	5.57E-04	0.069	3252 tags=34%, list=13%, signal=39%
MAPKPATHWAY	85	0.5875574	1.9136709	0	5.54E-04	0.069	5014 tags=54%, list=20%, signal=67%
CMV_HCMV_TIMECOURSE_14HRS_DN	38	0.6596565	1.9104588	0	5.90E-04	0.074	3734 tags=39%, list=15%, signal=46%
SANA_TNFA_ENDOTHELIAL_UP	81	0.586591	1.9104059	0	5.87E-04	0.074	3223 tags=40%, list=13%, signal=45%
UVB_NHEK3_C3	17	0.8044321	1.9100921	0	5.84E-04	0.074	3484 tags=76%, list=14%, signal=89%
PYK2PATHWAY	29	0.70577526	1.9082844	0	5.89E-04	0.075	5001 tags=59%, list=20%, signal=73%
VEGF_MMMEC_12HRS_UP	29	0.7073511	1.9070928	0	6.09E-04	0.078	1781 tags=55%, list=7%, signal=59%
HSA04110_CELL_CYCLE	113	0.555709	1.9060001	0	6.06E-04	0.078	3200 tags=29%, list=13%, signal=33%
UVB_NHEK3_C8	64	0.60652536	1.904927	0	6.11E-04	0.079	5005 tags=58%, list=20%, signal=72%
NFKBPATHWAY	23	0.7332475	1.90411	0	6.29E-04	0.082	3784 tags=65%, list=15%, signal=77%
HSA05212_PANCREATIC_CANCER	73	0.58758116	1.9035482	0	6.34E-04	0.083	3468 tags=33%, list=14%, signal=38%
PASSERINI_SIGNAL	335	0.49485397	1.9034317	0	6.31E-04	0.083	4089 tags=36%, list=16%, signal=42%
CMV_HCMV_TIMECOURSE_24HRS_DN	39	0.65701205	1.9024545	0	6.35E-04	0.084	2328 tags=38%, list=9%, signal=42%
BLEO_HUMAN_LYMPH_HIGH_4HRS_UP	21	0.7507696	1.9010922	0	6.39E-04	0.085	2223 tags=48%, list=9%, signal=52%
BRENTANI_TRANSCRIPTION_FACTORS	62	0.6102275	1.8990585	0	6.88E-04	0.092	4242 tags=48%, list=17%, signal=58%
BRENTANI_DEATH	70	0.6020586	1.8980525	0	6.92E-04	0.093	4442 tags=47%, list=18%, signal=57%
MANALO_HYPOXIA_UP	93	0.5645068	1.897832	0	6.89E-04	0.093	2916 tags=37%, list=12%, signal=41%
NTHIPATHWAY	22	0.7372337	1.8976988	0	6.93E-04	0.094	3784 tags=55%, list=15%, signal=64%
BRCA1_SW480_UP	25	0.7190748	1.8965776	0	6.97E-04	0.095	4206 tags=60%, list=17%, signal=72%
HSA04540_GAP_JUNCTION	96	0.5694486	1.8950489	0	7.01E-04	0.095	2548 tags=30%, list=10%, signal=33%
HEMATOPOESIS_RELATED_TRANSCRIPTION_FACTORS	84	0.57938826	1.8948153	0	7.11E-04	0.097	3073 tags=36%, list=12%, signal=41%
HSA05219_BLADDER_CANCER	42	0.6448148	1.8947899	0	7.08E-04	0.097	3468 tags=43%, list=14%, signal=50%
WERNERONLY_FIBRO_UP	29	0.70201117	1.8947849	0	7.05E-04	0.097	3023 tags=48%, list=12%, signal=55%
IFN_ANY_UP	82	0.5843005	1.8915313	0	7.37E-04	0.102	3369 tags=39%, list=13%, signal=45%
PENG_GLUCOSE_DN	130	0.5393717	1.8911811	0	7.33E-04	0.102	3480 tags=35%, list=14%, signal=41%
GH_AUTOCRINE_DN	118	0.55099434	1.8896216	0	7.50E-04	0.104	4946 tags=51%, list=20%, signal=63%
STRESS_GENOTOXIC_SPECIFIC_DN	42	0.6408778	1.8879904	0	7.54E-04	0.105	1074 tags=29%, list=4%, signal=30%
UVC_HIGH_D1_DN	15	0.8071833	1.8879128	0	7.51E-04	0.105	2986 tags=60%, list=12%, signal=68%
CMV_HCMV_TIMECOURSE_4HRS_DN	33	0.66873324	1.8878913	0	7.47E-04	0.105	2821 tags=39%, list=11%, signal=44%
PASSERINI_EM	33	0.67911035	1.8871748	0	7.58E-04	0.107	3480 tags=48%, list=14%, signal=56%
KNUDSEN_PMNS_UP	72	0.5898759	1.8853339	0	7.75E-04	0.109	4124 tags=50%, list=16%, signal=60%
SHEPARD_CELL_PROLIFERATION	203	0.5128568	1.8851361	0	7.71E-04	0.109	4206 tags=34%, list=17%, signal=40%
HSA04510_FOCAL_ADHESION	198	0.51245373	1.8840868	0	7.75E-04	0.11	3480 tags=34%, list=14%, signal=39%
CITED1_KO_HET_DN	31	0.68675846	1.8840287	0	7.78E-04	0.111	2598 tags=39%, list=10%, signal=43%
AGEING_BRAIN_UP	197	0.5113901	1.8806325	0	8.42E-04	0.118	4763 tags=47%, list=19%, signal=58%
CMV_24HRS_UP	73	0.58426565	1.8802452	0	8.51E-04	0.12	4669 tags=60%, list=19%, signal=74%
CELL_PROLIFERATION	203	0.5128568	1.8793547	0	8.80E-04	0.125	4206 tags=34%, list=17%, signal=40%
SANA_IFNG_ENDOTHELIAL_DN	82	0.5770613	1.8784219	0	8.76E-04	0.125	4862 tags=55%, list=19%, signal=68%

PASSERINI_TRANSCRIPTION	72	0.59117603	1.8761597	0	8.99E-04	0.128	3623	tags=39%, list=14%, signal=45%
IFN_BETA_UP	65	0.59661084	1.8755304	0	9.08E-04	0.129	3369	tags=42%, list=13%, signal=48%
HSA05216_THYROID_CANCER	29	0.69605863	1.8745606	0	9.10E-04	0.13	3468	tags=48%, list=14%, signal=56%
P53GENES_ALL	17	0.7739477	1.8731967	0	9.26E-04	0.133	1739	tags=41%, list=7%, signal=44%
INTEGRINPATHWAY	35	0.65929353	1.8723502	0	9.80E-04	0.139	5054	tags=60%, list=20%, signal=75%
HSA04350_TGF_BETA_SIGNALING_PATHWAY	88	0.5656635	1.8717066	0	9.82E-04	0.14	3187	tags=32%, list=13%, signal=36%
HSA00970_AMINOACYL_TRNA_BIOSYNTHESIS	37	0.6539692	1.8711178	0	9.78E-04	0.14	4374	tags=59%, list=17%, signal=72%
INSULIN_SIGNALING	97	0.5519964	1.8709396	0	9.80E-04	0.141	4200	tags=42%, list=17%, signal=51%
POD1_KO_MOST_UP	29	0.68167794	1.8708454	0	9.76E-04	0.141	3689	tags=41%, list=15%, signal=48%
5FU_RESIST_GASTRIC_UP	20	0.7427864	1.8701516	0.00186916	0.00100336	0.145	1785	tags=45%, list=7%, signal=48%
CMV_HCMV_TIMECOURSE_18HRS_UP	72	0.5886122	1.8687562	0	0.00102459	0.148	4746	tags=53%, list=19%, signal=65%
IDX_TSA_DN_CLUSTERS	42	0.6352365	1.8675965	0	0.00105755	0.154	4754	tags=57%, list=19%, signal=70%
OKUMURA_MC_LPS	174	0.5111778	1.866848	0	0.00106565	0.156	4866	tags=40%, list=19%, signal=50%
LIZUKA_G1_SM_G2	25	0.7059018	1.8630265	0	0.00109204	0.159	3614	tags=52%, list=14%, signal=61%
HDACI_COLON_CUR_DN	48	0.621775	1.8623995	0	0.00110599	0.162	5885	tags=60%, list=23%, signal=79%
PDGFPATHWAY	27	0.7071788	1.8622587	0	0.00111387	0.164	5118	tags=59%, list=20%, signal=74%
TNFALPHA_4HRS_UP	38	0.64306563	1.8616799	0	0.00112184	0.165	4475	tags=61%, list=18%, signal=74%
NOUZOVA_CPG_H4_UP	109	0.5459977	1.8582488	0	0.00118445	0.174	5399	tags=51%, list=21%, signal=65%
TRANSLATION_FACTORS	39	0.6521746	1.8581234	0	0.00117972	0.174	6049	tags=69%, list=24%, signal=91%
CORDERO_KRAS_KD_VS_CONTROL_DN	54	0.59982175	1.8549875	0.00176991	0.00128491	0.188	2466	tags=28%, list=10%, signal=31%
RACCYCDPATHWAY	22	0.74098134	1.8524692	0	0.00132799	0.193	3453	tags=55%, list=14%, signal=63%
5FU_RESIST_GASTRIC_DN	16	0.78119534	1.8508569	0.00194175	0.00136501	0.199	2223	tags=50%, list=9%, signal=55%
TNFALPHA_ALL_UP	74	0.57598275	1.8493191	0	0.00140112	0.204	3272	tags=43%, list=13%, signal=50%
ST_P38_MAPK_PATHWAY	37	0.6422736	1.8479224	0	0.00142526	0.207	4907	tags=57%, list=20%, signal=70%
ST_TUMOR_NECROSIS_FACTOR_PATHWAY	29	0.684963	1.8469577	0	0.00142537	0.208	3133	tags=52%, list=12%, signal=59%
G1_TO_S_CELL_CYCLE_REACTOME	67	0.5799131	1.8454963	0	0.00143754	0.211	2700	tags=28%, list=11%, signal=32%
FLECHNER_KIDNEY_TRANSPLANT_WELL_PBL_DN	40	0.6340644	1.8437128	0	0.00148472	0.219	3395	tags=45%, list=13%, signal=52%
ST_JNK_MAPK_PATHWAY	40	0.63394994	1.8434844	0	0.00148499	0.22	4737	tags=55%, list=19%, signal=68%
TAKEDA_NUP8_HOXA9_16D_DN	205	0.50319064	1.8428289	0	0.00149092	0.222	3016	tags=30%, list=12%, signal=34%
SRC_ONCOGENIC_SIGNATURE	56	0.5973204	1.8407339	0.00344234	0.00156081	0.231	4429	tags=46%, list=18%, signal=56%
RAY_P210_DIFF	53	0.60886353	1.8404403	0	0.00155485	0.231	4427	tags=49%, list=18%, signal=59%
SIG_CD40PATHWAYMAP	33	0.6514017	1.8369526	0.00190476	0.00165797	0.245	6255	tags=61%, list=25%, signal=81%
RNA_TRANSCRIPTION_REACTOME	35	0.6477278	1.8363087	0	0.00167457	0.249	5009	tags=60%, list=20%, signal=75%
CMV_HCMV_TIMECOURSE_16HRS_UP	56	0.59623724	1.8359889	0	0.00168559	0.252	4089	tags=45%, list=16%, signal=53%
FASPATHWAY	27	0.69500375	1.8356726	0.00187617	0.0016908	0.253	3133	tags=52%, list=12%, signal=59%
AMINOACYL_TRNA_BIOSYNTHESIS	23	0.7113669	1.8345276	0.00378072	0.00172406	0.259	4602	tags=70%, list=18%, signal=85%
HDACI_COLON_BUT48HRS_DN	109	0.5328054	1.8276474	0	0.00190413	0.283	5063	tags=48%, list=20%, signal=59%
H2O2_CSBRESCUED_UP	53	0.5982325	1.8273069	0	0.00190814	0.283	2181	tags=32%, list=9%, signal=35%
ST_FAS_SIGNALING_PATHWAY	62	0.5874385	1.8266273	0	0.00191795	0.285	5050	tags=56%, list=20%, signal=70%
FETAL_LIVER_ENRICHED_TRANSCRIPTION_FACTORS	72	0.56081617	1.8251083	0	0.00195582	0.292	5794	tags=51%, list=23%, signal=67%
HDACI_COLON_CUR24HRS_DN	24	0.7123019	1.8237416	0	0.00200999	0.299	4880	tags=54%, list=19%, signal=67%
TGFBETA_C1_UP	16	0.7789454	1.8208697	0.00184843	0.00208065	0.31	1683	tags=50%, list=7%, signal=54%
ABRAHAM_AL_VS_MM_DN	18	0.750754	1.8195858	0	0.00212322	0.319	3030	tags=61%, list=12%, signal=69%
RADIATION_SENSITIVITY	24	0.70506775	1.8191439	0	0.00213212	0.32	2194	tags=33%, list=9%, signal=36%
KIM_TH_CELLS_DN	17	0.7396057	1.81889	0	0.00212439	0.32	3525	tags=59%, list=14%, signal=68%
GALE_FLT3ANDAPL_UP	50	0.5988208	1.8187535	0	0.00212773	0.321	4852	tags=60%, list=19%, signal=74%
IL1_CORNEA_UP	62	0.5906504	1.8169756	0	0.00216937	0.323	1965	tags=31%, list=8%, signal=33%
UVC_LOW_ALL_UP	18	0.72821635	1.8161019	0.00182815	0.00219478	0.328	2661	tags=50%, list=11%, signal=56%
IGF1PATHWAY	20	0.7237543	1.815838	0.00373134	0.00219222	0.329	5118	tags=65%, list=20%, signal=82%
ABRAHAM_MM_VS_AL_UP	19	0.73952895	1.8147545	0	0.00221694	0.335	3030	tags=58%, list=12%, signal=66%
MANALO_HYPOXIA_DN	80	0.55413246	1.8140482	0	0.00224716	0.341	5243	tags=44%, list=21%, signal=55%
EGFPATHWAY	27	0.68479115	1.8112559	0	0.00232544	0.354	5118	tags=56%, list=20%, signal=70%
HSA05131_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EPEC	51	0.6032113	1.8108817	0.0018018	0.00233875	0.356	2548	tags=43%, list=10%, signal=48%
HSA05130_PATHOGENIC_ESCHERICHIA_COLI_INFECTION_EHEC	51	0.6032113	1.8099877	0	0.00235694	0.359	2548	tags=43%, list=10%, signal=48%
HSA05120_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	67	0.570373	1.8094398	0	0.00236978	0.361	3841	tags=43%, list=15%, signal=51%
JISON_SICKLE_CELL	31	0.6547976	1.8091326	0.00185185	0.00236694	0.361	2657	tags=39%, list=11%, signal=43%
HDACI_COLON_BUT24HRS_UP	69	0.56637233	1.808414	0.00173913	0.0023741	0.362	3696	tags=42%, list=15%, signal=49%
CXCR4PATHWAY	24	0.6911953	1.8084401	0	0.00236589	0.362	3611	tags=50%, list=14%, signal=58%
ZELLER_MYC_UP	24	0.6970999	1.8084027	0	0.00235773	0.362	4964	tags=67%, list=20%, signal=83%
MENSSEN_MYC_UP	29	0.6628009	1.8068697	0	0.0024017	0.368	5453	tags=69%, list=22%, signal=88%
ROS_MOUSE_AORTA_DN	77	0.54754317	1.8058778	0	0.00242474	0.372	2254	tags=36%, list=9%, signal=40%
GLYCOGEN_METABOLISM	34	0.6435088	1.8045838	0	0.00246326	0.378	5041	tags=50%, list=20%, signal=62%
CMV_24HRS_DN	70	0.5654599	1.8030046	0	0.00253202	0.385	4427	tags=44%, list=18%, signal=54%
HSA03050_PROTEASOME	22	0.7038081	1.8027197	0	0.00255412	0.387	5443	tags=73%, list=22%, signal=93%
LINDSTEDT_DEND_UP	50	0.596338	1.8014317	0	0.00261258	0.392	4046	tags=48%, list=16%, signal=57%
SA_B_CELL_RECEPTOR_COMPLEXES	24	0.68899584	1.8005438	0.00178891	0.00262411	0.394	4907	tags=58%, list=20%, signal=72%
HDACI_COLON_CUR48HRS_UP	60	0.57948756	1.7979228	0	0.0027074	0.406	5213	tags=62%, list=21%, signal=78%
BOQUEST_CD31PLUS_VS_CD31MINUS_DN	246	0.47849497	1.7970018	0	0.00273379	0.409	4423	tags=38%, list=18%, signal=45%
XU_ATRA_PLUSNSC_DN	15	0.7664166	1.7959017	0	0.0027747	0.415	5766	tags=87%, list=23%, signal=112%
WNT_SIGNALING	60	0.5836642	1.7947481	0	0.00283089	0.425	2787	tags=33%, list=11%, signal=37%
TAVOR_CEBP_UP	48	0.59738934	1.7943476	0.00188679	0.00284193	0.428	2263	tags=42%, list=9%, signal=46%
WILLERT_WNT_NCCIT_ALL_UP	18	0.74107856	1.7931885	0	0.00287264	0.433	2221	tags=44%, list=9%, signal=49%
FLECHNER_KIDNEY_TRANSPLANT_WELL_PBL_UP	147	0.5090525	1.7925044	0	0.00288848	0.435	4608	tags=43%, list=18%, signal=52%
HSA04530_TIGHT_JUNCTION	134	0.50871706	1.7910895	0	0.00296862	0.447	5379	tags=40%, list=21%, signal=51%
ADIP_DIFF_CLUSTER3	33	0.6435216	1.789664	0.00179533	0.00302896	0.453	4368	tags=58%, list=17%, signal=70%
TGF_BETA_SIGNALING_PATHWAY	49	0.60651934	1.7896545	0.00190114	0.0030191	0.453	2821	tags=33%, list=11%, signal=37%
RADMACHER_AMLNORMALKARYTYPE_SIG	72	0.5589593	1.789458	0	0.00302912	0.455	4573	tags=53%, list=18%, signal=64%
BCL2_FAMILY_AND_REG_NETWORK	22	0.695455	1.7892337	0.0034904	0.0030395	0.456	4870	tags=50%, list=19%, signal=62%
RASPATHWAY	21	0.70008457	1.7885724	0.00557621	0.00304926	0.46	3453	tags=52%, list=14%, signal=61%
JISON_SICKLECELL_DIFF	334	0.4629928	1.7882609	0	0.0030639	0.464	4665	tags=41%, list=19%, signal=50%
HYPERTROPHY_MODEL	17	0.7534171	1.7860044	0.00380228	0.00319986	0.474	1996	tags=65%, list=8%, signal=70%
WERNER_FIBRO_DN	160	0.49981287	1.7843966	0	0.00329679	0.487	5128	tags=44%, list=20%, signal=55%
UVC_HIGH_ALL_UP	19	0.7268118	1.7828668	0.00189036	0.00335907	0.495	1574	tags=42%, list=6%, signal=45%
AGED_MOUSE_HIPPOCAMPUS_ANY_UP	43	0.6000412	1.7823502	0	0.00335323	0.496	2307	tags=35%, list=9%, signal=38%
INSULINPATHWAY	21	0.69214725	1.7813337	0.00178253	0.0033907	0.501	5118	tags=57%, list=20%, signal=72%
STEFFEN_AML_PML_PLZF_TRGT	44	0.59510684	1.7805667	0.00359712	0.00340419	0.505	1864	tags=27%, list=7%, signal=29%
HSC_LATEPROGENITORS_ADULT	436	0.45228374	1.7803442	0	0.00340297	0.505	4966	tags=37%, list=20%, signal=45%
NICK_RHAPC_UP	30	0.6469352	1.7803088	0.0037594	0.0033923	0.505	4033	tags=43%, list=16%, signal=52%
DAC_BLADDER_UP	28	0.6667161	1.7796527	0.00191205	0.00340059	0.508	2324	tags=43%, list=9%, signal=47%
HDACI_COLON_BUT_DN	234	0.47627717	1.7783172	0	0.00344736	0.514	5209	tags=44%, list=21%, signal=55%
UVC_HIGH_D8_DN	28	0.6646822	1.7772958	0.00178253	0.00349335	0.519	4661	tags=61%, list=19%, signal=74%
CCR5PATHWAY	18	0.72275585	1.7762953	0.00194932	0.00353915	0.525	1777	tags=33%, list=7%, signal=36%
HSC_LATEPROGENITORS_SHARED	429	0.45289496	1.7754347	0	0.00357047	0.528	4966	tags=37%, list=20%, signal=45%
HOFMANN_MDS_CD34_LOW_AND_HIGH_RISK	47	0.5961116	1.775219	0	0.00358252	0.531	1777	tags=30%, list=7%, signal=32%
CELL_CYCLE_ARREST	31	0.6557584	1.7738849	0	0.00365545	0.543	3827	tags=45%, list=15%, signal=53%
LEE_MYC_TGFA_UP	59	0.5761734	1.7731153	0	0.00371501	0.552	3362	tags=42%, list=13%, signal=49%
DER_IFNB_UP	93	0.5354725	1.7729717	0.00172117	0.00370828	0.553	3369	tags=37%, list=13%, signal=42%
ST_GA13_PATHWAY	35	0.62540555	1.7697953	0.00194553	0.00389122	0.572	6219	tags=69%, list=25%, signal=91%
ADIPOGENESIS_HMSC_CLASS3_UP	62	0.5664107	1.7695541	0	0.00391596	0.576	5467	tags=53%, list=22%, signal=68%
APOPTOSIS_GENMAPP	42	0.60752696	1.7685574	0	0.00394122	0.579	4527	tags=57%, list=18%, signal=70%
CELLCYCLEPATHWAY	23	0.6845789	1.7684045	0.00185529	0.00392935	0.579	3200	tags=43%, list=13%, signal=50%
HSA05221_ACUTE_MYELOID_LEUKEMIA	53	0.58238065	1.7676659	0	0.00394987	0.582	4089	tags=42%, list=16%, signal=49%
HDACI_COLON_CLUSTER7	15	0.7425837	1.76754	0.0019084	0.00393804	0.582	2972	tags=47%, list=12%, signal=53%
TNFALPHA_30MIN_UP	40	0.6069112	1.7661811	0.00179533	0.00400335	0.59	3272	tags=45%, list=13%, signal=52%
BASSO_HCL_DIFF	83	0.53873557	1.7614816	0	0.0042751	0.62	2419	tags=28%, list=10%, signal=31%
NING_COPD_DN	121	0.515256	1.7602355	0	0.00437963	0.628	3827	tags=39%, list=15%, signal=46%
IRITANI_ADPROX_DN	57	0.5696043	1.7601651	0	0.00437126	0.628	3184	tags=37%, list=13%, signal=42%
AGED_MOUSE_HIPPOCAMPUS_MULTI_UP	19	0.7232567	1.7598271	0.00187617	0.0043984	0.631	2985	tags=53%, list=12%, signal=60%
DAC_PANC50_UP	44	0.5947263	1.7594664	0	0.00441237	0.634	2278	tags=34%, list=9%, signal=37%
LEE_TCELLS10_UP	174	0.48258436	1.7592226	0	0.00440841	0.635	3945	tags=35%, list=16%, signal=41%
RIBOSOMAL_PROTEINS	88	0.5366291	1.757422	0	0.0045204	0.644	5453	tags=56%, list=22%, signal=71%
OLDWERNER_FIBRO_UP	19	0.72252494	1.75718	0.00366972	0.00452047	0.644	3063	tags=58%, list=12%, signal=66%
BRG1_ALAB_UP	40	0.6120116	1.7566342	0.00176678	0.00452046	0.645	3760	tags=58%, list=15%, signal=67%
CMV_HCMV_TIMECOURSE_24HRS_UP	70	0.5599637	1.7543396	0	0.00468355	0.66	4542	tags=44%, list=18%, signal=54%
IRS1_KO_ADIP_UP	92	0.5247099	1.7538847	0.0017094	0.00469188	0.662	5282	tags=48%, list=21%, signal=60%
BRENTANI_SIGNALING	180	0.48698524	1.7527564	0	0.00476171	0.664	4089	tags=37%, list=16%, signal=43%
CDMACPATHWAY	16	0.7406451	1.751465	0	0.00481319	0.67	1154	tags=44%, list=5%, signal=46%
HSC_LATEPROGENITORS_FETAL	437	0.4480783	1.7503991	0	0.00485631	0.672	4966	tags=37%, list=20%, signal=45%
4NQO_ESR_WS_UNREG	36	0.6139593	1.7501558	0	0.00486843	0.673	4724	tags=50%, list=19%, signal=61%
AGED_MOUSE_CORTEX_UP	31	0.63270015	1.7495855	0.00174216	0.0048803	0.676	3675	tags=52%, list=15%, signal=60%
TSADAC_HYPOMETH_OVCA_UP	48	0.58181095	1.7485799	0.00179533	0.00491769	0.679	4641	tags=38%, list=18%, signal=46%
MMS_HUMAN_LYMPH_LOW_4HRS_DN	16	0.75365597	1.747886	0.00191571	0.0049207	0.681	3653	tags=56%, list=15%, signal=66%
PROLIFERATION_GENES	364	0.45170826	1.7451105	0	0.005152	0.701	4206	tags=31%, list=17%, signal=37%
ETSPATHWAY	18	0.72556704	1.74474	0	0.00517604	0.703	4242	tags=56%, list=17%, signal=67%
BRENTANI_CELL_CYCLE	81	0.5335626	1.7443733	0	0.00517865	0.705	4261	tags=30%, list=17%, signal=36%
HADDAD_HSC_CD7_DN	76	0.53069055	1.7441548	0	0.00517265	0.705	5336	tags=51%, list=21%, signal=65%
CMV_ALL_UP	94	0.52048236	1.7425603	0	0.00526821	0.713	4124	tags=49%, list=16%, signal=58%
HSA04210_APOPTOSIS	84	0.5349195	1.7425518	0	0.00525354	0.713	4453	tags=42%, list=18%, signal=50%
ET743_HELA_UP	53	0.5703068	1.7415727	0	0.0053406	0.718	3611	tags=45%, list=14%, signal=53%
SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES	50	0.5758937	1.7400931	0	0.00543097	0.723	5056	tags=44%, list=20%, signal=55%
HUMAN_TISSUE_PLACENTA	19	0.70853114	1.738791	0.00191205	0.00550433	0.73	4505	tags=47%, list=18%, signal=58%
HSA05213_ENDOMETRIAL_CANCER	52	0.57674944	1.7386647	0.00189036	0.00550196	0.73	4089	tags=37%, list=16%, signal=44%
AGED_MOUSE_CORTEX_DN	43	0.5824306	1.7384086	0	0.00550796	0.73	3532	tags=42%, list=14%, signal=49%
BRCA1_OVEREXP_UP	156	0.4885392	1.7376865	0	0.0055943	0.736	4334	tags=39%, list=17%, signal=47%
HDACI_COLON_TSA2HRS_DN	20	0.68097025	1.737654	0.00373134	0.00554832	0.736	2229	tags=45%, list=9%, signal=49%
LEE_TCELLS1_UP	174	0.48258436	1.7368613	0	0.00557459	0.736	3945	tags=35%, list=16%, signal=41%
GENOTOXINS_ALL_24HRS_REG	26	0.65856147	1.735931	0.00357782	0.00562942	0.74	4648	tags=77%, list=18%, signal=94%
LEE_ACOX1_UP	62	0.54894096	1.7352146	0	0.00566742	0.742	3902	tags=42%, list=16%, signal=50%
IGF_VS_PDGF_DN	42	0.5892575	1.7351446	0.00181488	0.00565616	0.742	2046	tags=31%, list=8%, signal=34%
HSA01430_CELL_COMMUNICATION	127	0.49885207	1.7349383	0	0.00566139	0.744	2765	tags=20%, list=11%, signal=23%
NAKAJIMA_MCSMBP_MAST	47	0.57765454	1.734232	0.00179211	0.00569941	0.746	3043	tags=43%, list=12%, signal=48%
LEE_TCELLS8_UP	174	0.48258436	1.7338219	0	0.00570869	0.749	3945	tags=35%, list=16%, signal=41%
P38MAPKPATHWAY	39	0.5974926	1.7332034	0.00530973	0.00575455	0.756	4664	tags=51%, list=19%, signal=63%
BRUNO_IL3_DN	64	0.5430558	1.7327989	0	0.00579972	0.76	2285	tags=34%, list=9%, signal=38%
HALMOS_CEBP_UP	50	0.5695112	1.7324415	0	0.00581266	0.763	4029	tags=44%, list=16%, signal=52%
ERKPATHWAY	30	0.63127667	1.7323269	0.00197239	0.00580503	0.763	5372	tags=60%, list=21%, signal=76%
BREASTCA_THREE_CLASSES	40	0.58977026	1.7301327	0.00361664	0.00594696	0.769	4229	tags=50%, list=17%, signal=60%
HDACI_COLON_SUL30MIN_DN	36	0.61182207	1.7268044	0.00368324	0.00620457	0.783	5789	tags=64%, list=23%, signal=83%
IFN_GAMMA_UP	39	0.6056808	1.7247081	0.00184162	0.00635211	0.792	4870	tags=49%, list=19%, signal=60%
UEDA_MOUSE_LIVER	136	0.48772752	1.7237858	0	0.0063997	0.795	3699	tags=38%, list=15%, signal=44%
FMLPPATHWAY	37	0.60899705	1.723618	0.00367647	0.00639879	0.797	5588	tags=49%, list=22%, signal=62%
CALRES_MOUSE_NEOCORTEX_UP	58	0.55789286	1.7231466	0	0.00643758	0.799	2366	tags=31%, list=9%, signal=34%

HANSON_NFKAPPB_IND	18	0.7085586	1.7227672	0.00749064	0.00645628	0.801	2625	tags=39%, list=10%, signal=43%
MTORPATHWAY	22	0.6718085	1.7218733	0.00394477	0.00652996	0.804	6362	tags=77%, list=25%, signal=103%
IFN_BETA_GLIOMA_DN	42	0.5964663	1.7208987	0.00184502	0.00658012	0.807	3070	tags=43%, list=12%, signal=49%
TPA_RESIST_MIDDLE_DN	109	0.50138724	1.7206128	0	0.00658692	0.809	5089	tags=44%, list=20%, signal=55%
ZHAN_MM_MOLECULAR_CLASSI_DN	46	0.5811705	1.717947	0.00179533	0.00686432	0.822	3885	tags=35%, list=15%, signal=41%
HDACI_COLON_BUT16HRS_UP	41	0.5941353	1.716112	0	0.00700945	0.832	3252	tags=44%, list=13%, signal=50%
MATSUDA_VALPHAINKT_DIFF	402	0.43741652	1.7159798	0	0.00700309	0.833	3206	tags=30%, list=13%, signal=34%
VIPPATHWAY	27	0.64852333	1.7158551	0.00186567	0.00700473	0.833	3668	tags=44%, list=15%, signal=52%
ET743_RESIST_DN	40	0.5858864	1.7157241	0.0019305	0.00699449	0.834	3838	tags=45%, list=15%, signal=53%
CHIARETTI_T_ALL_DIFF	258	0.45574695	1.7156636	0	0.00698055	0.834	3610	tags=35%, list=14%, signal=40%
GENOTOXINS_24HRS_DISCR	39	0.5931986	1.7156047	0.00589391	0.00696673	0.834	5469	tags=56%, list=22%, signal=72%
BRCA_BRCA1_POS	101	0.50999945	1.7146239	0	0.0070411	0.836	4152	tags=36%, list=17%, signal=43%
TNFR1PATHWAY	28	0.6462937	1.7145214	0.00559702	0.00702708	0.836	3471	tags=46%, list=14%, signal=54%
OXSTRESS_BREASTCA_UP	27	0.6474071	1.7144907	0.00716846	0.00701682	0.837	670	tags=30%, list=3%, signal=30%
AT1RPATHWAY	34	0.60923284	1.7144572	0.00175747	0.00700687	0.837	1954	tags=38%, list=8%, signal=41%
CELL_MOTILITY	106	0.5034481	1.7139978	0	0.00703873	0.838	2437	tags=29%, list=10%, signal=32%
LEE_E2F1_UP	59	0.55339295	1.7123518	0	0.007128	0.84	3108	tags=37%, list=12%, signal=42%
DAC_PANC_UP	361	0.44317648	1.7121248	0	0.00712165	0.84	2402	tags=20%, list=10%, signal=22%
BRCA_PROGNOSIS_NEG	87	0.51545775	1.7116624	0	0.0071378	0.842	5202	tags=47%, list=21%, signal=59%
KIM_TH_CELLS_UP	43	0.5846967	1.7113221	0.00362319	0.00716098	0.845	3668	tags=42%, list=15%, signal=49%
HADDAD_HPCLYMPHO_ENRICHED	267	0.45828533	1.7112876	0	0.00714694	0.845	4852	tags=36%, list=19%, signal=44%
LIAN_MYELOID_DIFF_TF	34	0.60780877	1.7105985	0.00184162	0.00719334	0.847	2975	tags=50%, list=12%, signal=57%
TENEDINI_MEGAKARYOCYTIC_GENES	53	0.564804	1.7103169	0	0.00719759	0.848	2617	tags=28%, list=10%, signal=32%
PTDINSPATHWAY	22	0.67916286	1.7102057	0.0019802	0.00719474	0.851	5069	tags=50%, list=20%, signal=63%
AGED_MOUSE_HYPOTH_UP	43	0.58951634	1.7101386	0	0.00718477	0.852	4253	tags=49%, list=17%, signal=59%
HADDAD_CD45CD7_PLUS_VS_MINUS_DN	76	0.53069055	1.7055433	0.00541516	0.0076023	0.876	5336	tags=51%, list=21%, signal=65%
NELSON_ANDROGEN_UP	62	0.54954904	1.7043442	0.00188679	0.00768403	0.878	3571	tags=40%, list=14%, signal=47%
CMV_8HRS_DN	44	0.58395797	1.7026412	0	0.00784998	0.883	3827	tags=36%, list=15%, signal=43%
KANG_TERT_UP	82	0.52455354	1.7022743	0	0.00788584	0.884	3641	tags=38%, list=14%, signal=44%
CMV-UV_HCMV_6HRS_UP	118	0.49366722	1.7012135	0	0.00795944	0.89	4895	tags=40%, list=19%, signal=49%
ERYTHPATHWAY	15	0.7269006	1.7010244	0.00587084	0.00794749	0.89	1996	tags=27%, list=8%, signal=29%
HSA04310_WNT_SIGNALING_PATHWAY	147	0.4760686	1.7003437	0	0.00800523	0.896	3187	tags=27%, list=13%, signal=30%
FSH_GRANULOSA_UP	77	0.52509946	1.6986263	0.00168067	0.00815359	0.901	4205	tags=48%, list=17%, signal=58%
CHIARETTI_T_ALL	236	0.45207253	1.698322	0	0.00816684	0.902	2656	tags=30%, list=11%, signal=33%
VEGF_MMMEC_6HRS_UP	49	0.56794626	1.6975577	0.00346021	0.00824507	0.903	1781	tags=33%, list=7%, signal=35%
VENTRICLES_UP	193	0.46625662	1.6968348	0	0.00829819	0.905	5338	tags=40%, list=21%, signal=50%
ESR_FIBROBLAST_DN	18	0.6949327	1.6967995	0.00553506	0.00828566	0.905	5114	tags=61%, list=20%, signal=77%
PROTEASOME_DEGRADATION	32	0.6120799	1.6960618	0.00182149	0.00831246	0.905	5162	tags=63%, list=21%, signal=79%
HEARTFAILURE_ATRIA_DN	107	0.4977936	1.6951052	0	0.00837898	0.906	5317	tags=51%, list=21%, signal=65%
BAF57_BT549_UP	223	0.45978415	1.69484	0	0.00838756	0.908	5031	tags=38%, list=20%, signal=47%
LINDSTEDT_DEND_8H_VS_48H_UP	66	0.54537344	1.6940879	0.00184502	0.00845029	0.91	1023	tags=26%, list=4%, signal=27%
UVB_NHEK4_6HRS_UP	26	0.6324222	1.6908504	0	0.00877931	0.92	4261	tags=58%, list=17%, signal=69%
ABRAHAM_AL_VS_MM_UP	23	0.65858734	1.6901956	0.00374532	0.00881611	0.921	2616	tags=39%, list=10%, signal=44%
ABRAHAM_MM_VS_AL_DN	22	0.667689	1.6898738	0.01123596	0.00883803	0.922	2616	tags=41%, list=10%, signal=46%
TAKEDA_NUP8_HOXA9_6H_DN	37	0.5926794	1.6886835	0.00369686	0.00894798	0.925	2310	tags=30%, list=9%, signal=33%
OLD_FIBRO_DN	151	0.47729295	1.6884862	0	0.00895878	0.927	5128	tags=39%, list=20%, signal=49%
SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCTES	65	0.5327793	1.6880794	0.00170648	0.00899828	0.931	2378	tags=32%, list=9%, signal=36%
OLDWERNER_FIBRO_DN	100	0.49898943	1.6873232	0	0.00908265	0.933	5128	tags=43%, list=20%, signal=54%
OXSTRESS_RPE_HNETBH_DN	46	0.5655611	1.6873032	0.01022147	0.00906162	0.933	3468	tags=39%, list=14%, signal=45%
TPA_SENS_MIDDLE_UP	66	0.5336318	1.6865059	0	0.00913905	0.937	3668	tags=41%, list=15%, signal=48%
PROTEASOME	17	0.70091665	1.6857573	0.00551471	0.0091777	0.938	5980	tags=82%, list=24%, signal=108%
HSA05214_GLIOMA	64	0.53681326	1.6851085	0	0.00920533	0.938	4089	tags=34%, list=16%, signal=41%
HDACI_COLON_BUT12HRS_UP	44	0.5603901	1.6847268	0.00368324	0.00922617	0.939	1472	tags=32%, list=6%, signal=34%
MAMMARY_DEV_UP	55	0.54898196	1.6846159	0.00171821	0.00920841	0.939	3462	tags=33%, list=14%, signal=38%
TRNA_SYNTHETASES	20	0.68289614	1.6844883	0.00763359	0.00919791	0.939	4602	tags=75%, list=18%, signal=92%
P53PATHWAY	16	0.70543975	1.6844418	0.00756144	0.00918029	0.939	4151	tags=50%, list=17%, signal=60%
ADDYA_K562_HEMIN_TREATMENT	66	0.5380475	1.6842737	0.00170068	0.00916976	0.939	2281	tags=33%, list=9%, signal=37%
GLEEVECPATHWAY	22	0.6511681	1.6841569	0.00572519	0.00916245	0.939	4151	tags=50%, list=17%, signal=60%
HIVNEFPATHWAY	55	0.5466153	1.6831013	0.00355872	0.00925947	0.94	4325	tags=47%, list=17%, signal=57%
GCRPATHWAY	17	0.70068645	1.6820902	0.00732601	0.00931398	0.941	1819	tags=35%, list=7%, signal=38%
UVB_NHEK3_C6	27	0.64682084	1.6820006	0.00545455	0.00930313	0.941	4132	tags=52%, list=16%, signal=62%
HADDAD_HSC_CD10_UP	254	0.44490317	1.6813107	0	0.00934338	0.942	4852	tags=34%, list=19%, signal=42%
HIPPOCAMPUS_DEVELOPMENT_NEONATAL	26	0.63674384	1.6799735	0.0019305	0.0094621	0.943	3083	tags=35%, list=12%, signal=39%
LEE_DENA_UP	59	0.5362821	1.6797788	0.00173913	0.00945828	0.944	2895	tags=34%, list=12%, signal=38%
OLD_FIBRO_UP	54	0.5385558	1.6788601	0.00181488	0.00955554	0.946	3282	tags=44%, list=13%, signal=51%
AGED_MOUSE_NEOCORTEX_UP	66	0.5245727	1.6781412	0.0017301	0.00965239	0.948	4455	tags=39%, list=18%, signal=48%
LE_MYELIN_UP	88	0.5151295	1.6778897	0	0.00965794	0.949	3760	tags=33%, list=15%, signal=39%
HSP27PATHWAY	15	0.72048175	1.677041	0.00747664	0.00973381	0.951	4453	tags=67%, list=18%, signal=81%
GH_GHRHR_KO_6HRS_UP	68	0.5284502	1.6730418	0.0018315	0.01016283	0.956	5256	tags=43%, list=21%, signal=54%
HSC_MATURE_ADULT	316	0.4370583	1.6725228	0	0.01020086	0.957	3452	tags=28%, list=14%, signal=32%
HDACI_COLON_CUR24HRS_UP	35	0.59512186	1.670964	0.00186567	0.01039252	0.958	5118	tags=63%, list=20%, signal=79%
HASLINGER_B_CLL_13Q14	19	0.67781633	1.6698241	0.00585938	0.01053647	0.959	2970	tags=37%, list=12%, signal=42%
UV-CMV_UNIQUE_HCMV_6HRS_DN	77	0.5139133	1.6678748	0	0.01073701	0.961	4602	tags=35%, list=18%, signal=43%
AS3_FIBRO_C4	18	0.6808891	1.6678479	0.00567108	0.01072019	0.961	2256	tags=39%, list=9%, signal=43%
LH_GRANULOSA_UP	79	0.51511616	1.6668668	0	0.01080234	0.961	4205	tags=47%, list=17%, signal=56%
HSA04012_ERBB_SIGNALING_PATHWAY	87	0.49984416	1.6653562	0	0.01096633	0.963	5014	tags=41%, list=20%, signal=52%
E2F3_ONCOGENIC_SIGNATURE	225	0.45274857	1.6644491	0	0.01102886	0.965	5687	tags=39%, list=23%, signal=50%
DFOSB_BRAIN_2WKS_UP	37	0.5865789	1.6635288	0.00177305	0.01111328	0.968	2703	tags=30%, list=11%, signal=33%
ALCALAY_AML_NPMC_UP	131	0.4745711	1.6633536	0	0.01111264	0.97	4789	tags=41%, list=19%, signal=51%
LI_FETAL_VS_WT_KIDNEY_UP	175	0.45974106	1.6628684	0	0.0111836	0.971	2636	tags=27%, list=10%, signal=30%
ZHAN_MMPC_SIM_BC_AND_MM	44	0.5729144	1.6624744	0	0.0112121	0.971	5588	tags=52%, list=22%, signal=67%
UEDA_MOUSE_SCN	81	0.5096566	1.6624697	0.00172117	0.01118799	0.971	4978	tags=43%, list=20%, signal=54%
HYPOXIA_RCC_NOVHL_UP	62	0.5328584	1.6620603	0	0.01124335	0.971	2762	tags=35%, list=11%, signal=40%
APOPTOSIS_KEGG	49	0.5640094	1.6612136	0.00180832	0.01133318	0.972	4453	tags=49%, list=18%, signal=59%
HDACI_COLON_BUT12HRS_DN	72	0.522111	1.6607891	0.00340716	0.01136455	0.973	4957	tags=46%, list=20%, signal=57%
APOPTOSIS	67	0.52769274	1.6603336	0	0.01140811	0.975	4466	tags=45%, list=18%, signal=54%
WNTPATHWAY	25	0.6335768	1.6599281	0.01509434	0.01142268	0.976	4205	tags=40%, list=17%, signal=48%
WELCSH_BRCA_UP	39	0.57080626	1.6598452	0.00377359	0.01140793	0.976	3198	tags=41%, list=13%, signal=47%
UCALPAINPATHWAY	17	0.7096781	1.6595173	0.00738007	0.011416	0.976	3422	tags=53%, list=14%, signal=61%
NGFPATHWAY	19	0.6690075	1.6571914	0.01565558	0.01168126	0.978	6209	tags=68%, list=25%, signal=91%
HOFMANN_MANTEL_LYMPHOMA_VS_LYMPH_NODES_UP	47	0.5580507	1.6567934	0.00177936	0.01171778	0.979	2700	tags=34%, list=11%, signal=38%
REN_E2F1_TARGETS	38	0.58043146	1.6547432	0.01088929	0.01198265	0.979	3415	tags=37%, list=14%, signal=43%
PASSERINI_INFLAMMATION	24	0.6397561	1.6527739	0.00572519	0.01220711	0.98	3790	tags=54%, list=15%, signal=64%
HSA03022_BASAL_TRANSCRIPTION_FACTORS	32	0.6028129	1.6519686	0.00365631	0.01227423	0.982	7206	tags=75%, list=29%, signal=105%
GOLDRATH_HP	144	0.4674312	1.6493907	0	0.0125174	0.983	5643	tags=42%, list=22%, signal=54%
DEATHPATHWAY	33	0.58448666	1.6493183	0.00356506	0.01252513	0.983	4325	tags=48%, list=17%, signal=58%
EPOPATHWAY	19	0.66379094	1.6489323	0.01862197	0.01258762	0.983	5118	tags=58%, list=20%, signal=73%
HSA04810_REGULATION_OF_ACTIN_CYTOSKELETON	203	0.44804412	1.6483144	0	0.01263738	0.983	4089	tags=32%, list=16%, signal=38%
PARK_RARALPHA_MOD	60	0.52231085	1.6447046	0	0.01307447	0.984	1646	tags=25%, list=7%, signal=27%
YAGI_AML_PROG_ASSOC	120	0.47772205	1.6446258	0.00162075	0.01305679	0.984	4652	tags=44%, list=18%, signal=54%
BRCA1_SW480_DN	17	0.67961365	1.6440837	0.01330799	0.01307985	0.984	3400	tags=41%, list=14%, signal=48%
ADIP_DIFF_CLUSTER4	34	0.59579575	1.644032	0.00353982	0.0130688	0.984	5282	tags=50%, list=21%, signal=63%
P53HYPOXIAPATHWAY	19	0.6628879	1.64077	0.01883239	0.0135472	0.986	2205	tags=37%, list=9%, signal=40%
IGLESIAS_E2FMINUS_UP	138	0.47110742	1.6406838	0	0.0135319	0.986	3070	tags=34%, list=12%, signal=39%
SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES	35	0.5812761	1.639825	0.00922509	0.01367215	0.987	5050	tags=49%, list=20%, signal=61%
SANSOM_APC_LOSS4_UP	112	0.4777544	1.6397102	0	0.01366608	0.987	3014	tags=26%, list=12%, signal=29%
IL6_FIBRO_UP	46	0.55077404	1.6396644	0.00355872	0.01365047	0.987	2128	tags=33%, list=8%, signal=36%
HDACI_COLON_TSA2HRS_UP	53	0.53595513	1.6383084	0.01084991	0.01381747	0.987	3714	tags=42%, list=15%, signal=49%
AGEING_KIDNEY_SPECIFIC_DN	120	0.47023407	1.6375543	0	0.0139063	0.987	6372	tags=57%, list=25%, signal=76%
G1PATHWAY	26	0.61766964	1.6367807	0.00727273	0.01401862	0.988	4428	tags=35%, list=18%, signal=42%
IDX_TSA_UP_CLUSTER2	60	0.5272987	1.6335061	0.00746269	0.01453188	0.993	5111	tags=55%, list=20%, signal=69%
UVC_LOW_C2_DN	20	0.65001523	1.6326978	0.01478743	0.01463816	0.993	3001	tags=45%, list=12%, signal=51%
HASLINGER_B_CLL_11Q23	20	0.6553246	1.6309309	0.00914077	0.01487527	0.994	3191	tags=35%, list=13%, signal=40%
STRESS_ARSENIC_SPECIFIC_UP	141	0.46427605	1.6300714	0	0.01498246	0.995	5006	tags=45%, list=20%, signal=55%
ST_INTEGRIN_SIGNALING_PATHWAY	79	0.5004156	1.6281569	0	0.01520839	0.995	5054	tags=47%, list=20%, signal=58%
G2PATHWAY	23	0.6392049	1.6275508	0.00896057	0.01529664	0.995	2704	tags=26%, list=11%, signal=29%
TSA_HEPATOMA_CANCER_UP	40	0.56594616	1.6270112	0.00379507	0.01536369	0.995	2000	tags=38%, list=8%, signal=41%
PDGF_ES_UP	18	0.6636665	1.626312	0.02798508	0.0154452	0.995	4090	tags=72%, list=16%, signal=86%
JAIN_NEMO_DIFF	71	0.5088114	1.6258688	0.00180832	0.01547813	0.995	4679	tags=48%, list=19%, signal=59%
CMV_HCMV_TIMECOURSE_16HRS_DN	20	0.64851415	1.625248	0.00968992	0.0155473	0.995	2940	tags=45%, list=12%, signal=51%
ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	43	0.5579875	1.6249772	0.00355872	0.01557079	0.995	6279	tags=49%, list=25%, signal=65%
RORIE_ES_PNET_UP	27	0.60196435	1.6245755	0.01351351	0.01562435	0.995	3834	tags=41%, list=15%, signal=48%
HSC_LTHSC_FETAL	256	0.43041468	1.6238383	0	0.01574656	0.995	4579	tags=34%, list=18%, signal=41%
ST_MYOCYTE_AD_PATHWAY	24	0.61858857	1.623826	0.02142857	0.0157155	0.995	2643	tags=25%, list=11%, signal=28%
DRUG_RESISTANCE_AND_METABOLISM	96	0.48473322	1.6216397	0.0017762	0.01602142	0.996	4811	tags=36%, list=19%, signal=45%
MUNSHI_MM_VS_PCS_UP	75	0.4971939	1.6216252	0.00174216	0.01598994	0.996	3939	tags=40%, list=16%, signal=47%
WERNERONLY_FIBRO_DN	61	0.51043344	1.6211275	0.0034662	0.01605138	0.996	4323	tags=41%, list=17%, signal=49%
GAMMA_ESR_WS_UNREG	29	0.58695114	1.6207825	0.01301115	0.01608885	0.996	3431	tags=38%, list=14%, signal=44%
SA_TRKA_RECEPTOR	16	0.6758543	1.6196632	0.01761252	0.01620848	0.996	6209	tags=63%, list=25%, signal=83%
HINATA_NFKB_DN	20	0.6517167	1.6170275	0.00934579	0.01659958	0.996	1568	tags=25%, list=6%, signal=27%
GUO_HEX_UP	79	0.49141267	1.6169635	0.00176678	0.01656729	0.996	4054	tags=44%, list=16%, signal=53%
VEGF_HUVEC_UP	15	0.69724864	1.6166788	0.01465202	0.01659424	0.996	5293	tags=60%, list=21%, signal=76%
BLEO_MOUSE_LYMPH_LOW_24HRS_DN	27	0.60220826	1.6162115	0.01449275	0.01664168	0.997	5427	tags=67%, list=22%, signal=85%
HSC_LTHSC_SHARED	256	0.43041468	1.615411	0	0.01674095	0.997	4579	tags=34%, list=18%, signal=41%
PGC	341	0.41833442	1.6150029	0	0.01676985	0.997	4946	tags=38%, list=20%, signal=47%
HDACI_COLON_BUT24HRS_DN	105	0.4730481	1.6147268	0	0.01678435	0.997	4378	tags=37%, list=17%, signal=45%
PRMT5_KD_UP	181	0.44391713	1.6128552	0	0.01707584	0.997	4581	tags=35%, list=18%, signal=43%
ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY	34	0.56926864	1.6126714	0.01855288	0.01706663	0.998	2378	tags=32%, list=9%, signal=36%
POMEROY_DESMOPLASIC_VS_CLASSIC_MD_UP	42	0.5478331	1.612663	0.01094891	0.01703393	0.998	5416	tags=50%, list=22%, signal=64%
G_PROTEIN_SIGNALING	91	0.48696902	1.6120161	0.00170358	0.01712916	0.998	6156	tags=46%, list=24%, signal=61%
41BBPATHWAY	18	0.65623864	1.611696	0.01883239	0.01714016	0.998	4010	tags=61%, list=16%, signal=73%
FALT_BCLL_DN	48	0.5413566	1.6108885	0.00544465	0.0172729	0.998	4234	tags=44%, list=17%, signal=53%
FALT_BCLL_IG_MUTATED_VS_WT_UP	45	0.53980285	1.6107686	0.00185529	0.01725714	0.998	4987	tags=49%, list=20%, signal=61%
IL2RBPATHWAY	34	0.58094865	1.610648	0.01013514	0.01724473	0.998	4151	tags=47%, list=17%, signal=56%
HDACI_COLON_BUT_UP	171	0.44816905	1.6098533	0	0.01737351	0.998	3717	tags=32%, list=15%, signal=37%
IDX_TSA_DN_CLUSTER6	24	0.6218357	1.6093228	0.005386	0.01741787	0.998	5265	tags=46%, list=21%, signal=58%
IL1_CORNEA_DN	70	0.5044702	1.6092025	0	0.01739925	0.998	4206	tags=36%, list=17%, signal=43%
TPA_RESIST_EARLY_DN	75	0.50698775	1.6088648	0.00175747	0.01742655	0.998	5089	tags=43%, list=20%, signal=53%
HSA04130_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	33	0.57537687	1.6084064	0.00548446	0.0174786	0.998	6303	tags=61%, list=25%, signal=81%
WANG_MLL_CBP_VS_GMP_DN	39	0.5598086	1.6072813	0.00722022	0.01768021	0.998	4849	tags=54%, list=19%, signal=67%
TPA_SENS_EARLY_UP	48	0.53554064	1.6068636	0.00364299	0.01771247	0.998	3393	tags=35%, list=13%, signal=41%
HSA04620_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	102	0.46996206	1.6029116	0.0017094	0.01849757	0.998	4063	tags=28%, list=16%, signal=34%

ET743_SARCOMA_UP	64	0.5068681	1.6014864	0.00368324	0.01872273	0.999	3395	tags=38%, list=13%, signal=43%
TSADAC_PANC50_UP	41	0.55402154	1.6003743	0.00556586	0.01893527	0.999	2864	tags=29%, list=11%, signal=33%
JNK_UP	31	0.5973783	1.5997248	0.00736648	0.01903353	0.999	2698	tags=39%, list=11%, signal=43%
SERUM_FIBROBLAST_CELLCYCLE	129	0.45955634	1.599494	0.00316957	0.01903224	0.999	4562	tags=26%, list=18%, signal=32%
IFN_ALL_UP	18	0.65550905	1.5992167	0.01526718	0.01903968	0.999	2555	tags=39%, list=10%, signal=43%
JECHLINGER_EMT_UP	54	0.52460635	1.5987529	0.00877193	0.01910853	0.999	4230	tags=44%, list=17%, signal=53%
IGF1RPATHWAY	15	0.66811866	1.5985992	0.01992754	0.01910425	0.999	4907	tags=60%, list=20%, signal=74%
CALCINEURINPATHWAY	19	0.6431034	1.5983986	0.01590457	0.01911368	0.999	2801	tags=32%, list=11%, signal=36%
UV-CMV_UNIQUE_HCMV_6HRS_UP	101	0.4753075	1.5976845	0	0.01923525	0.999	4895	tags=40%, list=19%, signal=49%
HIPPOCAMPUS_DEVELOPMENT_PRENATAL	32	0.57304585	1.5967075	0.01612903	0.01937794	0.999	4894	tags=53%, list=19%, signal=66%
SA_G1_AND_S_PHASES	15	0.6820643	1.596652	0.02398524	0.01936197	0.999	3642	tags=47%, list=14%, signal=55%
CMV_HCMV_TIMECOURSE_8HRS_DN	15	0.69910353	1.595173	0.02119461	0.01965966	0.999	4567	tags=47%, list=18%, signal=57%
TELPATHWAY	15	0.6918701	1.5951359	0.02411874	0.0196403	0.999	2194	tags=40%, list=9%, signal=44%
HDACI_COLON_BUT48HRS_UP	92	0.477533	1.5934587	0.00169205	0.01994115	0.999	3400	tags=33%, list=14%, signal=38%
BCRPATHWAY	35	0.56947964	1.5931699	0.01243339	0.01995466	0.999	1954	tags=29%, list=8%, signal=31%
HSC_LTHSC_ADULT	346	0.41101065	1.5930959	0	0.01993781	0.999	4579	tags=31%, list=18%, signal=37%
FALT_BCLL_IG_MUTATED_VS_WT_DN	43	0.5488349	1.5907708	0.0036036	0.02037635	0.999	4463	tags=47%, list=18%, signal=56%
MUNSHI_MM_UP	66	0.5056777	1.5906805	0.01071429	0.02036694	0.999	5340	tags=50%, list=21%, signal=63%
SHEPARD_NEG_REG_OF_CELL_PROLIFERATION	108	0.46346977	1.5904819	0.0017094	0.02038459	0.999	4629	tags=31%, list=18%, signal=38%
PITUITARY_FETAL_UP	17	0.6520764	1.5902983	0.02376238	0.02037852	0.999	5901	tags=47%, list=23%, signal=61%
CMV_IE86_UP	50	0.52353865	1.5902714	0.01546392	0.02034456	0.999	6002	tags=44%, list=24%, signal=58%
HDACI_COLON_BUT16HRS_DN	102	0.4681224	1.5901251	0.00166667	0.02032972	0.999	5063	tags=45%, list=20%, signal=56%
HOFFMANN_BIVSBII_BI_TABLE2	192	0.43545997	1.586165	0	0.021114	0.999	4155	tags=28%, list=17%, signal=33%
CARM_ERPATHWAY	27	0.5921379	1.5852101	0.01645338	0.02132521	0.999	5863	tags=48%, list=23%, signal=63%
FERNANDEZ_MYC_TARGETS	172	0.44282252	1.5845326	0	0.02140075	0.999	3422	tags=27%, list=14%, signal=31%
HDACI_COLON_TSA_UP	108	0.46179155	1.5838236	0	0.02151563	0.999	2544	tags=28%, list=10%, signal=31%
IDX_TSA_DN_CLUSTER4	26	0.59771806	1.5804923	0.01459854	0.02213396	0.999	4124	tags=54%, list=16%, signal=64%
PROTEASOMEPATHWAY	21	0.6219527	1.5775566	0.01814882	0.0227303	1	5980	tags=76%, list=24%, signal=100%
LEE_MYC_E2F1_UP	53	0.51483417	1.5739474	0.01272727	0.02352076	1	2324	tags=32%, list=9%, signal=35%
HSA00271_METHIONINE_METABOLISM	18	0.6397296	1.5722215	0.01330799	0.02390595	1	3242	tags=39%, list=13%, signal=45%
UNDERHILL_PROLIFERATION	18	0.6353768	1.5721992	0.01886793	0.02386372	1	5773	tags=61%, list=23%, signal=79%
CREB_BRAIN_8WKS_DN	46	0.5247538	1.5720868	0.01423488	0.02384303	1	3635	tags=35%, list=14%, signal=41%
ZHAN_MULTIPLE_MYELOMA_VS_NORMAL_UP	62	0.5077916	1.5719552	0.0034188	0.02381447	1	5197	tags=44%, list=21%, signal=55%
BRENTANI_CYTOSKELETON	19	0.62579095	1.5701253	0.01734104	0.02423529	1	2080	tags=32%, list=8%, signal=34%
BLEO_HUMAN_LYMPH_HIGH_24HRS_UP	89	0.4746543	1.569133	0	0.02443869	1	4871	tags=46%, list=19%, signal=57%
UVC_LOW_C3_DN	19	0.64468324	1.5688174	0.01775148	0.02447846	1	4029	tags=42%, list=16%, signal=50%
CMV_HCMV_TIMECOURSE_48HRS_DN	105	0.4652098	1.5666784	0.00671141	0.02494928	1	5042	tags=42%, list=20%, signal=52%
FLOTHO_CASP8AP2_MRD_DIFF	72	0.4933495	1.5654536	0.00177936	0.02519257	1	4881	tags=43%, list=19%, signal=53%
ALZHEIMERS_INCIPIENT_UP	331	0.40405595	1.5653769	0	0.02518329	1	4430	tags=33%, list=18%, signal=39%
OXSTRESS_RPETWO_DN	107	0.46529168	1.5653152	0	0.02515785	1	5082	tags=42%, list=20%, signal=52%
GLYCOLYSIS	53	0.51197106	1.564907	0.00541516	0.02517778	1	3008	tags=32%, list=12%, signal=36%
KANNAN_P53_DN	15	0.66666263	1.5644927	0.01744186	0.02521596	1	3801	tags=47%, list=15%, signal=55%
TGFBETA_LATE_UP	33	0.57088625	1.5641949	0.00540541	0.02523806	1	2671	tags=39%, list=11%, signal=44%
HCMVPATHWAY	16	0.6643945	1.5638964	0.02957486	0.02526785	1	3699	tags=44%, list=15%, signal=51%
SPRYPATHWAY	18	0.63331044	1.5630876	0.02281369	0.02547718	1	4907	tags=44%, list=20%, signal=55%
ADIP_DIFF_CLUSTER1	55	0.5148237	1.5629277	0.00728597	0.02545966	1	3834	tags=36%, list=15%, signal=43%
NUCLEOTIDE_METABOLISM	15	0.66706884	1.5626082	0.02697842	0.025507	1	5374	tags=53%, list=21%, signal=68%
ZHANG_EFT_EWSFLI1_UP	85	0.4756544	1.5613056	0.00340716	0.02572215	1	3094	tags=34%, list=12%, signal=39%
MITOCHONDRIAPATHWAY	20	0.62866175	1.5611691	0.02772643	0.02570722	1	5471	tags=60%, list=22%, signal=77%
HTERT_UP	66	0.4941358	1.5607352	0.0071048	0.02576438	1	4132	tags=36%, list=16%, signal=43%
ZHAN_MM_CD138_MS_VS_REST	43	0.5292159	1.5590074	0.01492537	0.02616534	1	3623	tags=37%, list=14%, signal=43%
UV-4NQO_FIBRO_DN	27	0.5688492	1.557734	0.02162162	0.02636386	1	4154	tags=41%, list=17%, signal=49%
AGEING_BRAIN_DN	118	0.44755352	1.555818	0.0017331	0.02678462	1	5056	tags=42%, list=20%, signal=52%
CELL_CYCLE_REGULATOR	22	0.6278006	1.5553993	0.0261194	0.02685467	1	4261	tags=50%, list=17%, signal=60%
FRASOR_ER_UP	29	0.58493036	1.5540504	0.00550459	0.02713554	1	2225	tags=34%, list=9%, signal=38%
IL6_SCAR_FIBRO_UP	24	0.5955319	1.5540307	0.01971326	0.02709482	1	4336	tags=46%, list=17%, signal=55%
FRASOR_ER_DN	60	0.5024794	1.553202	0.01048951	0.02725167	1	3927	tags=35%, list=15%, signal=38%
RHOPATHWAY	30	0.55240774	1.5512955	0.02540835	0.027675	1	5054	tags=50%, list=20%, signal=62%
RELAPATHWAY	16	0.6589134	1.5489072	0.03041825	0.02825468	1	3426	tags=50%, list=14%, signal=58%
ZHAN_MM_CD138_LB_VS_REST	35	0.5360351	1.5473361	0.01751314	0.02863402	1	2514	tags=34%, list=10%, signal=38%
KENNY_WNT_DN	44	0.53594345	1.5458204	0.01462523	0.02901748	1	5105	tags=48%, list=20%, signal=60%
PYRUVATE_METABOLISM	37	0.5472911	1.5439043	0.01604278	0.02946273	1	4744	tags=43%, list=19%, signal=53%
ZMPSTE24_KO_UP	32	0.55263084	1.5435735	0.02803738	0.02948919	1	3026	tags=34%, list=12%, signal=39%
DORSAM_HOXA9_UP	33	0.55853975	1.5407369	0.01083033	0.03027143	1	4875	tags=61%, list=19%, signal=75%
TUMOR_SUPRESSOR	24	0.59161884	1.5399683	0.02067669	0.03043186	1	6778	tags=58%, list=27%, signal=80%
CANTHARIDIN_DN	48	0.51757854	1.5399568	0.00874126	0.03038631	1	4221	tags=46%, list=17%, signal=55%
GLYCOLYSIS_AND_GLUCONEOGENESIS	43	0.52666944	1.5390177	0.01598579	0.03056809	1	4587	tags=44%, list=18%, signal=54%
TSA_PANC50_UP	38	0.5289659	1.5369636	0.00952381	0.03106587	1	2202	tags=32%, list=9%, signal=35%
SANA_TNFA_ENDOTHELIAL_DN	80	0.4725333	1.5360897	0.00729927	0.03129377	1	4119	tags=33%, list=16%, signal=39%
O6BG_RESIST_MEDULLOBLASTOMA_UP	25	0.5847435	1.5360848	0.03106796	0.03124205	1	867	tags=24%, list=3%, signal=25%
GNATENKO_PLATELET	42	0.5178522	1.5356041	0.01073345	0.0313408	1	5134	tags=43%, list=20%, signal=54%
TPOPATHWAY	23	0.59210753	1.5350949	0.02359347	0.03145676	1	5118	tags=48%, list=20%, signal=60%
UBIQUITIN_MEDIATED_PROTEOLYSIS	24	0.5799012	1.534979	0.02747253	0.03145255	1	6322	tags=50%, list=25%, signal=67%
HSA05223_NON_SMALL_CELL_LUNG_CANCER	54	0.50362045	1.5347366	0.00884956	0.03146788	1	4089	tags=31%, list=16%, signal=38%
GLUCONEOGENESIS	53	0.51197106	1.5338306	0.00932836	0.03170811	1	3008	tags=32%, list=12%, signal=36%
VEGF_HUVEC_2HRS_UP	30	0.5687288	1.5313785	0.01633394	0.03237901	1	2402	tags=33%, list=10%, signal=37%
O6BG_RESIST_MEDULLOBLASTOMA_DN	47	0.51096827	1.5311348	0.01234568	0.03239878	1	5934	tags=55%, list=24%, signal=72%
SHEPARD_BMYB_MORPHOLINO_UP	160	0.43176004	1.5285782	0.00335008	0.03310852	1	5124	tags=39%, list=20%, signal=48%
BECKER_TAMOXIFEN_RESISTANT_DN	47	0.5176605	1.5280721	0.01757469	0.03320582	1	2894	tags=32%, list=12%, signal=36%
G13_SIGNALING_PATHWAY	39	0.5333944	1.5276153	0.01258993	0.03329356	1	3825	tags=38%, list=15%, signal=45%
ZHAN_MMPC_EARLYVS	48	0.50724465	1.5270516	0.01202749	0.03338021	1	4897	tags=40%, list=19%, signal=49%
CALRES_MOUSE_UP	29	0.56311154	1.5265309	0.02793296	0.0334794	1	4088	tags=45%, list=16%, signal=53%
BRCA2_BRCA1_UP	49	0.5060846	1.5257863	0.012939	0.03363711	1	5128	tags=45%, list=20%, signal=56%
ARFPATHWAY	16	0.6476581	1.5255086	0.02095238	0.03363431	1	4641	tags=50%, list=18%, signal=61%
FERRANDO_MLL_T_ALL_DN	84	0.46273848	1.5253531	0.00547445	0.03362433	1	5243	tags=48%, list=21%, signal=60%
STRESS_ARSENIC_SPECIFIC_DN	27	0.57935524	1.5211813	0.02429907	0.03483616	1	4737	tags=56%, list=19%, signal=68%
CALRES_RHESUS_UP	66	0.48025054	1.5206757	0.00900901	0.03492704	1	3827	tags=38%, list=15%, signal=45%
HSA05040_HUNTINGTONS_DISEASE	29	0.55113614	1.5206618	0.02798508	0.03487577	1	3739	tags=38%, list=15%, signal=45%
BRENTANI_TRANSPORT_OF_VESICLES	22	0.59387594	1.520413	0.03130755	0.03490246	1	3488	tags=45%, list=14%, signal=53%
FLECHNER_KIDNEY_TRANSPLANT_WELL_DN	21	0.610538	1.5192776	0.03195489	0.03517222	1	3853	tags=52%, list=15%, signal=62%
RETT_UP	38	0.53767973	1.51884	0.01694915	0.03523544	1	5560	tags=53%, list=22%, signal=67%
GPCRPATHWAY	35	0.5330047	1.5187061	0.02509653	0.03523022	1	6521	tags=51%, list=26%, signal=69%
CANCER_UNDIFFERENTIATED_META_UP	68	0.4766328	1.518006	0.0070922	0.03539166	1	4554	tags=40%, list=18%, signal=48%
MAGRANGEAS_MULTIPLE_MYELOMA_IGL_VS_IGK_DN	27	0.58337563	1.5176504	0.02597403	0.03543972	1	3275	tags=41%, list=13%, signal=47%
IDX_TSA_DN_CLUSTER2	64	0.4895332	1.5174857	0.01092896	0.03543693	1	2586	tags=36%, list=10%, signal=40%
HSA05020_PARKINSONS_DISEASE	15	0.6511597	1.516924	0.02504817	0.03553075	1	5316	tags=53%, list=21%, signal=68%
VERNELL_PRB_CLSTR1	63	0.48292428	1.5139052	0.008726	0.03638125	1	4247	tags=27%, list=17%, signal=32%
AMINOSUGARS_METABOLISM	15	0.6446441	1.5115339	0.05426357	0.03706896	1	1220	tags=33%, list=5%, signal=35%
GAMMA-UV_FIBRO_UP	35	0.53314614	1.5112958	0.03435805	0.03712008	1	3655	tags=40%, list=15%, signal=47%
TSA_HEPATOMA_UP	35	0.5330766	1.5109535	0.02367942	0.03716667	1	3564	tags=49%, list=14%, signal=57%
DER_IFNG_UP	63	0.48982704	1.5108355	0.01115242	0.03714857	1	3120	tags=32%, list=12%, signal=36%
YAGI_AML_PROG_FAB	179	0.41971686	1.5106468	0	0.03716436	1	3243	tags=27%, list=13%, signal=31%
HSA04910_INSULIN_SIGNALING_PATHWAY	135	0.42817608	1.5105813	0.00853242	0.03713247	1	5069	tags=42%, list=20%, signal=53%
AGUIRRE_PANCREAS_CHR9	22	0.5847973	1.5105611	0.03649635	0.03707915	1	6672	tags=59%, list=27%, signal=80%
AGED_RHESUS_DN	108	0.44435105	1.5093546	0.00343053	0.03744079	1	4914	tags=39%, list=20%, signal=48%
ZHAN_TONSIL_PCBC	43	0.5196937	1.5077932	0.01645338	0.03785208	1	1421	tags=26%, list=6%, signal=27%
TGFBETA_C2_UP	18	0.61985356	1.507234	0.02550091	0.03796548	1	3671	tags=56%, list=15%, signal=65%
IFNALPHA_RESIST_DN	18	0.61634743	1.5072294	0.03393214	0.03790644	1	2150	tags=33%, list=9%, signal=36%
ET743_SARCOMA_6HRS_UP	28	0.56734586	1.5052984	0.04096834	0.03842191	1	3334	tags=39%, list=13%, signal=45%
UV_ESR_OLD_UNREG	18	0.60706955	1.502781	0.05400372	0.03914718	1	2114	tags=28%, list=8%, signal=30%
HESS_HOXAANMEIS1_DN	62	0.47795293	1.5018436	0.01760563	0.03940931	1	4588	tags=42%, list=18%, signal=51%
AGED_MOUSE_MUSCLE_UP	30	0.5430639	1.4980824	0.02824859	0.04062282	1	4535	tags=57%, list=18%, signal=69%
HSA04150_MTOR_SIGNALING_PATHWAY	48	0.5002299	1.497866	0.01549053	0.04064976	1	6362	tags=52%, list=25%, signal=70%
GNATENKO_PLATELET_UP	42	0.5178522	1.4965253	0.01865672	0.04107497	1	5134	tags=43%, list=20%, signal=54%
H2O2_CSBRESCUED_C1_UP	41	0.51563084	1.4960722	0.02131439	0.0411331	1	5002	tags=44%, list=20%, signal=55%
MOREAUX_TACI_HI_IN_PPC_UP	66	0.47426668	1.4960583	0.00359712	0.04107718	1	4701	tags=33%, list=19%, signal=41%
MAPK_CASCADE	30	0.5498437	1.4958218	0.03153989	0.04111646	1	4907	tags=47%, list=20%, signal=58%
CALRES_RHESUS_DN	58	0.47861314	1.495661	0.01978417	0.04110469	1	3120	tags=34%, list=12%, signal=39%
GN_CAMP_GRANULOSA_UP	53	0.49135467	1.4955363	0.01050788	0.04110001	1	3846	tags=45%, list=15%, signal=53%
ARAPPATHWAY	20	0.5990441	1.4954702	0.02884615	0.04106271	1	4219	tags=60%, list=17%, signal=72%
GH_GHRHR_KO_24HRS_UP	136	0.4252466	1.4943769	0.00503356	0.04132913	1	4160	tags=35%, list=17%, signal=41%
CMV_HCMV_TIMECOURSE_18HRS_DN	17	0.62639385	1.4941046	0.03428571	0.04135654	1	6068	tags=59%, list=24%, signal=77%
INTEGRIN_MEDIATED_CELL_ADHESION_KEGG	91	0.45001674	1.4937139	0.00702988	0.0414042	1	5054	tags=44%, list=20%, signal=55%
P21_P53_MIDDLE_DN	22	0.5772591	1.4923434	0.02777778	0.04181776	1	2887	tags=27%, list=11%, signal=31%
METHOTREXATE_PROBCELL_UP	18	0.60637003	1.4914358	0.05029013	0.0420661	1	3195	tags=33%, list=13%, signal=38%
IDX_TSA_DN_CLUSTER1	41	0.5117504	1.4903803	0.03041825	0.04241189	1	4965	tags=59%, list=20%, signal=73%
HDACI_COLON_SUL_DN	205	0.40692255	1.4894956	0	0.04263498	1	5025	tags=38%, list=20%, signal=47%
PTENPATHWAY	16	0.6289958	1.4893014	0.04699248	0.04264356	1	6209	tags=75%, list=25%, signal=100%
TPA_RESIST_LATE_UP	34	0.54394853	1.4886814	0.02930403	0.04277694	1	3312	tags=38%, list=13%, signal=44%
HDACI_COLON_CLUSTER9	59	0.47845614	1.4880573	0.00719425	0.04293862	1	4896	tags=42%, list=19%, signal=52%
HSA04360_AXON_GUIDANCE	128	0.42689112	1.4872634	0.00527241	0.04311827	1	4200	tags=28%, list=17%, signal=34%
IFN_BETA_GLIOMA_UP	62	0.46753246	1.485901	0.02568807	0.04348819	1	4515	tags=37%, list=18%, signal=45%
ST_G_ALPHA_I_PATHWAY	34	0.52614164	1.4856155	0.02692998	0.04353453	1	4089	tags=35%, list=16%, signal=42%
PRMT5_KD_DN	25	0.57483166	1.4848582	0.02540835	0.04373744	1	3536	tags=40%, list=14%, signal=46%
VEGF_MMMEC_ALL_UP	92	0.45376757	1.484838	0.00884956	0.04369708	1	3275	tags=32%, list=13%, signal=36%
HOUSTIS_ROS	31	0.5367548	1.4844908	0.02996255	0.04377018	1	3965	tags=45%, list=16%, signal=54%
TNF_AND_FAS_NETWORK	18	0.62167996	1.4842352	0.03732809	0.04382271	1	3969	tags=50%, list=16%, signal=59%
FCER1PATHWAY	38	0.51751953	1.484115	0.02793296	0.04379874	1	1954	tags=26%, list=8%, signal=28%
MYOD_NIH3T3_UP	81	0.45319977	1.4831475	0.01015228	0.04405898	1	4264	tags=31%, list=17%, signal=37%
BRENTANI_DNA_METHYLATION_AND_MODIFICATION	22	0.58325994	1.4819121	0.03296704	0.04448449	1	4814	tags=45%, list=19%, signal=56%
BRENTANI_PROTEIN_MODIFICATION	143	0.42286915	1.481149	0.00324675	0.04473882	1	5025	tags=41%, list=20%, signal=51%
LU_IL4BCELL	68	0.46692976	1.479307	0.01408451	0.04538445	1	2668	tags=28%, list=11%, signal=31%
HSC_EARLYPROGENITORS_SHARED	420	0.37431073	1.4782356	0	0.0457163	1	5143	tags=35%, list=20%, signal=44%
IRS1_KO_ADIP_DN	110	0.42999744	1.4773983	0.00689655	0.04598649	1	4174	tags=34%, list=17%, signal=40%
SHIPP_FL_VS_DLBCL_DN	34	0.52284765	1.477194	0.03405018	0.04597697	1	5162	tags=56%, list=21%, signal=70%
HSC_EARLYPROGENITORS_ADULT	422	0.37561023	1.4756479	0	0.04652568	1	5143	tags=35%, list=20%, signal=44%
ZHAN_MMPC_SIM	42	0.50689036	1.4755203	0.0228471	0.04652609	1	4253	tags=55%, list=17%, signal=66%
DORSAM_HOXA9_DN	30	0.53889066	1.4744607	0.03195489	0.04686174	1	2471	tags=37%, list=10%, signal=41%
IDX_TSA_UP_CLUSTER5	98	0.4393761	1.4739983	0.00342466	0.04698651	1	4799	tags=42%, list=19%, signal=51%
HESS_HOXAANMEIS1_UP	62	0.47795293	1.4731352	0.01230229	0.0472867	1	4588	tags=42%, list=18%, signal=51%
NAKAJIMA_MCS_UP	93	0.43969068	1.4723272	0.00179856	0.04750062	1	2699	tags=27%, list=11%, signal=30%
ATRIA_UP	190	0.40468946	1.47001	0.00158479	0.04830269	1	3419	tags=29%, list=14%, signal=34%

HSA04920_ADIPOCYTOKINE_SIGNALING_PATHWAY	72	0.45232767	1.4699223	0.01073345	0.04827194	1	4866 tags=40%, list=19%, signal=50%
HSC_EARLYPROGENITORS_FETAL	420	0.37431073	1.4696546	0	0.04832366	1	5143 tags=35%, list=20%, signal=44%
CELL_CYCLE	77	0.45127663	1.4690061	0.01041667	0.04850496	1	6002 tags=39%, list=24%, signal=51%
TOLLPATHWAY	34	0.524761	1.4690039	0.03315881	0.04843476	1	3784 tags=41%, list=15%, signal=48%
TSA_CD4_UP	28	0.53857774	1.4680119	0.05027933	0.04876502	1	2954 tags=43%, list=12%, signal=49%
CANCERDRUGS_PROBCELL_UP	20	0.58069533	1.466416	0.0458891	0.04932635	1	3195 tags=35%, list=13%, signal=40%
CCR3PATHWAY	22	0.570208	1.4647925	0.06148282	0.04991756	1	6470 tags=59%, list=26%, signal=79%

Supplental Table 3C. GSEA applying the c3 TFT gene sets.

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MA	LEADING EDGE
RGTTAMWNATT_V$HNF1_01	60	-0.5123529	-1.6453307	0	0.00882862	0.153	699	tags=20%, list=3%, signal=21%
V$HNF1_01	196	-0.3947922	-1.5033293	0.00255754	0.02331588	0.574	2063	tags=17%, list=8%, signal=18%
V$HNF1_Q6	214	-0.3827675	-1.4855314	0	0.01894972	0.641	2017	tags=16%, list=8%, signal=18%
V$HNF1_C	193	-0.3712104	-1.4303702	0.00526316	0.02559373	0.848	1306	tags=13%, list=5%, signal=14%
GCCATNTTG_V$YY1_Q6	328	0.5942712	2.290567	0	0	0	5529	tags=55%, list=22%, signal=69%
V$BACH1_01	220	0.6033725	2.2612326	0	0	0	3196	tags=33%, list=13%, signal=38%
GTGACGY_V$E4F1_Q6	498	0.5696757	2.254964	0	0	0	4484	tags=40%, list=18%, signal=48%
V$E4F1_Q6	224	0.6000385	2.2321308	0	0	0	4484	tags=42%, list=18%, signal=51%
V$CREBP1CJUN_01	212	0.5912382	2.2029307	0	0	0	4497	tags=42%, list=18%, signal=51%
V$YY1_Q6	181	0.5969891	2.1893024	0	0	0	5353	tags=54%, list=21%, signal=68%
V$BACH2_01	234	0.587297	2.1872487	0	0	0	3196	tags=33%, list=13%, signal=38%
V$AP1_Q6	219	0.5893837	2.171019	0	0	0	3309	tags=34%, list=13%, signal=39%
V$CREB_Q2	208	0.580066	2.1580212	0	0	0	5284	tags=46%, list=21%, signal=57%
V$AP1_Q4	231	0.57855797	2.1452096	0	0	0	3309	tags=33%, list=13%, signal=38%
V$CREB_02	199	0.5804868	2.136413	0	0	0	5284	tags=50%, list=21%, signal=63%
V$CREB_01	210	0.57940024	2.1351106	0	0	0	5519	tags=48%, list=22%, signal=61%
V$SRF_Q5_01	196	0.5785723	2.127399	0	0	0	4789	tags=43%, list=19%, signal=53%
V$AP1FJ_Q2	237	0.57590884	2.1230717	0	0	0	3309	tags=33%, list=13%, signal=38%
TGACGTCA_V$ATF3_Q6	187	0.5812837	2.1147983	0	0	0	4497	tags=42%, list=18%, signal=50%
CGTSACG_V$PAX3_B	112	0.6125472	2.1100082	0	0	0	5714	tags=54%, list=23%, signal=70%
V$AP1_Q4_01	218	0.5635429	2.0992422	0	0	0	3162	tags=30%, list=13%, signal=34%
V$CREB_Q4_01	171	0.58120596	2.098078	0	0	0	5248	tags=46%, list=21%, signal=58%
V$AP1_Q2_01	235	0.5598912	2.0869715	0	0	0	3202	tags=31%, list=13%, signal=35%
V$SRF_C	187	0.57098204	2.0851989	0	0	0	3722	tags=39%, list=15%, signal=45%
V$CREB_Q4	204	0.5614275	2.0822608	0	0	0	5284	tags=44%, list=21%, signal=55%
V$AP1_Q6_01	221	0.55951864	2.0698264	0	0	0	4147	tags=37%, list=16%, signal=44%
V$AP1_C	239	0.55339086	2.068624	0	0	0	3207	tags=30%, list=13%, signal=34%
V$CREBP1_Q2	198	0.5668533	2.0682285	0	0	0	5519	tags=45%, list=22%, signal=57%
V$AP1_Q2	231	0.55759865	2.0608742	0	0	0	3365	tags=31%, list=13%, signal=36%
V$NRF2_01	191	0.5636902	2.046085	0	0	0	6110	tags=61%, list=24%, signal=80%
V$CREB_Q2_01	181	0.56607276	2.0443614	0	0	0	4464	tags=39%, list=18%, signal=47%
KCCGNSWTTT_UNKNOWN	88	0.6146676	2.0394237	0	0	0	5547	tags=61%, list=22%, signal=78%
V$AR_02	33	0.7195514	2.026539	0	0	0	5604	tags=55%, list=22%, signal=70%
GGCNKCCATNK_UNKNOWN	91	0.61896497	2.026152	0	0	0	5453	tags=58%, list=22%, signal=74%
V$ATF4_Q2	200	0.55270433	2.017518	0	0	0	5620	tags=44%, list=22%, signal=56%
V$ATF3_Q6	203	0.54582006	2.0100446	0	0	0	4084	tags=37%, list=16%, signal=44%
TGASTMAGC_V$NFE2_01	168	0.55788183	2.0097554	0	0	0	3155	tags=30%, list=13%, signal=34%
V$ATF_01	216	0.5470428	2.0091538	0	0	0	4084	tags=35%, list=16%, signal=42%
V$FXR_IR1_Q6	91	0.60076696	2.0087833	0	0	0	4565	tags=38%, list=18%, signal=47%
V$ATF6_01	97	0.6025183	2.0047493	0	0	0	3144	tags=36%, list=12%, signal=41%
V$NFMUE1_Q6	193	0.54704887	1.9993665	0	0	0	5446	tags=52%, list=22%, signal=66%
V$AP1_01	222	0.5385724	1.998292	0	0	0	3162	tags=29%, list=13%, signal=33%
V$CEBPB_02	212	0.54038805	1.9951693	0	0	0	4961	tags=42%, list=20%, signal=51%
TMTCGCGANR_UNKNOWN	109	0.587319	1.9888239	0	0	0	4985	tags=50%, list=20%, signal=63%
V$ATF1_Q6	192	0.5395014	1.9753034	0	0	0	4021	tags=34%, list=16%, signal=40%
V$YY1_02	186	0.5452206	1.9710062	0	0	0	5193	tags=50%, list=21%, signal=63%
TCCCRNNRTGC_UNKNOWN	144	0.558287	1.9684423	0	0	0	6022	tags=49%, list=24%, signal=64%
V$PAX3_B	73	0.60719323	1.9550816	0	0	0	3646	tags=38%, list=14%, signal=45%
GCGNNANTTCC_UNKNOWN	98	0.582975	1.9534918	0	0	0	5679	tags=54%, list=23%, signal=70%
V$E4BP4_01	175	0.54051155	1.9509376	0	0	0	4338	tags=34%, list=17%, signal=40%
V$SRF_01	48	0.65185314	1.9480112	0	0	0	4050	tags=48%, list=16%, signal=57%
V$HSF2_01	195	0.52965844	1.9433587	0	3.20E-05	0.001	4895	tags=38%, list=19%, signal=47%
V$E2F1_Q6_01	193	0.5329531	1.942727	0	3.14E-05	0.001	3671	tags=30%, list=15%, signal=34%
V$E2F1_Q4	192	0.53691244	1.9402326	0	3.08E-05	0.001	6002	tags=45%, list=24%, signal=58%
V$ATF_B	156	0.5488	1.9399536	0	3.02E-05	0.001	4433	tags=38%, list=18%, signal=46%
V$WHN_B	201	0.52276105	1.9284623	0	6.24E-05	0.002	5604	tags=40%, list=22%, signal=51%
V$SRF_Q4	196	0.52351165	1.9238102	0	6.12E-05	0.002	3722	tags=34%, list=15%, signal=39%
V$SRF_Q6	214	0.51795614	1.9179518	0	8.95E-05	0.003	4427	tags=36%, list=18%, signal=43%
V$CREB_Q3	202	0.5201336	1.9161655	0	8.79E-05	0.003	4900	tags=40%, list=19%, signal=49%
V$HIF1_Q5	192	0.5230604	1.9150733	0	8.63E-05	0.003	4748	tags=38%, list=19%, signal=47%
V$E2F1_Q4_01	187	0.5269587	1.9129777	0	8.48E-05	0.003	5736	tags=40%, list=23%, signal=52%
TTGCWCAAY_V$CEBPB_02	52	0.6298663	1.9079359	0	8.34E-05	0.003	3703	tags=44%, list=15%, signal=52%
V$NFKAPPAB_01	212	0.5172676	1.9035771	0	1.08E-04	0.004	4466	tags=37%, list=18%, signal=44%
V$E2F_Q3_01	192	0.5242049	1.9018143	0	1.07E-04	0.004	5736	tags=40%, list=23%, signal=52%
V$STAT1_02	195	0.51544815	1.9013222	0	1.05E-04	0.004	5507	tags=45%, list=22%, signal=57%
ATCMNTCCGY_UNKNOWN	41	0.6552566	1.8943037	0	1.03E-04	0.004	4570	tags=54%, list=18%, signal=65%
V$MYCMAX_B	218	0.5103272	1.8892235	0	1.28E-04	0.005	4570	tags=37%, list=18%, signal=44%
V$E2F_01	58	0.6028261	1.8889593	0	1.26E-04	0.005	6046	tags=55%, list=24%, signal=72%
V$MAZ_Q6	146	0.5332769	1.876554	0	1.49E-04	0.006	5467	tags=42%, list=22%, signal=54%
V$ELK1_02	182	0.5175156	1.8746837	0	1.46E-04	0.006	6213	tags=60%, list=25%, signal=80%
V$HTF_01	55	0.6203799	1.8740788	0	1.68E-04	0.007	1885	tags=33%, list=7%, signal=35%
V$TFIII_Q6	171	0.52374285	1.873763	0	1.65E-04	0.007	4550	tags=36%, list=18%, signal=43%
V$MAZR_01	183	0.5114655	1.8720942	0	1.86E-04	0.008	5489	tags=44%, list=22%, signal=56%
TCCATTKW_UNKNOWN	192	0.51396286	1.8720459	0	1.84E-04	0.008	4910	tags=40%, list=20%, signal=49%
TTAYRTAA_V$E4BP4_01	207	0.50914633	1.8717595	0	1.81E-04	0.008	4161	tags=35%, list=17%, signal=41%
V$CEBP_C	165	0.514555	1.8705193	0	1.79E-04	0.008	5209	tags=38%, list=21%, signal=47%
V$E2F_Q4	188	0.5105552	1.8689679	0	1.76E-04	0.008	5736	tags=39%, list=23%, signal=51%
V$SP1_01	194	0.51106423	1.8682902	0	1.74E-04	0.008	5336	tags=41%, list=21%, signal=52%
V$GABP_B	182	0.5167688	1.864873	0	1.71E-04	0.008	5465	tags=50%, list=22%, signal=63%
V$AP2_Q6	203	0.5076914	1.8622507	0	1.69E-04	0.008	4758	tags=38%, list=19%, signal=47%
GKCGCNNNNNNNTGAYG_UNKNOWN	45	0.62706494	1.8590322	0	1.67E-04	0.008	4171	tags=53%, list=17%, signal=64%
V$HIF1_Q3	183	0.5153509	1.8577324	0	1.65E-04	0.008	3361	tags=33%, list=13%, signal=38%
GGAANCGGAANY_UNKNOWN	86	0.56315625	1.8550348	0	1.63E-04	0.008	6199	tags=59%, list=25%, signal=78%
V$E2F1DP2_01	189	0.50749	1.8550315	0	1.61E-04	0.008	5755	tags=40%, list=23%, signal=52%
V$E2F_Q4_01	192	0.5121753	1.8546622	0	1.59E-04	0.008	5736	tags=41%, list=23%, signal=52%
RGAANNTTC_V$HSF1_01	351	0.48139387	1.8530291	0	1.76E-04	0.009	4895	tags=36%, list=19%, signal=44%
V$USF_Q6_01	189	0.5126237	1.8490425	0	1.93E-04	0.01	4699	tags=41%, list=19%, signal=50%
WYAAANNRNNNGCG_UNKNOWN	47	0.6193501	1.848892	0	1.91E-04	0.01	2915	tags=38%, list=12%, signal=43%
GGGNRMNNYCAT_UNKNOWN	65	0.58417284	1.846254	0	1.89E-04	0.01	2891	tags=38%, list=11%, signal=43%
V$HSF_Q6	151	0.51976216	1.8447096	0	1.86E-04	0.01	4090	tags=33%, list=16%, signal=39%
V$E2F1DP1RB_01	186	0.5029712	1.8444108	0	1.84E-04	0.01	5736	tags=39%, list=23%, signal=50%
TGAYRTCA_V$ATF3_Q6	431	0.47029677	1.8441186	0	1.82E-04	0.01	4535	tags=32%, list=18%, signal=38%
V$E2F4DP2_01	189	0.50749	1.8409696	0	1.98E-04	0.011	5755	tags=40%, list=23%, signal=52%
V$NFKB_Q6	212	0.4935854	1.8365207	0	1.96E-04	0.011	4480	tags=36%, list=18%, signal=44%
TTCYRGAA_UNKNOWN	241	0.49137568	1.8325168	0	1.94E-04	0.011	5002	tags=39%, list=20%, signal=48%
V$E2F_Q6	186	0.49912423	1.8320893	0	1.91E-04	0.011	5736	tags=37%, list=23%, signal=48%
V$E2F1DP1_01	189	0.50749	1.8318052	0	1.89E-04	0.011	5755	tags=40%, list=23%, signal=52%
V$YY1_01	205	0.49771935	1.830329	0	2.03E-04	0.012	4717	tags=40%, list=19%, signal=48%
V$PAX4_04	175	0.50707585	1.8259888	0	2.36E-04	0.014	5050	tags=35%, list=20%, signal=43%
CCGNMNNTNACG_UNKNOWN	61	0.5863429	1.825174	0	2.33E-04	0.014	5620	tags=62%, list=22%, signal=80%
AAGWWRNYGGC_UNKNOWN	91	0.5499313	1.8251439	0	2.31E-04	0.014	5567	tags=56%, list=22%, signal=72%
V$CHOP_01	195	0.49513888	1.8229665	0	2.62E-04	0.016	3618	tags=29%, list=14%, signal=33%
V$TAXCREB_01	114	0.53641105	1.8204235	0	2.60E-04	0.016	4900	tags=44%, list=19%, signal=54%
YGCGYRCGC_UNKNOWN	238	0.4876269	1.8193318	0	2.57E-04	0.016	4765	tags=38%, list=19%, signal=46%
V$E2F_02	189	0.5008548	1.8166422	0	2.86E-04	0.018	5755	tags=40%, list=23%, signal=51%
WGGAATGY_V$TEF1_Q6	296	0.4755865	1.8165135	0	3.15E-04	0.02	3119	tags=25%, list=12%, signal=29%
V$NRF2_Q4	206	0.49294198	1.8139392	0	3.29E-04	0.021	3155	tags=26%, list=13%, signal=29%
CCAWWNAAGG_V$SRF_Q4	76	0.5601231	1.8121537	0	3.56E-04	0.023	3722	tags=30%, list=15%, signal=35%
YRTCANNRCGC_UNKNOWN	52	0.5988969	1.8106446	0	3.53E-04	0.023	3094	tags=33%, list=12%, signal=37%
V$HLF_01	209	0.4926715	1.8057926	0	3.65E-04	0.024	4765	tags=35%, list=19%, signal=43%
GGGNNTTTCC_V$NFKB_Q6_01	109	0.5266996	1.7998482	0	4.20E-04	0.028	4235	tags=39%, list=17%, signal=47%
V$EGR2_01	158	0.50537944	1.7986289	0	4.31E-04	0.029	4230	tags=37%, list=17%, signal=45%
CCAATNNSNNNGCG_UNKNOWN	50	0.5972796	1.7981342	0	4.27E-04	0.029	3503	tags=38%, list=14%, signal=44%
V$E2F1_Q6	186	0.49275035	1.7963725	0	4.23E-04	0.029	5736	tags=38%, list=23%, signal=49%
ACCTGTTG_UNKNOWN	123	0.51934594	1.7955215	0	4.19E-04	0.029	4011	tags=30%, list=16%, signal=36%
V$CREBP1_01	138	0.5098868	1.7904397	0	4.15E-04	0.029	4038	tags=32%, list=16%, signal=38%
V$TAXCREB_02	21	0.7104156	1.7898393	0.00547445	4.25E-04	0.03	4873	tags=52%, list=19%, signal=65%
V$E2F_Q3	180	0.49227697	1.7845522	0	4.36E-04	0.031	5460	tags=36%, list=22%, signal=45%
V$MTF1_Q4	209	0.4849305	1.7830092	0	4.46E-04	0.032	5540	tags=38%, list=22%, signal=48%
V$SMAD4_Q6	199	0.48466215	1.7825142	0	4.42E-04	0.032	3969	tags=29%, list=16%, signal=34%
KMCATNNWGGA_UNKNOWN	68	0.55927724	1.7786367	0	4.52E-04	0.033	5784	tags=47%, list=23%, signal=61%
V$AHR_01	57	0.58217496	1.7779492	0	4.48E-04	0.033	3198	tags=40%, list=13%, signal=46%
RRCCGTTA_UNKNOWN	59	0.5672407	1.7770438	0.00176991	4.44E-04	0.033	4439	tags=49%, list=18%, signal=60%
V$E2F4DP1_01	193	0.48719215	1.7764523	0	4.41E-04	0.033	5736	tags=38%, list=23%, signal=49%
V$CEBP_Q2	187	0.49056235	1.7756578	0	4.51E-04	0.034	4717	tags=38%, list=19%, signal=46%
V$FOXD3_01	166	0.49615172	1.7739618	0	4.47E-04	0.034	3668	tags=31%, list=15%, signal=36%
GGCNNMSMYNTTG_UNKNOWN	60	0.569311	1.7737031	0	4.43E-04	0.034	5402	tags=55%, list=21%, signal=70%
V$E2F_03	195	0.48502985	1.7728393	0	4.40E-04	0.034	4171	tags=32%, list=17%, signal=38%
V$MAF_Q6	216	0.47429398	1.7663769	0	4.88E-04	0.038	4717	tags=35%, list=19%, signal=43%
V$PR_02	114	0.5187959	1.7649052	0	4.84E-04	0.038	5905	tags=40%, list=23%, signal=52%
V$NFKAPPAB65_01	198	0.48261833	1.7632613	0	4.80E-04	0.038	4706	tags=37%, list=19%, signal=45%
V$USF_01	204	0.47941974	1.7618386	0	4.89E-04	0.039	5522	tags=46%, list=22%, signal=58%
CCAWNWWNNNGGC_UNKNOWN	67	0.5561968	1.7600634	0	4.98E-04	0.04	5313	tags=54%, list=21%, signal=68%
V$ARNT_01	216	0.47391608	1.7581768	0	5.06E-04	0.041	4862	tags=39%, list=19%, signal=48%
V$E2F1_Q3	195	0.48254213	1.7542819	0	5.14E-04	0.041	5755	tags=39%, list=23%, signal=50%
V$NFKB_C	227	0.47257423	1.7527992	0	5.10E-04	0.041	4466	tags=34%, list=18%, signal=41%
V$EGR_Q6	221	0.47652683	1.7526565	0	5.06E-04	0.041	4213	tags=31%, list=17%, signal=37%
V$AP4_01	201	0.4776621	1.7521291	0	5.02E-04	0.041	5567	tags=29%, list=22%, signal=37%
V$CEBPA_01	198	0.47670606	1.7483151	0	4.99E-04	0.041	4333	tags=32%, list=17%, signal=39%
TGCGCANK_UNKNOWN	410	0.45185563	1.7463706	0	4.95E-04	0.041	5885	tags=42%, list=23%, signal=54%

V$CETS1P54_01	198	0.4755724	1.7451237	0	5.03E-04	0.042	5219	tags=44%, list=21%, signal=55%
V$OCT1_05	207	0.4765539	1.7450839	0	4.99E-04	0.042	4732	tags=29%, list=19%, signal=35%
SGCGSSAAA_V$E2F1DP2_01	135	0.5002014	1.7422408	0	5.07E-04	0.043	6002	tags=42%, list=24%, signal=55%
SMTTTTGT_UNKNOWN	335	0.450915	1.7420851	0	5.04E-04	0.043	3694	tags=28%, list=15%, signal=33%
V$CREL_01	216	0.47413778	1.7414826	0	5.11E-04	0.044	4788	tags=38%, list=19%, signal=46%
V$NFY_Q6_01	211	0.47765926	1.7406372	0	5.08E-04	0.044	4414	tags=35%, list=18%, signal=42%
V$TCF11MAFG_01	171	0.48608774	1.7400863	0	5.04E-04	0.044	4553	tags=33%, list=18%, signal=40%
V$AREB6_02	211	0.46659163	1.7378987	0	5.34E-04	0.047	4329	tags=28%, list=17%, signal=33%
WGTTNNNNNAAA_UNKNOWN	449	0.44225937	1.7321546	0	5.84E-04	0.052	5044	tags=33%, list=20%, signal=40%
V$CEBP_Q2_01	219	0.46616068	1.7316371	0	5.80E-04	0.052	4058	tags=31%, list=16%, signal=36%
ACAWNRNSRCGG_UNKNOWN	53	0.5651018	1.7299749	0	5.88E-04	0.053	5807	tags=64%, list=23%, signal=83%
V$SMAD_Q6	206	0.4714284	1.7298371	0	5.84E-04	0.053	5465	tags=35%, list=22%, signal=45%
CCTNTMAGA_UNKNOWN	101	0.50661385	1.7286557	0	6.11E-04	0.056	6232	tags=49%, list=25%, signal=64%
V$CEBP_Q3	204	0.46687302	1.7280988	0	6.18E-04	0.057	4931	tags=37%, list=20%, signal=45%
V$ZF5_01	189	0.4728711	1.7273991	0	6.14E-04	0.057	3672	tags=29%, list=15%, signal=33%
V$SREBP1_Q6	206	0.46697426	1.7273611	0	6.10E-04	0.057	4227	tags=32%, list=17%, signal=38%
V$ARNT_02	197	0.47261047	1.7262137	0	6.06E-04	0.057	4852	tags=39%, list=19%, signal=48%
V$PAX4_01	214	0.46513355	1.721596	0	6.33E-04	0.06	4720	tags=37%, list=19%, signal=45%
WCTCNATGGY_UNKNOWN	60	0.5480697	1.7198224	0	6.39E-04	0.061	4416	tags=48%, list=18%, signal=58%
V$NFAT_Q6	193	0.47256094	1.718066	0	6.56E-04	0.063	5402	tags=37%, list=21%, signal=46%
AAANWWTGC_UNKNOWN	168	0.47432628	1.7146043	0	6.72E-04	0.065	4063	tags=29%, list=16%, signal=34%
GCTNWTTGK_UNKNOWN	247	0.45930308	1.7141201	0	6.78E-04	0.066	5392	tags=36%, list=21%, signal=45%
V$MAX_01	209	0.46714696	1.7120004	0	6.84E-04	0.067	4669	tags=35%, list=19%, signal=43%
GTCNYYATGR_UNKNOWN	83	0.51856285	1.7116836	0	6.79E-04	0.067	5402	tags=45%, list=21%, signal=57%
V$E2F_Q6_01	190	0.46781695	1.7059667	0	7.55E-04	0.075	5736	tags=37%, list=23%, signal=47%
V$HSF1_01	212	0.46763918	1.7049329	0	7.51E-04	0.075	4895	tags=33%, list=19%, signal=41%
V$T3R_Q6	210	0.46040332	1.7031096	0	7.67E-04	0.076	4594	tags=30%, list=18%, signal=36%
V$AP2REP_01	144	0.4823102	1.703081	0	7.62E-04	0.076	3679	tags=31%, list=15%, signal=36%
V$STAT5A_04	160	0.4737202	1.7007922	0	7.86E-04	0.078	5496	tags=36%, list=22%, signal=45%
V$TEF_Q6	205	0.4597248	1.7006199	0	7.81E-04	0.078	3876	tags=28%, list=15%, signal=33%
TTCNRGNNNNTTC_V$HSF_Q6	119	0.49224594	1.7004067	0	7.77E-04	0.078	5171	tags=45%, list=21%, signal=56%
V$XBP1_01	112	0.49945384	1.6978456	0	8.01E-04	0.081	3485	tags=34%, list=14%, signal=39%
V$E2F1_Q3_01	201	0.46258405	1.6968845	0	7.96E-04	0.081	3833	tags=30%, list=15%, signal=36%
TAAWWATAG_V$RSRFC4_Q2	137	0.48079428	1.6966588	0	7.92E-04	0.081	4827	tags=33%, list=19%, signal=40%
V$PBX1_02	110	0.4953985	1.693778	0	8.43E-04	0.087	5131	tags=32%, list=20%, signal=40%
V$USF2_Q6	198	0.46394134	1.6923735	0	8.76E-04	0.091	4699	tags=37%, list=19%, signal=46%
V$AR_03	53	0.55583024	1.6917329	0	8.71E-04	0.091	4205	tags=36%, list=17%, signal=43%
V$TST1_01	215	0.4616795	1.6909156	0	8.66E-04	0.091	4113	tags=29%, list=16%, signal=34%
V$TEF1_Q6	177	0.46887946	1.6897116	0.00160772	8.80E-04	0.093	3668	tags=27%, list=15%, signal=31%
V$MYC_Q2	147	0.48042545	1.6883767	0	8.94E-04	0.094	5124	tags=42%, list=20%, signal=53%
V$AREB6_01	217	0.4544079	1.6840476	0	9.43E-04	0.099	4394	tags=29%, list=17%, signal=35%
V$GR_01	164	0.4659245	1.6838434	0	9.56E-04	0.101	5562	tags=39%, list=22%, signal=50%
V$FREAC7_01	158	0.4757018	1.6835059	0	9.50E-04	0.101	5465	tags=38%, list=22%, signal=48%
V$NGFIC_01	195	0.46007645	1.6774192	0	0.00106029	0.113	4090	tags=31%, list=16%, signal=36%
CTAWWWATA_V$RSRFC4_Q2	303	0.44222742	1.6768737	0	0.00105443	0.113	4685	tags=25%, list=19%, signal=30%
V$TCF1P_Q6	194	0.45648012	1.6760206	0	0.00107475	0.116	5740	tags=41%, list=23%, signal=52%
V$RSRFC4_Q2	184	0.46206728	1.6754515	0	0.00106888	0.116	5290	tags=29%, list=21%, signal=36%
V$IK1_01	215	0.45386162	1.6751808	0	0.0010721	0.117	4240	tags=31%, list=17%, signal=37%
V$ZF5_B	197	0.4584609	1.6677737	0	0.00114517	0.124	4436	tags=26%, list=18%, signal=32%
V$SRY_02	201	0.45702133	1.6675481	0	0.00114779	0.125	3671	tags=25%, list=15%, signal=29%
V$STAT3_02	119	0.48620528	1.6654506	0	0.00115769	0.127	2948	tags=26%, list=12%, signal=29%
V$PAX5_01	123	0.48005432	1.6650977	0	0.00117711	0.13	2590	tags=24%, list=10%, signal=27%
YYCATTCAWW_UNKNOWN	155	0.4706429	1.6627203	0	0.00122273	0.135	4235	tags=32%, list=17%, signal=38%
V$CACCCBINDINGFACTOR_Q6	220	0.4480023	1.6618226	0	0.0012413	0.138	3691	tags=27%, list=15%, signal=31%
V$ZIC2_01	203	0.45504257	1.6614687	0	0.0012348	0.138	3671	tags=26%, list=15%, signal=30%
V$PR_01	118	0.4811773	1.6612622	0	0.00122837	0.138	5682	tags=33%, list=23%, signal=42%
V$PR_Q2	212	0.4527958	1.6608106	0	0.00122947	0.139	3900	tags=29%, list=16%, signal=34%
V$CMYB_01	191	0.45374638	1.6599582	0	0.00125652	0.141	5402	tags=41%, list=21%, signal=52%
V$SPZ1_01	199	0.45549163	1.6592832	0	0.00125788	0.142	4448	tags=30%, list=18%, signal=36%
V$USF_C	229	0.4450091	1.6585641	0	0.00125147	0.142	4699	tags=35%, list=19%, signal=43%
V$HFH4_01	167	0.46231526	1.657958	0	0.00127856	0.146	4816	tags=28%, list=19%, signal=35%
V$SREBP1_02	75	0.5076376	1.6570964	0	0.00128011	0.147	3282	tags=27%, list=13%, signal=31%
V$ETF_Q6	85	0.49651808	1.6559469	0	0.00128137	0.148	5905	tags=48%, list=23%, signal=63%
V$POU3F2_01	85	0.5058726	1.6556565	0	0.00127496	0.148	3365	tags=25%, list=13%, signal=28%
V$AHRARNT_01	115	0.4825995	1.6552697	0	0.00126862	0.148	4895	tags=36%, list=19%, signal=44%
V$FOXO1_02	192	0.45697334	1.652134	0	0.00128663	0.151	4717	tags=33%, list=19%, signal=40%
V$SP1_Q4_01	198	0.44959164	1.6519011	0	0.00128826	0.152	5200	tags=36%, list=21%, signal=45%
V$SP1_Q6	195	0.4531975	1.6507376	0	0.00131237	0.156	4642	tags=35%, list=18%, signal=42%
V$USF_02	216	0.45026472	1.6494268	0	0.00132132	0.157	4428	tags=36%, list=18%, signal=43%
V$OCT1_01	213	0.44284758	1.647346	0	0.00135318	0.162	4674	tags=28%, list=19%, signal=34%
V$LEF1_Q6	219	0.44470325	1.6461449	0	0.0013696	0.165	2767	tags=20%, list=11%, signal=22%
V$CACBINDINGPROTEIN_Q6	196	0.45132855	1.645847	0	0.00137799	0.166	3671	tags=30%, list=15%, signal=35%
GGAMTNNNNNTCCY_UNKNOWN	90	0.49433017	1.6453785	0.00178253	0.00139426	0.168	4722	tags=44%, list=19%, signal=55%
V$MYCMAX_03	206	0.44768456	1.64257	0	0.00145567	0.173	4789	tags=37%, list=19%, signal=46%
V$AREB6_03	194	0.45145378	1.6386571	0	0.00153308	0.183	3883	tags=24%, list=15%, signal=28%
V$DR4_Q2	205	0.44454336	1.6370566	0	0.00154118	0.185	4407	tags=32%, list=18%, signal=38%
ATGGYGGA_UNKNOWN	77	0.5031793	1.6368246	0	0.00153394	0.185	5824	tags=55%, list=23%, signal=71%
WTGAAAT_UNKNOWN	492	0.41197217	1.63277	0	0.00163126	0.197	5118	tags=30%, list=20%, signal=38%
V$STAT6_01	206	0.4447451	1.6301475	0.00160772	0.00166905	0.201	3094	tags=26%, list=12%, signal=30%
V$ETS1_B	203	0.44236588	1.6259817	0	0.00177907	0.215	3040	tags=27%, list=12%, signal=30%
V$IRF7_01	211	0.4384015	1.6256049	0	0.00177806	0.216	3191	tags=22%, list=13%, signal=25%
V$AP4_Q5	215	0.44249934	1.6248983	0	0.00180714	0.218	4451	tags=27%, list=18%, signal=32%
V$CEBPGAMMA_Q6	209	0.4439958	1.6235765	0	0.00184403	0.223	5722	tags=41%, list=23%, signal=52%
V$FREAC2_01	214	0.4376504	1.6213793	0	0.0018945	0.23	5257	tags=31%, list=21%, signal=39%
V$VDR_Q3	186	0.4447468	1.6205156	0	0.00190742	0.233	5456	tags=34%, list=22%, signal=44%
V$MYCMAX_02	216	0.43883517	1.6199827	0	0.00192088	0.236	4601	tags=34%, list=18%, signal=41%
ACTAYRNNNCCCR_UNKNOWN	324	0.4197102	1.6170073	0	0.00194877	0.241	6121	tags=44%, list=24%, signal=57%
GAANYNYGACNY_UNKNOWN	59	0.52644324	1.6169757	0.00361011	0.00194007	0.241	4185	tags=41%, list=17%, signal=49%
V$SP3_Q3	193	0.4415886	1.6155157	0	0.00198037	0.245	5123	tags=32%, list=20%, signal=40%
V$GNCF_01	61	0.5189088	1.6146237	0.00167785	0.00200692	0.249	2900	tags=23%, list=12%, signal=26%
V$TITF1_Q3	191	0.4436619	1.6143755	0	0.00199808	0.249	4853	tags=34%, list=19%, signal=42%
V$POU3F2_02	211	0.43577394	1.6118054	0	0.00208783	0.259	4533	tags=28%, list=18%, signal=34%
V$ZID_01	182	0.44689396	1.6113809	0	0.00211438	0.264	3812	tags=29%, list=15%, signal=33%
V$MEIS1BHOXA9_01	115	0.4622922	1.603997	0	0.0023	0.29	3723	tags=24%, list=15%, signal=28%
GGCNRNWCTTYS_UNKNOWN	62	0.523537	1.6038619	0.00358423	0.00229005	0.29	5589	tags=53%, list=22%, signal=68%
V$TFIIA_Q6	214	0.43666732	1.6028023	0	0.00232802	0.294	4714	tags=33%, list=19%, signal=40%
V$MYCMAX_01	211	0.43613017	1.599262	0	0.00247381	0.311	4687	tags=35%, list=19%, signal=42%
V$RSRFC4_01	210	0.43165374	1.5956722	0	0.00259303	0.326	3282	tags=18%, list=13%, signal=20%
V$IPF1_Q4	203	0.43455395	1.5947862	0	0.00262224	0.329	4050	tags=29%, list=16%, signal=34%
V$MZF1_02	192	0.43589994	1.593626	0	0.00263744	0.333	5306	tags=39%, list=21%, signal=49%
V$CP2_01	209	0.43249202	1.5912454	0	0.00270722	0.339	4694	tags=33%, list=19%, signal=41%
CCCNNNNNNAAGWT_UNKNOWN	79	0.49543133	1.5906682	0.00168067	0.00270963	0.341	6289	tags=48%, list=25%, signal=64%
V$NFE2_01	223	0.4321125	1.5897207	0	0.0026983	0.341	3207	tags=26%, list=13%, signal=30%
V$GCM_02	191	0.43605715	1.5892298	0	0.00270686	0.343	4765	tags=30%, list=19%, signal=37%
V$STAT1_03	198	0.4327644	1.587327	0.00162075	0.00276871	0.351	4205	tags=29%, list=17%, signal=35%
TCANNTGAY_V$SREBP1_01	378	0.4086896	1.5870233	0	0.00277083	0.352	4762	tags=35%, list=19%, signal=43%
V$EGR1_01	198	0.43723038	1.5865226	0	0.00277273	0.354	4230	tags=30%, list=17%, signal=36%
V$AHR_Q5	168	0.43573183	1.5860454	0	0.00276799	0.354	6114	tags=46%, list=24%, signal=60%
V$HOX13_01	33	0.57651097	1.5855402	0.0093633	0.00278939	0.358	3694	tags=36%, list=15%, signal=43%
SNACANNNYSYAGA_UNKNOWN	58	0.5132772	1.5835614	0.00683761	0.00285555	0.365	4658	tags=40%, list=19%, signal=49%
V$TATA_C	246	0.42031404	1.5811874	0	0.0029424	0.372	4717	tags=29%, list=19%, signal=36%
V$CEBPB_01	210	0.43003228	1.5807409	0	0.00295018	0.375	4084	tags=30%, list=16%, signal=35%
V$E47_02	200	0.42776152	1.5802679	0.00151057	0.00295068	0.376	4636	tags=28%, list=18%, signal=33%
YKACATTT_UNKNOWN	229	0.42357248	1.5801932	0	0.00293887	0.376	5168	tags=34%, list=21%, signal=42%
V$DR3_Q4	108	0.46337062	1.579581	0.00175439	0.00295893	0.38	5824	tags=43%, list=23%, signal=55%
V$OSF2_Q6	209	0.426787	1.579133	0	0.00297942	0.384	4063	tags=28%, list=16%, signal=33%
ARGGGTTAA_UNKNOWN	105	0.4652893	1.5784341	0.00170358	0.00301257	0.389	3179	tags=23%, list=13%, signal=26%
GGARNTKYCCA_UNKNOWN	69	0.49530548	1.578383	0.0052356	0.00300071	0.389	4852	tags=35%, list=19%, signal=43%
V$STAT5A_03	207	0.42976132	1.5778952	0	0.00300757	0.391	2949	tags=24%, list=12%, signal=27%
V$RREB1_01	172	0.43620154	1.5774931	0	0.0030083	0.393	4017	tags=29%, list=16%, signal=34%
V$SP1_Q2_01	198	0.4312278	1.5772431	0	0.00302125	0.395	5169	tags=32%, list=21%, signal=40%
RYTGCNWTGGNR_UNKNOWN	88	0.47603565	1.5765705	0.00177936	0.00304007	0.399	4674	tags=34%, list=19%, signal=42%
V$HFH8_01	173	0.4338613	1.576343	0	0.00303442	0.399	5169	tags=33%, list=21%, signal=41%
V$LXR_DR4_Q3	73	0.48682427	1.5751177	0	0.00305952	0.402	4335	tags=32%, list=17%, signal=38%
YAATNRNNNYNATT_UNKNOWN	87	0.47782007	1.5737435	0.00181488	0.00313358	0.409	4415	tags=24%, list=18%, signal=29%
YATGNWAAT_V$OCT_C	302	0.41129777	1.5733119	0	0.00313368	0.41	4732	tags=28%, list=19%, signal=34%
V$AFP1_Q6	209	0.4270213	1.5713364	0.00165017	0.00318787	0.418	3094	tags=22%, list=12%, signal=25%
V$LFA1_Q6	199	0.4249839	1.5711477	0	0.00317579	0.418	5456	tags=32%, list=22%, signal=40%
V$NFY_01	197	0.42980382	1.5710125	0	0.00316381	0.418	4084	tags=29%, list=16%, signal=35%
V$GRE_C	104	0.4645689	1.5706583	0.00344828	0.00315192	0.418	5530	tags=32%, list=22%, signal=41%
V$OCT_Q6	217	0.421846	1.5699307	0	0.00317051	0.419	4674	tags=26%, list=19%, signal=32%
KTGGYRSGAA_UNKNOWN	59	0.5025949	1.5682739	0.00878735	0.00324291	0.425	4247	tags=34%, list=17%, signal=41%
V$FAC1_01	168	0.43504417	1.5681647	0.00158983	0.00323085	0.425	4763	tags=31%, list=19%, signal=38%
V$ER_Q6	220	0.4250748	1.5675308	0	0.00324885	0.428	4636	tags=32%, list=18%, signal=39%
V$ZIC3_01	213	0.42348886	1.5671821	0	0.00324836	0.429	3779	tags=26%, list=15%, signal=30%
CATTGTYY_V$SOX9_B1	294	0.41382042	1.5661185	0	0.00327245	0.433	6318	tags=40%, list=25%, signal=53%
V$SREBP1_01	138	0.44991064	1.5644822	0.00158983	0.00332385	0.439	5466	tags=43%, list=22%, signal=54%
V$EFC_Q6	216	0.4201219	1.5640666	0	0.00333486	0.442	5112	tags=35%, list=20%, signal=44%
V$PTF1BETA_Q6	192	0.42604738	1.561282	0	0.00342266	0.453	5188	tags=35%, list=21%, signal=44%
GCGSCMNTTT_UNKNOWN	55	0.5060529	1.5610253	0.01615799	0.00342217	0.454	5438	tags=47%, list=22%, signal=60%
V$GFI1_01	213	0.42217478	1.5604146	0	0.00344453	0.456	3365	tags=23%, list=13%, signal=27%
V$IK3_01	179	0.43099022	1.5601928	0	0.00343214	0.456	3770	tags=30%, list=15%, signal=35%
AAAYWAACM_V$HFH4_01	208	0.42621693	1.5596348	0	0.0034485	0.458	4565	tags=28%, list=18%, signal=34%
V$AP2ALPHA_01	196	0.42650017	1.5579069	0	0.00353927	0.468	4213	tags=31%, list=17%, signal=36%
V$NFAT_Q4_01	212	0.42255107	1.5572158	0	0.00354988	0.472	4039	tags=29%, list=16%, signal=34%
MCAATNNNNNGCG_UNKNOWN	68	0.48709482	1.55447	0.00359066	0.00365044	0.48	5366	tags=47%, list=21%, signal=60%
WTTGKCTG_UNKNOWN	413	0.39665255	1.5531695	0	0.00368805	0.485	5915	tags=36%, list=24%, signal=46%
V$TTF1_Q6	211	0.42485616	1.5504241	0	0.00383161	0.5	3778	tags=25%, list=15%, signal=29%
V$OCT1_Q6	208	0.41898233	1.5502347	0	0.00383515	0.502	4584	tags=27%, list=18%, signal=33%
V$NRF1_Q6	177	0.4291653	1.550124	0.0015456	0.00382721	0.502	5787	tags=46%, list=23%, signal=60%
SYATTGTG_UNKNOWN	181	0.42519927	1.5498252	0	0.00383061	0.503	4476	tags=28%, list=18%, signal=33%
AACYNNNNTTCCS_UNKNOWN	72	0.48270428	1.5489408	0.01196581	0.00386085	0.507	5984	tags=50%, list=24%, signal=65%

V$NKX62_Q2	199	0.42294714	1.5485935	0.00159744	0.00386437	0.509	4894	tags=33%, list=19%, signal=41%
V$EGR3_01	61	0.49937695	1.5476586	0.00719425	0.00390614	0.516	4230	tags=36%, list=17%, signal=43%
V$P300_01	192	0.42549005	1.5470924	0	0.00392604	0.518	5963	tags=40%, list=24%, signal=51%
GTGGGTGK_UNKNOWN	235	0.41550505	1.5454593	0	0.00401152	0.528	3771	tags=22%, list=15%, signal=26%
V$STAT5A_02	115	0.45556486	1.5442215	0.00327869	0.00404129	0.534	3950	tags=30%, list=16%, signal=36%
V$PAX2_02	205	0.4192184	1.543143	0	0.00407626	0.542	4789	tags=29%, list=19%, signal=35%
V$SOX5_01	212	0.4192117	1.542531	0	0.0040903	0.545	2407	tags=17%, list=10%, signal=19%
YTAAYNGCT_UNKNOWN	122	0.4443257	1.5405115	0	0.00416889	0.554	3797	tags=25%, list=15%, signal=30%
V$OCT_C	219	0.4145554	1.5357249	0.0015748	0.00443313	0.573	4533	tags=26%, list=18%, signal=32%
V$OCT1_03	183	0.42132202	1.5353551	0.0015949	0.00442879	0.574	5116	tags=32%, list=20%, signal=39%
V$MYOGENIN_Q6	195	0.4236658	1.534865	0.00160772	0.00445665	0.576	3967	tags=27%, list=16%, signal=31%
V$ER_Q6_02	215	0.4127034	1.5304861	0	0.00464879	0.596	4335	tags=30%, list=17%, signal=36%
TGANNYRGCA_V$TCF11MAFG_01	243	0.40982375	1.5297115	0	0.00468645	0.6	3526	tags=25%, list=14%, signal=29%
V$FOXO1_01	204	0.4180894	1.527244	0	0.00480921	0.613	5367	tags=34%, list=21%, signal=43%
V$CP2_02	192	0.41566935	1.5250849	0	0.00493744	0.622	2516	tags=21%, list=10%, signal=23%
V$STAT_01	214	0.41071132	1.5248692	0	0.0049472	0.622	5532	tags=39%, list=22%, signal=50%
V$P53_02	210	0.41322288	1.5233305	0	0.00505224	0.631	4885	tags=30%, list=19%, signal=36%
V$AP2_Q6_01	201	0.4143872	1.5219736	0	0.00511947	0.64	5306	tags=36%, list=21%, signal=46%
V$CART1_01	180	0.4205784	1.5190113	0.00160256	0.00532855	0.657	3023	tags=20%, list=12%, signal=23%
V$MZF1_01	194	0.4173623	1.518656	0	0.0053476	0.661	5529	tags=36%, list=22%, signal=45%
V$SF1_Q6	204	0.4127792	1.5185127	0	0.00535069	0.663	4736	tags=30%, list=19%, signal=37%
V$IRF1_01	202	0.41229278	1.5169601	0	0.0054428	0.667	3835	tags=26%, list=15%, signal=31%
V$MEF2_03	199	0.41216448	1.5167708	0	0.0054253	0.667	6045	tags=34%, list=24%, signal=44%
V$CEBPDELTA_Q6	192	0.4177657	1.5162691	0	0.0054388	0.669	4962	tags=33%, list=20%, signal=41%
V$PXR_Q2	212	0.41157782	1.5157633	0	0.00545257	0.671	5464	tags=37%, list=22%, signal=47%
V$TBP_01	203	0.4129004	1.5153368	0	0.00547092	0.673	3881	tags=22%, list=15%, signal=26%
V$HMX1_01	36	0.53212595	1.5149045	0.02692308	0.0054897	0.676	4708	tags=33%, list=19%, signal=41%
V$AP2_Q3	203	0.4139933	1.5147842	0.00160256	0.00547733	0.676	4414	tags=30%, list=18%, signal=36%
TGCTGAY_UNKNOWN	441	0.38410035	1.5141935	0	0.00550074	0.681	4727	tags=29%, list=19%, signal=36%
V$SP1_Q6_01	179	0.41798806	1.5112747	0	0.00566912	0.687	5074	tags=37%, list=20%, signal=47%
V$TCF11_01	189	0.41647455	1.509832	0	0.00575686	0.697	4333	tags=28%, list=17%, signal=34%
CCCNNGGGAR_V$OLF1_01	263	0.4000943	1.5043987	0	0.00614598	0.711	4099	tags=27%, list=16%, signal=32%
V$TEL2_Q6	171	0.4142381	1.5042753	0	0.00614178	0.712	4854	tags=35%, list=19%, signal=43%
V$GATA1_05	227	0.4060646	1.5042449	0.00154083	0.00612271	0.712	5169	tags=33%, list=21%, signal=41%
V$ALPHACP1_01	209	0.4088173	1.503605	0.00165289	0.00614901	0.712	5533	tags=36%, list=22%, signal=46%
V$OLF1_01	221	0.4094436	1.4998218	0.00158228	0.00642705	0.727	4058	tags=24%, list=16%, signal=28%
V$NF1_Q6_01	215	0.40424126	1.4981571	0	0.0065659	0.741	4186	tags=29%, list=17%, signal=34%
V$CIZ_01	190	0.40862522	1.4968895	0.00472441	0.0066972	0.752	5547	tags=35%, list=22%, signal=45%
V$MEIS1_01	189	0.41186494	1.4966098	0.00163399	0.00668668	0.752	4646	tags=29%, list=18%, signal=35%
ACTWSNACTNY_UNKNOWN	66	0.46776146	1.4952933	0.01054482	0.00676449	0.757	5798	tags=41%, list=23%, signal=53%
V$IK2_01	217	0.4042674	1.4928585	0	0.00698591	0.769	4205	tags=26%, list=17%, signal=31%
V$HP1SITEFACTOR_Q6	194	0.4099446	1.4928447	0	0.00696474	0.769	4732	tags=29%, list=19%, signal=36%
V$NMYC_01	217	0.40212667	1.4926401	0	0.00696311	0.771	4538	tags=32%, list=18%, signal=39%
TAAYNRNNTCC_UNKNOWN	140	0.42604497	1.489513	0.00165837	0.0072595	0.783	5285	tags=31%, list=21%, signal=39%
V$NFKB_Q6_01	187	0.41007212	1.4879276	0.00159236	0.0073626	0.786	4852	tags=34%, list=19%, signal=41%
V$STAT1_01	55	0.49430287	1.48685	0.02210884	0.00748528	0.791	5044	tags=42%, list=20%, signal=52%
V$HOXA4_Q2	218	0.40074226	1.4862827	0	0.00750626	0.792	5924	tags=35%, list=24%, signal=46%
TAANNYSGCG_UNKNOWN	63	0.47444242	1.4846295	0.01413428	0.00762194	0.797	4661	tags=44%, list=19%, signal=54%
WWTAAGGC_UNKNOWN	121	0.43177068	1.4825671	0.00340716	0.00779462	0.805	3646	tags=26%, list=14%, signal=31%
V$RP58_01	186	0.40766916	1.4820172	0	0.00783339	0.805	4355	tags=26%, list=17%, signal=32%
YGCANTGCR_UNKNOWN	103	0.43935657	1.4815328	0.00661157	0.00787136	0.807	4931	tags=34%, list=20%, signal=42%
V$PPARA_02	105	0.44244656	1.4799403	0.00692042	0.00798887	0.811	2915	tags=24%, list=12%, signal=27%
V$FOXO4_01	199	0.40708116	1.479637	0	0.00798884	0.813	4973	tags=31%, list=20%, signal=38%
TGGNNNNNNKCCAR_UNKNOWN	332	0.38441548	1.4769592	0	0.00827881	0.824	4090	tags=24%, list=16%, signal=29%
V$HFH1_01	198	0.40393284	1.4752611	0.00156006	0.00844701	0.828	4962	tags=27%, list=20%, signal=34%
V$TGIF_01	187	0.40586546	1.4738735	0	0.00858542	0.831	4713	tags=27%, list=19%, signal=33%
V$P53_DECAMER_Q2	215	0.39885747	1.4718924	0.0016	0.0087732	0.84	5467	tags=33%, list=22%, signal=42%
YTTCCNNNGGAMR_UNKNOWN	37	0.5078941	1.4686892	0.03799655	0.00907459	0.851	4416	tags=35%, list=18%, signal=43%
V$LXR_Q3	61	0.46850148	1.4680699	0.01576182	0.00913152	0.856	4309	tags=38%, list=17%, signal=45%
V$SMAD3_Q6	193	0.40564933	1.4673324	0.00652529	0.00921062	0.859	5611	tags=34%, list=22%, signal=44%
V$FOXO3_01	192	0.4026776	1.4653882	0.00465839	0.00934544	0.865	4333	tags=29%, list=17%, signal=35%
V$BRN2_01	200	0.40109733	1.4652284	0.00462963	0.00933253	0.866	4710	tags=31%, list=19%, signal=37%
V$FREAC4_01	120	0.42690524	1.460494	0.01192504	0.00977306	0.877	4050	tags=23%, list=16%, signal=28%
V$PIT1_Q6	196	0.40292558	1.45921	0.00819672	0.00992551	0.884	4821	tags=30%, list=19%, signal=36%
V$CEBP_01	218	0.3955636	1.4586787	0.0015949	0.0096542	0.886	4732	tags=28%, list=19%, signal=35%
V$TAL1BETAITF2_01	205	0.4001791	1.457464	0	0.01009549	0.889	3048	tags=22%, list=12%, signal=25%
V$EVI1_06	20	0.5806355	1.4573501	0.04117647	0.01007562	0.889	3162	tags=30%, list=13%, signal=34%
CCAWYNNGAAR_UNKNOWN	112	0.42458522	1.4560109	0.01369863	0.01018664	0.891	5540	tags=34%, list=22%, signal=43%
V$RFX1_02	202	0.3965724	1.453481	0.00463679	0.01043861	0.898	6099	tags=38%, list=24%, signal=49%
GTTRYCATRR_UNKNOWN	129	0.41430914	1.4487114	0.0066778	0.01106714	0.908	5136	tags=35%, list=20%, signal=44%
V$GR_Q6_01	211	0.39253774	1.446775	0.00474684	0.01129537	0.911	5900	tags=33%, list=23%, signal=42%
V$SOX9_B1	195	0.3993897	1.4465898	0.00470958	0.01127299	0.911	6318	tags=41%, list=25%, signal=54%
V$MYOD_01	205	0.39058092	1.444209	0.00634921	0.01151988	0.919	5722	tags=32%, list=23%, signal=41%
V$HAND1E47_01	221	0.39366078	1.4433123	0.00314465	0.01161127	0.92	4347	tags=27%, list=17%, signal=32%
AAAYRNCTG_UNKNOWN	316	0.37449753	1.4419156	0	0.01184796	0.922	5067	tags=33%, list=20%, signal=41%
V$NFY_Q6	205	0.3911145	1.4400618	0.00310559	0.01198546	0.928	3860	tags=26%, list=15%, signal=31%
V$AR_01	112	0.4252936	1.4397427	0.0066335	0.01200109	0.929	5819	tags=43%, list=23%, signal=56%
V$AP2GAMMA_01	201	0.3974956	1.4390986	0.00156986	0.01204296	0.932	4213	tags=30%, list=17%, signal=36%
V$TATA_01	225	0.39060307	1.4388157	0.00311042	0.01205387	0.932	4685	tags=26%, list=19%, signal=31%
V$E47_01	207	0.390714	1.4369321	0.00312012	0.012355	0.939	4205	tags=26%, list=17%, signal=30%
V$OCT1_07	127	0.41229102	1.4354383	0.00998336	0.01258051	0.942	4533	tags=28%, list=18%, signal=34%
V$GR_Q6	221	0.38756925	1.4334089	0	0.01281492	0.947	4462	tags=23%, list=18%, signal=27%
V$PPARG_01	34	0.50257266	1.4302602	0.04428044	0.01333404	0.954	4085	tags=50%, list=16%, signal=60%
V$STAT5A_01	205	0.38781828	1.4264894	0.00486224	0.01385354	0.96	4863	tags=31%, list=19%, signal=38%
V$E2F_Q2	130	0.40648556	1.423831	0.00827815	0.01424795	0.963	4980	tags=30%, list=20%, signal=37%
V$AML1_Q6	198	0.38595024	1.4194788	0	0.01495688	0.967	3785	tags=27%, list=15%, signal=31%
V$AML_Q6	210	0.3858928	1.4161267	0.00162338	0.01551469	0.971	3876	tags=23%, list=15%, signal=27%
V$AP3_Q6	210	0.38578758	1.4154922	0.0016129	0.0155755	0.972	4458	tags=26%, list=18%, signal=32%
V$STAT5B_01	205	0.38838905	1.4149129	0.0048	0.01564007	0.973	4872	tags=30%, list=19%, signal=37%
V$FOXO4_02	209	0.38338763	1.414468	0.0048	0.0156745	0.973	4717	tags=27%, list=19%, signal=33%
V$AR_Q2	100	0.42371798	1.4130254	0.02054795	0.01589677	0.975	4014	tags=26%, list=16%, signal=31%
V$OCT1_Q5_01	221	0.38276157	1.4122726	0.00646204	0.01602938	0.977	4674	tags=24%, list=19%, signal=30%
V$GATA4_Q3	197	0.389669	1.4104489	0.00961539	0.01633475	0.981	5807	tags=35%, list=23%, signal=45%
V$AREB6_04	211	0.38029078	1.4093539	0.00628931	0.01649806	0.983	4344	tags=26%, list=17%, signal=31%
V$AML1_01	198	0.38595024	1.4044325	0.00321027	0.01734834	0.988	3785	tags=27%, list=15%, signal=31%
V$GATA1_01	196	0.38157842	1.4031935	0.00165017	0.01754049	0.988	5905	tags=37%, list=23%, signal=48%
V$OCT1_B	223	0.37837377	1.4022907	0.00783699	0.01766032	0.989	4755	tags=26%, list=19%, signal=32%
RAAGNYNNCTTY_UNKNOWN	118	0.40523112	1.398706	0.01845638	0.01839511	0.992	2251	tags=19%, list=9%, signal=20%
V$HFH3_01	163	0.39106995	1.394893	0.00796178	0.01917338	0.992	6250	tags=37%, list=25%, signal=49%
V$ELK1_01	198	0.37804627	1.3932247	0.00324149	0.01948391	0.992	4842	tags=38%, list=19%, signal=47%
YCATTAA_UNKNOWN	456	0.35588583	1.3915104	0	0.01982982	0.992	4789	tags=28%, list=19%, signal=34%
V$FOX_Q2	176	0.3821689	1.3875383	0.01149425	0.02066875	0.993	4816	tags=30%, list=19%, signal=36%
V$HNF3ALPHA_Q6	170	0.3858802	1.3875377	0.00465839	0.02061589	0.993	4853	tags=34%, list=19%, signal=42%
GGCKCATGS_UNKNOWN	47	0.4673765	1.3857762	0.05244123	0.02096426	0.995	5284	tags=38%, list=21%, signal=48%
GCCNNNWTAAR_UNKNOWN	121	0.40049118	1.3820851	0.01650165	0.02184796	0.996	4652	tags=33%, list=18%, signal=40%
V$DBP_Q6	210	0.37633705	1.3814049	0.00934579	0.02195456	0.996	5985	tags=41%, list=24%, signal=53%
V$ZIC1_01	216	0.3757325	1.3807173	0.00762195	0.02205734	0.996	4990	tags=31%, list=20%, signal=38%
V$STAT4_01	211	0.37228715	1.3794044	0.00766871	0.0222414	0.996	4548	tags=29%, list=18%, signal=36%
V$TAL1BETAE47_01	205	0.37860432	1.3789176	0.00161031	0.02235907	0.996	3883	tags=23%, list=15%, signal=27%
V$RFX1_01	195	0.37875122	1.378512	0.00479233	0.0224303	0.996	6167	tags=40%, list=25%, signal=53%
V$USF_Q6	200	0.37693673	1.3774446	0.01060606	0.02263715	0.996	5506	tags=39%, list=22%, signal=49%
V$IRF2_01	108	0.40592328	1.3769674	0.02058319	0.02273254	0.996	4064	tags=28%, list=16%, signal=33%
V$E2A_Q2	193	0.37630996	1.375913	0.00668896	0.02292969	0.996	2371	tags=16%, list=9%, signal=18%
RRAGTTGT_UNKNOWN	195	0.37871137	1.3751628	0.00966184	0.02308753	0.996	5962	tags=38%, list=24%, signal=49%
GATGKMRGCG_UNKNOWN	49	0.46074575	1.3742329	0.05882353	0.02331729	0.996	5536	tags=57%, list=22%, signal=73%
V$LMO2COM_01	203	0.37397653	1.3726106	0.01098901	0.02367467	0.997	3825	tags=21%, list=15%, signal=25%
MYAATNNNNNNNGGC_UNKNOWN	97	0.41090378	1.372207	0.03355705	0.02375892	0.997	6036	tags=38%, list=24%, signal=50%
V$NKX22_01	150	0.38545373	1.3718216	0.01976936	0.02380632	0.997	4615	tags=29%, list=18%, signal=36%
GGATTA_V$PITX2_Q2	482	0.34812474	1.3713964	0	0.02384462	0.997	4796	tags=26%, list=19%, signal=31%
V$TAL1ALPHAE47_01	205	0.3723802	1.3712174	0.00470219	0.0238292	0.997	4853	tags=28%, list=19%, signal=34%
V$SRY_01	158	0.38062665	1.3681207	0.01180438	0.02458998	0.999	5482	tags=32%, list=22%, signal=40%
TGTYNNNNNRGCARM_UNKNOWN	57	0.43995297	1.3650491	0.05799649	0.02540091	0.999	6292	tags=44%, list=25%, signal=58%
CATRRAGC_UNKNOWN	107	0.40383282	1.3623594	0.02955665	0.02615381	0.999	5056	tags=26%, list=20%, signal=33%
V$EVI1_04	196	0.37167352	1.3613428	0.01923077	0.02637657	0.999	5258	tags=31%, list=21%, signal=38%
V$OCT1_04	197	0.37385246	1.3578761	0.00783699	0.02733694	0.999	4381	tags=24%, list=17%, signal=29%
V$MIF1_01	134	0.39002198	1.357279	0.02159469	0.0274943	0.999	5628	tags=37%, list=22%, signal=48%
V$MEF2_Q6_01	207	0.36635897	1.3554707	0.00315956	0.02803039	0.999	6045	tags=33%, list=24%, signal=43%
V$PAX2_01	40	0.46933705	1.3551054	0.08687615	0.0280864	0.999	1492	tags=18%, list=6%, signal=19%
V$GATA1_03	204	0.37039256	1.3533247	0.01426308	0.02854382	0.999	5285	tags=25%, list=21%, signal=32%
YNGTTNNNATT_UNKNOWN	284	0.35429072	1.3510208	0.00632911	0.02915229	0.999	5007	tags=24%, list=20%, signal=29%
V$MYOD_Q6	201	0.3709575	1.3506559	0.0126183	0.02923149	0.999	4554	tags=22%, list=18%, signal=27%
V$CDC5_01	211	0.36258942	1.346414	0.01086957	0.0305049	0.999	2944	tags=19%, list=12%, signal=21%
YTAATTAA_V$LHX3_01	152	0.3772026	1.3449994	0.02356902	0.03085006	0.999	6279	tags=35%, list=25%, signal=46%
TTANWANTGGM_UNKNOWN	49	0.44411305	1.342943	0.06813996	0.0157314	1	3532	tags=22%, list=14%, signal=26%
V$PITX2_Q2	213	0.3636742	1.341711	0.00797448	0.03194277	1	4801	tags=26%, list=19%, signal=32%
V$FOXM1_01	204	0.36455765	1.3416554	0.01236476	0.03187135	1	4862	tags=30%, list=19%, signal=37%
V$POU1F1_Q6	195	0.36443824	1.3354274	0.02131148	0.03412945	1	4862	tags=26%, list=19%, signal=32%
YGTCCTTGR_UNKNOWN	80	0.40963748	1.3322705	0.05595668	0.03530352	1	4554	tags=33%, list=18%, signal=40%
V$HNF3B_01	179	0.36451632	1.3322268	0.01898734	0.03523219	1	2060	tags=16%, list=8%, signal=17%
V$PAX8_01	30	0.48568124	1.3317167	0.0934066	0.03540446	1	2367	tags=30%, list=9%, signal=33%
V$FOXJ2_02	193	0.36529306	1.3310599	0.02090032	0.03560564	1	3162	tags=18%, list=13%, signal=20%
V$ETS2_B	221	0.35987526	1.3309212	0.00931677	0.03557538	1	3316	tags=24%, list=13%, signal=27%
V$NF1_Q6	219	0.3590352	1.3304783	0.0097561	0.03563406	1	4139	tags=26%, list=16%, signal=31%
V$HEN1_01	159	0.37033224	1.3288462	0.01666667	0.03620907	1	5555	tags=33%, list=22%, signal=42%
GTTNYYNNGGTNA_UNKNOWN	62	0.43040186	1.3276166	0.07526882	0.03658577	1	4681	tags=35%, list=19%, signal=43%
V$MYOGNF1_01	42	0.45417246	1.3258758	0.08849558	0.03717954	1	3119	tags=21%, list=12%, signal=24%
V$ERR1_Q2	213	0.36120668	1.3233409	0.02941177	0.0382367	1	4717	tags=29%, list=19%, signal=36%
RACTNNRTTTNC_UNKNOWN	95	0.392312	1.3233364	0.05328597	0.038149	1	5242	tags=35%, list=21%, signal=44%
CRGAARNNNNCGA_UNKNOWN	36	0.4663538	1.3224503	0.07246377	0.03837549	1	5802	tags=50%, list=23%, signal=65%
V$FOXJ2_01	150	0.37757254	1.3206016	0.03529412	0.03907427	1	5474	tags=29%, list=22%, signal=37%
V$NKX25_01	102	0.3921236	1.3202219	0.03839733	0.03918165	1	4151	tags=23%, list=17%, signal=27%
V$VDR_Q6	206	0.35865206	1.3177899	0.01843318	0.04016845	1	5050	tags=32%, list=20%, signal=40%

V$AR_Q6	199	0.36071855	1.3158327	0.0275974	0.04093747	1	3589	tags=22%, list=14%, signal=25%
RYAAAKNNNNNNTTGW_UNKNOWN	73	0.4140661	1.312719	0.06642729	0.042243	1	4636	tags=25%, list=18%, signal=30%
V$FREAC3_01	201	0.35781586	1.3123251	0.02842809	0.04233563	1	4686	tags=29%, list=19%, signal=35%
V$AMEF2_Q6	214	0.35605097	1.3119632	0.01658375	0.04242189	1	5464	tags=29%, list=22%, signal=36%
YRCCAKNNGNCGC_UNKNOWN	56	0.4250664	1.3074657	0.08576642	0.04441057	1	6702	tags=52%, list=27%, signal=70%
TTCYNRGAA_V$STAT5B_01	268	0.3450896	1.3074465	0.0124805	0.044311	1	4872	tags=28%, list=19%, signal=34%
AGCYRWTTC_UNKNOWN	93	0.39165226	1.3072801	0.05244123	0.04428724	1	5434	tags=39%, list=22%, signal=49%
V$HNF4ALPHA_Q6	225	0.35547775	1.304016	0.014377	0.04580284	1	3956	tags=31%, list=16%, signal=36%
V$RORA1_01	206	0.35328615	1.3012671	0.02457757	0.04699724	1	4852	tags=29%, list=19%, signal=36%
V$MYB_Q5_01	206	0.35430756	1.3004733	0.03064516	0.04722836	1	3691	tags=23%, list=15%, signal=27%
V$NKX61_01	190	0.35291773	1.2985561	0.03410853	0.04810653	1	4394	tags=26%, list=17%, signal=32%
V$CDP_02	93	0.3905215	1.2975351	0.07363014	0.04847124	1	3955	tags=20%, list=16%, signal=24%
V$POU6F1_01	195	0.3576936	1.2973076	0.02601626	0.04845662	1	5685	tags=30%, list=23%, signal=38%
V$PAX_Q6	212	0.35127556	1.2967829	0.02917342	0.04862552	1	4962	tags=28%, list=20%, signal=34%
V$LBP1_Q6	172	0.36112624	1.2965438	0.03354633	0.04862787	1	4147	tags=24%, list=16%, signal=29%