

Table SV. GSEA results of c2-reference gene sets for groups with high CCR6 expression

GS follow link to MSigDB	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX
KONDO_PROSTATE_CANCER_WITH_H3K27ME3	144	0.604898	2.188276	<0.001	0.053971	0.031	4,235
WIKMAN_ASBESTOS_LUNG_CANCER_DN	27	0.74859	2.142653	<0.001	0.072363	0.068	1,478
JAATINEN_HEMATOPOIETIC_STEM_CELL_DN	215	0.669357	2.133229	<0.001	0.057198	0.08	5,111
REACTOME_GPCR_DOWNSTREAM_SIGNALING	456	0.520318	2.112483	<0.001	0.059811	0.107	6,265
SMID_BREAST_CANCER_NORMAL_LIKE_UP	453	0.732651	2.107671	<0.001	0.050704	0.109	3,333
SABATES_COLORECTAL_ADENOMA_DN	269	0.673657	2.105912	<0.001	0.043016	0.11	6,621
REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS	256	0.549415	2.074247	<0.001	0.059062	0.152	6,109
MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_DN	151	0.617047	2.052713	<0.001	0.073748	0.202	6,317
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN	52	0.720865	2.050248	<0.001	0.068617	0.206	3,842
BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_DN	43	0.775449	2.050082	<0.001	0.061968	0.206	2,386
FINAK_BREAST_CANCER_SDPP_SIGNATURE	24	0.766105	2.043034	<0.001	0.062654	0.215	3,192
REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	160	0.553208	2.042806	<0.001	0.057958	0.218	6,052
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_UP	51	0.687206	2.042041	<0.001	0.054075	0.219	2,868
RIGGI_EWING_SARCOMA_PROGENITOR_UP	405	0.496238	2.03943	<0.001	0.051931	0.224	7,583
REACTOME_GPCR_LIGAND_BINDING	349	0.515678	2.033686	<0.001	0.052848	0.241	6,265
ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_DN	35	0.779047	2.015832	<0.001	0.066213	0.288	4,400
LINDGREN_BLADDER_CANCER_CLUSTER_2B	378	0.648537	2.014315	<0.001	0.063715	0.292	6,322
LEE_DOUBLE_POLAR_THYMOCYTE	25	0.665218	2.010168	<0.001	0.063607	0.304	2,042
PID_CD8_TCR_PATHWAY	53	0.718374	2.007987	0.001905	0.062196	0.307	5,040
LEE_EARLY_T_LYMPHOCYTE_DN	54	0.712606	2.00704	<0.001	0.05989	0.31	1,823
PID_IL12_2PATHWAY	63	0.685927	2.003403	<0.001	0.059861	0.313	1,849
WALLACE_PROSTATE_CANCER_RACE_UP	283	0.689719	1.995816	<0.001	0.063459	0.333	3,915
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN	76	0.655917	1.995245	0.001972	0.060978	0.334	7,087
REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	171	0.557789	1.986604	<0.001	0.065792	0.353	5,492
MAHADEVAN_IMATINIB_RESISTANCE_DN	18	0.735058	1.983611	<0.001	0.065348	0.36	3,490
ZHENG_BOUND_BY_FOXP3	469	0.574772	1.977818	<0.001	0.068805	0.388	5,294
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	251	0.531568	1.977813	<0.001	0.066257	0.388	5,265
GENTLES_LEUKEMIC_STEM_CELL_UP	26	0.754179	1.975114	<0.001	0.06641	0.392	2,704
BOSCO_TH1_CYTOTOXIC_MODULE	102	0.674789	1.974683	0.001949	0.064551	0.392	2,385
KEGG_CHEMOKINE_SIGNALING_PATHWAY	181	0.55421	1.969894	0.001931	0.066816	0.408	7,057
VANASSE_BCL2_TARGETS_DN	69	0.575132	1.968425	0.001996	0.065541	0.41	6,184
BIOCARTA_NKT_PATHWAY	29	0.775652	1.968363	<0.001	0.06352	0.41	2,043
DELYS_THYROID_CANCER_DN	225	0.581059	1.966964	0.001949	0.062608	0.412	6,478
ONO_FOXP3_TARGETS_DN	39	0.724694	1.962686	<0.001	0.064076	0.423	2,019
SMID_BREAST_CANCER_LUMINAL_A_UP	80	0.668431	1.961256	<0.001	0.06306	0.425	7,666
SWEET_LUNG_CANCER_KRAS_DN	419	0.530953	1.957362	<0.001	0.064904	0.441	7,056

VECCHI_GASTRIC_CANCER_EARLY_DN	337	0.619378	1.95599	<0.001	0.064156	0.445	5,760
KEGG_CELL_ADHESION_MOLECULES_CAMS	126	0.610413	1.950178	<0.001	0.067225	0.458	4,211
KEGG_HEMATOPOIETIC_CELL_LINEAGE	82	0.667294	1.949109	<0.001	0.066306	0.46	2,861
PID_TCR_PATHWAY	66	0.703996	1.944858	<0.001	0.068522	0.469	5,040
ONO_AML1_TARGETS_DN	36	0.771923	1.94433	<0.001	0.067281	0.469	3,110
LEE_NAIVE_T_LYMPHOCYTE	17	0.679732	1.942993	0.001946	0.066775	0.473	1,085
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE	25	0.71652	1.939496	<0.001	0.068366	0.483	3,966
PID_IL12_STAT4_PATHWAY	33	0.753303	1.939441	0.001934	0.066876	0.483	4,029
REN_ALVEOLAR_RHABDOMYOSARCOMA_UP	93	0.516842	1.936766	<0.001	0.067872	0.488	4,926
SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_DN	42	0.717247	1.936596	0.001916	0.066556	0.488	2,100
EHRlich_ICF_SYNDROM_DN	15	0.819876	1.936404	<0.001	0.065324	0.488	4,351
KANG_GIST_WITH_PDGFRA_UP	48	0.670819	1.935252	<0.001	0.064932	0.49	3,706
CHYLA_CBFA2T3_TARGETS_UP	364	0.457162	1.934912	0.001938	0.064127	0.492	5,759
LEE_DIFFERENTIATING_T_LYMPHOCYTE	180	0.671294	1.934773	0.005848	0.06292	0.492	4,607
WINTER_HYPOXIA_DN	47	0.857793	1.933792	<0.001	0.06237	0.493	3,048
WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_UP	340	0.48295	1.933709	<0.001	0.061215	0.493	5,844
BOYLAN_MULTIPLE_MYELOMA_PCA1_UP	95	0.571128	1.932248	0.001894	0.060931	0.495	3,391
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	233	0.54247	1.930301	0.001957	0.061282	0.504	3,568
DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN	298	0.557321	1.928464	0.001965	0.061395	0.508	4,773
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN	194	0.557887	1.92815	0.005882	0.06051	0.508	5,654
MCCABE_HOXC6_TARGETS_DN	20	0.709739	1.926818	<0.001	0.060524	0.515	2,650
MIKKELSEN_ES_HCP_WITH_H3_UNMETHYLATED	52	0.540573	1.925907	<0.001	0.060159	0.52	5,159
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_UP	33	0.624083	1.925744	0.001984	0.059236	0.52	4,369
HOELZEL_NF1_TARGETS_DN	103	0.577144	1.922439	0.001949	0.060579	0.53	5,363
KLEIN_TARGETS_OF_BCR_ABL1_FUSION	43	0.690394	1.92034	<0.001	0.060942	0.535	3,939
PID_CD8_TCR_DOWNSTREAM_PATHWAY	54	0.637904	1.918947	0.004024	0.060976	0.538	2,398
REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES	49	0.710265	1.913993	0.003945	0.063805	0.549	6,265
FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_UP	347	0.465977	1.913204	<0.001	0.063262	0.549	6,640
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	410	0.511967	1.912335	0.001923	0.062789	0.552	5,397
ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_UP	237	0.505733	1.909517	<0.001	0.063761	0.559	6,295
GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP	36	0.611253	1.904012	<0.001	0.067234	0.574	5,400
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP	165	0.531666	1.903859	<0.001	0.06636	0.575	4,624
CROONQUIST_NRAS_SIGNALING_UP	39	0.69999	1.903344	0.001938	0.06584	0.578	4,392
REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_LYMPHOID_AND_A_NON_LYMPHOID_CELL	59	0.719329	1.902721	0.00198	0.065356	0.58	3,309
GAVIN_FOXP3_TARGETS_CLUSTER_P7	85	0.538636	1.902531	0.003945	0.064498	0.58	6,427
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	105	0.568727	1.901908	0.005825	0.064073	0.582	5,395
BOQUEST_STEM_CELL_DN	212	0.512054	1.896737	0.00759	0.066886	0.598	6,315
EPPERT_CE_HSC_LSC	37	0.645559	1.895736	<0.001	0.066608	0.6	3,052

BOYLAN_MULTIPLE_MYELOMA_C_D_DN	238	0.498666	1.895351	<0.001	0.066102	0.6	3,881
FIGUEROA_AML_METHYLATION_CLUSTER_5_DN	43	0.562527	1.895339	0.001992	0.065251	0.6	5,486
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN	63	0.642498	1.894212	0.003817	0.065265	0.605	5,816
MADAN_DPPA4_TARGETS	42	0.5361	1.892405	<0.001	0.065803	0.606	4,552
WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_DN	22	0.747743	1.892366	0.001912	0.064981	0.606	4,076
BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE	138	0.5314	1.892051	0.003861	0.064319	0.607	5,119
BIOCARTA_IL12_PATHWAY	21	0.75786	1.891564	0.001976	0.063779	0.608	1,825
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_UP	60	0.629727	1.889558	0.005703	0.064423	0.614	5,630
MARSON_FOXP3_TARGETS_STIMULATED_UP	29	0.716948	1.889402	<0.001	0.063805	0.615	3,756
WONG_ENDMETRIUM_CANCER_DN	78	0.711414	1.888545	<0.001	0.063785	0.618	6,456
VERHAAK_AML_WITH_NPM1_MUTATED_DN	236	0.500351	1.88379	<0.001	0.066313	0.629	5,133
ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_UP	107	0.492725	1.881096	<0.001	0.067656	0.636	6,488
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS	44	0.711983	1.880592	0.01341	0.06726	0.638	962
SHIN_B_CELL_LYMPHOMA_CLUSTER_9	19	0.769543	1.875748	0.002033	0.070124	0.646	4,141
REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	167	0.470241	1.875179	0.001927	0.069822	0.649	6,109
ROSS_LEUKEMIA_WITH_MLL_FUSIONS	75	0.515835	1.874663	0.001988	0.069369	0.649	4,310
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_RED_DN	24	0.654302	1.872701	0.001934	0.07022	0.653	5,916
HAHTOLA_SEZARY_SYNDROM_DN	37	0.716675	1.871761	0.002012	0.070346	0.658	6,313
KEGG_JAK_STAT_SIGNALING_PATHWAY	130	0.545411	1.871197	0.003891	0.070038	0.659	7,170
ASTON_MAJOR_DEPRESSIVE_DISORDER_UP	45	0.550489	1.869022	0.005929	0.071233	0.662	4,321
MCLACHLAN_DENTAL_CARIES_UP	246	0.61401	1.868873	0.013672	0.070604	0.662	6,315
ONDER_CDH1_TARGETS_2_UP	243	0.600118	1.86768	0.009579	0.070654	0.664	6,776
CHEN_ETV5_TARGETS_SERTOLI	19	0.784377	1.86285	0.001923	0.073408	0.677	4,413
WIERENGA_STAT5A_TARGETS_DN	196	0.460661	1.861379	<0.001	0.073898	0.68	6,336
REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	108	0.516111	1.858177	<0.001	0.075895	0.687	6,825
MORI_MATURE_B_LYMPHOCYTE_UP	89	0.608789	1.858177	0.005859	0.075136	0.687	4,374
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_DN	299	0.447098	1.857134	0.001976	0.075221	0.691	6,756
GYORFFY_MITOXANTRONE_RESISTANCE	50	0.578581	1.855107	0.002012	0.076206	0.695	4,953
TING_SILENCED_BY_DICER	29	0.607578	1.854561	0.00198	0.075933	0.696	6,337
ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP	80	0.529443	1.853678	0.007767	0.076046	0.7	6,360
HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_DN	58	0.596814	1.850059	0.01581	0.078518	0.709	5,759
GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP	215	0.430323	1.849424	<0.001	0.078415	0.712	5,370
REACTOME_IL_3_5_AND_GM-CSF_SIGNALING	42	0.643872	1.847104	0.013333	0.079838	0.715	6,920
ONO_FOXP3_TARGETS_UP	21	0.730784	1.846699	0.001957	0.079431	0.718	5,314
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN	30	0.709406	1.846698	0.001953	0.078702	0.718	5,800
REACTOME_PLATELET_HOMEOSTASIS	76	0.531096	1.846665	0.001901	0.07804	0.718	5,626
WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER	53	0.608413	1.845033	0.007874	0.078654	0.721	6,315
PLASARI_TGFB1_TARGETS_10HR_DN	237	0.520691	1.842215	0.001965	0.080505	0.731	5,382
LIAN_LIPA_TARGETS_3M	57	0.670977	1.841244	0.011719	0.080703	0.735	4,413

PID_TXA2PATHWAY	55	0.562009	1.840071	0.009709	0.080949	0.738	5,217
RAMALHO_STEMNESS_DN	70	0.579962	1.840045	0.011236	0.080261	0.738	2,974
CHUNG_BLISTER_CYTOTOXICITY_DN	40	0.599731	1.839707	<0.001	0.079871	0.738	5,073
REACTOME_OLFACTORY_SIGNALING_PATHWAY	27	0.553599	1.839251	<0.001	0.079588	0.738	4,623
FARMER_BREAST_CANCER_CLUSTER_1	43	0.792038	1.837691	<0.001	0.080286	0.743	1,769
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_DN	27	0.66466	1.837251	0.007984	0.080071	0.747	4,284
PLASARI_NFIC_TARGETS_BASAL_DN	18	0.668623	1.834386	0.007843	0.081703	0.754	4,369
DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_DN	114	0.531094	1.833559	0.003922	0.081822	0.756	2,861
PID_IL4_2PATHWAY	65	0.595673	1.833028	0.003846	0.081666	0.758	5,441
MCLACHLAN_DENTAL_CARIES_DN	77	0.583175	1.83282	0.003899	0.08116	0.761	2,847
BIOCARTA_IL22BP_PATHWAY	15	0.77493	1.831079	0.001927	0.082091	0.767	3,110
KEGG_CALCIIUM_SIGNALING_PATHWAY	171	0.486687	1.830615	<0.001	0.081775	0.768	6,805
TERAO_AOX4_TARGETS_SKIN_DN	23	0.677623	1.828857	0.001969	0.082652	0.773	5,374
RORIE_TARGETS_OF_EWSR1_FLI1_FUSION_DN	29	0.712908	1.82854	0.013436	0.082352	0.773	5,663
MARZEC_IL2_SIGNALING_DN	36	0.595369	1.826586	0.007619	0.083512	0.779	4,803
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP	141	0.474454	1.826005	<0.001	0.083392	0.782	6,528
KEGG_OLFACTORY_TRANSDUCTION	57	0.476809	1.824468	<0.001	0.084054	0.787	6,987
BOQUEST_STEM_CELL_UP	256	0.603883	1.823867	0.023438	0.083994	0.789	6,119
KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	77	0.491171	1.823571	0.001949	0.083643	0.79	6,022
BIOCARTA_TOB1_PATHWAY	19	0.711544	1.823378	0.005693	0.083199	0.792	3,368
ZHAN_MULTIPLE_MYELOMA_PR_DN	42	0.642055	1.820731	0.007843	0.084996	0.801	6,273
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	409	0.481737	1.818375	0.005906	0.086254	0.806	4,316
VERHAAK_GLIOBLASTOMA_PRONEURAL	168	0.512353	1.81763	0.009597	0.086233	0.807	6,870
CAIRO_HEPATOBLASTOMA_CLASSES_DN	201	0.477398	1.817136	<0.001	0.08609	0.807	6,581
BIOCARTA_TCR_PATHWAY	44	0.608352	1.815264	0.009542	0.087045	0.814	6,322
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN	180	0.479867	1.814769	0.009901	0.086892	0.814	3,702
PID_IL27_PATHWAY	25	0.708688	1.813039	0.001961	0.087858	0.817	2,678
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP	198	0.610968	1.812223	0.019724	0.087929	0.82	6,776
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN	131	0.524696	1.811663	0.019802	0.087761	0.82	5,289
BIOCARTA_CCR5_PATHWAY	17	0.699267	1.809327	0.005988	0.089124	0.824	5,811
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION GRANULOCYTE_UP	53	0.509941	1.808402	0.003906	0.089227	0.827	6,031
REACTOME_CGMP_EFFECTS	19	0.680578	1.807517	0.007937	0.089374	0.829	5,096
CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP	162	0.487197	1.807309	0.005792	0.088928	0.829	5,164
REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE	30	0.57748	1.806615	0.005837	0.088985	0.833	3,530
JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_DN	41	0.535286	1.805001	0.001957	0.089675	0.836	5,133
ZHAN_MULTIPLE_MYELOMA_DN	41	0.608043	1.804878	0.007843	0.089167	0.836	6,184
WORSCHCH_TUMOR_REJECTION_UP	51	0.588886	1.804527	0.012024	0.088952	0.837	6,858
REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK	188	0.439352	1.803471	0.003937	0.089241	0.839	6,109
BIOCARTA_PDGF_PATHWAY	32	0.607029	1.802638	0.007692	0.089428	0.84	5,974

MIKKELSEN_IPS_ICP_WITH_H3K27ME3	47	0.484611	1.802257	<0.001	0.089185	0.84	4,058
REACTOME_IL_RECEPTOR_SHC_SIGNALING	26	0.657346	1.801425	0.005792	0.089312	0.844	4,374
PID_NFAT_TFPATHWAY	45	0.590728	1.798776	0.014056	0.091105	0.847	3,368
BIOCARTA_CALCINEURIN_PATHWAY	18	0.677013	1.796918	0.003945	0.092107	0.848	5,841
PID_TCR_CALCIIUM_PATHWAY	27	0.620987	1.796812	0.005917	0.091612	0.848	3,368
BIOCARTA_FCER1_PATHWAY	38	0.60004	1.796601	0.011538	0.091177	0.849	6,022
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	31	0.556847	1.794478	0.005917	0.092393	0.85	2,216
BROWNE_HCMV_INFECTION_2HR_UP	38	0.590489	1.794423	0.021569	0.091865	0.85	6,388
KANG_IMMORTALIZED_BY_TERT_DN	97	0.489522	1.793511	<0.001	0.092224	0.851	5,702
REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VASCULAR_WALL	84	0.508349	1.79197	0.004008	0.09321	0.854	5,009
GAVIN_FOXP3_TARGETS_CLUSTER_P3	153	0.460634	1.789541	<0.001	0.094689	0.861	6,588
WIERENGA_STAT5A_TARGETS_GROUP2	57	0.566926	1.78904	0.007874	0.0947	0.862	5,201
TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN	38	0.684134	1.78895	0.003945	0.094238	0.862	5,961
LEE_NEURAL_CREST_STEM_CELL_UP	140	0.503759	1.787529	0.016	0.095008	0.864	3,935
PID_FCER1_PATHWAY	61	0.573696	1.787505	0.00759	0.094486	0.864	6,022
BIOCARTA_NO2IL12_PATHWAY	17	0.844872	1.787129	0.005964	0.094348	0.867	1,825
WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_UP	30	0.592803	1.786901	0.017241	0.09397	0.868	3,491
PID_IL2_STAT5_PATHWAY	30	0.687494	1.786812	0.007767	0.093537	0.868	3,890
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PI3KGAMMA	25	0.594164	1.783829	0.005747	0.095567	0.873	4,252
CERIBELLI_GENES_INACTIVE_AND_BOUND_BY_NFY	34	0.56074	1.783555	0.007952	0.095233	0.873	5,814
VANHARANTA_UTERINE_FIBROID_DN	63	0.536173	1.782719	0.002004	0.095506	0.873	6,917
VILIMAS_NOTCH1_TARGETS_UP	50	0.664184	1.782519	0.017578	0.095166	0.873	6,322
LIM_MAMMARY_STEM_CELL_UP	459	0.537493	1.782334	0.028681	0.094788	0.873	6,948
NADERI_BREAST_CANCER_PROGNOSIS_DN	18	0.647191	1.782286	0.016949	0.094298	0.873	1,022
REACTOME_ANTIGEN_ACTIVATES_B_CELL_RECEPTOR_LEADING_TO_GENERATION_OF_SECOND_MESSENGERS	29	0.690793	1.781747	0.007634	0.094181	0.873	5,811
PID_EPO_PATHWAY	34	0.653668	1.78152	0.007859	0.093828	0.873	4,819
HOWLIN_CITED1_TARGETS_1_UP	32	0.569922	1.780269	0.005629	0.094428	0.874	3,391
LI_INDUCED_T_TO_NATURAL_KILLER_DN	114	0.44853	1.780018	0.001905	0.094125	0.874	6,208
LIM_MAMMARY_LUMINAL_MATURE_DN	96	0.577497	1.779814	0.017822	0.093804	0.874	7,735
REACTOME_TCR_SIGNALING	50	0.659423	1.775934	0.027079	0.096662	0.879	2,055
VILIMAS_NOTCH1_TARGETS_DN	19	0.786118	1.775506	0.009615	0.096506	0.88	4,320
LU_IL4_SIGNALING	91	0.511738	1.774975	0.017208	0.09648	0.88	3,375
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	196	0.458022	1.774393	0.005837	0.096512	0.88	6,040
PID_IL23_PATHWAY	35	0.620123	1.774322	0.020952	0.096036	0.88	6,820
FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN	66	0.4746	1.774319	0.007678	0.095522	0.88	4,025
REACTOME_G_ALPHA1213_SIGNALLING_EVENTS	74	0.471566	1.773637	0.003968	0.095578	0.882	5,974
GAVIN_FOXP3_TARGETS_CLUSTER_P2	76	0.473524	1.771186	0.001961	0.097253	0.889	6,875
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN	36	0.581496	1.770231	0.009862	0.097702	0.891	5,824

OSADA_ASCL1_TARGETS_UP	45	0.525611	1.770067	0.009488	0.097342	0.891	6,450
WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN	186	0.631422	1.770002	0.017682	0.096884	0.891	6,114
HOFMANN_MYELODYSPLASTIC_SYNDROM_RISK_DN	20	0.604944	1.769666	0.011834	0.096637	0.891	988
MIKKELSEN_ES_HCP_WITH_H3K27ME3	38	0.591748	1.768798	0.003937	0.097067	0.894	7,921
WEST_ADRENOCORTICAL_TUMOR_MARKERS_DN	20	0.663138	1.768454	0.01711	0.096823	0.894	5,354
REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	44	0.548534	1.767736	0.003861	0.096948	0.894	7,152
BIOCARTA_IL2_PATHWAY	22	0.634968	1.767505	0.011696	0.096677	0.894	4,802
BIOCARTA_EGF_PATHWAY	31	0.592909	1.767131	0.011561	0.096509	0.895	5,974
ROSS_AML_WITH_CBFB_MYH11_FUSION	52	0.538946	1.765981	0.009766	0.096995	0.896	6,181
LIAN_LIPA_TARGETS_6M	72	0.594686	1.764462	0.037037	0.097784	0.898	8,478
NOUZOVA_METHYLATED_IN_APL	57	0.507393	1.764447	<0.001	0.097301	0.898	5,745
RODRIGUES_THYROID_CARCCINOMA_ANAPLASTIC_DN	483	0.459153	1.764326	0.01378	0.096941	0.899	6,728
BIOCARTA_DC_PATHWAY	20	0.685227	1.76399	0.026975	0.09674	0.899	4,303
HUTTMANN_B_CLL_POOR_SURVIVAL_DN	56	0.577661	1.763912	0.005825	0.096347	0.899	6,976
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN	162	0.477642	1.76337	0.010183	0.096458	0.899	5,420
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN	30	0.563327	1.761888	0.004057	0.097335	0.9	6,559
YU_MYC_TARGETS_DN	51	0.646761	1.76121	0.016293	0.097497	0.901	3,939
DAWSON_METHYLATED_IN_LYMPHOMA_TCL1	53	0.52089	1.7612	0.00956	0.097041	0.901	6,145
REACTOME_DAG_AND_IP3_SIGNALING	29	0.598029	1.760338	0.005848	0.097354	0.903	6,805
BAKKER_FOXO3_TARGETS_UP	58	0.53853	1.757365	0.005906	0.099538	0.907	6,129
ZHAN_MULTIPLE_MYELOMA_MF_DN	37	0.614925	1.757277	0.009823	0.09912	0.908	5,581
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS_AND_CYCLIC_RGD	21	0.75189	1.757258	0.016886	0.09866	0.908	4,025
SA_MMP_CYTOKINE_CONNECTION	15	0.73164	1.754859	0.013725	0.100291	0.909	795
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN	157	0.512594	1.753515	0.01938	0.101054	0.912	3,099
SU_THYMUS	20	0.80067	1.753181	0.003854	0.100866	0.912	1,180
ZHOU_INFLAMMATORY_RESPONSE_FIMA_DN	250	0.382796	1.752983	0.001912	0.100599	0.912	5,289
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	45	0.70225	1.752128	0.015779	0.100919	0.912	3,433
MAHAJAN_RESPONSE_TO_IL1A_UP	79	0.475422	1.748331	0.003922	0.103772	0.916	3,629
SCHURINGA_STAT5A_TARGETS_DN	17	0.66418	1.747677	0.021526	0.103854	0.918	4,910
HOWLIN_PUBERTAL_MAMMARY_GLAND	65	0.514674	1.746719	0.009921	0.104293	0.919	5,146
CHEBOTAEV_GR_TARGETS_DN	116	0.50273	1.74552	0.01417	0.104895	0.919	7,045
WEST_ADRENOCORTICAL_CARCCINOMA_VS_ADENOMA_DN	23	0.616064	1.744925	0.013889	0.104926	0.92	4,321
NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_DN	19	0.656328	1.744921	0.006	0.104456	0.92	2,976
SANA_TNF_SIGNALING_DN	89	0.487539	1.744107	0.009597	0.104726	0.92	3,813
REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALLING	28	0.560452	1.743485	0.015474	0.104823	0.921	4,252
PEDRIOLI_MIR31_TARGETS_DN	378	0.396283	1.738573	0.001905	0.108569	0.928	8,133
MIKKELSEN_MCV6_ICP_WITH_H3K4ME3_AND_H3K27ME3	32	0.568774	1.738521	0.009921	0.108148	0.928	5,970
BIOCARTA_IL7_PATHWAY	17	0.761056	1.735325	0.007605	0.110567	0.929	2,443
MARSON_FOXP3_TARGETS_DN	53	0.540216	1.735228	0.019802	0.110169	0.929	6,820

REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE	49	0.502514	1.735099	0.003906	0.10981	0.93	6,805
HOFMANN_MYELODYSPLASTIC_SYNDROM_HIGH_RISK_DN	20	0.600114	1.734581	0.005894	0.109824	0.93	5,383
ZHENG_FOXP3_TARGETS_UP	25	0.682675	1.734439	0.017476	0.109495	0.93	4,953
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP	74	0.646015	1.733882	0.025341	0.109588	0.931	4,447
HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_UP	42	0.514624	1.733656	0.003953	0.10932	0.931	3,453
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	18	0.616868	1.733075	0.001961	0.109449	0.931	4,623
HADDAD_B_LYMPHOCYTE_PROGENITOR	268	0.436801	1.732932	0.005929	0.109109	0.931	6,342
PID_IL2_1PATHWAY	55	0.578897	1.731485	0.021442	0.110035	0.934	3,890
BIOCARTA_LAIR_PATHWAY	16	0.675246	1.730547	0.013359	0.110329	0.935	6,406
BOHN_PRIMARY_IMMUNODEFICIENCY_SYNDROM_DN	38	0.569843	1.730133	0.017857	0.110259	0.936	4,773
SHIN_B_CELL_LYMPHOMA_CLUSTER_3	28	0.607854	1.730077	0.017241	0.10986	0.936	6,468
LEIN_LOCALIZED_TO_DISTAL_AND_PROXIMAL_DENDRITES	15	0.678525	1.729371	0.011742	0.110096	0.936	5,526
LIU_TARGETS_OF_VMYB_VS_CMYB_DN	42	0.550167	1.728461	0.009921	0.110516	0.936	6,638
FONTAINE_PAPILLARY_THYROID_CARCINOMA_DN	72	0.432151	1.726792	0.001919	0.111584	0.937	5,206
TENEDINI_MEGAKARYOCYTE_MARKERS	65	0.469862	1.726091	0.007519	0.111764	0.937	1,754
BIOCARTA_VIP_PATHWAY	25	0.612061	1.726032	0.013359	0.111384	0.937	6,575
GAVIN_FOXP3_TARGETS_CLUSTER_P4	94	0.451235	1.72514	0.007678	0.111827	0.938	7,030
AKL_HTLV1_INFECTION_DN	66	0.531608	1.724892	0.015968	0.111615	0.938	2,201
ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION	125	0.545121	1.724868	0.045635	0.111184	0.938	6,488
REACTOME_GENERATION_OF_SECOND_MESSENGER_MOLECULES	26	0.771853	1.724854	0.013672	0.110747	0.938	2,055
GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_UP	25	0.591017	1.724478	0.009785	0.110634	0.939	2,868
HATADA_METHYLATED_IN_LUNG_CANCER_UP	365	0.391128	1.723983	<0.001	0.110634	0.939	5,916
WORSCHER_TUMOR_EVASION_AND_TOLEROGENICITY_UP	28	0.606893	1.723833	0.016227	0.110358	0.939	6,532
KIM_GERMINAL_CENTER_T_HELPER_UP	62	0.576452	1.722364	0.019084	0.111216	0.941	3,157
BIOCARTA_PAR1_PATHWAY	37	0.557082	1.721078	0.007905	0.111952	0.941	5,974
REACTOME_CA_DEPENDENT_EVENTS	27	0.576628	1.720548	0.017787	0.111966	0.943	6,805
RICKMAN_HEAD_AND_NECK_CANCER_A	96	0.46105	1.720289	0.005837	0.111768	0.943	6,528
MATTIOLI_MULTIPLE_MYELOMA_WITH_14Q32_TRANSLOCATIONS	33	0.54421	1.720019	0.01711	0.111606	0.943	6,290
REACTOME_GABA_RECEPTOR_ACTIVATION	51	0.521513	1.717817	0.003891	0.113212	0.946	5,034
LINDSTEDT_DENDRITIC_CELL_MATURATION_D	66	0.55932	1.717313	0.021526	0.113303	0.946	5,289
MANTOVANI_VIRAL_GPCR_SIGNALING_UP	81	0.432548	1.717305	0.012195	0.112877	0.946	3,927
REACTOME_INTRINSIC_PATHWAY	15	0.665454	1.716021	0.007968	0.113691	0.947	1,460
MATZUK_EMBRYONIC_GERM_CELL	19	0.604912	1.715805	0.009709	0.113454	0.947	6,722
REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	32	0.570634	1.715118	0.011472	0.113719	0.948	6,805
ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	41	0.523308	1.714331	0.01165	0.114081	0.949	7,530
VALK_AML_CLUSTER_1	27	0.548024	1.713833	0.011673	0.114112	0.952	6,548
GREENBAUM_E2A_TARGETS_DN	20	0.638235	1.712693	0.015504	0.114737	0.952	3,665
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	117	0.507115	1.712376	0.019881	0.114622	0.952	6,829
REACTOME_NEURONAL_SYSTEM	270	0.423856	1.712006	0.013359	0.114559	0.953	7,082

STARK_HYPOCAMPUS_22Q11_DELETION_UP	50	0.516114	1.712001	0.01354	0.114136	0.953	7,647
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN	23	0.568991	1.711673	0.009843	0.114039	0.954	2,922
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP	25	0.656587	1.709687	0.011858	0.11559	0.954	3,312
REACTOME_PI_METABOLISM	47	0.517501	1.708685	0.021869	0.116078	0.954	6,079
PID_SHP2_PATHWAY	57	0.559666	1.708299	0.013487	0.116029	0.954	7,697
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	73	0.536497	1.707805	0.02544	0.116085	0.954	6,022
BIOCARTA_HDAC_PATHWAY	27	0.592199	1.707419	0.019881	0.116034	0.954	6,443
WANG_MLL_TARGETS	279	0.416513	1.706487	0.008097	0.116498	0.954	7,067
RUTELLA_RESPONSE_TO_HGF_DN	228	0.433908	1.704232	0.021956	0.118259	0.956	5,246
GAURNIER_PSMD4_TARGETS	70	0.615822	1.70346	0.047151	0.118565	0.956	8,491
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP	337	0.64882	1.703384	0.043137	0.118199	0.956	6,832
ZHENG_GLIOBLASTOMA_PLASTICITY_DN	55	0.530149	1.702604	0.01006	0.118535	0.956	7,501
REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQUAPORINS	41	0.515367	1.702055	0.009671	0.118679	0.956	6,805
PID_S1P_META_PATHWAY	21	0.611672	1.701623	0.023121	0.118656	0.956	5,217
WINNEPENINCKX_MELANOMA_METASTASIS_DN	42	0.522868	1.701085	0.017964	0.118736	0.956	6,315
STEGER_ADIPOGENESIS_UP	21	0.599579	1.700908	0.02549	0.118499	0.956	4,134
REACTOME_GPVI_MEDIATED_ACTIVATION_CASCADE	31	0.585464	1.700003	0.030888	0.118968	0.956	5,974
SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_DN	32	0.492027	1.699994	0.005814	0.118555	0.956	4,272
ZHENG_FOXP3_TARGETS_IN_THYMUS_UP	186	0.562606	1.698926	0.041176	0.119179	0.956	4,463
MORI_PLASMA_CELL_DN	30	0.610033	1.698233	0.022088	0.119439	0.957	7,202
BIOCARTA_GH_PATHWAY	28	0.583359	1.698054	0.019417	0.119181	0.957	6,443
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_DN	18	0.596354	1.6966	0.013861	0.120192	0.958	4,316
AMUNDSON_GAMMA_RADIATION_RESISTANCE	19	0.620142	1.695521	0.022945	0.120636	0.958	3,630
THUM_SYSTOLIC_HEART_FAILURE_UP	396	0.478579	1.695416	0.021869	0.120311	0.958	6,392
NABA_ECM_GLYCOPROTEINS	188	0.488721	1.695339	0.039063	0.119977	0.958	7,038
HOEBEKE_LYMPHOID_STEM_CELL_UP	87	0.498154	1.694898	0.015267	0.120018	0.958	7,616
HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN	75	0.544534	1.694255	0.038153	0.120219	0.958	5,457
SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_DN	44	0.5633	1.69373	0.022088	0.120318	0.958	3,285
REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON LIKE PEPTIDE1	41	0.526099	1.69352	0.016854	0.120122	0.958	6,660
BIOCARTA_BIOPEPTIDES_PATHWAY	42	0.524505	1.693181	0.010309	0.119993	0.958	7,014
LEIN_MIDBRAIN_MARKERS	76	0.442083	1.692695	0.011719	0.12004	0.958	4,765
REACTOME_REGULATION_OF_KIT_SIGNALING	16	0.666898	1.690927	0.021401	0.121198	0.96	4,802
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP	86	0.63899	1.690727	0.032389	0.121006	0.96	5,715
KEGG_ASTHMA	26	0.72008	1.690458	0.025591	0.1208	0.96	4,025
SIG_BCR_SIGNALING_PATHWAY	46	0.562401	1.689227	0.015296	0.121655	0.96	6,022
REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNALING	21	0.587612	1.687003	0.017442	0.123409	0.962	4,802
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP	78	0.488652	1.686988	0.007952	0.123007	0.962	7,706
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN	305	0.447097	1.686488	0.02621	0.123139	0.964	5,603

SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES	36	0.553716	1.68573	0.019048	0.123519	0.965	5,974
CORRE_MULTIPLE_MYELOMA_DN	60	0.483092	1.685383	0.033465	0.123516	0.966	5,289
SCHOEN_NFKB_SIGNALING	33	0.586584	1.68517	0.038835	0.123307	0.966	6,322
BIOCARTA_SHH_PATHWAY	15	0.643372	1.684016	0.021739	0.124084	0.967	6,575
WATTEL_AUTONOMOUS_THYROID_ADENOMA_DN	53	0.515311	1.683624	0.028902	0.124017	0.967	4,236
LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN	131	0.539263	1.682696	0.029412	0.124489	0.967	7,829
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN	64	0.453578	1.682678	0.005952	0.1241	0.967	3,591
CHANG_IMMORTALIZED_BY_HP31_UP	80	0.472196	1.682334	0.01004	0.124021	0.967	7,766
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	24	0.601211	1.681117	0.019194	0.124829	0.967	2,021
THEODOROU_MAMMARY_TUMORIGENESIS	27	0.547208	1.680362	0.017682	0.125115	0.968	7,056
HOLLERN_EMT_BREAST_TUMOR_UP	102	0.586071	1.678759	0.054795	0.126246	0.97	5,961
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP	78	0.475255	1.677829	0.013672	0.126818	0.97	7,787
REACTOME_THE_ROLE_OF_NEF_IN_HIV1_REPLICATION_AND_DISEASE_PATHOGENESIS	28	0.572773	1.677666	0.028513	0.126556	0.97	1,313
REACTOME_IL_2_SIGNALING	40	0.566182	1.677548	0.033399	0.126278	0.97	4,802
KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	113	0.458341	1.677477	0.008	0.125934	0.97	6,805
TAKADA_GASTRIC_CANCER_COPY_NUMBER_DN	26	0.611671	1.677325	0.023033	0.125664	0.97	3,642
ZHAN_MULTIPLE_MYELOMA_SPIKED	21	0.511656	1.677056	0.010101	0.125536	0.97	2,704
REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	22	0.606205	1.676536	0.021442	0.125648	0.97	7,170
LUI_THYROID_CANCER_CLUSTER_4	15	0.683396	1.675707	0.024715	0.1261	0.97	6,315
BOYAULT_LIVER_CANCER_SUBCLASS_G5_DN	26	0.627276	1.675198	0.035785	0.126197	0.97	3,151
QI_PLASMACYTOMA_UP	257	0.478986	1.674356	0.044088	0.126542	0.97	5,099
MIKKELSEN_MCV6_HCP_WITH_H3K27ME3	397	0.400202	1.673847	0.013672	0.1267	0.971	7,990
PID_INTEGRIN2_PATHWAY	28	0.590151	1.673806	0.024341	0.126356	0.971	4,413
WANG_TARGETS_OF_MLL_CBP_FUSION_UP	43	0.439723	1.673312	0.005859	0.12649	0.971	5,603
RIZ_ERYTHROID_DIFFERENTIATION_APOBEC2	24	0.553741	1.672921	0.016	0.126473	0.971	5,843
BIOCARTA_TPO_PATHWAY	24	0.585807	1.672853	0.017476	0.126172	0.971	4,600
BROWNE_HCMV_INFECTION_1HR_UP	58	0.461735	1.672094	0.005848	0.126455	0.971	3,532
REACTOME_GABA_B_RECEPTOR_ACTIVATION	38	0.506158	1.671883	0.01341	0.126275	0.971	6,805
PID_IL8_CXCR1_PATHWAY	26	0.586662	1.67178	0.051181	0.126016	0.971	4,722
ONO_AML1_TARGETS_UP	24	0.644481	1.669778	0.025794	0.127419	0.973	5,201
KEGG_PRIMARY_IMMUNODEFICIENCY	34	0.727172	1.669736	0.030738	0.127081	0.973	4,802
LIU_VAV3_PROSTATE_CARCINOGENESIS_UP	89	0.488665	1.66937	0.024575	0.126976	0.973	6,548
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP	31	0.694053	1.669032	0.025292	0.126944	0.973	6,825
STARK_PREFRONTAL_CORTEX_22Q11_DELETION_UP	188	0.470197	1.668048	0.033203	0.127458	0.973	6,813
NAKAJIMA_EOSINOPHIL	27	0.566651	1.667732	0.021825	0.127399	0.973	5,586
REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	61	0.565253	1.667639	0.042169	0.127069	0.973	4,802
BIOCARTA_BCR_PATHWAY	34	0.559901	1.666246	0.033465	0.128074	0.973	5,811
DURAND_STROMA_S_UP	281	0.433919	1.664964	0.021825	0.128876	0.973	7,187

REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	334	0.43309	1.66416	0.028037	0.129363	0.973	7,064
HUANG_FOXA2_TARGETS_UP	43	0.51215	1.662736	0.008097	0.130405	0.974	4,976
PID_LPA4_PATHWAY	15	0.695324	1.662391	0.015444	0.130367	0.974	6,805
XU_HGF_TARGETS_REPRESSED_BY_AKT1_DN	86	0.406235	1.662294	0.006173	0.130082	0.974	7,484
LABBE_WNT3A_TARGETS_DN	92	0.420265	1.662283	0.009579	0.129729	0.974	6,547
KEGG_AUTOIMMUNE_THYROID_DISEASE	38	0.661456	1.662251	0.050193	0.129389	0.974	6,581
REACTOME_ION_CHANNEL_TRANSPORT	52	0.525723	1.661691	0.015842	0.129536	0.974	8,216
NUMATA_CSF3_SIGNALING_VIA_STAT3	22	0.512028	1.661601	0.011881	0.12925	0.974	4,506
KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN	58	0.614672	1.661107	0.046185	0.129382	0.974	4,374
REACTOME_POTASSIUM_CHANNELS	94	0.467708	1.660055	0.028736	0.13005	0.974	6,660
PID_CXCR4_PATHWAY	100	0.51924	1.65965	0.03373	0.130174	0.974	5,221
REACTOME_SIGNALING_BY_RHO_GTPASES	111	0.429666	1.659068	0.017964	0.130376	0.974	7,132
PID_PI3KCI_PATHWAY	49	0.529319	1.659039	0.035714	0.130026	0.974	5,025
LEIN_NEURON_MARKERS	66	0.54824	1.65901	0.046512	0.129688	0.974	6,858
REACTOME_HEMOSTASIS	432	0.381742	1.658823	0.005882	0.129518	0.974	6,040
REACTOME_DOWNSTREAM_TCR_SIGNALING	33	0.618317	1.656866	0.056202	0.13115	0.975	5,040
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN	237	0.414555	1.656583	0.02008	0.131071	0.975	5,570
REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_ACTIVATED_RECEPTORS_PARS	32	0.530397	1.656322	0.022044	0.130937	0.975	6,635
PEREZ_TP53_AND_TP63_TARGETS	192	0.383341	1.655659	0.00404	0.131218	0.975	6,372
DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN	28	0.611072	1.655648	0.035644	0.130882	0.975	5,841
RHEIN_ALL_GLUCOCORTICOID_THERAPY_UP	75	0.510146	1.655613	0.02994	0.130559	0.975	5,644
REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB	16	0.641098	1.655336	0.015296	0.130535	0.975	6,805
PID_KIT_PATHWAY	52	0.529579	1.654935	0.023256	0.130578	0.975	6,082
BUCKANOVICH_T_LYMPHOCYTE_HOMING_ON_TUMOR_UP	21	0.602533	1.65458	0.018975	0.130586	0.975	6,641
NABA_CORE_MATRISOME	264	0.482515	1.654399	0.049603	0.130384	0.975	7,182
FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN	431	0.454342	1.654131	0.033865	0.130261	0.975	6,745
BAELDE_DIABETIC_NEPHROPATHY_UP	79	0.466933	1.653474	0.032567	0.130408	0.975	3,384
REACTOME_SIGNALING_BY_FGFR1_MUTANTS	27	0.538853	1.652316	0.022989	0.131201	0.975	4,969
HOLLERN_SOLID_NODULAR_BREAST_TUMOR_DN	30	0.586263	1.651562	0.038536	0.131659	0.975	6,930
REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL	134	0.426047	1.651414	0.009709	0.131458	0.975	7,053
HAHTOLA_CTCL_PATHOGENESIS	16	0.713538	1.650125	0.027559	0.132301	0.975	6,278
KEGG_TYPE_II_DIABETES_MELLITUS	46	0.505778	1.649252	0.023622	0.132801	0.976	7,170
BYSTROEM_CORRELATED_WITH_IL5_DN	64	0.533194	1.649062	0.030829	0.132648	0.976	6,413
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_4NM_UP	22	0.563755	1.648815	0.026263	0.132531	0.976	6,370
GRADE_COLON_AND_RECTAL_CANCER_DN	96	0.425756	1.648519	0.011342	0.132475	0.976	6,739
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES	183	0.418275	1.64821	0.011719	0.132436	0.976	7,053
GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	53	0.433624	1.646728	0.009381	0.133547	0.977	5,104

MORI_SMALL_PRE_BII_LYMPHOCYTE_UP	80	0.407751	1.646487	0.009653	0.133386	0.977	5,841
BIOCARTA_IL10_PATHWAY	17	0.653577	1.645836	0.032258	0.133704	0.977	2,004
ODONNELL_TFRC_TARGETS_UP	376	0.342021	1.645701	0.002024	0.133486	0.977	5,573
IWANAGA_CARCIANOGENESIS_BY_KRAS_PTEN_DN	324	0.398817	1.645425	0.007952	0.133437	0.978	6,315
PEREZ_TP63_TARGETS	325	0.364362	1.645303	0.007937	0.133183	0.979	6,372
CHANG_CORE_SERUM_RESPONSE_DN	195	0.399083	1.64435	0.017408	0.133671	0.979	5,721
BASSO_CD40_SIGNALING_DN	64	0.472998	1.644251	0.027505	0.133444	0.979	3,102
SERVITJA_ISLET_HNF1A_TARGETS_UP	161	0.466631	1.643523	0.03301	0.13386	0.979	6,955
BIOCARTA_CSK_PATHWAY	21	0.68977	1.642967	0.029412	0.13406	0.979	8,523
LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES	35	0.566083	1.642426	0.044316	0.134257	0.98	6,007
RASHI_RESPONSE_TO_IONIZING_RADIATION_6	81	0.464503	1.641822	0.037255	0.134507	0.98	6,581
HUI_MAPK14_TARGETS_UP	20	0.548522	1.641205	0.027079	0.13479	0.98	6,693
BIOCARTA_GATA3_PATHWAY	15	0.594181	1.641147	0.02682	0.134473	0.98	7,490
MORI_PRE_BI_LYMPHOCYTE_DN	73	0.510145	1.64078	0.057312	0.134488	0.98	5,502
FINETTI_BREAST_CANCER_KINOME_GREEN	16	0.838592	1.64019	0.006036	0.13467	0.98	4,802
HASLINGER_B_CLL_WITH_MUTATED_VH_GENES	17	0.62784	1.640125	0.015748	0.134395	0.98	3,687
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP	176	0.410011	1.639725	0.019685	0.134412	0.98	7,697
REACTOME_SIGNALING_BY_FGFR1_FUSION_MUTANTS	18	0.629058	1.639037	0.031189	0.134734	0.98	3,890
GUILLAUMOND_KLF10_TARGETS_UP	49	0.474092	1.636641	0.009785	0.13656	0.981	1,809
MIKKELSEN_ES_ICP_WITH_H3K27ME3	36	0.495999	1.635914	0.011742	0.136933	0.981	8,653
REACTOME_LIGAND_GATED_ION_CHANNEL_TRANSPORT	19	0.626422	1.635491	0.045802	0.137	0.981	9,324
REACTOME_SIGNALING_BY_ILS	104	0.484064	1.635352	0.041584	0.136788	0.981	5,192
TERAMOTO_OPN_TARGETS_CLUSTER_6	26	0.525819	1.635115	0.04023	0.136718	0.981	3,751
BASSO_CD40_SIGNALING_UP	99	0.527069	1.634136	0.061386	0.137335	0.981	6,596
REACTOME_SIGNALING_BY_FGFR_MUTANTS	41	0.483232	1.633644	0.01378	0.137446	0.981	5,974
ZHAN_MULTIPLE_MYELOMA_CD2_UP	43	0.520763	1.633318	0.029297	0.137382	0.981	6,033
RADMACHER_AML_PROGNOSIS	75	0.435434	1.632322	0.034137	0.138068	0.981	5,009
TARTE_PLASMA_CELL_VS_PLASMABLAST_UP	369	0.385231	1.631604	0.007859	0.138421	0.981	6,086
HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP	58	0.484688	1.62961	0.035857	0.139983	0.982	5,264
KEGG_LONG_TERM_DEPRESSION	69	0.436408	1.629555	0.019841	0.139691	0.982	5,294
RUIZ_TNC_TARGETS_UP	148	0.473759	1.627647	0.052529	0.141232	0.983	8,433
PID_PTP1B_PATHWAY	51	0.492162	1.626567	0.031496	0.141992	0.983	7,737
PID_BCR_5PATHWAY	65	0.542241	1.625828	0.05336	0.142421	0.983	6,322
PID_IL8_CXCR2_PATHWAY	33	0.529612	1.625248	0.058366	0.142643	0.983	4,722
HASLINGER_B_CLL_WITH_11Q23_DELETION	22	0.550773	1.625199	0.024668	0.142344	0.983	8,216
MARSON_FOXP3_CORE_DIRECT_TARGETS	19	0.68169	1.624631	0.052838	0.142588	0.983	3,234
FIGUEROA_AML_METHYLATION_CLUSTER_1_UP	108	0.388617	1.62457	0.007505	0.142307	0.983	5,462
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_DN	64	0.545541	1.624308	0.026104	0.142241	0.983	6,269
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	41	0.536088	1.622565	0.044574	0.143609	0.986	7,082

TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_UP	255	0.365605	1.621771	0.006061	0.144014	0.987	7,062
VALK_AML_CLUSTER_10	32	0.49711	1.620523	0.032197	0.144941	0.988	7,730
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXP1_FUSION_DN	15	0.629612	1.620329	0.044355	0.144778	0.988	2,930
MIKKELSEN_MCV6_ICP_WITH_H3K27ME3	62	0.462748	1.619402	0.018256	0.145335	0.989	4,226
VALK_AML_CLUSTER_12	30	0.477921	1.619221	0.025052	0.145166	0.989	3,174
LE_NEURONAL_DIFFERENTIATION_UP	17	0.619444	1.618939	0.032946	0.145073	0.989	6,683
PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP	124	0.456816	1.618672	0.031873	0.145011	0.989	6,335
CERVERA_SDHB_TARGETS_1_DN	36	0.522833	1.618426	0.016129	0.144933	0.989	5,649
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_UP	52	0.49861	1.617328	0.01636	0.145628	0.989	6,703
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	76	0.436685	1.616516	0.023762	0.146105	0.989	6,079
PID_GMCSF_PATHWAY	36	0.548889	1.616099	0.048263	0.146143	0.989	7,010
MORI_LARGE_PRE_BII_LYMPHOCYTE_DN	57	0.627727	1.615538	0.059184	0.146369	0.989	3,433
LINDSTEDT_DENDRITIC_CELL_MATURATION_C	67	0.456782	1.615463	0.025391	0.146112	0.989	3,842
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP	162	0.44845	1.614483	0.035433	0.146765	0.989	8,094
GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_DN	90	0.486052	1.614371	0.036	0.146536	0.989	4,233
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN	267	0.393729	1.614239	0.00813	0.146312	0.989	3,647
REACTOME_REGULATION_OF_SIGNALING_BY_CBL	18	0.647871	1.614167	0.049808	0.14604	0.989	6,920
WILENSKY_RESPONSE_TO_DARAPLADIB	29	0.684356	1.613956	0.066532	0.145939	0.989	6,164
BIOCARTA_TH1TH2_PATHWAY	19	0.678466	1.612445	0.055666	0.14707	0.989	3,368
URS_ADIPOCYTE_DIFFERENTIATION_UP	73	0.413111	1.612359	0.014056	0.146791	0.989	5,207
TAVAZOIE_METASTASIS	100	0.431329	1.612161	0.005736	0.146662	0.989	7,519
KUMAR_TARGETS_OF_MLL_AF9_FUSION	383	0.368485	1.610945	0.010204	0.14751	0.989	5,492
BIOCARTA_COMP_PATHWAY	18	0.659374	1.610846	0.043233	0.147278	0.989	8,039
EPPERT_HSC_R	111	0.4382	1.610698	0.017442	0.147103	0.989	7,179
NABA_PROTEOGLYCANS	32	0.56053	1.609822	0.056	0.14764	0.989	6,374
CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY	29	0.479302	1.60942	0.011765	0.147702	0.989	5,005
MCCLUNG_DELTA_FOSB_TARGETS_8WK	47	0.509856	1.609391	0.050752	0.147407	0.989	6,360
PID_P38_ALPHA_BETA_PATHWAY	31	0.510105	1.609143	0.032193	0.147296	0.989	5,972
HORIUCHI_WTAP_TARGETS_UP	287	0.426293	1.608744	0.0501	0.147399	0.989	6,994
MARSON_FOXP3_TARGETS_UP	63	0.462463	1.608635	0.039293	0.147176	0.989	3,234
REACTOME_PLG_BETA_MEDIATED_EVENTS	39	0.515212	1.608519	0.043388	0.146959	0.989	6,805
RODWELL_AGING_KIDNEY_UP	453	0.438615	1.60826	0.051485	0.146858	0.99	4,986
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12	282	0.375298	1.607312	0.019455	0.147464	0.99	5,872
REACTOME_NUCLEOTIDE_LIKE_PURINERGIC_RECEPTORS	15	0.607736	1.607178	0.026052	0.147283	0.99	1,967
ZHAN_MULTIPLE_MYELOMA_MS_UP	46	0.518594	1.605948	0.064516	0.148194	0.99	6,899
REACTOME_CD28_CO_STIMULATION	31	0.527227	1.605629	0.042	0.148226	0.99	5,974
REACTOME_NFAT_SIGNALS_DEATH_THROUGH_JNK	43	0.458127	1.60511	0.025391	0.148436	0.99	5,707
ST_T_CELL_SIGNAL_TRANSDUCTION	44	0.516071	1.603925	0.063707	0.149322	0.99	6,942
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_UP	32	0.525053	1.603876	0.03619	0.149048	0.99	7,669

HOQUE_METHYLATED_IN_CANCER	54	0.434501	1.603765	0.00994	0.148853	0.99	8,013
CHEBOTAEV_GR_TARGETS_UP	73	0.456945	1.603534	0.031746	0.148757	0.99	5,014
BIOCARTA_GPCR_PATHWAY	33	0.529236	1.602758	0.060547	0.14915	0.99	6,575
PID_THROMBIN_PAR1_PATHWAY	42	0.508226	1.602564	0.042169	0.149001	0.99	6,728
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_DN	54	0.494358	1.602027	0.051181	0.149224	0.99	6,640
RIZ_ERYTHROID_DIFFERENTIATION_HEMGN	31	0.451018	1.600733	0.017544	0.150183	0.991	6,596
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN	19	0.584809	1.599273	0.044061	0.151206	0.991	1,301
INGRAM_SHH_TARGETS_UP	119	0.430917	1.598288	0.038306	0.151888	0.991	4,331
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION GRANULOCYTE_DN	17	0.633109	1.597946	0.037109	0.151892	0.991	3,097
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_DN	20	0.686528	1.596943	0.060904	0.152564	0.991	4,910
ALONSO_METASTASIS_DN	24	0.547181	1.596651	0.024809	0.152556	0.992	4,270
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN	49	0.530033	1.595925	0.061753	0.153001	0.992	6,587
RIZ_ERYTHROID_DIFFERENTIATION_12HR	42	0.473126	1.595268	0.027559	0.153415	0.992	5,768
VALK_AML_CLUSTER_5	33	0.647191	1.59441	0.096509	0.154037	0.993	6,757
SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER	84	0.393264	1.592371	0.013972	0.155659	0.993	4,489
NABA_SECRETED_FACTORS	303	0.378166	1.59167	0.016162	0.156037	0.993	6,455
ONDER_CDH1_SIGNALING_VIA_CTNNB1	79	0.472935	1.5912	0.060484	0.156128	0.993	6,909
MA_MYELOID_DIFFERENTIATION_DN	43	0.45408	1.591193	0.030928	0.155808	0.993	5,603
WANG_SMARCE1_TARGETS_UP	269	0.475683	1.591147	0.067594	0.155525	0.993	6,776
REACTOME_OPIOID_SIGNALLING	73	0.440456	1.590398	0.037849	0.155889	0.993	6,805
SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER	28	0.536569	1.589976	0.031068	0.155974	0.993	7,170
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	112	0.430656	1.5888	0.031873	0.156804	0.993	6,051
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_UP	201	0.412168	1.588483	0.039761	0.156816	0.993	6,805
REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	48	0.45424	1.587678	0.021113	0.157218	0.993	6,805
GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP	39	0.482629	1.58644	0.037475	0.158052	0.993	3,433
REACTOME_GLUCAGON_TYPE_LIGAND_RECEPTORS	33	0.51933	1.585338	0.035714	0.158942	0.993	6,635
YAGI_AML_FAB_MARKERS	186	0.38548	1.585102	0.022358	0.158882	0.993	7,407
PID_RAS_PATHWAY	30	0.47032	1.584942	0.023346	0.158708	0.993	3,890
KEGG_GRAFT_VERSUS_HOST_DISEASE	37	0.661174	1.584098	0.083012	0.159228	0.993	6,820
KEGG_LEISHMANIA_INFECTION	70	0.536635	1.58359	0.081511	0.159361	0.993	6,488
PID_AMB2_NEUTROPHILS_PATHWAY	41	0.49646	1.582932	0.061508	0.15966	0.993	6,406
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_UP	182	0.417304	1.582205	0.041667	0.160082	0.993	7,030
KEGG_ALLOGRAFT_REJECTION	35	0.660072	1.580866	0.093385	0.161171	0.993	6,820
LENAOUR_DENDRITIC_CELL_MATURATION_UP	113	0.430296	1.580819	0.041584	0.160886	0.993	4,753
FRASOR_RESPONSE_TO ESTRADIOL_UP	37	0.509358	1.580751	0.058708	0.160618	0.993	5,412
ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_UP	82	0.456801	1.580481	0.045627	0.160542	0.993	4,390
BILBAN_B_CLL_LPL_UP	60	0.483271	1.579281	0.031936	0.161419	0.993	8,138
PID_EPFA_FWDPATHWAY	34	0.477888	1.578646	0.023622	0.161784	0.993	3,167
FERRANDO_LYL1_NEIGHBORS	15	0.611324	1.577658	0.051429	0.16249	0.993	5,961

COATES_MACROPHAGE_M1_VS_M2_UP	77	0.416014	1.577426	0.035225	0.162403	0.993	4,223
BIOCARTA_TNFR2_PATHWAY	18	0.611758	1.576453	0.047151	0.1631	0.993	6,322
BIOCARTA_PPARA_PATHWAY	56	0.446492	1.576307	0.035294	0.162931	0.993	6,575
KEGG_TYPE_I_DIABETES_MELLITUS	41	0.606039	1.575603	0.084337	0.163302	0.993	6,820
BIOCARTA_BAD_PATHWAY	24	0.50651	1.574386	0.025048	0.164237	0.993	6,575
GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_UP	18	0.532533	1.574104	0.042969	0.164223	0.993	4,646
BIOCARTA_CTLA4_PATHWAY	19	0.771997	1.573319	0.041502	0.164668	0.993	4,802
REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT	33	0.489869	1.57306	0.028513	0.164604	0.993	4,305
PID_THROMBIN_PAR4_PATHWAY	15	0.589522	1.572751	0.034	0.164548	0.993	5,217
PID_GLYPICAN_1PATHWAY	27	0.552065	1.572656	0.045635	0.164302	0.993	5,054
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_DN	22	0.532535	1.571941	0.041339	0.164705	0.993	6,450
PHESSSE_TARGETS_OF_APC_AND_MBD2_UP	20	0.527792	1.571411	0.040777	0.164901	0.993	5,294
REACTOME_AMINE_DERIVED_HORMONES	15	0.558351	1.570159	0.035644	0.165828	0.994	10,862
BIDUS_METASTASIS_DN	148	0.387162	1.569578	0.02045	0.166109	0.995	5,010
LUI_THYROID_CANCER_CLUSTER_2	40	0.424196	1.569269	0.023576	0.166097	0.995	3,067
BILBAN_B_CLL_LPL_DN	42	0.4938	1.568982	0.038306	0.16605	0.995	6,184
PID_CD40_PATHWAY	31	0.516675	1.568574	0.058491	0.166177	0.995	6,322
LIU_PROSTATE_CANCER_DN	458	0.436512	1.567664	0.062374	0.166754	0.995	6,776
WIERENGA_STAT5A_TARGETS_UP	201	0.393196	1.567397	0.035857	0.166713	0.995	5,201
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_DN	237	0.342379	1.567187	0.005825	0.166641	0.995	5,547
NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER	19	0.531992	1.565045	0.036468	0.168694	0.995	5,083
ASTON_MAJOR_DEPRESSIVE_DISORDER_DN	152	0.38654	1.564548	0.035088	0.168899	0.995	6,111
REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS	81	0.415348	1.564225	0.034694	0.168855	0.995	6,250
POOLA_INVASIVE_BREAST_CANCER_UP	278	0.501778	1.563687	0.093439	0.169088	0.995	5,009
CASORELLI_APL_SECONDARY_VS_DE_NOVO_UP	37	0.457719	1.563584	0.046465	0.168873	0.995	8,470
ZHENG_IL22_SIGNALING_DN	39	0.481073	1.563107	0.033399	0.169062	0.995	5,604
MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27ME3	125	0.375266	1.561779	0.007874	0.17009	0.995	4,402
VALK_AML_CLUSTER_11	36	0.488703	1.561329	0.050781	0.170284	0.996	6,076
MCCLUNG_CREB1_TARGETS_DN	54	0.44529	1.560959	0.04277	0.170349	0.996	6,528
HELLER_SILENCED_BY_METHYLATION_UP	271	0.402299	1.557978	0.061265	0.173151	0.996	4,392
GAVIN_PDE3B_TARGETS	22	0.568211	1.557076	0.06	0.173775	0.996	3,368
BIOCARTA_LONGEVITY_PATHWAY	15	0.579495	1.557066	0.049808	0.173452	0.996	3,175
MANTOVANI_NFKB_TARGETS_UP	42	0.450208	1.556928	0.051282	0.173235	0.996	3,557
REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES	33	0.504384	1.556305	0.030242	0.17355	0.996	3,537
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_DN	42	0.471242	1.556138	0.043393	0.1734	0.996	6,722
KAAB_HEART_ATRIUM_VS_VENTRICLE_UP	244	0.401338	1.556048	0.038306	0.173175	0.996	6,374
KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	88	0.44144	1.555581	0.084	0.173332	0.996	6,488
HAN_JNK_SINGALING_DN	37	0.492	1.55485	0.04845	0.17382	0.996	6,581
PID_NEPHRIN_NEPH1_PATHWAY	31	0.463296	1.55459	0.015936	0.173796	0.996	3,890

BORCZUK_MALIGNANT_MESOTHELIOMA_DN	100	0.416343	1.553281	0.042596	0.174856	0.996	3,662
REACTOME_AMINE_LIGAND_BINDING_RECEPTORS	30	0.484518	1.55211	0.02994	0.175797	0.996	4,344
VALK_AML_CLUSTER_4	27	0.475816	1.551761	0.023669	0.175825	0.996	2,688
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN	298	0.407005	1.551475	0.021696	0.175836	0.996	6,484
REACTOME_REGULATION_OF_INSULIN_SECRETION	88	0.439933	1.550816	0.05303	0.176222	0.996	6,660
SA_PTEN_PATHWAY	17	0.598491	1.550556	0.048964	0.176178	0.996	6,022
KEGG_ACUTE_MYELOID_LEUKEMIA	57	0.447604	1.550415	0.050584	0.17602	0.996	6,413
IVANOVA_HEMATOPOIESIS_STEM_CELL	238	0.361344	1.550257	0.017893	0.175837	0.996	6,769
REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZETA_CHAINS	15	0.805717	1.549173	0.036145	0.176715	0.996	1,627
YAGI_AML_WITH_11Q23_REARRANGED	331	0.36043	1.549008	0.020619	0.176577	0.996	6,832
STAEGE_EWING_FAMILY_TUMOR	30	0.493752	1.547417	0.041916	0.177917	0.996	9,041
ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP	461	0.335664	1.547202	0.015717	0.17782	0.997	7,087
BIOCARTA_IL2RB_PATHWAY	38	0.517726	1.546152	0.061386	0.178674	0.997	4,374
REACTOME_INWARDLY_RECTIFYING_K_CHANNELS	31	0.480118	1.546151	0.047438	0.178352	0.997	6,635
REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE	30	0.513822	1.545967	0.057087	0.17825	0.997	2,842
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	93	0.416875	1.545911	0.041502	0.177989	0.997	6,022
GRADE_COLON_CANCER_DN	30	0.50692	1.545803	0.045365	0.177789	0.997	3,692
REACTOME_NUCLEAR_SIGNALING_BY_ERBB4	35	0.483765	1.545686	0.034413	0.177614	0.997	5,192
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN	103	0.435125	1.545599	0.062745	0.177367	0.997	7,784
HUMMEL_BURKITTs_LYMPHOMA_UP	38	0.450312	1.545598	0.034205	0.177048	0.997	6,675
MIKKELSEN_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	199	0.353874	1.545343	0.016327	0.176989	0.997	6,470
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_6	28	0.460176	1.545263	0.026531	0.176772	0.997	2,530
HARRIS_BRAIN_CANCER_PROGENITORS	41	0.467114	1.544917	0.055777	0.17681	0.997	6,899
KONDO_EZH2_TARGETS	223	0.402979	1.544148	0.036437	0.177321	0.997	7,195
SILIGAN_BOUND_BY_EWS_FLT1_FUSION	44	0.483722	1.543643	0.03992	0.177564	0.997	8,325
SANSOM_APC_TARGETS_DN	353	0.385241	1.542865	0.055328	0.178037	0.997	6,581
MINGUEZ_LIVER_CANCER_VASCULAR_INVASION_DN	21	0.607417	1.542566	0.056093	0.177998	0.997	9,464
XU_GH1_EXOGENOUS_TARGETS_UP	69	0.401727	1.542463	0.021277	0.177796	0.997	5,618
BROWN_MYELOID_CELL_DEVELOPMENT_UP	152	0.446187	1.541787	0.09165	0.178161	0.997	6,878
ZHAN_MULTIPLE_MYELOMA_LB_UP	41	0.418588	1.541696	0.022901	0.177936	0.997	3,647
NIKOLSKY_BREAST_CANCER_19Q13.1_AMPLICON	22	0.757591	1.540499	0.071845	0.178893	0.997	5,889
REACTOME_ADP_SIGNALLING_THROUGH_P2RY12	21	0.549531	1.540326	0.059289	0.17875	0.997	6,635
LINDSTEDT_DENDRITIC_CELL_MATURATION_A	65	0.484495	1.53732	0.088409	0.18152	0.997	4,401
BOYLAN_MULTIPLE_MYELOMA_PCA3_UP	74	0.405425	1.537005	0.042471	0.181489	0.997	3,508
BIOCARTA_CTCF_PATHWAY	23	0.602601	1.536882	0.068053	0.181326	0.997	6,335
BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_UP	32	0.518719	1.536718	0.05364	0.18119	0.997	3,234
FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN	25	0.478316	1.536467	0.052104	0.181117	0.997	4,831
RAY_TARGETS_OF_P210_BCR_ABL_FUSION_DN	15	0.535105	1.535978	0.052	0.181308	0.997	4,773
KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	41	0.431503	1.535914	0.028626	0.181052	0.997	6,443

BONOME_OVARIAN_CANCER_SURVIVAL_SUBOPTIMAL_DEBULKING	484	0.33286	1.535787	0.031746	0.180889	0.997	4,307
MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3	324	0.36325	1.535754	0.040486	0.180594	0.997	6,367
DAIRKEE_TERT_TARGETS_DN	114	0.429294	1.535488	0.054475	0.180542	0.997	5,231
ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_UP	26	0.536167	1.534759	0.071138	0.180982	0.997	5,192
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_DN	34	0.51049	1.534596	0.077381	0.180859	0.997	8,428
ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP	62	0.45729	1.534508	0.056202	0.180636	0.997	3,589
FOSTER_TOLERANT_MACROPHAGE_UP	143	0.378319	1.533306	0.028571	0.18162	0.997	4,143
MIKKELSEN_MEF_HCP_WITH_H3_UNMETHYLATED	198	0.365888	1.533133	0.031873	0.181479	0.997	5,409
CADWELL_ATG16L1_TARGETS_UP	89	0.403576	1.532538	0.032193	0.181804	0.997	7,083
KIM_GLIS2_TARGETS_UP	83	0.526002	1.532306	0.081836	0.181731	0.997	6,563
ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP	423	0.343787	1.531355	0.026263	0.182429	0.997	6,885
BRIDEAU_IMPRINTED_GENES	62	0.42651	1.53078	0.033797	0.182664	0.997	6,454
WANG_TNF_TARGETS	21	0.539284	1.53067	0.053465	0.182458	0.997	6,322
FRIDMAN_IMMORTALIZATION_DN	33	0.509801	1.530536	0.059501	0.182304	0.997	5,800
REACTOME_G_PROTEIN_ACTIVATION	25	0.529498	1.530036	0.067961	0.18255	0.997	6,635
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN GRANULOCYTE_UP	15	0.53655	1.529961	0.05988	0.182323	0.997	1,301
MIKKELSEN_IPS_HCP_WITH_H3_UNMETHYLATED	65	0.428155	1.529462	0.040936	0.18257	0.997	5,159
REACTOME_NETRIN1_SIGNALING	38	0.476736	1.529204	0.05098	0.182541	0.997	2,595
KEGG_ABC_TRANSPORTERS	44	0.422822	1.529191	0.037549	0.182244	0.997	3,041
KATSANOUELAVL1_TARGETS_UP	164	0.354366	1.528848	0.017682	0.182325	0.997	6,176
SCHRAETS_MLL_TARGETS_DN	32	0.485954	1.528126	0.0611	0.182863	0.997	8,030
KONDO_PROSTATE_CANCER_HCP_WITH_H3K27ME3	87	0.399951	1.526566	0.035433	0.184235	0.997	6,062
FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_DN	28	0.465403	1.526471	0.050584	0.184019	0.997	5,509
LU_AGING_BRAIN_DN	149	0.416109	1.52599	0.065737	0.184242	0.997	5,246
GOLDRATH_IMMUNE_MEMORY	63	0.417454	1.525158	0.045908	0.184918	0.997	3,935
NIELSEN_LEIOMYOSARCOMA_CNN1_DN	20	0.576835	1.524605	0.086869	0.185266	0.997	7,598
BIOCARTA_PGC1A_PATHWAY	22	0.544148	1.524278	0.066116	0.18529	0.997	6,947
SIG_IL4RECEPTOR_IN_B_LYPHOCYTES	27	0.524508	1.524267	0.060665	0.184988	0.997	3,890
GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_DN	44	0.494143	1.523714	0.064453	0.18533	0.997	7,730
FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN	41	0.468279	1.523493	0.071006	0.185261	0.997	5,201
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_DN	19	0.473626	1.523365	0.042226	0.185075	0.997	5,426
PID_PDGFRA_PATHWAY	22	0.571601	1.521405	0.083845	0.186916	0.997	8,470
MOREIRA_RESPONSE_TO_TSA_DN	18	0.560046	1.520872	0.07451	0.187129	0.997	6,119
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP	178	0.406234	1.520872	0.060241	0.186822	0.997	7,596
KEGG_MAPK_SIGNALING_PATHWAY	258	0.34931	1.520202	0.024	0.187158	0.997	6,635
BIOCARTA_IL6_PATHWAY	22	0.539199	1.520155	0.079612	0.186881	0.997	4,228
CROONQUIST_NRAS_VS_STROMAL_STIMULATION_UP	39	0.474495	1.519959	0.05	0.186779	0.997	6,621
WANG_LSD1_TARGETS_DN	38	0.492829	1.519662	0.073218	0.186809	0.997	8,470

CORRE_MULTIPLE_MYELOMA_UP	65	0.436918	1.519155	0.066802	0.187017	0.997	2,242
GRESHOCK_CANCER_COPY_NUMBER_UP	316	0.377135	1.51899	0.041016	0.186866	0.997	6,099
ODONNELL_METASTASIS_UP	70	0.409972	1.518338	0.015534	0.187268	0.997	7,101
SHEN_SMARCA2_TARGETS_DN	303	0.338807	1.517974	0.00998	0.187344	0.997	5,195
NEWMAN_ERCC6_TARGETS_DN	36	0.504809	1.517574	0.083665	0.187464	0.997	6,450
GAVIN_FOXP3_TARGETS_CLUSTER_T4	88	0.446864	1.517473	0.04931	0.187252	0.997	2,902
PID_ENDOTHELIN_PATHWAY	63	0.424951	1.516645	0.061024	0.187828	0.997	5,409
MCGARVEY_SILENCED_BY_METHYLATION_IN_COLON_CANCER	39	0.464321	1.516308	0.058824	0.187891	0.997	7,076
VERNOCHET_ADIPOGENESIS	19	0.525499	1.51577	0.038462	0.188159	0.998	4,134
NAKAMURA_ADIPOGENESIS_EARLY_UP	60	0.475065	1.515671	0.086275	0.187959	0.998	7,949
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP	126	0.468036	1.51565	0.102161	0.18767	0.998	6,445
REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_RECEPTOR	23	0.500244	1.514601	0.057803	0.188477	0.998	6,635
GRAHAM_CML QUIESCENT_VS_CML_DIVIDING_UP	22	0.56527	1.513707	0.078585	0.189153	0.998	2,649
SHIN_B_CELL_LYMPHOMA_CLUSTER_2	28	0.462568	1.512156	0.067568	0.190494	0.998	2,834
BIOCARTA_NGF_PATHWAY	18	0.541437	1.51121	0.060429	0.191138	0.998	4,271
REACTOME_PD1_SIGNALING	17	0.769398	1.510935	0.060484	0.191124	0.998	4,802
ABDELMOHSEN_ELAVL4_TARGETS	15	0.617988	1.510889	0.077244	0.190868	0.998	5,128
BIOCARTA_CD40_PATHWAY	15	0.62097	1.510734	0.066532	0.190731	0.998	6,322
NIELSEN_SYNOVIAL_SARCOMA_DN	20	0.629483	1.510683	0.09697	0.190462	0.998	2,530
PID_IL6_7_PATHWAY	47	0.472659	1.509116	0.059961	0.191844	0.999	6,264
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP	148	0.400204	1.509086	0.070281	0.191577	0.999	7,030
MORI_IMMATURE_B_LYMPHOCYTE_UP	49	0.565591	1.508198	0.106557	0.192208	0.999	6,805
MULLIGHAN_MLL_SIGNATURE_2_DN	265	0.337719	1.507168	0.02549	0.192925	0.999	7,647
PID_RAC1_REG_PATHWAY	38	0.461591	1.507156	0.054902	0.192623	0.999	5,707
KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	18	0.486174	1.507055	0.046642	0.192437	0.999	2,005
REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON_Glutamate_BINDING	31	0.458233	1.506988	0.058	0.192218	0.999	6,635
KANG_GLIS3_TARGETS	37	0.569988	1.506441	0.129094	0.192464	0.999	8,110
STEIN_ESTROGEN_RESPONSE_NOT_VIA_ESRRA	18	0.503314	1.50619	0.062738	0.192417	0.999	3,466
REACTOME_SIGNAL_AMPLIFICATION	31	0.474913	1.505644	0.080868	0.192681	0.999	7,490
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_DN	42	0.59498	1.505602	0.10338	0.192418	0.999	8,023
OKUMURA_INFLAMMATORY_RESPONSE_LPS	169	0.368	1.505488	0.03992	0.192264	0.999	5,123
GRAHAM_NORMAL QUIESCENT_VS_NORMAL_DIVIDING_UP	65	0.44155	1.504274	0.074297	0.193318	0.999	2,950
REACTOME_INHIBITION_OF_VOLTAGE_GATED_CA2_CHANNELS_VIA_GBETA_GAMMA_SUBUNITS	25	0.471752	1.504135	0.045455	0.193199	0.999	4,252
REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_ADRENALINE_NORADRENALINE	25	0.496261	1.504118	0.070175	0.19291	0.999	6,635
DUAN_PRDM5_TARGETS	76	0.367162	1.5041	0.029762	0.192638	0.999	6,611
KORKOLA_YOLK_SAC_TUMOR	57	0.414908	1.504038	0.028355	0.192406	0.999	5,402

HENDRICKS_SMARCA4_TARGETS_DN	49	0.465089	1.503979	0.05336	0.192153	0.999	6,334
VALK_AML_CLUSTER_3	29	0.473685	1.503729	0.054717	0.192124	0.999	8,562
BIOCARTA_NTH1_PATHWAY	23	0.534071	1.503499	0.068762	0.192061	0.999	8,523
FIGUEROA_AML_METHYLATION_CLUSTER_2_UP	48	0.392028	1.503346	0.033088	0.19193	0.999	4,029
BIOCARTA_INFLAM_PATHWAY	26	0.533566	1.503249	0.085271	0.191741	0.999	8,836
BIOCARTA_EPO_PATHWAY	19	0.492159	1.502463	0.046693	0.192289	0.999	4,374
INGRAM_SHH_TARGETS_DN	57	0.433132	1.502454	0.057851	0.191999	0.999	5,420
PID_ER_NONGENOMIC_PATHWAY	41	0.483508	1.501192	0.057026	0.193123	0.999	5,217
REACTOME_SIGNALING_BY_SCF_KIT	75	0.408068	1.501101	0.057803	0.192938	0.999	6,022
BOYLAN_MULTIPLE_MYELOMA_PCA3_DN	66	0.403675	1.501089	0.039063	0.192654	0.999	3,424
PEDRIOLI_MIR31_TARGETS_UP	186	0.315899	1.500974	0.009579	0.192501	0.999	7,045
BASSO_HAIRY_CELL_LEUKEMIA_UP	79	0.450137	1.499367	0.099804	0.193917	0.999	6,380
DUTERTRE ESTRADIOL_RESPONSE_6HR_DN	90	0.425992	1.498721	0.041584	0.194356	0.999	4,563
BIOCARTA_HER2_PATHWAY	22	0.563075	1.498576	0.077519	0.194227	0.999	6,264
NABA_ECM_AFFILIATED	160	0.353268	1.497018	0.018072	0.195591	0.999	5,296
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM5	83	0.374656	1.496976	0.042553	0.195343	0.999	5,991
HELLER_HDAC_TARGETS_DN	279	0.367977	1.4962	0.055336	0.195926	0.999	3,642
FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_UP	85	0.403677	1.495966	0.067729	0.195879	0.999	4,773
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	49	0.487245	1.495403	0.101695	0.19619	0.999	8,474
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP	152	0.410658	1.494903	0.0818	0.196438	0.999	4,986
YAGI_AML_WITH_T_8_21_TRANSLOCATION	355	0.340403	1.494255	0.032323	0.196815	0.999	5,623
ZHANG_RESPONSE_TO_CANTHARIDIN_UP	19	0.537244	1.493043	0.081285	0.197766	0.999	8,285
GEORGANTAS_HSC_MARKERS	66	0.432742	1.493025	0.055556	0.197495	0.999	4,668
STEARMAN_TUMOR_FIELD_EFFECT_UP	34	0.527305	1.492832	0.105477	0.197412	0.999	4,611
BROWNE_HCMV_INFECTION_30MIN_UP	47	0.388076	1.492587	0.062626	0.197388	0.999	7,042
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP	392	0.397675	1.492497	0.08982	0.197196	0.999	5,303
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN	64	0.394348	1.492444	0.025641	0.196963	0.999	4,563
ROVERSI_GLIOMA_LOH_REGIONS	41	0.481867	1.491679	0.071006	0.197578	0.999	8,462
BROCKE_APOPTOSIS_REVERSED_BY_IL6	142	0.425183	1.490608	0.072692	0.198454	0.999	6,974
MIKKELSEN_IPS_ICP_WITH_H3K4ME3_AND_H327ME3	114	0.360441	1.490205	0.024793	0.198636	0.999	5,707
LEIN_ASTROCYTE_MARKERS	40	0.448258	1.489738	0.056795	0.198845	0.999	8,890
SCHRAETS_MLL_TARGETS_UP	35	0.490364	1.489486	0.079365	0.198824	0.999	1,809
PLASARI_NFIC_TARGETS_BASAL_UP	27	0.49673	1.488647	0.05653	0.199445	0.999	8,057
YAGI_AML_WITH_T_9_11_TRANSLOCATION	122	0.346715	1.488645	0.032755	0.199157	0.999	6,784
NIELSEN_GIST	93	0.430368	1.488359	0.092402	0.199188	0.999	7,062
RICKMAN_HEAD_AND_NECK_CANCER_D	35	0.505565	1.4876	0.07874	0.199731	0.999	3,433
SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_UP	161	0.426124	1.48751	0.087824	0.199557	0.999	4,994

BIOCARTA_KERATINOCYTE_PATHWAY	46	0.433679	1.485994	0.060241	0.200941	0.999	6,581
MARKEY_RB1_CHRONIC_LOF_DN	111	0.414433	1.485609	0.088889	0.201041	0.999	6,327
VALK_AML_CLUSTER_13	29	0.462295	1.485323	0.05653	0.201069	0.999	1,743
BIOCARTA_ACH_PATHWAY	16	0.499062	1.484966	0.05	0.201177	0.999	2,958
HOLLEMAN_VINCRIStINE_RESISTANCE_B_ALL_UP	37	0.43622	1.484612	0.051081	0.201293	0.999	5,987
WANG_NEOPLASTIC_TRANSFORMATION_BY_CCND1_MYC	21	0.509586	1.483743	0.068607	0.201941	0.999	3,988
MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_UP	63	0.429924	1.483705	0.05973	0.201692	0.999	3,747
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP	58	0.385578	1.482614	0.054108	0.202689	0.999	6,928
DURAND_STROMA_NS_UP	155	0.348849	1.482056	0.04008	0.203003	0.999	5,104
PID_TCPTP_PATHWAY	43	0.505437	1.48135	0.091262	0.203425	0.999	3,890
MULLIGHAN_MLL_SIGNATURE_1_DN	228	0.32291	1.481179	0.021569	0.203298	0.999	6,145
REACTOME_MYOGENESIS	22	0.528994	1.480241	0.100791	0.204039	0.999	7,633
BROWNE_HCMV_INFECTION_12HR_DN	96	0.407973	1.479588	0.062753	0.204434	0.999	5,926
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_UP	73	0.40294	1.479418	0.057199	0.204318	0.999	5,586
POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_DN	59	0.492124	1.479198	0.076	0.204263	0.999	5,420
SHI_SPARC_TARGETS_UP	24	0.465603	1.478005	0.055118	0.205302	0.999	5,201
REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PROSTACYCLIN_RECEPTOR	19	0.530801	1.477695	0.083984	0.205305	0.999	6,635
VERHAAK_AML_WITH_NPM1_MUTATED_UP	175	0.412138	1.47759	0.116327	0.205115	0.999	8,094
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN	132	0.370219	1.477369	0.062257	0.205086	0.999	4,500
MCCABE_BOUND_BY_HOXC6	381	0.296613	1.477364	0.009766	0.204801	0.999	3,792
FOSTER_TOLERANT_MACROPHAGE_DN	392	0.382738	1.476895	0.077689	0.205012	0.999	7,032
RICKMAN_HEAD_AND_NECK_CANCER_B	44	0.461916	1.47614	0.054108	0.205489	0.999	4,272
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	21	0.516581	1.475904	0.072407	0.205471	0.999	3,518
REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS	16	0.552267	1.475697	0.066536	0.205418	0.999	5,626
MCCLUNG_COCAINE_REWARD_5D	76	0.392971	1.475571	0.039448	0.205255	0.999	5,192
GABRIELY_MIR21_TARGETS	278	0.523579	1.47541	0.14902	0.205146	0.999	9,446
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP	102	0.385548	1.47381	0.074747	0.206567	0.999	6,015
HUANG_GATA2_TARGETS_UP	146	0.403104	1.473714	0.085487	0.206355	0.999	5,060
ROSS_AML_WITH_AML1_ETO_FUSION	73	0.362682	1.472125	0.041121	0.207811	0.999	2,771
PID_ALK1_PATHWAY	25	0.495912	1.471337	0.083333	0.208381	0.999	7,927
MIKKELSEN_NPC_LCP_WITH_H3K4ME3	51	0.382398	1.471262	0.044355	0.208183	0.999	4,969
BOYALT_LIVER_CANCER_SUBCLASS_G3_DN	49	0.457793	1.470779	0.092369	0.208388	0.999	1,308
VALK_AML_CLUSTER_6	33	0.44934	1.470308	0.066794	0.208575	0.999	6,909
BIOCARTA_CYTOKINE_PATHWAY	16	0.575788	1.469927	0.104854	0.208692	0.999	8,514
LINDSTEDT_DENDRITIC_CELL_MATURATION_B	53	0.484374	1.469892	0.127451	0.208427	0.999	4,862
REACTOME_DEVELOPMENTAL_BIOLOGY	377	0.346639	1.469875	0.059172	0.20817	0.999	6,858

AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G	92	0.423736	1.468769	0.084291	0.209085	0.999	8,133
SHIPP_DLBCL_CURED_VS_FATAL_UP	39	0.433051	1.468546	0.050302	0.209065	0.999	6,915
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	119	0.362547	1.468316	0.055227	0.209004	0.999	6,022
LENAOUR_DENDRITIC_CELL_MATURATION_DN	127	0.414022	1.467527	0.108384	0.209597	0.999	4,986
REACTOME_PLATELET_AGGREGATION_PLUG_FORMATION	35	0.441135	1.466358	0.06654	0.210587	0.999	4,600
IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	287	0.32837	1.465523	0.049407	0.211163	0.999	5,598
ZHOU_INFLAMMATORY_RESPONSE_LPS_UP	361	0.331085	1.464679	0.03012	0.211891	0.999	7,057
MIKKELSEN_NPC_ICP_WITH_H3K4ME3	414	0.31561	1.464287	0.042718	0.212046	0.999	4,905
DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_DN	20	0.480876	1.463776	0.079681	0.212359	0.999	3,557
JAATINEN_HEMATOPOIETIC_STEM_CELL_UP	293	0.357785	1.463671	0.078125	0.212192	0.999	6,694
UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN	36	0.572637	1.463585	0.144814	0.212001	0.999	6,596
TANG_SENESCENCE_TP53_TARGETS_UP	32	0.438296	1.463482	0.053537	0.211837	0.999	2,357
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLC_BETA	20	0.49534	1.461491	0.086172	0.213734	0.999	4,252
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	115	0.394248	1.461127	0.082218	0.213851	0.999	6,805
LANDIS_BREAST_CANCER_PROGRESSION_DN	69	0.425797	1.460828	0.114	0.213852	0.999	6,825
BIOCARTA_NO1_PATHWAY	29	0.480987	1.460785	0.086345	0.21361	0.999	6,575
LEE_TARGETS_OF_PTCH1_AND_SUFU_UP	49	0.408998	1.460667	0.059642	0.21343	0.999	6,641
KAYO_AGING_MUSCLE_UP	229	0.328808	1.458741	0.032129	0.215393	1	4,753
KEGG_VIRAL_MYOCARDITIS	68	0.452725	1.457999	0.112871	0.215954	1	4,237
ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_DN	47	0.445274	1.45739	0.08284	0.216317	1	3,207
VALK_AML_CLUSTER_16	24	0.480256	1.457375	0.072549	0.216049	1	4,366
ZHAN_LATE_DIFFERENTIATION_GENES_UP	33	0.468316	1.456762	0.081028	0.216431	1	2,889
FOSTER_KDM1A_TARGETS_UP	231	0.324183	1.455647	0.010121	0.217402	1	7,011
AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP	116	0.432846	1.455626	0.105769	0.217124	1	4,022
REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_GLUTAMATE_BINDING_AND_ACTIVATION	15	0.579619	1.455334	0.090226	0.217157	1	9,681
BROWNE_HCMV_INFECTION_48HR_UP	175	0.349625	1.454243	0.054852	0.218124	1	3,530
PID_CONE_PATHWAY	20	0.463379	1.454192	0.057312	0.217892	1	4,252
ROSS_ACUTE_MYELOID_LEUKEMIA_CBF	80	0.388564	1.453947	0.073359	0.217854	1	7,917
ENGELMANN_CANCER_PROGENITORS_UP	46	0.403803	1.453518	0.063745	0.218045	1	4,418
XU_GH1_EXOGENOUS_TARGETS_DN	112	0.374053	1.45248	0.05642	0.218893	1	7,390
FIRESTEIN_PROLIFERATION	167	0.332574	1.452349	0.033138	0.218753	1	4,383
DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_UP	55	0.393878	1.451606	0.059063	0.219323	1	6,454
PID_API_PATHWAY	69	0.415845	1.450981	0.10586	0.219667	1	7,014
BIOCARTA_TOLL_PATHWAY	37	0.454241	1.450442	0.110891	0.219961	1	6,488
BIOCARTA_STATHMIN_PATHWAY	18	0.551845	1.450244	0.111969	0.219911	1	6,947
TIAN_TNF_SIGNALING_VIA_NFKB	27	0.522113	1.449996	0.104126	0.219872	1	3,250
KYNG_DNA_DAMAGE_UP	219	0.3429	1.448531	0.062868	0.221151	1	5,457
KEGG_RENIN_ANGIOTENSIN_SYSTEM	17	0.547348	1.44667	0.089431	0.222898	1	7,014

CERIBELLI_PROMOTERS_INACTIVE_AND_BOUND_BY_NFY	29	0.439604	1.446063	0.059761	0.223311	1	6,095
ST_ADRENERGIC	36	0.453788	1.445596	0.08932	0.223582	1	6,022
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B	20	0.445878	1.445247	0.062124	0.223634	1	3,225
REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_GLUTAMATE_BINDING_AND_POSTSYNAPTIC_EVENTS	37	0.474424	1.444925	0.086372	0.223723	1	6,947
ABE_VEGFA_TARGETS	18	0.517652	1.444647	0.074803	0.223711	1	6,224
DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN	84	0.496153	1.444173	0.141748	0.223951	1	6,276
MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP	18	0.588213	1.443613	0.125253	0.224281	1	5,982
HOELZEL_NF1_TARGETS_UP	130	0.415828	1.443133	0.098039	0.224535	1	5,668
JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN	64	0.402771	1.443106	0.083665	0.224269	1	7,158
REACTOME_SIGNALING_BY_BMP	22	0.548121	1.442774	0.120079	0.224366	1	6,335
DAVICIONI_MOLECULAR_ARMS_VS_ERMS_UP	315	0.366864	1.442705	0.079208	0.224161	1	7,085
GOBERT_CORE_OLIGODENDROCYTE_DIFFERENTIATION	39	0.449776	1.442013	0.109615	0.224584	1	7,977
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN	222	0.357702	1.441988	0.102913	0.224329	1	6,093
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP	324	0.367853	1.441488	0.101626	0.224646	1	3,297
RUTELLA_RESPONSE_TO_HGF_UP	401	0.386407	1.439951	0.107287	0.226075	1	5,470
CARD_MIR302A_TARGETS	76	0.453952	1.439595	0.126953	0.22614	1	5,745
ZHENG_IL22_SIGNALING_UP	52	0.406929	1.439436	0.059761	0.22606	1	6,012
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP	248	0.340967	1.439298	0.056225	0.225939	1	7,012
VALK_AML_WITH_EVII	23	0.462497	1.438307	0.084778	0.226698	1	7,730
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN	102	0.432936	1.437995	0.102881	0.226759	1	6,587
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_UP	27	0.43059	1.437596	0.067669	0.226933	1	3,431
REACTOME_ADP_SIGNALLING_THROUGH_P2RY1	25	0.447873	1.437548	0.095517	0.226703	1	6,635
LI_INDUCED_T_TO_NATURAL_KILLER_UP	295	0.346224	1.436789	0.086957	0.227257	1	5,573
SIG_CHEMOTAXIS	43	0.444695	1.436686	0.091262	0.227064	1	6,269
CONRAD_STEM_CELL	38	0.393997	1.436635	0.04008	0.226827	1	5,254
ZHAN_MULTIPLE_MYELOMA_MF_UP	43	0.418074	1.43473	0.064327	0.228609	1	6,290
SAFFORD_T_LYMPHOCYTE_ANERGY	83	0.350962	1.434338	0.053678	0.228716	1	7,074
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	205	0.416048	1.433345	0.13189	0.229597	1	7,262
PID_ERBB4_PATHWAY	38	0.476854	1.432729	0.09018	0.230001	1	7,081
MEISSNER_NPC_HCP_WITH_H3K4ME2	464	0.300098	1.432117	0.034553	0.230424	1	5,256
ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	44	0.45413	1.431663	0.102161	0.230649	1	8,760
MCBRYAN_PUBERTAL_BREAST_6_7WK_UP	189	0.368388	1.430972	0.092885	0.231103	1	7,895
LANDIS_ERBB2_BREAST_TUMORS_65_DN	36	0.477637	1.430913	0.120408	0.230862	1	6,825
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	81	0.385017	1.430717	0.052209	0.230784	1	6,664
KEGG_NON_SMALL_CELL_LUNG_CANCER	54	0.406139	1.430482	0.079365	0.230721	1	3,890
ZHANG_TARGETS_OF_EWSR1_FLI1_FUSION	86	0.369303	1.430378	0.083821	0.230568	1	8,813
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP	165	0.54496	1.429902	0.181102	0.230855	1	6,695
SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_DN	17	0.47507	1.428972	0.101626	0.231585	1	1,031

REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	23	0.47184	1.427624	0.099808	0.23278	1	6,040
FALVELLA_SMOKERS_WITH_LUNG_CANCER	77	0.394792	1.427444	0.096118	0.232691	1	4,884
PID_IL2_PI3K_PATHWAY	34	0.481829	1.427084	0.113095	0.232807	1	5,974
MA_PITUITARY_FETAL_VS_ADULT_DN	19	0.526358	1.4242	0.109127	0.235761	1	9,343
MARKEY_RB1_ACUTE_LOF_DN	220	0.398837	1.423933	0.133733	0.235742	1	6,146
BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_DN	30	0.440297	1.423922	0.087954	0.235465	1	3,391
ST_WNT_CA2_CYCLIC_GMP_PATHWAY	19	0.462988	1.423907	0.072289	0.235183	1	7,011
LEE_TARGETS_OF_PTCH1_AND_SUFU_DN	82	0.390885	1.42194	0.086242	0.237183	1	7,441
GEISS_RESPONSE_TO_DSRNA_DN	15	0.488897	1.421454	0.085271	0.237419	1	4,083
ONDER_CDH1_TARGETS_3_UP	17	0.538562	1.421048	0.124	0.237585	1	3,468
CHEOK_RESPONSE_TO_MERCAPTOPURINE_DN	22	0.476221	1.420803	0.09405	0.237586	1	2,035
BIOCARTA_CARDIACEGF_PATHWAY	18	0.4947	1.42028	0.098969	0.237873	1	7,014
BIOCARTA_NFAT_PATHWAY	51	0.435667	1.419506	0.124249	0.238465	1	7,736
COWLING_MYCN_TARGETS	43	0.476567	1.419208	0.124744	0.238503	1	8,661
MATSUDA_NATURAL_KILLER_DIFFERENTIATION	460	0.329149	1.418486	0.056225	0.238998	1	6,492
KEGG_GAP_JUNCTION	88	0.380181	1.418149	0.080913	0.239107	1	6,805
HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN	70	0.362275	1.417649	0.056863	0.239424	1	4,083
HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP	76	0.423885	1.415677	0.104	0.241334	1	6,756
BIOCARTA_NOS1_PATHWAY	20	0.490261	1.415566	0.095602	0.241186	1	6,575
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_DN	54	0.360888	1.415512	0.037475	0.240959	1	4,646
HALMOS_CEBPA_TARGETS_UP	49	0.430897	1.415232	0.082278	0.241045	1	5,246
PID_REG_GR_PATHWAY	78	0.360145	1.414935	0.062136	0.241052	1	7,490
REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR	93	0.357284	1.414691	0.07014	0.241031	1	6,805
PID_REELIN_PATHWAY	29	0.448583	1.414283	0.098266	0.241191	1	3,533
MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_UP	20	0.484936	1.41257	0.10352	0.24286	1	8,427
WESTON_VEGFA_TARGETS_3HR	70	0.39743	1.412114	0.085366	0.243078	1	4,632
NAKAMURA_ADIPOGENESIS_LATE_UP	98	0.376416	1.411149	0.100806	0.243989	1	6,076
SHAFFER_IRF4_MULTIPLE_MYELOMA_PROGRAM	35	0.474268	1.41072	0.108738	0.244197	1	5,215
GENTILE_UV_RESPONSE_CLUSTER_D5	37	0.450668	1.410127	0.107356	0.244584	1	6,093
PID_AR_TF_PATHWAY	52	0.423019	1.409693	0.114754	0.244768	1	7,612
RICKMAN_HEAD_AND_NECK_CANCER_F	52	0.479755	1.407084	0.114108	0.247558	1	5,000
TSENG_ADIPOGENIC_POTENTIAL_DN	44	0.445475	1.40689	0.11753	0.247486	1	6,722
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_UP	113	0.369876	1.405426	0.086519	0.248869	1	5,407
SEKI_INFLAMMATORY_RESPONSE_LPS_DN	20	0.450589	1.404631	0.079755	0.249467	1	5,354
TSUNODA_CISPLATIN_RESISTANCE_UP	15	0.528798	1.403541	0.157303	0.250371	1	5,796
REACTOME_CELL_DEATH_SIGNALLING_VIA_NRAGE_NRIF_AND_NADE	58	0.356201	1.403468	0.073267	0.250156	1	4,271
BONCI_TARGETS_OF_MIR15A_AND_MIR16_1	88	0.417523	1.403079	0.116601	0.250277	1	7,547
HOSHIDA_LIVER_CANCER_SURVIVAL_UP	72	0.370578	1.402655	0.090373	0.250478	1	4,884

CHANDRAN_METASTASIS_DN	288	0.344522	1.402356	0.09776	0.25052	1	6,306
LOPES_METHYLATED_IN_COLON_CANCER_UP	26	0.450005	1.402265	0.061753	0.250324	1	7,170
BIOCARTA_TALL1_PATHWAY	15	0.554012	1.40223	0.105159	0.250074	1	5,040
KIM_GERMINAL_CENTER_T_HELPER_DN	23	0.498685	1.401731	0.128788	0.250402	1	6,596
BIOCARTA_AKT_PATHWAY	22	0.474409	1.401639	0.122736	0.250226	1	6,322
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	67	0.368752	1.401592	0.074747	0.249988	1	8,138
PID_S1P_S1P3_PATHWAY	29	0.498099	1.40082	0.14786	0.25063	1	5,217
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_DN	39	0.409156	1.40026	0.099222	0.250996	1	4,351
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	89	0.384857	1.399887	0.121807	0.251177	1	8,661
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_DN	124	0.335048	1.399392	0.057082	0.251453	1	6,448
PID_LYSOPHOSPHOLIPID_PATHWAY	65	0.385344	1.398714	0.104418	0.251981	1	5,217
KINSEY_TARGETS_OF_EWSR1_FLI1_FUSION_DN	310	0.346623	1.39833	0.113725	0.252083	1	6,587
RODRIGUES_DCC_TARGETS_DN	118	0.384279	1.397329	0.112205	0.252975	1	6,413
MIKKELSEN_NPC_HCP_WITH_H3K27ME3	314	0.321833	1.396546	0.059305	0.253623	1	6,598
PID_ANGIOPOIETIN_RECEPTOR_PATHWAY	50	0.436329	1.39594	0.13035	0.254076	1	8,010
SCHRAMM_INHBA_TARGETS_DN	23	0.491805	1.395625	0.09761	0.254175	1	7,986
MIKKELSEN_IPS_WITH_HCP_H3K27ME3	90	0.367036	1.395575	0.058	0.25393	1	8,056
LINDVALL_IMMORTALIZED_BY_TERT_UP	73	0.399461	1.394201	0.114286	0.255362	1	5,630
REACTOME_TIE2_SIGNALING	17	0.496851	1.393045	0.113772	0.256377	1	5,974
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN	158	0.441984	1.392883	0.159274	0.256272	1	7,522
KEGG_INOSITOL_PHOSPHATE_METABOLISM	54	0.382971	1.392815	0.092702	0.256068	1	4,348
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	67	0.442294	1.392677	0.12024	0.255918	1	4,783
SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_1	395	0.297617	1.392413	0.049407	0.255901	1	6,644
CHANGOLKAR_H2AFY_TARGETS_DN	38	0.41343	1.391964	0.102204	0.256071	1	6,831
LI_CISPLATIN_RESISTANCE_DN	30	0.438835	1.391305	0.082996	0.256556	1	8,064
THUM_MIR21_TARGETS_HEART_DISEASE_UP	16	0.673538	1.391292	0.145418	0.256269	1	6,559
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP	201	0.322845	1.391138	0.062112	0.25615	1	5,768
FERRANDO_TAL1_NEIGHBORS	21	0.532768	1.390847	0.159596	0.256202	1	758
TRAYNOR_RETT_SYNDROM_UP	40	0.459675	1.390722	0.116371	0.256049	1	6,909
ROY_WOUND_BLOOD_VESSEL_UP	49	0.487319	1.39056	0.18146	0.255916	1	5,420
DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN	80	0.467983	1.389779	0.174757	0.25656	1	8,202
GUO_HEX_TARGETS_DN	63	0.38968	1.389682	0.127701	0.25637	1	2,885
WIELAND_UP_BY_HBV_INFECTION	98	0.507475	1.389303	0.204322	0.256516	1	5,264
JI_CARCINOGENESIS_BY_KRAS_AND_STK11_DN	17	0.634488	1.388909	0.177419	0.256659	1	11,168
PID_CDC42_REG_PATHWAY	30	0.435184	1.388844	0.111111	0.25645	1	5,395
LEE_INTRATHYMIC_T_PROGENITOR	19	0.460089	1.388712	0.108055	0.256309	1	2,288
GOZGIT_ESR1_TARGETS_UP	137	0.330035	1.388025	0.046748	0.256808	1	6,583
MATZUK_SPERMATOGONIA	22	0.434352	1.386495	0.093933	0.258293	1	6,722
BIOCARTA_CREB_PATHWAY	26	0.480088	1.385674	0.132265	0.258987	1	7,490

GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	175	0.364712	1.385362	0.11976	0.259087	1	6,954
VANASSE_BCL2_TARGETS_UP	37	0.426603	1.385148	0.102616	0.259045	1	8,319
PID_FGF_PATHWAY	53	0.381483	1.384127	0.117761	0.259915	1	6,022
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP	172	0.375483	1.384119	0.139165	0.259632	1	8,524
MCDOWELL_ACUTE_LUNG_INJURY_DN	47	0.410878	1.383749	0.086172	0.25978	1	8,681
KIM_MYCN_AMPLIFICATION_TARGETS_UP	89	0.346716	1.383239	0.092308	0.260052	1	4,266
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_DN	151	0.327871	1.382983	0.078156	0.260085	1	3,702
KORKOLA_TERATOMA_UP	16	0.540047	1.381804	0.158513	0.261174	1	4,160
BROWNE_HCMV_INFECTION_8HR_UP	100	0.371122	1.381546	0.102881	0.261208	1	6,626
FIGUEROA_AML_METHYLATION_CLUSTER_4_DN	15	0.492698	1.379457	0.105788	0.263396	1	5,570
REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2_	80	0.398946	1.379058	0.118343	0.263575	1	3,813
PID_INTEGRIN_CS_PATHWAY	26	0.516839	1.378643	0.149901	0.263789	1	4,490
SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP	154	0.386835	1.377981	0.124224	0.264331	1	5,603
FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_UP	21	0.52799	1.377323	0.142857	0.264753	1	2,077
GROSS_ELK3_TARGETS_UP	27	0.458942	1.375531	0.12766	0.266621	1	2,357
IKEDA_MIR30_TARGETS_UP	112	0.481069	1.374652	0.194831	0.267372	1	6,807
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_DN	49	0.40996	1.373857	0.111332	0.267971	1	5,314
TAVOR_CEBPA_TARGETS_UP	48	0.4291	1.37258	0.1417	0.269166	1	4,351
NADLER_OBESITY_UP	60	0.47528	1.372355	0.182365	0.269127	1	5,844
ROSS_AML_WITH_PML_RARA_FUSION	73	0.378704	1.371794	0.106178	0.269514	1	2,521
STEGER_ADIPOGENESIS_DN	25	0.553061	1.371341	0.194389	0.269809	1	7,598
DING_LUNG_CANCER_BY_MUTATION_RATE	20	0.447106	1.371164	0.115607	0.2697	1	5,707
VALK_AML_CLUSTER_9	34	0.414963	1.370395	0.122605	0.270336	1	5,133
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_UP	67	0.573798	1.370282	0.197183	0.270158	1	9,777
VALK_AML_WITH_CEBPA	36	0.410567	1.370275	0.090535	0.269864	1	8,551
NAKAJIMA_MAST_CELL	46	0.414694	1.369709	0.1222	0.270243	1	4,978
KEGG_GLIOMA	65	0.377316	1.36955	0.117647	0.270161	1	6,947
SU_KIDNEY	15	0.534434	1.36875	0.139165	0.270806	1	7,011
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH	63	0.389146	1.368643	0.126733	0.270629	1	6,086
ST_JNK_MAPK_PATHWAY	39	0.407816	1.368368	0.141221	0.270636	1	7,266
ZHAN_MULTIPLE_MYELOMA_HP_UP	45	0.41839	1.368162	0.168932	0.270572	1	6,948
ZHU_SKIL_TARGETS_UP	20	0.51483	1.367832	0.15261	0.270672	1	1,838
BURTON_ADIPOGENESIS_9	90	0.380929	1.367807	0.146293	0.270397	1	6,807
PETROVA_PROX1_TARGETS_DN	62	0.447544	1.367504	0.162835	0.270469	1	6,829
NIELSEN_SCHWANNOMA_DN	15	0.576408	1.367172	0.169661	0.270569	1	7,949
LEIN_PONS_MARKERS	82	0.362298	1.366973	0.09144	0.270499	1	4,861
MOHANKUMAR_HOXA1_TARGETS_DN	169	0.327164	1.366506	0.069672	0.270781	1	4,267
PETRETTO_CARDIAC_HYPERTROPHY	33	0.517854	1.366128	0.193613	0.270885	1	6,463
KEGG_VEGF_SIGNALING_PATHWAY	73	0.334341	1.365268	0.088063	0.271537	1	5,259

BIOCARTA_EDG1_PATHWAY	27	0.451975	1.364406	0.152174	0.272242	1	6,022
ST_MYOCYTE_AD_PATHWAY	26	0.445703	1.364154	0.104651	0.272248	1	6,614
BROWNE_HCMV_INFECTION_48HR_DN	474	0.296568	1.363918	0.085317	0.272241	1	6,316
ROZANOV_MMP14_TARGETS_UP	256	0.336344	1.363504	0.119522	0.272445	1	6,917
RIGGI_EWING_SARCOMA_PROGENITOR_DN	175	0.392146	1.362923	0.174699	0.272812	1	5,420
REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	77	0.435834	1.362895	0.146091	0.27256	1	4,490
MCCLUNG_CREB1_TARGETS_UP	95	0.351358	1.362404	0.108	0.272815	1	4,369
CHANG_POU5F1_TARGETS_UP	15	0.512129	1.362335	0.162551	0.272597	1	5,061
RODRIGUES_NTN1_TARGETS_UP	16	0.5333	1.361757	0.157895	0.273003	1	6,354
WESTON_VEGFA_TARGETS	104	0.385295	1.361721	0.127016	0.272758	1	6,109
YAN_ESCAPE_FROM_ANOIKIS	24	0.526156	1.361372	0.182927	0.272865	1	8,208
TSAI_RESPONSE_TO_RADIATION_THERAPY	32	0.477616	1.360173	0.167323	0.274066	1	6,370
KEGG_ERBB_SIGNALING_PATHWAY	86	0.364668	1.359976	0.098837	0.274002	1	4,769
ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_DN	48	0.382157	1.359608	0.09002	0.274136	1	7,032
OUYANG_PROSTATE_CANCER_PROGRESSION_UP	19	0.473123	1.359482	0.150198	0.273985	1	9,642
MIKKELSEN_MEF_ICP_WITH_H3K27ME3	179	0.318889	1.358726	0.079681	0.274559	1	6,789
LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN	31	0.396557	1.358551	0.084314	0.274473	1	5,201
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN	72	0.390792	1.358501	0.126	0.27424	1	6,800
HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_DN	45	0.357483	1.357525	0.099206	0.275055	1	4,413
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_DN	47	0.389769	1.357471	0.108434	0.274839	1	6,369
ST_INTERLEUKIN_4_PATHWAY	26	0.446739	1.356935	0.135922	0.275179	1	3,890
TOMLINS_PROSTATE_CANCER_DN	40	0.527943	1.356893	0.175889	0.27494	1	8,423
FIGUEROA_AML_METHYLATION_CLUSTER_6_UP	127	0.299686	1.356805	0.064516	0.274743	1	4,898
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	241	0.356523	1.356422	0.158635	0.274897	1	4,512
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	60	0.395653	1.355709	0.145914	0.2755	1	6,322
KEGG_TGF_BETA_SIGNALING_PATHWAY	85	0.390024	1.355259	0.159274	0.275721	1	8,010
CLIMENT_BREAST_CANCER_COPY_NUMBER_UP	23	0.428233	1.355004	0.102273	0.275737	1	2,495
REACTOME_AXON_GUIDANCE	240	0.355486	1.353924	0.118609	0.276768	1	6,858
PARK_APL_PATHOGENESIS_DN	48	0.431689	1.353408	0.138365	0.277144	1	4,228
REACTOME_SIGNALING_BY_FGFR	105	0.334635	1.352678	0.109562	0.277709	1	6,022
KEGG_PRION_DISEASES	34	0.442515	1.352464	0.133462	0.277651	1	6,478
PID_IL3_PATHWAY	25	0.443931	1.352184	0.136719	0.277699	1	1,635
WESTON_VEGFA_TARGETS_6HR	57	0.407247	1.352048	0.156863	0.277581	1	6,109
BIOCARTA_GLEEVEC_PATHWAY	23	0.446229	1.352037	0.145833	0.277303	1	3,890
ABE_VEGFA_TARGETS_30MIN	28	0.441875	1.35121	0.134653	0.278046	1	6,224
CROONQUIST_IL6_DEPRIVATION_UP	20	0.465408	1.351196	0.121514	0.277768	1	5,009
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_UP	18	0.498785	1.351084	0.150602	0.277601	1	3,491
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN	127	0.437412	1.351005	0.192	0.277411	1	6,251
REACTOME_OTHER_SEMAPHORIN_INTERACTIONS	15	0.511193	1.350898	0.166667	0.277241	1	8,430

PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP	51	0.463842	1.350384	0.194672	0.277565	1	6,246
NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICON	20	0.535084	1.349986	0.181637	0.277763	1	9,673
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_DN	18	0.441835	1.349572	0.140787	0.277968	1	6,314
HEIDENBLAD_AMPLICON_12P11_12_UP	32	0.426	1.349088	0.15739	0.278254	1	4,076
BIOCARTA_GCR_PATHWAY	19	0.483557	1.348628	0.170172	0.278541	1	6,365
PID_PDGFRB_PATHWAY	128	0.384024	1.347612	0.164659	0.279552	1	4,884
REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_ANIONS_AND_AMINO_ACIDS_OLIGOPEPTIDES	91	0.346387	1.346516	0.068548	0.280606	1	5,764
KEGG_DILATED_CARDIOMYOPATHY	89	0.380417	1.346461	0.141988	0.280369	1	8,499
CROONQUIST_STROMAL_STIMULATION_UP	58	0.438789	1.34617	0.21	0.280435	1	8,714
MEISSNER_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	135	0.309312	1.345551	0.083499	0.280923	1	6,470
KEGG_GNRH_SIGNALING_PATHWAY	98	0.319664	1.345493	0.069721	0.280695	1	7,598
SENESE_HDAC2_TARGETS_DN	118	0.359639	1.345417	0.150515	0.280493	1	8,057
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2	80	0.305545	1.344825	0.05653	0.28095	1	5,159
ZHAN_MULTIPLE_MYELOMA_CD1_UP	44	0.394673	1.344757	0.111324	0.280743	1	5,539
WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_UP	21	0.492431	1.344475	0.168627	0.280822	1	9,551
BURTON_ADIPOGENESIS_PEAK_AT_0HR	61	0.404043	1.342917	0.151822	0.282459	1	6,807
MCBRYAN_PUBERTAL_BREAST_3_4WK_DN	34	0.391235	1.342758	0.112426	0.282374	1	6,548
REACTOME_TOLL_RECEPTOR_CASCADES	114	0.349921	1.341997	0.138614	0.283027	1	6,488
LIU_VAV3_PROSTATE_CARCINOGENESIS_DN	16	0.493198	1.340968	0.141491	0.28397	1	3,596
MCCLUNG_DELTA_FOSB_TARGETS_2WK	44	0.400568	1.340634	0.128968	0.284071	1	5,243
REACTOME_NEF_MEDIATES_DOWN_MODULATION_OF_CELL_SURFACE_RECEPTORS_BY_RECRUITING_THEM_TO_CLATHRIN_ADAPTERS	21	0.447516	1.340343	0.163636	0.284114	1	370
MATZUK_CENTRAL_FOR_FEMALE_FERTILITY	27	0.408066	1.340324	0.123753	0.28385	1	5,146
REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSTREAM_EVENTS	15	0.472728	1.339371	0.130604	0.284749	1	7,948
STAMBOLSKY_TARGETS_OF_MUTATED_TP53_UP	48	0.380198	1.33931	0.132576	0.284521	1	5,811
CERVERA_SDHB_TARGETS_1_UP	111	0.341075	1.338681	0.109054	0.284976	1	6,690
HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	33	0.417675	1.337899	0.145418	0.285645	1	8,563
MIKKELSEN_MEF_ICP_WITH_H3K4ME3_AND_H3K27ME3	37	0.418832	1.337654	0.147573	0.285643	1	3,336
STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP	77	0.376691	1.337293	0.120079	0.285806	1	5,715
LIN_NPAS4_TARGETS_DN	62	0.357381	1.337263	0.116959	0.285565	1	6,014
HOSHIDA_LIVER_CANCER_SUBCLASS_S1	235	0.390295	1.337188	0.185714	0.285366	1	6,198
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_UP	57	0.337208	1.337074	0.084453	0.285227	1	6,377
ST_INTEGRIN_SIGNALING_PATHWAY	80	0.390331	1.337071	0.146484	0.284946	1	3,890
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	66	0.358431	1.336741	0.11332	0.285096	1	6,909
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_DN	89	0.329617	1.335766	0.076	0.285975	1	3,242
PID_HEDGEHOG_2PATHWAY	21	0.446649	1.33451	0.145161	0.287147	1	6,058
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP	383	0.267554	1.3344	0.054795	0.287006	1	6,847
BROWNE_HCMV_INFECTION_10HR_UP	95	0.339606	1.334193	0.11412	0.286984	1	4,592

MIKKELSEN_MEF_LCP_WITH_H3K4ME3	117	0.342468	1.333825	0.10084	0.287136	1	4,738
STAMBOLSKY_BOUND_BY_MUTATED_TP53	17	0.428365	1.333824	0.119522	0.286848	1	1,102
SWEET_KRAS_TARGETS_UP	80	0.410978	1.333529	0.177291	0.286942	1	7,899
VALK_AML_WITH_FLT3_ITD	37	0.389702	1.332733	0.13189	0.287665	1	4,141
MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP	24	0.460405	1.332053	0.199597	0.288207	1	6,897
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN	49	0.415262	1.331071	0.178	0.289131	1	5,764
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	442	0.404308	1.330936	0.207031	0.288991	1	7,927
IGLESIAS_E2F_TARGETS_UP	149	0.400782	1.330445	0.179283	0.289334	1	5,327
PARK_TRETINOIN_RESPONSE_AND_PML_RARA_FUSION	29	0.469106	1.330192	0.196787	0.289334	1	6,413
HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP	22	0.406873	1.329268	0.11002	0.290218	1	4,066
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_DN	66	0.364439	1.328091	0.102767	0.291333	1	6,756
NELSON_RESPONSE_TO_ANDROGEN_DN	18	0.454012	1.325065	0.159274	0.294717	1	5,306
REACTOME_ENDOGENOUS_STEROLS	15	0.490464	1.324807	0.156436	0.294732	1	5,048
PID_ERB_GENOMIC_PATHWAY	15	0.437852	1.324335	0.152672	0.295002	1	5,119
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN	36	0.534064	1.324307	0.240705	0.294737	1	6,986
REACTOME_INNATE_IMMUNE_SYSTEM	219	0.335799	1.323716	0.142285	0.295165	1	6,022
SENESE_HDAC1_AND_HDAC2_TARGETS_DN	211	0.336151	1.323349	0.150101	0.295316	1	6,885
REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EGFR	18	0.4573	1.323024	0.166987	0.29541	1	3,890
WHITEHURST_PACLITAXEL_SENSITIVITY	36	0.38245	1.321641	0.121622	0.29684	1	7,838
FIGUEROA_AML_METHYLATION_CLUSTER_6_DN	30	0.384433	1.320451	0.122951	0.297953	1	5,486
ROSS_AML_OF_FAB_M7_TYPE	65	0.352398	1.320275	0.118474	0.297889	1	6,102
PID_EPHRINB_REV_PATHWAY	30	0.421085	1.320088	0.152642	0.297822	1	4,802
BROWNE_HCMV_INFECTION_6HR_DN	154	0.355789	1.319948	0.191651	0.297672	1	8,044
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP	177	0.358664	1.319711	0.176238	0.297667	1	5,289
ZIRN_TRETINOIN_RESPONSE_WT1_UP	22	0.453132	1.319321	0.154599	0.297843	1	6,294
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP	100	0.393708	1.319138	0.180233	0.297761	1	7,129
WU_HBX_TARGETS_2_DN	16	0.478764	1.318873	0.146667	0.2978	1	8,571
SERVITJA_LIVER_HNF1A_TARGETS_DN	150	0.330047	1.318686	0.130261	0.29773	1	7,038
SMIRNOV_RESPONSE_TO_IR_6HR_DN	109	0.394303	1.318439	0.174089	0.297745	1	2,649
KEGG_DORSO_VENTRAL_AXIS_FORMATION	24	0.435388	1.317372	0.150495	0.298744	1	7,056
REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	27	0.436343	1.317296	0.153101	0.298535	1	3,890
PID_ARF6_TRAFFICKING_PATHWAY	49	0.387018	1.316371	0.129094	0.299406	1	3,639
BROWNE_HCMV_INFECTION_30MIN_DN	138	0.314739	1.316128	0.087649	0.299387	1	7,170
BIOCARTA_MET_PATHWAY	37	0.452487	1.315431	0.209486	0.299961	1	3,890
LU_AGING_BRAIN_UP	253	0.357416	1.315135	0.183267	0.30002	1	7,015
DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOIDS	21	0.481052	1.313645	0.196819	0.301527	1	10,141
KYNG_DNA_DAMAGE_BY_GAMMA_RADIATION	79	0.359922	1.313614	0.157676	0.301274	1	7,094
BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_48HR_UP	18	0.419302	1.313375	0.116232	0.301288	1	3,530
GRANDVAUX_IRF3_TARGETS_DN	19	0.47587	1.312895	0.156	0.301576	1	6,024

BIOCARTA_NKCELLS_PATHWAY	20	0.48509	1.312861	0.206564	0.301329	1	5,974
WANG_THOC1_TARGETS_DN	18	0.456621	1.311519	0.161885	0.302643	1	2,790
SA_TRKA_RECEPTOR	17	0.47438	1.311236	0.154135	0.302689	1	4,271
REACTOME_COMPLEMENT_CASCADE	28	0.458823	1.310757	0.174157	0.302996	1	8,039
AFFAR_YY1_TARGETS_UP	203	0.296085	1.310695	0.096457	0.302776	1	6,228
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_DN	57	0.359461	1.310493	0.143403	0.302724	1	4,927
HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR	17	0.524076	1.310465	0.2167	0.302465	1	7,667
WANG_RESPONSE_TO_BEXAROTENE_DN	29	0.444071	1.30999	0.167665	0.302765	1	5,038
KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	125	0.344244	1.308812	0.15	0.303974	1	7,596
REACTOME_INFLAMMASOMES	16	0.506035	1.308563	0.201961	0.304016	1	2,527
GYORFFY_DOXORUBICIN_RESISTANCE	51	0.369492	1.308395	0.162218	0.303924	1	4,856
HOOI_ST7_TARGETS_DN	115	0.311222	1.308163	0.122047	0.30393	1	7,616
HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP	174	0.334865	1.307318	0.157895	0.304729	1	6,463
MAHADEVAN_IMATINIB_RESISTANCE_UP	19	0.470505	1.307246	0.18125	0.304536	1	6,589
PID_TOLL_ENDOGENOUS_PATHWAY	25	0.434418	1.306905	0.160569	0.304642	1	6,890
KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	67	0.451228	1.306752	0.235067	0.304533	1	6,509
BIOCARTA_FMLP_PATHWAY	36	0.408295	1.306724	0.184426	0.304284	1	6,322
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP	74	0.443174	1.306474	0.206478	0.304313	1	8,947
BROWNE_HCMV_INFECTION_8HR_DN	46	0.380175	1.306251	0.159136	0.30429	1	6,413
BOYLAN_MULTIPLE_MYELOMA_D_DN	72	0.344606	1.306039	0.128898	0.304275	1	4,019
TCGA_GLIOMASTOMA_COPY_NUMBER_DN	30	0.445987	1.305318	0.188641	0.304908	1	7,916
REACTOME_NCAM1_INTERACTIONS	38	0.440956	1.305156	0.179074	0.304828	1	8,552
COATES_MACROPHAGE_M1_VS_M2_DN	73	0.33323	1.303988	0.11002	0.306023	1	6,847
MULLIGHAN_NPM1_SIGNATURE_3_DN	156	0.300513	1.303661	0.117083	0.306138	1	3,771
PECE_MAMMARY_STEM_CELL_DN	132	0.391545	1.303455	0.209016	0.306093	1	5,420
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_DN	74	0.453869	1.303339	0.254032	0.305951	1	7,019
BROWNE_HCMV_INFECTION_24HR_DN	143	0.353892	1.302017	0.178947	0.307296	1	6,956
GRABARCZYK_BCL11B_TARGETS_DN	53	0.384446	1.301314	0.161165	0.307847	1	5,281
KASLER_HDAC7_TARGETS_1_UP	187	0.320327	1.301272	0.146535	0.307598	1	4,193
KEGG_HEDGEHOG_SIGNALING_PATHWAY	53	0.365128	1.300375	0.135699	0.308414	1	6,873
TSENG_IRS1_TARGETS_DN	131	0.329488	1.299755	0.146825	0.308877	1	6,722
BIOCARTA_MYOSIN_PATHWAY	31	0.412662	1.299187	0.14257	0.309279	1	6,269
BONOME_OVARIAN_CANCER_SURVIVAL_OPTIMAL_DEBULKING	227	0.29253	1.298364	0.107071	0.310009	1	5,788
RAO_BOUND_BY_SALL4_ISOFORM_A	154	0.325978	1.297831	0.14741	0.310402	1	7,656
PAL_PRMT5_TARGETS_DN	27	0.386124	1.296914	0.15458	0.311322	1	4,083
KEGG_MELANOGENESIS	99	0.320467	1.296771	0.117647	0.311217	1	6,950
WONG_IFNA2_RESISTANCE_UP	15	0.443388	1.296725	0.149312	0.310986	1	3,973
KEGG_LONG_TERM_POTENTIATION	67	0.364534	1.29607	0.152918	0.311473	1	6,947
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	248	0.358249	1.295527	0.194831	0.311823	1	7,170

BIOCARTA_ALK_PATHWAY	36	0.398577	1.295274	0.196117	0.311876	1	8,096
LIAN_NEUTROPHIL_GRANULE_CONSTITUENTS	23	0.461863	1.294269	0.194389	0.312825	1	5,812
BROWNE_HCMV_INFECTION_16HR_DN	84	0.344729	1.294024	0.154309	0.312843	1	6,388
GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_UP	165	0.301981	1.293411	0.176125	0.313384	1	6,492
PID_CXCR3_PATHWAY	43	0.391862	1.29318	0.164969	0.31339	1	6,364
ZHAN_MULTIPLE_MYELOMA_LB_DN	36	0.4449	1.290758	0.231939	0.316186	1	5,921
RAMASWAMY_METASTASIS_DN	59	0.363034	1.290533	0.133072	0.316193	1	4,987
KAMIKUBO_MYELOID_CEBPA_NETWORK	27	0.443851	1.290117	0.182008	0.316415	1	4,556
BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_VIA_NFKB_UP	47	0.343301	1.290025	0.14053	0.316236	1	7,618
REACTOME_RAP1_SIGNALLING	15	0.460313	1.289638	0.164093	0.316399	1	6,478
ROME_INSULIN_TARGETS_IN_MUSCLE_DN	179	0.2755	1.289386	0.050682	0.316402	1	4,043
REACTOME_YAP1_AND_WWTR1_TAZ_STIMULATED_GENE_EXPRESSION	23	0.46932	1.289347	0.212181	0.316154	1	8,523
REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENTS	33	0.416955	1.289211	0.178641	0.316046	1	7,519
ZHAN_EARLY_DIFFERENTIATION_GENES_DN	42	0.426991	1.289076	0.231388	0.315926	1	3,091
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP	19	0.443936	1.288856	0.198819	0.315891	1	6,146
VERHAAK_GLIOMASTOMA_MESENCHYMAL	212	0.391662	1.288761	0.245436	0.315712	1	5,060
PID_NFAT_3PATHWAY	53	0.39459	1.288414	0.187373	0.315844	1	2,092
REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	17	0.460306	1.28815	0.176591	0.315866	1	4,305
OUILLETTE_CLL_13Q14_DELETION_UP	69	0.361232	1.287929	0.169261	0.315856	1	7,407
GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_UP	71	0.453153	1.287792	0.255533	0.315726	1	8,967
BIOCARTA_ERK5_PATHWAY	17	0.491627	1.285959	0.202703	0.317714	1	6,181
REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	19	0.511762	1.285778	0.227642	0.317663	1	9,250
LEE_RECENT_THYMIC_EMIGRANT	208	0.330826	1.285585	0.186508	0.317623	1	3,527
SAMOLS_TARGETS_OF_KHSV_MIRNAS_DN	58	0.362006	1.285344	0.170385	0.317632	1	5,632
NAGASHIMA_NRG1_SIGNALING_DN	54	0.365423	1.284826	0.169884	0.318038	1	4,766
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A4	188	0.302305	1.284424	0.126459	0.318256	1	7,030
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0	72	0.372296	1.284329	0.178138	0.31809	1	5,425
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	89	0.345955	1.283896	0.176938	0.318384	1	6,920
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP	102	0.424251	1.283658	0.239521	0.31838	1	6,581
DIRMEIER_LMP1_RESPONSE_EARLY	63	0.423136	1.283523	0.209256	0.318246	1	6,322
BIOCARTA_MEF2D_PATHWAY	18	0.437576	1.280906	0.1643	0.321286	1	4,365
FIGUEROA_AML_METHYLATION_CLUSTER_7_UP	102	0.29217	1.280904	0.110899	0.320997	1	6,035
DORSEY_GAB2_TARGETS	31	0.419934	1.280707	0.169591	0.320964	1	6,294
LIN_NPAS4_TARGETS_UP	147	0.334479	1.280447	0.16129	0.321016	1	6,534
XU_GH1_AUTOCRINE_TARGETS_UP	225	0.293178	1.280188	0.116142	0.321052	1	6,224
LIEN_BREAST_CARCINOMA_METAPLASTIC	35	0.509658	1.279293	0.256674	0.321872	1	6,024
NIELSEN_MALIGNANT_FIBROUS_HISTIOCYTOMA_DN	16	0.463994	1.277933	0.177606	0.323317	1	6,800
KEGG_TASTE_TRANSDUCTION	35	0.397146	1.277232	0.190661	0.323858	1	6,478
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_	71	0.3233	1.275059	0.148362	0.326312	1	5,260

ADIPOCYTE_DIFFERENTIATION							
REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES	397	0.28959	1.274317	0.118677	0.326961	1	5,069
VERHAAK_GLIOBLASTOMA_NEURAL	120	0.341452	1.273003	0.196429	0.328329	1	6,928
ROSS_AML_WITH_MLL_FUSIONS	74	0.369914	1.272345	0.193814	0.328906	1	5,060
ST_GRANULE_CELL_SURVIVAL_PATHWAY	27	0.404804	1.272198	0.189796	0.328817	1	8,478
CAIRO_LIVER_DEVELOPMENT_UP	157	0.343048	1.271498	0.194553	0.329383	1	6,744
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP	117	0.358197	1.269962	0.199226	0.330984	1	6,587
LI_ADIPOGENESIS_BY_ACTIVATED_PPARG	17	0.450164	1.269356	0.200401	0.331452	1	5,586
SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION	48	0.427869	1.269286	0.237323	0.331245	1	6,818
REACTOME_SIGNALING_BY_ERBB2	96	0.331605	1.269256	0.175542	0.330988	1	6,022
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	206	0.316914	1.268472	0.164032	0.331653	1	4,490
PLASARI_TGFB1_TARGETS_1HR_UP	34	0.426438	1.268467	0.220472	0.331364	1	6,702
STREICHER_LSM1_TARGETS_UP	43	0.377771	1.268297	0.184906	0.331272	1	7,697
MCBRYAN_PUBERTAL_BREAST_4_5WK_DN	183	0.30816	1.268255	0.169043	0.33102	1	6,861
PID_CMYB_PATHWAY	80	0.335649	1.26798	0.164329	0.331084	1	5,289
REACTOME_TRAFFICKING_OF_GLUR2_CONTAINING_AMPA_RECEPTORS	15	0.431105	1.267487	0.183099	0.331469	1	2,348
KEGG_MELANOMA	68	0.333774	1.266672	0.185039	0.332205	1	6,022
REACTOME_SEMAPHORIN_INTERACTIONS	66	0.354741	1.266534	0.16996	0.332102	1	5,060
HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_UP	69	0.370593	1.265415	0.240481	0.333184	1	5,264
REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTERGRINS	15	0.483798	1.264615	0.209804	0.333902	1	3,890
MA_PITUITARY_FETAL_VS_ADULT_UP	27	0.403985	1.264394	0.19112	0.333921	1	2,495
GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_DN	33	0.38154	1.264384	0.185417	0.333641	1	6,091
KONDO_COLON_CANCER_HCP_WITH_H3K27ME1	23	0.395232	1.264236	0.176829	0.33354	1	5,916
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_UP	20	0.385652	1.263137	0.161943	0.334644	1	1,364
DELACROIX_RAR_TARGETS_DN	24	0.389782	1.262807	0.18146	0.334762	1	4,919
SMIRNOV_RESPONSE_TO_IR_2HR_DN	53	0.36978	1.261906	0.2	0.335608	1	3,106
BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_UP	24	0.419543	1.261429	0.187629	0.335903	1	5,937
KEGG_WNT_SIGNALING_PATHWAY	145	0.301154	1.260607	0.1643	0.336664	1	6,950
KEGG_GLYCOPHINGOLIPID_BIOSYNTHESIS_GANGLIO_SERIES	15	0.487629	1.260533	0.245136	0.336463	1	7,184
PID_IFNG_PATHWAY	40	0.40879	1.259951	0.214575	0.336866	1	7,407
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_UP	127	0.337608	1.259872	0.224172	0.33667	1	6,093
MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_DN	19	0.478695	1.259731	0.225806	0.336534	1	3,023
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	117	0.293657	1.259378	0.131213	0.336687	1	6,607
PID_ARF6_PATHWAY	35	0.362122	1.259026	0.170093	0.336834	1	3,334
BAELDE_DIABETIC_NEPHROPATHY_DN	422	0.343183	1.258105	0.25	0.337716	1	6,478
PID_HNF3A_PATHWAY	43	0.349893	1.257005	0.154618	0.338836	1	6,890
REACTOME_PI_3K_CASCADE	52	0.333959	1.256961	0.180556	0.338601	1	5,403

KEGG_PPAR_SIGNALING_PATHWAY	68	0.350791	1.256717	0.182186	0.33862	1	5,545
OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_UP	25	0.422996	1.25654	0.222	0.338576	1	5,603
KEGG_PATHWAYS_IN_CANCER	319	0.299263	1.255763	0.149105	0.339276	1	6,638
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	88	0.376168	1.254926	0.209677	0.340071	1	7,085
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_DN	113	0.348125	1.253503	0.218324	0.341577	1	6,141
REACTOME_SYNTHESIS_OF_PIPS_AT_THE_GOLGI_MEMBRANE	17	0.437009	1.253291	0.208417	0.34158	1	4,348
DAZARD_UV_RESPONSE_CLUSTER_G3	15	0.448343	1.253091	0.178715	0.34153	1	1,773
MCBRYAN_PUBERTAL_BREAST_5_6WK_DN	132	0.335729	1.25257	0.21328	0.341912	1	5,187
REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	34	0.401754	1.251728	0.198783	0.342721	1	6,813
BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_UP	376	0.286055	1.251555	0.190283	0.342663	1	6,837
BALDWIN_PRKCI_TARGETS_UP	32	0.417701	1.251417	0.245136	0.342533	1	6,559
HECKER_IFNB1_TARGETS	91	0.432421	1.251182	0.286561	0.342554	1	8,748
RODWELL_AGING_KIDNEY_NO_BLOOD_UP	206	0.355616	1.250479	0.230143	0.343095	1	4,986
PID_LYMPH_ANGIOGENESIS_PATHWAY	24	0.505602	1.249782	0.25	0.343681	1	7,490
GRABARCZYK_BCL11B_TARGETS_UP	73	0.367771	1.249575	0.226	0.343671	1	4,160
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_UP	34	0.397171	1.249253	0.177291	0.34379	1	3,291
BIOCARTA_SPPA_PATHWAY	22	0.429142	1.248613	0.234	0.344318	1	6,022
LA_MEN1_TARGETS	24	0.399928	1.248317	0.193416	0.344384	1	3,935
PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_FUSION	21	0.450667	1.24775	0.238776	0.34484	1	6,413
ZHAN_MULTIPLE_MYELOMA_CD1_DN	43	0.345959	1.24707	0.168067	0.345439	1	5,416
PARK_HSC_MARKERS	44	0.359916	1.246879	0.206287	0.345385	1	5,270
MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_DN	17	0.46194	1.246109	0.221311	0.346087	1	2,555
REACTOME_SHC_MEDIATED_CASCADE	26	0.368888	1.245928	0.1643	0.346053	1	4,969
NAKAMURA_ADIPOGENESIS_EARLY_DN	38	0.428077	1.24525	0.243762	0.346631	1	7,899
LIU_BREAST_CANCER	27	0.378545	1.245	0.189516	0.346678	1	4,447
NIELSEN_LIPOSARCOMA_UP	18	0.444328	1.24465	0.215842	0.346815	1	5,555
DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY	26	0.43734	1.243663	0.223938	0.34782	1	8,319
CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP	76	0.316573	1.243613	0.175097	0.347587	1	6,607
FARMER_BREAST_CANCER_CLUSTER_4	19	0.687237	1.243519	0.261044	0.347417	1	9,777
BURTON_ADIPOGENESIS_11	53	0.426374	1.243398	0.271805	0.347284	1	9,250
NABA_COLLAGENS	44	0.446107	1.243372	0.258586	0.347009	1	9,740
PID_S1P_S1P2_PATHWAY	24	0.451851	1.242204	0.23614	0.348211	1	6,022
YANAGIHARA_ESX1_TARGETS	29	0.44797	1.241995	0.252446	0.348203	1	5,841
NIELSEN_LEIOMYOSARCOMA_CNN1_UP	18	0.690266	1.241544	0.204453	0.348515	1	8,083
LABBE_TGFB1_TARGETS_UP	98	0.31612	1.241282	0.176923	0.348557	1	5,294
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM4	247	0.296656	1.23971	0.187373	0.350344	1	8,069
STOSSI_RESPONSE_TO ESTRADIOL	46	0.359931	1.239624	0.183267	0.350146	1	5,572
KYNG_DNA_DAMAGE_BY_UV	61	0.316196	1.239394	0.173913	0.350105	1	5,695
PID_AR_NONGENOMIC_PATHWAY	31	0.358985	1.239188	0.191939	0.35009	1	6,022

OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_DN	254	0.300106	1.239134	0.182365	0.349879	1	7,328
NAKAYAMA_FRA2_TARGETS	41	0.385461	1.23884	0.232604	0.349969	1	5,640
KEGG_COLORECTAL_CANCER	62	0.345854	1.237603	0.206827	0.351241	1	6,184
WARTERS_IR_RESPONSE_5GY	41	0.358093	1.236876	0.203922	0.351842	1	2,603
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENTA_UP	26	0.486634	1.234457	0.273834	0.354665	1	9,295
IKEDA_MIR133_TARGETS_UP	43	0.452962	1.234449	0.272545	0.35438	1	7,795
GENTILE_UV_LOW_DOSE_DN	65	0.415547	1.233104	0.273453	0.355797	1	6,267
REACTOME_SIGNALING_BY_ROBO_RECEPTOR	28	0.408873	1.232291	0.233663	0.356584	1	3,775
YE_METASTATIC_LIVER_CANCER	25	0.371735	1.232179	0.177551	0.356423	1	1,817
NIELSEN_LEIOMYOSARCOMA_DN	16	0.443288	1.231985	0.228	0.356361	1	6,885
HANSON_HRAS_SIGNALING_VIA_NFKB	22	0.396616	1.231947	0.200795	0.356106	1	6,849
GRYDER_PAX3FOXO1_ENHANCERS_KO_DOWN	427	0.319546	1.231542	0.217742	0.356396	1	7,629
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	122	0.325014	1.231449	0.233663	0.356213	1	5,500
KUNINGER_IGF1_VS_PDGFB_TARGETS_DN	43	0.372612	1.231369	0.220703	0.356016	1	2,842
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_DN	68	0.306251	1.231236	0.152805	0.355917	1	4,442
KYNG_DNA_DAMAGE_BY_4NQO	37	0.336719	1.231135	0.175299	0.355755	1	4,917
REACTOME_SIGNALING_BY_ERBB4	85	0.326702	1.229204	0.199597	0.358013	1	5,192
PID_ERA_GENOMIC_PATHWAY	62	0.300722	1.226123	0.153386	0.361661	1	5,533
BOYLAN_MULTIPLE_MYELOMA_C_DN	54	0.348225	1.22605	0.221328	0.361462	1	3,325
RUAN_RESPONSE_TO_TROGLITAZONE_UP	25	0.397071	1.225962	0.223849	0.361272	1	4,646
MIKKELSEN_ES_LCP_WITH_H3K4ME3	126	0.296628	1.223453	0.179435	0.364322	1	5,003
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN	26	0.433173	1.221347	0.241036	0.366787	1	9,692
KEGG_PROSTATE_CANCER	89	0.32957	1.220347	0.215726	0.36776	1	6,611
MIKKELSEN_IPS_LCP_WITH_H3K4ME3	156	0.285213	1.220277	0.182178	0.367542	1	4,969
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A	21	0.417261	1.219715	0.238281	0.367979	1	7,306
HUTTMANN_B_CLL_POOR_SURVIVAL_UP	257	0.27968	1.218065	0.176707	0.369858	1	5,314
DASU_IL6_SIGNALING_SCAR_DN	16	0.494213	1.218042	0.287938	0.369576	1	5,025
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP	31	0.445232	1.218042	0.305668	0.369272	1	7,556
NABA_BASEMENT_MEMBRANES	40	0.427527	1.217538	0.284351	0.369637	1	8,003
NGUYEN_NOTCH1_TARGETS_UP	29	0.348408	1.217228	0.216535	0.369788	1	4,510
BROWNE_HCMV_INFECTION_20HR_UP	231	0.275754	1.217211	0.209677	0.36951	1	5,500
BAUS_TFF2_TARGETS_UP	31	0.418616	1.217181	0.236948	0.369247	1	2,704
BIOCARTA_CXCR4_PATHWAY	24	0.407695	1.217161	0.241176	0.368971	1	6,022
EHLERS_ANEUPLOIDY_UP	40	0.384396	1.216838	0.240891	0.369122	1	4,767
LEI_HOXC8_TARGETS_DN	17	0.4406	1.216189	0.235409	0.36971	1	8,094
CROMER_METASTASIS_UP	78	0.35263	1.215323	0.252049	0.370541	1	5,093
LI_WILMS_TUMOR	25	0.385951	1.215135	0.208925	0.370501	1	7,882
ZHU_CMV_ALL_DN	125	0.361183	1.21504	0.284	0.370323	1	6,269

REACTOME_BOTULINUM_NEUROTOXICITY	18	0.399596	1.214893	0.228628	0.37021	1	4,455
LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_UP	71	0.319137	1.214613	0.204969	0.370309	1	5,174
KEGG_APOPTOSIS	83	0.324272	1.213934	0.226824	0.370859	1	6,581
GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP	28	0.387336	1.213684	0.227704	0.370876	1	4,680
KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_DN	24	0.398691	1.213509	0.210736	0.37079	1	7,898
BEIER_GLIOMA_STEM_CELL_DN	63	0.338421	1.212704	0.231827	0.371519	1	7,552
CUI_TCF21_TARGETS_UP	37	0.402918	1.212063	0.272727	0.372064	1	6,528
LIU_SMARCA4_TARGETS	59	0.338736	1.21162	0.227083	0.372338	1	5,238
HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENESIS	78	0.347335	1.21126	0.250501	0.372557	1	6,714
LEE_AGING_NEOCORTEX_DN	76	0.31914	1.210607	0.198783	0.373108	1	4,344
REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_CAMKII	15	0.445028	1.210499	0.243762	0.372943	1	9,681
CERVERA_SDHB_TARGETS_2	106	0.331785	1.2104	0.228916	0.372771	1	7,182
DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN	469	0.396817	1.209945	0.325	0.373086	1	7,915
NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON	48	0.404514	1.20989	0.253438	0.372852	1	3,430
SU_PANCREAS	48	0.357215	1.209876	0.248971	0.372568	1	5,136
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN	497	0.313252	1.20924	0.271654	0.373121	1	6,873
VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN	36	0.369809	1.20916	0.227926	0.372939	1	4,210
MILI_PSEUDOPODIA	41	0.374826	1.209007	0.261811	0.37283	1	4,525
ST_B_CELL_ANTIGEN_RECEPTOR	40	0.361841	1.208809	0.244533	0.372816	1	6,942
PID_MYC_REPRESS_PATHWAY	62	0.310029	1.208682	0.191781	0.372682	1	8,057
REACTOME_SIGNALING_BY_EGFR_IN_CANCER	104	0.311615	1.208376	0.23506	0.372805	1	6,942
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	83	0.334746	1.208096	0.238193	0.372882	1	3,333
RASHI_RESPONSE_TO_IONIZING_RADIATION_4	57	0.343054	1.204941	0.235529	0.37677	1	3,061
CAIRO_HEPATOBLASTOMA_DN	255	0.283911	1.204669	0.197154	0.376824	1	5,831
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN	162	0.29201	1.203736	0.168297	0.377718	1	5,016
FLORIO_HUMAN_NEOCORTEX	31	0.37666	1.203684	0.221135	0.377474	1	6,521
BIOCARTA_PTEN_PATHWAY	18	0.474492	1.203652	0.285433	0.377233	1	6,022
BIOCARTA_NFKB_PATHWAY	23	0.40272	1.203547	0.259615	0.377058	1	6,322
ZIRN_TRETINOIN_RESPONSE_UP	20	0.429408	1.203471	0.250958	0.376867	1	7,438
REACTOME_SIGNALLING_BY_NGF	209	0.289043	1.203335	0.199601	0.376762	1	6,575
HATADA_METHYLATED_IN_LUNG_CANCER_DN	29	0.355451	1.203289	0.21881	0.376523	1	5,186
REACTOME_SIGNALING_BY_PDGF	116	0.328452	1.202798	0.256566	0.376874	1	6,920
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_DN	415	0.25601	1.20264	0.153191	0.376811	1	4,629
REACTOME_INTERFERON_GAMMA_SIGNALING	60	0.4149	1.20211	0.308765	0.3772	1	9,006
KEEN_RESPONSE_TO_ROSIGLITAZONE_DN	103	0.333344	1.20197	0.226804	0.377076	1	6,372
PID_FAS_PATHWAY	38	0.373172	1.200641	0.241449	0.378459	1	6,581
REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALLING	79	0.29234	1.199853	0.194779	0.379173	1	4,271
DELASERNA_MYOD_TARGETS_DN	54	0.329899	1.19953	0.192308	0.379294	1	6,211

SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_UP	21	0.377089	1.199239	0.214724	0.379409	1	2,856
ANASTASSIOU_MULTICANCER_INVASIVENESS_SIGNATURE	63	0.595651	1.198898	0.345528	0.379558	1	9,872
KANG_IMMORTALIZED_BY_TERT_UP	87	0.305859	1.198764	0.223735	0.379419	1	5,331
PENG_RAPAMYCIN_RESPONSE_UP	194	0.288829	1.198277	0.210953	0.379759	1	5,667
BIOCARTA_IGF1_PATHWAY	21	0.432012	1.198221	0.282908	0.379531	1	4,228
REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS	44	0.368989	1.197215	0.266795	0.380595	1	5,052
PID_ALPHA_SYNUCLEIN_PATHWAY	33	0.366811	1.197011	0.231092	0.38055	1	2,545
KEGG_FOCAL_ADHESION	197	0.338583	1.196882	0.261811	0.380442	1	4,343
FIGUEROA_AML_METHYLATION_CLUSTER_3_DN	38	0.320572	1.196813	0.192913	0.380218	1	3,971
BROWNE_HCMV_INFECTION_12HR_UP	104	0.323971	1.196642	0.258893	0.380141	1	8,748
KEGG_AXON_GUIDANCE	126	0.303917	1.196208	0.216	0.38044	1	5,296
MARZEC_IL2_SIGNALING_UP	111	0.313722	1.196018	0.251462	0.380399	1	4,331
GERHOLD_ADIPOGENESIS_UP	49	0.345378	1.195481	0.233918	0.380814	1	7,014
WU_ALZHEIMER_DISEASE_DN	17	0.384855	1.194686	0.246679	0.381568	1	1,798
REACTOME_L1CAM_INTERACTIONS	83	0.342519	1.194156	0.263366	0.381987	1	3,984
PILON_KLF1_TARGETS_UP	481	0.279425	1.193447	0.220441	0.382607	1	6,956
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_DN	31	0.374679	1.193203	0.220441	0.38261	1	2,938
REACTOME_CTLA4_INHIBITORY_SIGNALING	21	0.422087	1.192867	0.277559	0.382753	1	4,802
DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_UP	15	0.412207	1.191727	0.260377	0.383959	1	2,490
IVANOVA_HEMATOPOIESIS_MATURE_CELL	267	0.28783	1.191451	0.25567	0.383998	1	5,869
KUNINGER_IGF1_VS_PDGFB_TARGETS_UP	74	0.34061	1.190612	0.243408	0.384816	1	6,189
PID_NFKAPPAB_ATYPICAL_PATHWAY	17	0.414437	1.190318	0.255533	0.384863	1	6,322
DE_YY1_TARGETS_DN	89	0.412279	1.190232	0.306324	0.384674	1	6,581
WIERENGA_STAT5A_TARGETS_GROUP1	123	0.289442	1.190135	0.216797	0.384492	1	3,776
MASSARWEH_TAMOXIFEN_RESISTANCE_DN	232	0.270028	1.189757	0.209163	0.384718	1	6,471
CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_ZAP70	60	0.285806	1.189737	0.191781	0.384453	1	5,420
HOLLMANN_APOPTOSIS_VIA_CD40_UP	190	0.310821	1.188612	0.255102	0.385657	1	4,545
REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	47	0.32332	1.188401	0.227459	0.385643	1	5,480
WOTTON_RUNX_TARGETS_UP	19	0.387658	1.188085	0.23125	0.385754	1	3,842
ZHENG_RESPONSE_TO_ARSENITE_DN	17	0.411791	1.187707	0.244094	0.38596	1	2,693
DEMAGALHAES_AGING_UP	53	0.375247	1.187286	0.297571	0.386231	1	5,812
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	19	0.433312	1.185507	0.280632	0.388259	1	3,848
WATANABE_COLON_CANCER_MSI_VS_MSS_DN	77	0.327023	1.185467	0.228963	0.388009	1	7,206
MATZUK_SPERMATOZOA	97	0.28181	1.185127	0.205825	0.388132	1	5,829
KEGG_TRYPTOPHAN_METABOLISM	39	0.371147	1.185038	0.24498	0.387957	1	6,672
FIGUEROA_AML_METHYLATION_CLUSTER_4_UP	98	0.269671	1.184934	0.175141	0.387793	1	3,296
NOJIMA_SFRP2_TARGETS_UP	31	0.401301	1.18486	0.296078	0.387588	1	6,563
RIZKI_TUMOR_INVASIVENESS_3D_UP	198	0.261343	1.183886	0.192229	0.388599	1	5,034

MCGOWAN_RSP6_TARGETS_UP	17	0.380549	1.183741	0.247505	0.388492	1	3,191
ZHOU_INFLAMMATORY_RESPONSE_LIVE_DN	341	0.252145	1.183632	0.180198	0.388332	1	5,136
JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_DN	44	0.370761	1.182921	0.277328	0.389008	1	8,679
CAIRO_LIVER_DEVELOPMENT_DN	214	0.288211	1.182309	0.221277	0.389524	1	4,428
JEON_SMAD6_TARGETS_UP	23	0.431	1.182251	0.296154	0.389297	1	4,753
OSADA_ASCL1_TARGETS_DN	23	0.424304	1.181475	0.28125	0.390023	1	6,463
NAKAYAMA_FGF2_TARGETS	28	0.362738	1.181445	0.256	0.389768	1	6,640
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_UP	19	0.439007	1.181298	0.262195	0.389688	1	7,986
MULLIGHAN_MLL_SIGNATURE_1_UP	356	0.287965	1.18121	0.261317	0.389512	1	5,093
KIM_MYC_AMPLIFICATION_TARGETS_DN	89	0.31718	1.18106	0.278884	0.389434	1	6,450
ROPERO_HDAC2_TARGETS	101	0.26129	1.180799	0.167969	0.389496	1	7,647
RATTENBACHER_BOUND_BY_CELF1	394	0.240187	1.180108	0.165692	0.390117	1	4,351
LEIN_CEREBELLUM_MARKERS	77	0.284176	1.180097	0.198413	0.389834	1	6,400
LINDVALL_IMMORTALIZED_BY_TERT_DN	78	0.374974	1.180033	0.297787	0.38962	1	7,542
PID_PI3K_PLC_TRK_PATHWAY	36	0.369803	1.178143	0.267191	0.391789	1	5,146
DUTERTRE ESTRADIOL_RESPONSE_24HR_DN	489	0.309932	1.176848	0.288306	0.393194	1	6,470
CHO_NR4A1_TARGETS	32	0.34878	1.176711	0.238683	0.393089	1	4,587
KUMAR_AUTOPHAGY_NETWORK	67	0.294193	1.176538	0.21124	0.393012	1	3,606
REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_OF_GHRELIN	15	0.456291	1.176303	0.280632	0.393018	1	6,443
GENTILE_UV_RESPONSE_CLUSTER_D8	39	0.388835	1.174913	0.299376	0.394583	1	7,689
ZEMBUTSU_SENSITIVITY_TO_NIMUSTINE	17	0.387801	1.174897	0.252408	0.394313	1	1,634
GU_PDEF_TARGETS_UP	71	0.383424	1.173722	0.324376	0.395615	1	8,096
ZHANG_TLX_TARGETS_60HR_UP	284	0.271803	1.173199	0.224852	0.396052	1	5,598
TUOMISTO_TUMOR_SUPPRESSION_BY_COL13A1_UP	18	0.419656	1.173122	0.242661	0.395862	1	4,077
POMEROY_MEDULLOBLASTOMA_PROGNOSIS_UP	44	0.317023	1.172944	0.240741	0.395784	1	4,082
VANDESLUIS_NORMAL_EMBRYOS_DN	23	0.383268	1.172125	0.240891	0.396554	1	7,504
SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_DN	21	0.437454	1.171808	0.288382	0.396672	1	5,812
REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PLASMA_MEMBRANE	131	0.305408	1.171511	0.256972	0.39675	1	6,920
MCCABE_HOXC6_TARGETS_CANCER_UP	30	0.335159	1.171319	0.223124	0.396717	1	4,925
KIM_ALL_DISORDERS_CALB1_CORR_DN	32	0.33956	1.171103	0.238095	0.396702	1	8,156
KHETCHOUMIAN_TRIM24_TARGETS_UP	47	0.379939	1.170832	0.277666	0.39679	1	8,569
LIM_MAMMARY_LUMINAL_PROGENITOR_UP	52	0.329415	1.170125	0.244576	0.397426	1	6,226
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D	253	0.248544	1.170061	0.203156	0.397209	1	7,106
PID_P38_MKK3_6PATHWAY	26	0.343143	1.168999	0.248509	0.398354	1	6,588
WILCOX_RESPONSE_TO_PROGESTERONE_DN	64	0.355942	1.168863	0.277445	0.39825	1	9,872
REACTOME_STEROID_HORMONES	28	0.351021	1.16878	0.252941	0.39806	1	5,303
KYNG_DNA_DAMAGE_BY_4NQO_OR_UV	62	0.300393	1.168719	0.232143	0.397835	1	4,953
BIOCARTA_TFF_PATHWAY	21	0.402446	1.167307	0.279528	0.399474	1	6,022

ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN	68	0.32088	1.167289	0.273279	0.399194	1	2,621
REACTOME_NEPHRIN_INTERACTIONS	19	0.428296	1.167117	0.267347	0.39914	1	2,485
LU_TUMOR_ENDOTHELIAL_MARKERS_UP	22	0.449336	1.166921	0.317269	0.399127	1	7,030
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN	32	0.363016	1.166738	0.267442	0.399073	1	6,288
PID_HES_HEY_PATHWAY	47	0.325368	1.165826	0.280156	0.40001	1	7,733
ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY	37	0.35944	1.165825	0.287169	0.399714	1	4,680
PARK_HSC_VS_MULTIPOTENT_PROGENITORS_UP	19	0.396341	1.165062	0.271154	0.400438	1	5,506
BENPORATH_NOS_TARGETS	169	0.284221	1.16413	0.270751	0.40141	1	6,724
MCCLUNG_COCAIN_REWARD_4WK	70	0.305366	1.163326	0.258	0.40219	1	9,359
BIOCARTA_AMI_PATHWAY	20	0.443293	1.163215	0.29697	0.402051	1	6,847
PID_AVB3_OPN_PATHWAY	31	0.382299	1.161887	0.299618	0.403503	1	6,322
BROWNE_HCMV_INFECTION_16HR_UP	217	0.310587	1.161595	0.300199	0.403603	1	6,876
NATSUME_RESPONSE_TO_INTERFERON_BETA_UP	71	0.306557	1.160741	0.247485	0.404463	1	6,829
LEIN_CHOROID_PLEXUS_MARKERS	97	0.299175	1.160703	0.246988	0.40422	1	7,081
BIOCARTA_TID_PATHWAY	19	0.396712	1.159519	0.280164	0.405537	1	6,820
KEGG_RENAL_CELL_CARCINOMA	68	0.334683	1.158423	0.296078	0.406745	1	6,022
PLASARI_TGFB1_TARGETS_10HR_UP	196	0.294608	1.158125	0.262948	0.40685	1	6,370
PID_BMP_PATHWAY	42	0.361665	1.157788	0.300203	0.407009	1	6,455
REACTOME_CHONDROITIN_SULFATE_BIOSYNTHESIS	19	0.469538	1.157314	0.350306	0.407324	1	8,328
KAYO_CALORIE_RESTRICTION_MUSCLE_UP	93	0.319066	1.157254	0.275654	0.407113	1	7,047
BROWNE_HCMV_INFECTION_10HR_DN	54	0.336232	1.157039	0.293542	0.407097	1	6,091
BOSCO_INTERFERON_INDUCED_ANTIVIRAL_MODULE	74	0.406979	1.156615	0.34714	0.407387	1	6,664
BIOCARTA_ETS_PATHWAY	18	0.379906	1.156557	0.305182	0.407161	1	5,485
PID_ERBB1_INTERNALIZATION_PATHWAY	41	0.358132	1.156238	0.301775	0.407293	1	3,890
BIOCARTA_AT1R_PATHWAY	32	0.373974	1.15539	0.313954	0.408114	1	6,181
COLDREN_GEFITINIB_RESISTANCE_UP	75	0.332883	1.154907	0.274	0.408521	1	6,423
PID_S1P_S1P1_PATHWAY	21	0.418422	1.154204	0.310413	0.409154	1	7,986
YAMAZAKI_TCEB3_TARGETS_UP	171	0.320767	1.153686	0.298	0.409538	1	6,638
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_UP	113	0.30627	1.153134	0.29	0.410004	1	7,598
EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION	48	0.363683	1.153111	0.285714	0.409728	1	8,919
NIELSEN_SCHWANNOMA_UP	16	0.416335	1.152293	0.278409	0.410521	1	4,861
FINETTI_BREAST_CANCERS_KINOME_GRAY	15	0.560058	1.152021	0.411765	0.410598	1	7,547
GUO_HEX_TARGETS_UP	81	0.328406	1.151368	0.315789	0.411178	1	9,115
FIGUEROA_AML_METHYLATION_CLUSTER_3_UP	148	0.258004	1.150592	0.240157	0.411943	1	7,449
REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THROUGH_NMDA_RECEPTOR	17	0.406051	1.149154	0.278846	0.413582	1	9,681
KOYAMA_SEMA3B_TARGETS_UP	261	0.248752	1.149079	0.216942	0.413391	1	5,145
MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_23	18	0.435155	1.148461	0.325	0.413902	1	3,366
REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_SLC_TRANSPORTERS	49	0.339081	1.148385	0.278723	0.413697	1	5,518

BIOCARTA_RAC1_PATHWAY	23	0.389677	1.148328	0.292543	0.41347	1	6,702
SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN	80	0.312571	1.147288	0.300797	0.414616	1	5,395
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_4	281	0.264963	1.146725	0.24498	0.415098	1	5,588
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_UP	16	0.423795	1.146111	0.29783	0.415672	1	5,987
HOFMANN_CELL_LYMPHOMA_DN	38	0.31179	1.14609	0.248544	0.415404	1	4,437
THUM_SYSTOLIC_HEART_FAILURE_DN	216	0.300472	1.146017	0.296593	0.415194	1	7,496
ZHU_CMV_24_HR_DN	88	0.362566	1.145887	0.342	0.415074	1	7,949
JI_METASTASIS_REPRESSED_BY_STK11	27	0.37259	1.145879	0.29918	0.414786	1	6,909
BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_DN	29	0.412626	1.144182	0.321839	0.416856	1	3,935
REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS	69	0.319588	1.144158	0.258065	0.416583	1	6,678
HOOI_ST7_TARGETS_UP	83	0.296922	1.143902	0.264762	0.416624	1	5,937
BHAT_ESR1_TARGETS_NOT_VIA_AKT1_DN	85	0.313852	1.143061	0.285141	0.417452	1	3,848
ST_G_ALPHA_I_PATHWAY	35	0.355763	1.1428	0.305284	0.417509	1	4,164
GALE_APL_WITH_FLT3_MUTATED_UP	54	0.333052	1.141613	0.291751	0.418744	1	4,321
MARSHALL_VIRAL_INFECTION_RESPONSE_DN	29	0.408819	1.140248	0.313609	0.420276	1	6,413
MULLIGHAN_MLL_SIGNATURE_2_UP	393	0.273367	1.140045	0.297741	0.420269	1	5,123
BIOCARTA_TGFB_PATHWAY	19	0.435412	1.13976	0.324111	0.420383	1	5,532
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP	429	0.251301	1.139508	0.238289	0.420419	1	5,282
REACTOME_KERATAN_SULFATE_BIOSYNTHESIS	25	0.370028	1.139421	0.301587	0.420234	1	3,735
SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_DN	20	0.382523	1.138858	0.286275	0.420661	1	6,094
ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMIDE	16	0.406352	1.138747	0.291339	0.420497	1	8,222
MEISSNER_NPC_HCP_WITH_H3_UNMETHYLATED	483	0.223508	1.138325	0.195918	0.42081	1	4,112
CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN	24	0.392466	1.137881	0.307229	0.421128	1	7,634
PID_HEDGEHOG_GLI_PATHWAY	48	0.325893	1.137085	0.293413	0.4219	1	6,058
ABBUD_LIF_SIGNALING_1_UP	44	0.332698	1.13645	0.283237	0.422459	1	3,685
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_DN	56	0.332753	1.13644	0.303462	0.422169	1	5,812
ST_WNT_BETA_CATENIN_PATHWAY	34	0.344518	1.135034	0.290909	0.423813	1	6,169
AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_2G	163	0.279537	1.134937	0.291667	0.423656	1	6,406
ROZANOV_MMP14_TARGETS_SUBSET	31	0.459179	1.134792	0.367589	0.423541	1	8,430
REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX_PROTEINS	16	0.377116	1.134457	0.293436	0.423693	1	4,455
SENESE_HDAC1_AND_HDAC2_TARGETS_UP	225	0.306391	1.133036	0.307544	0.425343	1	5,100
PID_ERBB2_ERBB3_PATHWAY	44	0.339236	1.131619	0.315369	0.426938	1	6,022
KEGG_ECM_RECEPTOR_INTERACTION	83	0.365237	1.131428	0.341897	0.426887	1	3,957
LI_CISPLATIN_RESISTANCE_UP	24	0.412803	1.13122	0.332661	0.42688	1	6,722
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP	21	0.376253	1.130579	0.311871	0.427406	1	4,753
SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX1_UP	15	0.424257	1.130572	0.30888	0.427115	1	595
TURASHVILI_BREAST_NORMAL_DUCTAL_VS_LOBULAR_UP	62	0.301812	1.130053	0.284069	0.427561	1	6,335
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_DN	50	0.359878	1.129789	0.34252	0.427605	1	8,235

GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	68	0.348618	1.129787	0.339882	0.427304	1	6,638
PID_TRKR_PATHWAY	61	0.313373	1.129375	0.297456	0.427589	1	4,410
REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_IGF_ACTIVITY_BY_INSULIN_LIKE_GROWTH_FACTOR_BINDING_PROTEINS_IGFBPS	16	0.409861	1.128689	0.303823	0.428228	1	3,237
ZHU_CMV_8_HR_DN	52	0.333069	1.128624	0.315686	0.428027	1	4,080
ROVERSI_GLIOMA_COPY_NUMBER_DN	52	0.316514	1.128418	0.28629	0.428004	1	8,147
TSAI_RESPONSE_TO_IONIZING_RADIATION	147	0.28476	1.128412	0.3	0.427708	1	6,638
PID_RXR_VDR_PATHWAY	26	0.344069	1.127874	0.306911	0.428172	1	5,745
SATO_SILENCED_EPIGENETICALLY_IN_PANCREATIC_CANCER	45	0.297923	1.127688	0.264259	0.42811	1	3,171
LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE	48	0.392885	1.127296	0.327161	0.428338	1	10,141
SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER	41	0.322632	1.126947	0.27	0.428495	1	6,282
SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION_UP	73	0.351487	1.126597	0.30754	0.4287	1	6,024
KIM_MYCN_AMPLIFICATION_TARGETS_DN	96	0.291518	1.126267	0.292731	0.428853	1	7,356
GHANDHI_DIRECT_IRRADIATION_DN	32	0.328027	1.125434	0.293279	0.429706	1	2,870
HAN_SATB1_TARGETS_DN	422	0.251419	1.125234	0.285996	0.429676	1	5,220
RASHI_RESPONSE_TO_IONIZING_RADIATION_5	142	0.265464	1.125174	0.284274	0.429446	1	4,855
WANG_RECURRENT_LIVER_CANCER_DN	16	0.428886	1.125102	0.313152	0.429268	1	6,596
ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP	174	0.273703	1.124679	0.250522	0.42953	1	6,367
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_C	88	0.27144	1.123463	0.259557	0.430928	1	6,470
WANG_LSD1_TARGETS_UP	23	0.363924	1.123328	0.301587	0.430801	1	3,237
KEGG_CHRONIC_MYELOID_LEUKEMIA	73	0.314222	1.122695	0.312871	0.431405	1	5,099
DAZARD_RESPONSE_TO_UV_NHEK_DN	302	0.345257	1.122288	0.357006	0.431662	1	8,113
VALK_AML_CLUSTER_2	27	0.323581	1.122181	0.279528	0.431502	1	8,057
REACTOME_HDL_MEDIATED_LIPID_TRANSPORT	15	0.425815	1.121484	0.331276	0.432169	1	3,858
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	16	0.426117	1.121145	0.342105	0.432322	1	8,507
OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	222	0.275636	1.120772	0.297189	0.432506	1	6,354
LEE_LIVER_CANCER	46	0.35459	1.119842	0.33463	0.433471	1	1,412
HAHTOLA_CTCL_CUTANEOUS	25	0.370579	1.119744	0.329341	0.433302	1	4,914
SHIN_B_CELL_LYMPHOMA_CLUSTER_8	36	0.366895	1.119571	0.346939	0.43323	1	6,581
MARTENS_BOUND_BY_PML_RARA_FUSION	423	0.260227	1.118992	0.321503	0.433741	1	6,462
SMITH_TERT_TARGETS_DN	87	0.29236	1.118249	0.306584	0.434456	1	4,607
RAGHAVACHARI_PLATELET_SPECIFIC_GENES	67	0.340854	1.117974	0.317365	0.434561	1	8,571
VALK_AML_CLUSTER_15	31	0.316413	1.117395	0.304781	0.435067	1	3,061
REACTOME_ACTIVATED_TLR4_SIGNALLING	91	0.289593	1.117159	0.305118	0.435095	1	9,364
ZHAN_V1_LATE_DIFFERENTIATION_GENES_UP	31	0.351028	1.116172	0.305051	0.436187	1	2,139
GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_UP	24	0.344883	1.116165	0.309381	0.435902	1	5,073
BIOCARTA_INSULIN_PATHWAY	22	0.387037	1.114048	0.346457	0.438564	1	6,443
MEISSNER_BRAIN_HCP_WITH_H3K4ME2_AND_H3K27ME3	57	0.296622	1.113895	0.278107	0.438445	1	4,765
BAE_BRCA1_TARGETS_DN	32	0.355154	1.113788	0.338614	0.438301	1	4,428

LANDIS_ERBB2_BREAST_TUMORS_324_DN	144	0.291852	1.113607	0.305835	0.438238	1	4,125
MAEKAWA_ATF2_TARGETS	23	0.343306	1.113354	0.315261	0.438289	1	4,344
PID_NETRIN_PATHWAY	32	0.372113	1.113211	0.335354	0.438186	1	6,022
SENESE_HDAC1_TARGETS_DN	234	0.262472	1.112523	0.297913	0.438817	1	6,855
DARWICHE_PAPILLOMA_RISK_HIGH_VS_LOW_DN	30	0.316727	1.1121	0.313321	0.439069	1	7,405
BUCKANOVICH_T_LYMPHOCYTE_HOMING_ON_TUMOR_DN	21	0.387749	1.112013	0.33996	0.438892	1	6,454
BERENJENO_TRANSFORMED_BY_RHOA_DN	380	0.282205	1.111071	0.32165	0.439908	1	6,076
SHIPP_DLBCL_CURED_VS_FATAL_DN	43	0.309967	1.111069	0.317647	0.439612	1	2,657
LEE_AGING_CEREBELLUM_UP	84	0.304039	1.110778	0.3159	0.439696	1	7,014
BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_UP	18	0.359161	1.110303	0.293173	0.44006	1	2,875
REACTOME_AMINO_ACID_TRANSPORT_ACROSS_THE_PLASMA_MEMBRANE	31	0.353688	1.110221	0.322105	0.439868	1	5,518
REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	81	0.293185	1.109534	0.314563	0.440492	1	6,488
ZHANG_GATA6_TARGETS_UP	15	0.396761	1.109374	0.341797	0.440412	1	3,569
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_UP	76	0.315713	1.108925	0.351889	0.440735	1	5,462
KEGG_ENDOCYTOSIS	176	0.265333	1.108833	0.300203	0.440553	1	4,519
REACTOME_SIGNALING_BY_NODAL	17	0.37244	1.108166	0.333333	0.441153	1	3,051
PID_SMAD2_3NUCLEAR_PATHWAY	80	0.290652	1.108096	0.307393	0.440956	1	4,696
BIOCARTA_41BB_PATHWAY	17	0.399402	1.10792	0.328685	0.440885	1	8,204
REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM	29	0.36521	1.107736	0.345528	0.440847	1	5,283
REACTOME_CIRCADIAN_REPRESSION_OF_EXPRESSION_BY_REV_ERBA	22	0.405137	1.10764	0.376218	0.440687	1	7,366
IKEDA_MIR30_TARGETS_DN	26	0.393383	1.106405	0.335953	0.442095	1	4,383
BROWNE_HCMV_INFECTION_4HR_UP	52	0.332828	1.106261	0.342574	0.441986	1	5,365
REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	20	0.369097	1.105917	0.34879	0.442156	1	4,969
MARTINEZ_RESPONSE_TO_TRABECTEDIN	49	0.381433	1.105422	0.356725	0.442531	1	6,858
RAO_BOUND_BY_SALL4_ISOFORM_B	480	0.258627	1.105146	0.326653	0.44258	1	6,484
PID_FRA_PATHWAY	36	0.337644	1.104719	0.346304	0.442865	1	4,914
GAL_LEUKEMIC_STEM_CELL_DN	236	0.289269	1.104218	0.346939	0.443288	1	5,842
VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN	37	0.324345	1.10365	0.323529	0.443753	1	1,473
KYNG_DNA_DAMAGE_BY_GAMMA_AND_UV_RADIATION	85	0.283438	1.102971	0.325773	0.444361	1	7,985
PID_HDAC_CLASSII_PATHWAY	33	0.316169	1.102777	0.338462	0.444332	1	3,064
KIM_WT1_TARGETS_12HR_UP	156	0.278999	1.102658	0.327236	0.444208	1	6,950
GENTILE_UV_RESPONSE_CLUSTER_D2	40	0.371658	1.102655	0.368627	0.443912	1	8,571
OHGUCHI_LIVER_HNF4A_TARGETS_UP	44	0.322549	1.102502	0.323108	0.443838	1	6,886
REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION_OF_GLP1	17	0.412478	1.102137	0.340426	0.444084	1	4,252
RIZ_ERYTHROID_DIFFERENTIATION_HBZ	40	0.306678	1.100342	0.35167	0.446215	1	5,708
NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_UP	18	0.437478	1.098697	0.392857	0.448206	1	6,341
RAMPON_ENRICHED_LEARNING_ENVIRONMENT_EARLY_UP	15	0.38623	1.09828	0.348	0.448468	1	8,078
SENESE_HDAC3_TARGETS_UP	472	0.314526	1.098117	0.378968	0.448399	1	6,973
ST_P38_MAPK_PATHWAY	37	0.336857	1.097638	0.336595	0.448763	1	7,815

TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA	72	0.303475	1.097012	0.309942	0.449388	1	5,996
MIKKELSEN_MEF_LCP_WITH_H3K27ME3	58	0.291805	1.096642	0.302187	0.449601	1	5,829
REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACTIVATION	20	0.409794	1.09624	0.352	0.449878	1	6,227
WINZEN_DEGRADED_VIA_KHSRP	98	0.310475	1.096129	0.354037	0.449754	1	4,076
VALK_AML_CLUSTER_7	25	0.323856	1.095516	0.314741	0.450357	1	6,102
GOTTWEIN_TARGETS_OF_KSHV_MIR_K12_11	62	0.315784	1.095039	0.35167	0.450706	1	5,974
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_UP	120	0.25957	1.094238	0.299228	0.451522	1	5,506
OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_DN	29	0.346524	1.094192	0.327273	0.451279	1	9,569
MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_UP	249	0.251766	1.093947	0.329341	0.451307	1	6,805
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	61	0.281075	1.093741	0.325726	0.451273	1	5,223
FAELT_B_CLL_WITH_VH_REARRANGEMENTS_UP	47	0.307508	1.092923	0.345309	0.45214	1	5,429
BILD_CTNNB1_ONCOGENIC_SIGNATURE	77	0.345015	1.092797	0.382766	0.452012	1	8,090
ASTIER_INTEGRIN_SIGNALING	55	0.288084	1.092024	0.316	0.452798	1	5,206
BROWNE_HCMV_INFECTION_18HR_DN	169	0.271718	1.091844	0.336066	0.452777	1	6,450
BIOCARTA_EIF4_PATHWAY	24	0.393691	1.091831	0.385057	0.452498	1	1,308
DELASERNA_MYOD_TARGETS_UP	83	0.260768	1.091822	0.328032	0.452217	1	6,194
SEKI_INFLAMMATORY_RESPONSE_LPS_UP	76	0.337591	1.091742	0.373494	0.452044	1	6,581
GREGORY_SYNTHETIC_LETHAL_WITH_IMATINIB	139	0.269728	1.091582	0.336694	0.45196	1	6,621
IGARASHI_ATF4_TARGETS_DN	88	0.334901	1.091022	0.336735	0.452447	1	6,768
MITSIADES_RESPONSE_TO_APLIDIN_UP	412	0.256408	1.090945	0.358268	0.452254	1	6,563
LE_EGR2_TARGETS_DN	106	0.276517	1.09051	0.32636	0.452525	1	6,331
REACTOME_GLYCOSAMINOGLYCAN_METABOLISM	108	0.303898	1.089995	0.378882	0.452973	1	6,608
CHIARETTI_T_ALL_RELAPSE_PROGNOSIS	19	0.398225	1.089978	0.366864	0.452698	1	1,784
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP	165	0.268459	1.089341	0.326923	0.453284	1	6,288
PID_TNF_PATHWAY	45	0.322003	1.089037	0.339216	0.453404	1	5,598
KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	54	0.308936	1.088664	0.353535	0.453612	1	9,103
ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF	472	0.273081	1.088032	0.348249	0.454194	1	6,550
BIOCARTA_RARRXR_PATHWAY	15	0.388618	1.087974	0.36811	0.453971	1	7,601
LIU_VMYB_TARGETS_UP	117	0.280345	1.087296	0.336	0.454621	1	6,986
REACTOME_PHOSPHOLIPID_METABOLISM	187	0.255818	1.086876	0.31681	0.454909	1	4,504
PID_HDAC_CLASSIII_PATHWAY	24	0.34673	1.086674	0.341365	0.454864	1	4,365
SCHLOSSER_SERUM_RESPONSE_UP	126	0.268372	1.086457	0.332677	0.454852	1	6,942
GUILLAUMOND_KLF10_TARGETS_DN	30	0.329279	1.08544	0.349624	0.455986	1	7,766
LEE_NEURAL_CREST_STEM_CELL_DN	110	0.281749	1.085268	0.34322	0.455904	1	5,806
KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	66	0.298916	1.085071	0.354906	0.455896	1	5,386
YANG_BCL3_TARGETS_UP	345	0.246349	1.084425	0.336576	0.456518	1	5,296
HOWLIN_CITED1_TARGETS_1_DN	35	0.3815	1.08406	0.393574	0.456721	1	8,054
KEGG_MTOR_SIGNALING_PATHWAY	51	0.283718	1.083224	0.356736	0.457533	1	3,545
BRUNO_HEMATOPOIESIS	63	0.295556	1.082921	0.361925	0.45765	1	5,596

ULE_SPLICING_VIA_NOVA2	43	0.339126	1.082243	0.37232	0.458301	1	8,003
DANG_REGULATED_BY_MYC_DN	245	0.280312	1.081392	0.362919	0.45918	1	8,703
ZWANG_CLASS_2_TRANSIENTLY_INDUCED_BY_EGF	44	0.319048	1.081379	0.37422	0.458901	1	6,198
REACTOME_CIRCADIAN_CLOCK	50	0.338295	1.081316	0.389764	0.458677	1	5,500
GENTILE_UV_RESPONSE_CLUSTER_D6	35	0.369406	1.081275	0.376494	0.458439	1	4,361
ZHANG_TLX_TARGETS_UP	108	0.276539	1.079983	0.326	0.460009	1	5,422
NIKOLSKY_MUTATED_AND_AMPLIFIED_IN_BREAST_CANCER	88	0.265528	1.079382	0.303393	0.460487	1	7,519
BROWNE_HCMV_INFECTION_24HR_UP	139	0.24125	1.078719	0.324853	0.461133	1	6,100
SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_UP	22	0.407445	1.078305	0.403131	0.461447	1	2,874
HUNSBERGER_EXERCISE_REGULATED_GENES	30	0.32596	1.077197	0.363095	0.462605	1	8,836
REACTOME_METABOLISM_OF_STEROID_HORMONES_AND_VITAMINS_A_AND_D	33	0.311695	1.075674	0.344488	0.464428	1	5,303
KANG_DOXORUBICIN_RESISTANCE_DN	18	0.465847	1.075619	0.415842	0.464198	1	6,769
KEGG_ENDOMETRIAL_CANCER	52	0.320764	1.075139	0.360324	0.464552	1	3,999
BIOCARTA_SPRY_PATHWAY	18	0.378786	1.074868	0.390533	0.464623	1	3,938
PARENT_MTOR_SIGNALING_DN	42	0.292416	1.073854	0.34263	0.465714	1	5,462
LOPES_METHYLATED_IN_COLON_CANCER_DN	28	0.319074	1.073665	0.340509	0.465678	1	3,656
SYED ESTRADIOL_RESPONSE	19	0.35912	1.073212	0.379798	0.46599	1	5,043
LEE_LIVER_CANCER_DENA_UP	60	0.29058	1.073203	0.348454	0.465702	1	3,566
LEE_LIVER_CANCER_CIPROFIBRATE_UP	60	0.280889	1.072513	0.345188	0.466373	1	6,638
VALK_AML_CLUSTER_8	23	0.334019	1.071801	0.362348	0.467089	1	3,432
GRADE_COLON_VS_RECTAL_CANCER_UP	30	0.328416	1.07146	0.379048	0.467267	1	7,324
BHAT_ESR1_TARGETS_VIA_AKT1_DN	78	0.297073	1.071455	0.360161	0.466969	1	3,848
TURASHVILI_BREAST_CARCINOMA_DUCTAL_VS_LOBULAR_UP	20	0.384134	1.070243	0.382353	0.468337	1	2,408
CHEOK_RESPONSE_TO_HD_MTX_UP	21	0.351462	1.070228	0.362745	0.468064	1	6,269
WEI_MIR34A_TARGETS	142	0.288788	1.069272	0.372047	0.46907	1	6,787
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_UP	165	0.261774	1.069172	0.348337	0.468912	1	7,633
REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_EXPRESSION	33	0.37211	1.068998	0.390196	0.46887	1	7,366
PID_TGFBR_PATHWAY	55	0.336969	1.068769	0.385859	0.46888	1	5,532
CHEN_HOXA5_TARGETS_9HR_UP	209	0.299721	1.068721	0.382813	0.468645	1	8,922
HOFMANN_CELL_LYMPHOMA_UP	46	0.326085	1.06867	0.379576	0.468409	1	6,252
REACTOME_GAB1_SIGNALOSOME	36	0.314985	1.068374	0.371717	0.468543	1	5,040
BIOCARTA_HCMV_PATHWAY	17	0.412098	1.068059	0.391039	0.468656	1	6,022
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP	379	0.299709	1.067489	0.38114	0.469146	1	8,611
BROWNE_HCMV_INFECTION_14HR_DN	285	0.240985	1.067285	0.344262	0.469114	1	4,489
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN	49	0.296886	1.067236	0.356164	0.468881	1	9,947
BAKER_HEMATOPOIESIS_STAT3_TARGETS	16	0.401468	1.066913	0.37594	0.469003	1	7,733
DAIRKEE_CANCER_PRONE_RESPONSE_E2	28	0.319019	1.065774	0.344398	0.470343	1	3,983
NAKAMURA_METASTASIS	44	0.313005	1.065391	0.365613	0.470601	1	6,197
KEGG_SMALL_CELL_LUNG_CANCER	84	0.295982	1.063851	0.369942	0.472406	1	6,638

HINATA_NFKB_TARGETS_KERATINOCYTE_UP	90	0.309979	1.063776	0.373254	0.472207	1	6,322
POS_HISTAMINE_RESPONSE_NETWORK	32	0.329348	1.063695	0.385047	0.472033	1	4,571
PENG_GLUTAMINE_DEPRIVATION_UP	37	0.288814	1.063198	0.365571	0.47246	1	5,294
MILI_PSEUDOPODIA_CHEMOTAXIS_UP	69	0.304883	1.062501	0.376984	0.473145	1	6,294
PID_RHODOPSIN_PATHWAY	22	0.322844	1.060748	0.376471	0.475253	1	5,764
AMIT_SERUM_RESPONSE_40_MCF10A	32	0.392951	1.060584	0.389899	0.475167	1	5,429
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	70	0.35056	1.059407	0.401623	0.476515	1	8,442
WESTON_VEGFA_TARGETS_12HR	35	0.345422	1.05938	0.408284	0.476251	1	5,982
BURTON_ADIPOGENESIS_2	72	0.297543	1.05919	0.379921	0.476237	1	1,762
SMID_BREAST_CANCER_RELAPSE_IN_BONE_UP	93	0.283028	1.058667	0.346639	0.476688	1	3,678
DIRMEIER_LMP1_RESPONSE_LATE_UP	55	0.326637	1.058567	0.387629	0.476509	1	1,646
PETRETTO_HEART_MASS_QTL_CIS_UP	27	0.311077	1.05833	0.401198	0.476572	1	5,041
KEGG_TIGHT_JUNCTION	126	0.2584	1.058301	0.376016	0.476304	1	2,121
BERNARD_PPAPDC1B_TARGETS_DN	51	0.294284	1.057925	0.372277	0.476523	1	3,491
ZHANG_GATA6_TARGETS_DN	61	0.273769	1.057802	0.351967	0.476398	1	5,009
KEGG_INSULIN_SIGNALING_PATHWAY	135	0.259144	1.057482	0.366279	0.476506	1	4,043
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN	35	0.332247	1.056696	0.37451	0.477305	1	7,636
WANG_CISPLATIN_RESPONSE_AND_XPC_DN	220	0.258828	1.055452	0.365613	0.478647	1	6,804
BIOCARTA_INTRINSIC_PATHWAY	22	0.379659	1.054854	0.388889	0.479184	1	6,638
GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_DN	18	0.360931	1.054371	0.372549	0.479599	1	6,485
JOHNSTONE_PARVB_TARGETS_1_DN	57	0.35869	1.054356	0.420635	0.479318	1	6,837
FIGUEROA_AML_METHYLATION_CLUSTER_1_DN	42	0.270816	1.053819	0.357143	0.479748	1	4,871
NAKAMURA_ADIPOGENESIS_LATE_DN	37	0.351248	1.052628	0.375479	0.481153	1	7,899
MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH	15	0.396201	1.052568	0.380583	0.480919	1	1,658
SANA_RESPONSE_TO_IFNG_UP	75	0.394318	1.052346	0.439024	0.480948	1	9,213
DORSAM_HOXA9_TARGETS_DN	32	0.310201	1.051208	0.386233	0.482242	1	7,787
ZHAN_MULTIPLE_MYELOMA_HP_DN	43	0.327012	1.050743	0.372047	0.482639	1	3,214
MEISSNER_NPC_ICP_WITH_H3_UNMETHYLATED	23	0.339097	1.048351	0.396078	0.485702	1	5,292
PID_NFKAPPAB_CANONICAL_PATHWAY	23	0.370816	1.047675	0.409804	0.486382	1	6,322
BIOCARTA_VEGF_PATHWAY	29	0.326298	1.046669	0.414179	0.48748	1	3,585
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_DN	41	0.306298	1.046644	0.38755	0.487222	1	7,832
XU_CREBBP_TARGETS_DN	42	0.323053	1.046012	0.383838	0.487802	1	2,692
REACTOME_RORA_ACTIVATES_CIRCADIAN_EXPRESSION	23	0.381424	1.045788	0.441406	0.4878	1	8,523
VALK_AML_WITH_11Q23_REARRANGED	19	0.352983	1.044672	0.391218	0.489078	1	7,733
PID_INTEGRIN5_PATHWAY	17	0.409612	1.043037	0.419802	0.491046	1	3,898
ZHAN_LATE_DIFFERENTIATION_GENES_DN	15	0.376627	1.042926	0.400394	0.490898	1	4,802
AMIT_SERUM_RESPONSE_60_MCF10A	56	0.328112	1.042452	0.427419	0.491281	1	5,412
REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA_CELLS	20	0.404409	1.041754	0.431683	0.49197	1	9,515
NIKOLSKY_BREAST_CANCER_21Q22_AMPLICON	15	0.417192	1.041693	0.427992	0.491756	1	3,786

YAMASHITA_LIVER_CANCER_STEM_CELL_DN	74	0.282783	1.041544	0.380392	0.491666	1	6,915
MAHAJAN_RESPONSE_TO_IL1A_DN	72	0.310273	1.040534	0.410463	0.492808	1	6,587
PID_WNT_NONCANONICAL_PATHWAY	32	0.334635	1.040407	0.416503	0.492675	1	4,571
REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	27	0.314215	1.040223	0.412	0.492612	1	7,007
BIOCARTA_IGF1R_PATHWAY	22	0.346592	1.040069	0.41	0.492527	1	6,575
BENPORATH_OCT4_TARGETS	277	0.235181	1.039558	0.385069	0.49298	1	5,521
KATSANOUELAVL1_TARGETS_DN	142	0.248739	1.038799	0.380282	0.493749	1	5,882
TRACEY_RESISTANCE_TO_IFNA2_DN	28	0.346291	1.03844	0.409369	0.493967	1	1,632
BROWNE_HCMV_INFECTION_20HR_DN	97	0.287039	1.037754	0.424	0.494657	1	4,057
LU_EZH2_TARGETS_DN	362	0.281164	1.036943	0.423077	0.495549	1	7,342
PIONTEK_PKD1_TARGETS_UP	36	0.297696	1.036894	0.404669	0.495305	1	7,023
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	83	0.329656	1.036846	0.420432	0.495054	1	8,653
PASINI_SUZ12_TARGETS_UP	101	0.241833	1.035074	0.394683	0.497303	1	6,316
NEMETH_INFLAMMATORY_RESPONSE_LPS_DN	31	0.331838	1.034804	0.434034	0.497377	1	2,977
REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_RAS	27	0.334372	1.034753	0.415354	0.497137	1	10,125
PID_RET_PATHWAY	39	0.31886	1.034091	0.414683	0.497759	1	6,022
DAZARD_UV_RESPONSE_CLUSTER_G6	143	0.334899	1.032484	0.44358	0.499727	1	7,092
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_DN	86	0.290338	1.031647	0.410822	0.500587	1	6,276
GRAHAM_CML QUIESCENT_VS_NORMAL_DIVIDING_UP	52	0.299091	1.030683	0.401174	0.501628	1	2,649
KOHOUTEK_CCNT2_TARGETS	54	0.255216	1.030492	0.421488	0.501608	1	7,895
KEGG_PANCREATIC_CANCER	69	0.296663	1.030282	0.432323	0.50161	1	5,099
SENGUPTA_EBNA1_ANTICORRELATED	147	0.269867	1.030032	0.409804	0.501646	1	6,327
PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY	35	0.342206	1.029078	0.433333	0.502715	1	6,022
LIN_MELANOMA_COPY_NUMBER_DN	41	0.331733	1.028069	0.417004	0.5039	1	5,656
JIANG_AGING_CEREBRAL_CORTEX_UP	35	0.323676	1.02773	0.412916	0.504098	1	6,024
OSMAN_BLADDER_CANCER_UP	388	0.311433	1.027364	0.413793	0.504319	1	6,399
PID_INSULIN_PATHWAY	45	0.313591	1.027321	0.447732	0.504066	1	7,736
HINATA_NFKB_TARGETS_FIBROBLAST_UP	83	0.292446	1.027307	0.40568	0.503781	1	6,322
BIOCARTA_NDKDYNAMIN_PATHWAY	18	0.349929	1.027295	0.447732	0.503488	1	6,079
ALCALAY_AML_BY_NPM1_LOCALIZATION_UP	132	0.24768	1.026641	0.415289	0.504154	1	7,637
SIMBULAN_PARP1_TARGETS_UP	31	0.329687	1.026207	0.425703	0.504453	1	4,369
ST_GA13_PATHWAY	37	0.294438	1.025993	0.420202	0.504491	1	6,322
REACTOME_PRE_NOTCH_TRANSCRIPTION_AND_TRANSLATION	23	0.350205	1.02597	0.439306	0.504213	1	7,056
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_DN	97	0.276062	1.025721	0.413043	0.504251	1	6,478
KOBAYASHI_EGFR_SIGNALING_24HR_UP	95	0.264366	1.022804	0.415205	0.508201	1	3,702
YOSHIOKA_LIVER_CANCER_EARLY_RECURRENCE_UP	37	0.283782	1.020944	0.414063	0.51052	1	1,595
KIM_BIPOLAR_DISORDER_OLIGODENDROCYTE_DENSITY_CORR_DN	81	0.256983	1.020761	0.416667	0.510462	1	2,394
REACTOME_COLLAGEN_FORMATION	54	0.361083	1.020563	0.44685	0.510418	1	8,653
LI_PROSTATE_CANCER_EPIGENETIC	30	0.306324	1.018297	0.438384	0.513415	1	4,517

LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_LARGE_VS_TINY_UP	42	0.312093	1.017901	0.442043	0.513686	1	4,598
KARLSSON_TGFB1_TARGETS_DN	201	0.244795	1.017737	0.418367	0.513602	1	6,360
WANG_CLASSIC_ADIPOGENIC_TARGETS_OF_PPARG	26	0.33755	1.017732	0.414141	0.513295	1	5,586
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_DN	18	0.393405	1.01767	0.452525	0.513076	1	3,638
KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOMYOPATHY_ARVC	74	0.304632	1.017518	0.466667	0.512988	1	5,218
WEBER_METHYLATED_IN_COLON_CANCER	18	0.313217	1.017377	0.416503	0.512887	1	6,695
MARTIN_INTERACT_WITH_HDAC	43	0.292323	1.01642	0.430799	0.513941	1	7,733
TAVOR_CEBPA_TARGETS_DN	30	0.32283	1.016104	0.433206	0.514063	1	3,813
WOO_LIVER_CANCER_RECURRENCE_UP	102	0.279946	1.015896	0.431953	0.51405	1	6,641
RIGGINS_TAMOXIFEN_RESISTANCE_UP	65	0.264165	1.015874	0.429461	0.513759	1	4,304
IVANOVA_HEMATOPOIESIS_STEM_CELL_SHORT_TERM	29	0.331473	1.01587	0.438735	0.513456	1	4,768
FINETTI_BREAST_CANCERS_KINOME_BLUE	21	0.339912	1.015333	0.426	0.513936	1	3,583
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_DN	17	0.328174	1.015146	0.458574	0.513908	1	7,437
MACAEVA_PBMC_RESPONSE_TO_IR	90	0.27363	1.01432	0.431373	0.514834	1	7,637
JEPSEN_SMRT_TARGETS	33	0.298652	1.013951	0.452794	0.515055	1	5,533
GALINDO_IMMUNE_RESPONSE_TO_ENTEROTOXIN	81	0.299844	1.013942	0.439024	0.514756	1	6,413
GOLUB_ALL_VS_AML_DN	23	0.352208	1.013904	0.427403	0.514499	1	6,322
BIOCARTA_PML_PATHWAY	17	0.350374	1.013262	0.454198	0.515106	1	1,197
HAHTOLA_SEZARY_SYNDROM_UP	93	0.282862	1.012936	0.445833	0.515251	1	1,794
VANHARANTA_UTERINE_FIBROID_UP	44	0.335188	1.012723	0.449505	0.515265	1	8,433
LIU_SOX4_TARGETS_UP	128	0.280809	1.01269	0.430769	0.514998	1	7,116
SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES	50	0.315668	1.012643	0.429134	0.514757	1	3,935
TERAO_AOX4_TARGETS_HG_UP	28	0.310746	1.012413	0.433538	0.514761	1	6,072
REACTOME_IL1_SIGNALING	38	0.300148	1.012192	0.435388	0.514779	1	5,192
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_ERYTHROCYTE_UP	44	0.298287	1.011854	0.425703	0.514995	1	4,606
BRACHAT_RESPONSE_TO_CAMPTOTHECIN_UP	26	0.316162	1.010124	0.442043	0.517227	1	4,501
BIOCARTA_MAPK_PATHWAY	86	0.267575	1.009911	0.449799	0.517206	1	6,322
CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_HD_MTX_DN	21	0.311128	1.009804	0.462891	0.517044	1	2,531
IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR	500	0.244827	1.00963	0.436364	0.516984	1	5,418
KEGG_ETHER_LIPID_METABOLISM	29	0.29494	1.008758	0.430642	0.517931	1	1,031
PID_ATF2_PATHWAY	58	0.279899	1.008631	0.440404	0.517793	1	8,653
BIOCARTA_ECM_PATHWAY	24	0.365363	1.008242	0.434442	0.518061	1	2,671
WARTERS_RESPONSE_TO_IR_SKIN	72	0.275207	1.007754	0.452381	0.518444	1	3,645
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	51	0.263066	1.00762	0.451292	0.518322	1	5,421
CAIRO_HEPATOBLASTOMA_UP	198	0.275876	1.005999	0.445148	0.520346	1	6,903
LINDGREN_BLADDER_CANCER_CLUSTER_1_UP	107	0.281866	1.005905	0.457831	0.520189	1	7,976
BROWNE_HCMV_INFECTION_18HR_UP	172	0.265598	1.005542	0.453815	0.520387	1	6,111
ENK_UV_RESPONSE_EPIDERMIS_DN	492	0.236371	1.00511	0.438492	0.52068	1	5,467
HEDENFALK_BREAST_CANCER_BRACX_DN	19	0.320687	1.004358	0.459016	0.521488	1	9,400

KRASNOSELSKAYA_ILF3_TARGETS_UP	38	0.366849	1.003119	0.459725	0.522892	1	2,242
VARELA_ZMPSTE24_TARGETS_DN	37	0.292265	1.002587	0.454918	0.523309	1	1,817
BURTON_ADIPOGENESIS_12	31	0.376613	1.002196	0.465887	0.523548	1	8,234
ALONSO_METASTASIS_NEURAL_UP	17	0.360939	1.000554	0.474012	0.525694	1	7,773
KEGG_BASAL_CELL_CARCINOMA	54	0.282088	1.000479	0.419223	0.525498	1	6,184
YANG_BREAST_CANCER_ESR1_UP	34	0.295015	1.000375	0.458333	0.52535	1	3,466
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_DN	17	0.365439	1.000135	0.482072	0.525362	1	7,780
OUYANG_PROSTATE_CANCER_MARKERS	19	0.323806	0.999577	0.460952	0.525854	1	1,207
XU_GH1_AUTOCRINE_TARGETS_DN	133	0.252381	0.999363	0.450397	0.525852	1	3,491
PID_UPA_UPAR_PATHWAY	42	0.330562	0.99909	0.457198	0.525951	1	4,914
CHENG_IMPRINTED_BY ESTRADIOL	100	0.229275	0.998375	0.429412	0.526695	1	4,160
SAKAI_TUMOR_INFILTRATING_MONOCYTES_UP	27	0.327503	0.997658	0.467078	0.527428	1	5,192
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_UP	17	0.37652	0.997471	0.465209	0.527383	1	2,940
SMID_BREAST_CANCER_LUMINAL_B_UP	163	0.252657	0.996803	0.441767	0.528006	1	4,987
RIZ_ERYTHROID_DIFFERENTIATION_6HR	35	0.291894	0.996736	0.447937	0.527791	1	3,726
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_UP	17	0.36611	0.99665	0.463366	0.527615	1	9,642
MASSARWEH_RESPONSE_TO ESTRADIOL	58	0.282181	0.995874	0.439604	0.528426	1	6,336
SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_UP	64	0.247806	0.995376	0.466667	0.528869	1	5,675
KAN_RESPONSE_TO_ARSENIC_TRIOXIDE	119	0.265068	0.994209	0.440239	0.530195	1	3,565
BECKER_TAMOXIFEN_RESISTANCE_DN	51	0.295409	0.993363	0.443378	0.531089	1	7,501
KOYAMA_SEMA3B_TARGETS_DN	371	0.21799	0.992903	0.433962	0.531455	1	7,629
HELLER_SILENCED_BY METHYLATION_DN	101	0.282897	0.992841	0.467213	0.531232	1	5,816
BIOCARTA_P38MAPK_PATHWAY	39	0.299732	0.991882	0.469636	0.532366	1	6,626
LEE_LIVER_CANCER_MYC_DN	60	0.296655	0.989375	0.443798	0.535613	1	8,064
URS_ADIPOCYTE_DIFFERENTIATION_DN	30	0.324103	0.989334	0.455466	0.53536	1	6,691
OSMAN_BLADDER_CANCER_DN	360	0.245102	0.988219	0.450292	0.536664	1	5,396
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_DN	28	0.339704	0.986971	0.459016	0.538216	1	4,563
GAJATE_RESPONSE_TO_TRABECTEDIN_UP	65	0.264337	0.986651	0.470942	0.538355	1	6,264
ST_GA12_PATHWAY	23	0.297313	0.986126	0.475096	0.538807	1	6,871
PID_INTEGRIN3_PATHWAY	43	0.336043	0.985699	0.470019	0.539139	1	3,898
DARWICHE_PAPILLOMA_PROGRESSION_RISK	67	0.240371	0.985674	0.471888	0.538865	1	5,307
REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND_DEGRADATION	17	0.338244	0.985357	0.470472	0.539023	1	10,059
AMUNDSON_RESPONSE_TO_ARSENITE	214	0.245204	0.984775	0.451677	0.539556	1	5,422
ZWANG_DOWN_BY_2ND_EGF_PULSE	232	0.228032	0.98464	0.478927	0.539453	1	6,396
BOYLAN_MULTIPLE_MYELOMA_D_UP	84	0.24364	0.983581	0.482422	0.540744	1	6,315
MEISSNER_BRAIN_HCP_WITH_H3K4ME2	16	0.328857	0.983328	0.465619	0.54077	1	3,905
MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_DN	121	0.234265	0.982332	0.480237	0.541917	1	3,771
JISON_SICKLE_CELL_DISEASE_DN	175	0.257506	0.981549	0.445693	0.542736	1	4,082
WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_H2O2	38	0.280676	0.981093	0.496	0.543064	1	3,693

REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	35	0.277285	0.980939	0.475992	0.542967	1	6,022
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR	34	0.280924	0.980473	0.474359	0.543344	1	7,506
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE	71	0.264409	0.979394	0.462151	0.544644	1	6,322
PID_VEGFR1_PATHWAY	26	0.334143	0.979257	0.472062	0.544536	1	6,022
PID_HIF2PATHWAY	34	0.303959	0.979204	0.49495	0.544296	1	2,376
REACTOME_CELL_CELL_COMMUNICATION	109	0.2575	0.979102	0.48008	0.544126	1	6,240
REACTOME_TRAF6_MEDIATED_INDUCATION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION	75	0.258054	0.978727	0.466019	0.544329	1	6,322
HAN_JNK_SINGALING_UP	35	0.317146	0.978615	0.484909	0.544189	1	8,281
REACTOME_LYSOSOME_VESICLE_BIOGENESIS	23	0.32319	0.977864	0.473029	0.544999	1	6,705
VISALA_AGING_LYMPHOCYTE_DN	19	0.325783	0.977716	0.490079	0.544872	1	4,563
GRYDER_PAX3FOXO1_TOP_ENHANCERS	429	0.247861	0.977647	0.458414	0.544672	1	6,903
KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATION	83	0.253191	0.977438	0.48622	0.54467	1	5,096
BURTON_ADIPOGENESIS_10	28	0.329658	0.977189	0.484277	0.544731	1	4,138
SHAFFER_IRF4_TARGETS_IN_ACTIVATED_DENDRITIC_CELL	62	0.29875	0.977009	0.486869	0.544677	1	6,141
SCHEIDEREIT_IKK_INTERACTING_PROTEINS	57	0.269931	0.976665	0.501931	0.544871	1	5,914
RUAN_RESPONSE_TO_TNF_DN	83	0.256491	0.975976	0.461378	0.545617	1	4,916
BROWNE_HCMV_INFECTION_6HR_UP	66	0.252299	0.975892	0.502075	0.54545	1	5,441
PID_VEGFR1_2_PATHWAY	69	0.289517	0.975299	0.474206	0.545964	1	6,022
DAUER_STAT3_TARGETS_UP	48	0.323843	0.975272	0.484	0.545692	1	6,294
XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_UP	16	0.376091	0.974898	0.498039	0.545926	1	414
REACTOME_GLUTAMATE_NEUROTRANSMITTER_RELEASE_CYCLE	15	0.368305	0.974773	0.5	0.545804	1	5,470
KYNG_NORMAL_AGING_DN	27	0.324217	0.974551	0.481188	0.545826	1	6,567
BOYLAN_MULTIPLE_MYELOMA_C_UP	45	0.262272	0.974023	0.494163	0.546338	1	5,344
MATZUK_MALE_REPRODUCTION_SERTOLI	28	0.279968	0.973858	0.491089	0.546263	1	6,722
APPEL_IMATINIB_RESPONSE	32	0.382186	0.973569	0.483051	0.546362	1	8,890
IKEDA_MIR1_TARGETS_UP	53	0.351943	0.972137	0.488235	0.548093	1	9,209
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN	107	0.250763	0.971781	0.461066	0.548311	1	2,977
BIOCARTA_STRESS_PATHWAY	25	0.315072	0.971656	0.493151	0.54817	1	8,010
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_8	46	0.26788	0.970803	0.483366	0.549093	1	5,073
BIOCARTA_BCELLSURVIVAL_PATHWAY	16	0.354247	0.968267	0.502092	0.552483	1	2,045
SIG_CD40PATHWAYMAP	34	0.274405	0.968181	0.491461	0.552274	1	6,410
MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6	47	0.274627	0.967996	0.496169	0.552227	1	5,294
BOYALT_LIVER_CANCER_SUBCLASS_G1_DN	40	0.299788	0.967715	0.486653	0.552323	1	1,996
FARMER_BREAST_CANCER_CLUSTER_6	15	0.377747	0.967694	0.508911	0.55203	1	580
NELSON_RESPONSE_TO_ANDROGEN_UP	84	0.276015	0.96769	0.47561	0.551724	1	6,681
KIM_WT1_TARGETS_UP	209	0.260765	0.967298	0.48723	0.551979	1	6,322
HOWLIN_CITED1_TARGETS_2_UP	16	0.311954	0.967133	0.517787	0.551906	1	6,362

SUBTIL_PROGESTIN_TARGETS	36	0.279081	0.967047	0.507968	0.551718	1	4,236
CHEN_NEUROBLASTOMA_COPY_NUMBER_GAINS	49	0.25758	0.964671	0.506048	0.554882	1	4,115
NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	119	0.31139	0.963684	0.518447	0.555985	1	7,217
HOSHIDA_LIVER_CANCER_SUBCLASS_S3	260	0.250626	0.963449	0.486653	0.555993	1	5,014
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_DN	178	0.245783	0.962627	0.51	0.556927	1	6,362
REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	50	0.289491	0.962624	0.490605	0.556613	1	7,525
ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_DN	171	0.228047	0.962189	0.494208	0.55695	1	4,973
SANA_TNF_SIGNALING_UP	81	0.320281	0.962108	0.499002	0.55677	1	8,891
REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS	22	0.337055	0.961955	0.509881	0.556664	1	5,937
PID_HNF3B_PATHWAY	45	0.285197	0.961815	0.480412	0.556569	1	8,564
ABBUD_LIF_SIGNALING_1_DN	26	0.321013	0.961644	0.506303	0.556524	1	2,348
BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_DN	31	0.289079	0.961458	0.505285	0.55647	1	2,424
PID_FAK_PATHWAY	58	0.310296	0.961432	0.505952	0.556192	1	3,890
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP	23	0.364125	0.960552	0.509921	0.557186	1	6,484
LANDEMAINE_LUNG_METASTASIS	20	0.313446	0.959339	0.514644	0.558641	1	970
GILDEA_METASTASIS	28	0.336194	0.959196	0.527383	0.55854	1	6,776
REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT	30	0.338479	0.95718	0.507099	0.561164	1	6,837
BOYLAN_MULTIPLE_MYELOMA_C_D_UP	131	0.232992	0.955976	0.512974	0.562648	1	5,594
TOMLINS_METASTASIS_DN	19	0.329304	0.955215	0.473469	0.563462	1	6,630
PID_AVB3_INTEGRIN_PATHWAY	74	0.305331	0.955199	0.492126	0.56317	1	8,760
WNT_SIGNALING	85	0.233893	0.954825	0.524753	0.563405	1	5,354
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5	436	0.244585	0.954319	0.519348	0.563864	1	4,115
ZWANG_EGF_INTERVAL_UP	82	0.229267	0.953706	0.540076	0.564468	1	7,940
DAVICIONI_MOLECULAR_ARMS_VS_ERMS_DN	169	0.240793	0.952638	0.495816	0.565637	1	2,105
LEE_LIVER_CANCER_E2F1_DN	61	0.283224	0.951939	0.52495	0.566355	1	6,472
WATTEL_AUTONOMOUS_THYROID_ADENOMA_UP	72	0.23643	0.950647	0.510593	0.567904	1	5,872
PID_HIV_NEF_PATHWAY	35	0.294228	0.950473	0.522177	0.567835	1	1,459
REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_MODIFICATION	33	0.330545	0.94959	0.494024	0.568852	1	7,874
KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_UP	20	0.314819	0.949251	0.516505	0.569071	1	6,722
REACTOME_JNK_C_JUN_KINASES_PHOSPHORYLATION_AND_ACTIVATION_MEDIATED_BY_ACTIVATED_HUMAN_TAK1	16	0.350256	0.949022	0.521825	0.569112	1	4,503
YAMASHITA_METHYLATED_IN_PROSTATE_CANCER	53	0.263982	0.94879	0.5625	0.569148	1	7,458
BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_DN	57	0.26456	0.948674	0.530121	0.568993	1	6,950
GERHOLD_ADIPOGENESIS_DN	63	0.283411	0.947759	0.484909	0.570069	1	5,420
LU_TUMOR_VASCULATURE_UP	29	0.321455	0.947591	0.516899	0.570015	1	7,030
REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR	122	0.27012	0.94753	0.489152	0.569795	1	5,294
PID_BETA_CATENIN_NUC_PATHWAY	73	0.259456	0.947218	0.500994	0.569942	1	6,184
DOANE_BREAST_CANCER_ESR1_UP	106	0.242798	0.946695	0.512871	0.570363	1	5,771
MANALO_HYPOXIA_UP	201	0.252735	0.946664	0.511858	0.570096	1	6,638

SCHEIDEREIT_IKK_TARGETS	17	0.330717	0.946394	0.519157	0.570173	1	6,322
RICKMAN_METASTASIS_UP	316	0.238795	0.946016	0.495146	0.570381	1	5,297
TANAKA_METHYLATED_IN_ESOPHAGEAL_CARCCINOMA	94	0.228572	0.945819	0.549383	0.570367	1	7,310
REACTOME_HS_GAG_BIOSYNTHESIS	31	0.288511	0.943963	0.524655	0.572786	1	8,431
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN	139	0.245882	0.943699	0.522449	0.57283	1	5,111
SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCYTES	66	0.269409	0.943436	0.529865	0.572899	1	5,223
WUNDER_INFLAMMATORY_RESPONSE_AND_CHOLESTEROL_UP	56	0.300988	0.941865	0.515091	0.574895	1	8,522
YAGI_AML_WITH_INV_16_TRANSLOCATION	405	0.203771	0.939722	0.555777	0.577721	1	5,223
TIEN_INTESTINE_PROBIOTICS_2HR_DN	85	0.287378	0.939603	0.521912	0.577591	1	8,058
CHOW_RASSF1_TARGETS_UP	27	0.302298	0.939551	0.518887	0.577346	1	989
WENDT_COHESIN_TARGETS_UP	32	0.346098	0.939076	0.543137	0.577761	1	7,483
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	156	0.252141	0.938485	0.514677	0.578332	1	6,829
WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP	113	0.249153	0.937375	0.528807	0.579655	1	5,982
BIOCARTA_ERK_PATHWAY	28	0.304642	0.936854	0.536	0.580082	1	4,271
WENG_POR_TARGETS_LIVER_DN	19	0.328416	0.936487	0.520661	0.58031	1	1,996
JOHNSTONE_PARVB_TARGETS_2_DN	315	0.276791	0.936457	0.522088	0.580036	1	8,046
REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_METABOLISM	52	0.266842	0.935982	0.53527	0.580412	1	7,838
MODY_HIPPOCAMPUS_POSTNATAL	60	0.266626	0.935397	0.535857	0.580966	1	3,945
PID_HIF1_TFPATHWAY	65	0.27138	0.935099	0.516461	0.581091	1	5,111
REACTOME_TRANS_GOLGI_NETWORK_VESICLE_BUDDING	57	0.282446	0.933498	0.527542	0.583165	1	7,525
SENESE_HDAC1_TARGETS_UP	427	0.27798	0.933398	0.52621	0.583003	1	6,973
KEGG_ADHERENS_JUNCTION	68	0.283662	0.932626	0.509921	0.583822	1	5,133
VANTVEER_BREAST_CANCER_METASTASIS_UP	54	0.250816	0.932479	0.521212	0.583707	1	5,858
HOLLEMAN_VINCRIStINE_RESISTANCE_ALL_UP	26	0.284816	0.931815	0.548638	0.584375	1	5,987
BIOCARTA_PYK2_PATHWAY	28	0.303849	0.929706	0.560078	0.587173	1	6,022
YOSHIMURA_MAPK8_TARGETS_DN	352	0.231971	0.929236	0.514644	0.587533	1	6,264
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP	60	0.298387	0.929161	0.543569	0.587314	1	5,842
PID_INTEGRIN1_PATHWAY	66	0.318875	0.928895	0.519763	0.587378	1	3,606
REACTOME_TRAF6_MEDIATED_NFKB_ACTIVATION	21	0.295416	0.926688	0.547758	0.590258	1	9,103
LEIN_MEDULLA_MARKERS	74	0.225454	0.926672	0.605317	0.58995	1	4,861
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN	171	0.259962	0.926247	0.545639	0.590214	1	7,097
MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP	169	0.25182	0.926107	0.526733	0.590099	1	8,057
REACTOME_PI3K_CASCADE	66	0.237912	0.925706	0.552894	0.59038	1	6,729
CHESLER_BRAIN_HIGHEST_EXPRESSION	38	0.278447	0.925415	0.569745	0.590452	1	2,954
CAIRO_HEPATOBLASTOMA_POOR_SURVIVAL	15	0.330472	0.92481	0.585742	0.591039	1	556
DE_YY1_TARGETS_UP	18	0.291666	0.924771	0.571717	0.590775	1	7,501
GRANDVAUX_IRF3_TARGETS_UP	15	0.409345	0.924353	0.532389	0.5911	1	8,522
BURTON_ADIPOGENESIS_7	49	0.272779	0.924117	0.513726	0.591127	1	3,458
PID_SYNDECAN_4_PATHWAY	31	0.288233	0.923902	0.523346	0.591128	1	6,950

LINDGREN_BLADDER_CANCER_WITH_LOH_IN_CHR9Q	106	0.303951	0.923293	0.516441	0.591726	1	7,829
RIZKI_TUMOR_INVASIVENESS_2D_UP	65	0.242541	0.922163	0.57764	0.593088	1	2,939
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN	43	0.328166	0.922022	0.544	0.59298	1	6,638
BIOCARTA_HSP27_PATHWAY	15	0.312424	0.922013	0.548781	0.592668	1	6,581
LIU_TARGETS_OF_VMYB_VS_CMYB_UP	16	0.320683	0.921199	0.555324	0.593531	1	8,214
BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_DN	40	0.259548	0.920532	0.572266	0.594225	1	7,662
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP	93	0.258906	0.919199	0.560396	0.595869	1	8,234
TSENG_ADIPOGENIC_POTENTIAL_UP	29	0.270579	0.917873	0.587992	0.597546	1	6,184
PID_RHOA_REG_PATHWAY	45	0.25871	0.916714	0.552846	0.598948	1	5,707
REACTOME_P13K_EVENTS_IN_ERBB2_SIGNALING	42	0.267448	0.915312	0.57485	0.600728	1	5,040
MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN	60	0.239164	0.915205	0.58502	0.600559	1	2,386
NABA_ECM_REGULATORS	224	0.227245	0.914602	0.566946	0.601138	1	8,039
ROZANOV_MMP14_TARGETS_DN	31	0.261112	0.914295	0.617234	0.601268	1	6,397
BOYAULT_LIVER_CANCER_SUBCLASS_G12_DN	15	0.310555	0.913852	0.586066	0.601602	1	2,376
RODWELL_AGING_KIDNEY_DN	132	0.246576	0.912082	0.552529	0.603888	1	9,696
SENESE_HDAC3_TARGETS_DN	488	0.20801	0.912077	0.596	0.60357	1	7,182
PHONG_TNF_RESPONSE_VIA_P38_COMPLETE	221	0.229674	0.911885	0.547244	0.603539	1	6,484
XU_HGF_SIGNALING_NOT_VIA_AKT1_48HR_UP	34	0.286765	0.911514	0.58642	0.603727	1	6,372
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN	146	0.226202	0.910536	0.564	0.604821	1	5,425
BOYAULT_LIVER_CANCER_SUBCLASS_G123_DN	49	0.295804	0.910305	0.544732	0.604826	1	841
PID_AR_PATHWAY	61	0.261511	0.910242	0.554	0.604622	1	5,969
RODRIGUES_THYROID_CARCINOMA_DN	74	0.270956	0.909345	0.535019	0.605613	1	5,104
DUTTA_APOPTOSIS_VIA_NFKB	33	0.299383	0.904271	0.559118	0.612816	1	1,597
PID_RHOA_PATHWAY	45	0.261067	0.903345	0.583658	0.6139	1	5,599
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	19	0.310018	0.902987	0.569524	0.614101	1	8,507
REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	19	0.328419	0.902017	0.567515	0.615209	1	7,310
BIOCARTA_CCR3_PATHWAY	23	0.299	0.900806	0.577778	0.616784	1	6,022
PODAR_RESPONSE_TO_ADAPHOSTIN_UP	142	0.257391	0.900173	0.548781	0.617397	1	4,598
BREUHAHN_GROWTH_FACTOR_SIGNALING_IN_LIVER_CANCER	22	0.310489	0.898864	0.593186	0.619097	1	4,143
WIEDERSCHAIN_TARGETS_OF_BMI1_AND_PCGF2	56	0.269831	0.898424	0.546845	0.619449	1	1,438
BOYAULT_LIVER_CANCER_SUBCLASS_G6_UP	61	0.237654	0.898019	0.583501	0.619746	1	3,999
MULLIGHAN_NPM1_SIGNATURE_3_UP	309	0.206437	0.897417	0.579681	0.620286	1	5,352
VANTVEER_BREAST_CANCER_BRCA1_DN	41	0.295628	0.895269	0.554604	0.623153	1	4,611
GOLUB_ALL_VS_AML_UP	24	0.300698	0.895223	0.572008	0.622895	1	2,356
BIOCARTA_RELA_PATHWAY	16	0.320725	0.895029	0.604743	0.622864	1	9,103
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES	30	0.301187	0.893335	0.573705	0.625111	1	9,364
SASSON_RESPONSE_TO_GONADOTROPHINS_DN	86	0.271083	0.892505	0.56746	0.626059	1	8,527
PID_LIS1_PATHWAY	28	0.291032	0.890866	0.567404	0.628232	1	4,401

TCGA_GLIOBLASTOMA_COPY_NUMBER_UP	69	0.246876	0.890745	0.591463	0.628097	1	6,664
PID_AJDISS_2PATHWAY	48	0.275691	0.890232	0.582505	0.628519	1	5,297
REACTOME_SIGNALING_BY_HIPPO	20	0.348465	0.890209	0.556911	0.628209	1	2,907
MA_MYELOID_DIFFERENTIATION_UP	38	0.260583	0.889915	0.590998	0.628285	1	6,335
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_DN	26	0.314621	0.88973	0.596741	0.628244	1	7,598
SHEN_SMARCA2_TARGETS_UP	412	0.296689	0.887962	0.551724	0.630498	1	8,361
PID_NCADHERIN_PATHWAY	33	0.29776	0.88772	0.586957	0.630531	1	2,671
GARCIA_TARGETS_OF_FLI1_AND_DAX1_UP	53	0.233665	0.887347	0.631902	0.630762	1	6,509
DURCHDEWALD_SKIN_CARCIANOGENESIS_DN	255	0.234502	0.886617	0.579256	0.631562	1	7,563
RAO_BOUND_BY_SALL4	212	0.215943	0.886275	0.592742	0.631744	1	8,321
FRIDMAN_SENESCENCE_UP	77	0.257886	0.886219	0.58517	0.631496	1	5,800
ST_G_ALPHA_S_PATHWAY	16	0.315407	0.885348	0.614	0.632472	1	8,478
HUMMERICH_BENIGN_SKIN_TUMOR_DN	18	0.2973	0.88479	0.617886	0.632975	1	5,586
HASLINGER_B_CLL_WITH_13Q14_DELETION	24	0.257041	0.884103	0.613726	0.633682	1	7,666
REACTOME_EGFR_DOWNREGULATION	25	0.27366	0.884017	0.598377	0.633491	1	3,890
MCDOWELL_ACUTE_LUNG_INJURY_UP	45	0.286359	0.883806	0.587084	0.633468	1	8,470
ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP	215	0.25058	0.883789	0.604211	0.633156	1	6,488
AMIT_EGF_RESPONSE_60_MCF10A	37	0.283978	0.883686	0.548134	0.632985	1	2,702
LEE_CALORIE_RESTRICTION_MUSCLE_DN	50	0.235802	0.883368	0.63522	0.633126	1	7,069
KIM_LIVER_CANCER_POOR_SURVIVAL_DN	42	0.292653	0.880683	0.591195	0.63693	1	5,294
KEGG_LYSOSOME	119	0.256761	0.880396	0.535565	0.63701	1	6,267
REACTOME_FRS2_MEDIATED_CASCADE	34	0.23486	0.878315	0.678643	0.639799	1	6,022
DANG_MYC_TARGETS_DN	30	0.292674	0.878009	0.596	0.639886	1	8,569
KANG_AR_TARGETS_UP	17	0.322176	0.877736	0.602484	0.639947	1	7,598
MATZUK_SPERMATID_DIFFERENTIATION	33	0.256942	0.876801	0.638835	0.641042	1	6,211
COLLIS_PRKDC_SUBSTRATES	20	0.306578	0.87651	0.581888	0.641152	1	8,396
DOUGLAS_BMI1_TARGETS_DN	302	0.218682	0.875917	0.588235	0.641698	1	7,000
RODWELL_AGING_KIDNEY_NO_BLOOD_DN	142	0.245896	0.875369	0.6	0.642202	1	1,617
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_DN	15	0.306553	0.874018	0.62173	0.643855	1	6,909
CHEOK_RESPONSE_TO_HD_MTX_DN	24	0.311366	0.873417	0.594433	0.644394	1	3,328
BILANGES_SERUM_SENSITIVE_VIA_TSC2	37	0.291777	0.872161	0.559921	0.645879	1	9,777
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_UP	62	0.235134	0.871553	0.653697	0.646467	1	3,281
PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_DN	145	0.207334	0.871474	0.667343	0.646235	1	4,652
BILANGES_SERUM_SENSITIVE_VIA_TSC1	21	0.278079	0.870744	0.661972	0.646974	1	6,234
SUMI_HNF4A_TARGETS	30	0.29271	0.870395	0.62249	0.647203	1	7,195
REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE_TYPE	50	0.247401	0.870273	0.657787	0.647058	1	5,048
REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS	18	0.300267	0.870214	0.6	0.646804	1	3,702
MATZUK_IMPLANTATION_AND_UTERINE	22	0.265167	0.868734	0.64454	0.648735	1	4,753
RIGGINS_TAMOXIFEN_RESISTANCE_DN	213	0.253275	0.868494	0.591919	0.648797	1	7,716

KANG_AR_TARGETS_DN	18	0.346767	0.867593	0.614035	0.649868	1	5,471
PID_TRAIL_PATHWAY	28	0.271142	0.867077	0.603586	0.650257	1	6,022
AZARE_STAT3_TARGETS	23	0.339296	0.867059	0.611006	0.649947	1	6,280
REACTOME_GLYCOPHINGOLIPID_METABOLISM	36	0.285993	0.866916	0.614141	0.649825	1	5,686
STEIN_ESRRA_TARGETS_DN	97	0.222677	0.866889	0.633663	0.649525	1	6,509
REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AND_ACTIVATION_OF_IKKS_COMPLEX	23	0.272634	0.86683	0.619503	0.649286	1	5,040
PID_IL1_PATHWAY	34	0.274962	0.866589	0.636917	0.64934	1	7,704
BROWN_MYELOID_CELL_DEVELOPMENT_DN	121	0.230913	0.866509	0.652427	0.649119	1	3,941
CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_LD_MTX_DN	19	0.27832	0.865365	0.684418	0.650552	1	5,854
OZANNE_API1_TARGETS_UP	15	0.313633	0.864992	0.629126	0.65079	1	4,914
GHANDHI_DIRECT_IRRADIATION_UP	99	0.230391	0.863482	0.634921	0.652726	1	3,340
PHONG_TNF_RESPONSE_NOT_VIA_P38	331	0.212209	0.863419	0.62449	0.652477	1	6,364
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	41	0.260473	0.863289	0.610101	0.652329	1	9,820
SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_UP	80	0.283126	0.862875	0.556202	0.652608	1	2,468
LE_SKI_TARGETS_UP	17	0.310353	0.862775	0.620825	0.652427	1	5,937
WEINMANN_ADAPTATION_TO_HYPOXIA_UP	28	0.272888	0.86264	0.634656	0.652282	1	5,841
WOTTON_RUNX_TARGETS_DN	27	0.27376	0.861787	0.664694	0.653198	1	8,495
REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	31	0.274836	0.861256	0.640496	0.653665	1	4,237
CASTELLANO_NRAS_TARGETS_UP	64	0.24044	0.858356	0.642276	0.657638	1	4,194
ABE_VEGFA_TARGETS_2HR	32	0.25118	0.856123	0.654472	0.660652	1	3,257
PATTERSON_DOCETAXEL_RESISTANCE	29	0.236285	0.855533	0.690909	0.66119	1	3,566
SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX4_DN	32	0.314537	0.855209	0.598826	0.661351	1	4,337
RODRIGUES_NTN1_AND_DCC_TARGETS	33	0.250798	0.854455	0.632813	0.662193	1	8,470
LEE_LIVER_CANCER_MYC_TGFA_DN	62	0.255007	0.854396	0.65762	0.661947	1	9,126
PASINI_SUZ12_TARGETS_DN	310	0.24082	0.85122	0.609284	0.666348	1	9,108
SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN	306	0.207588	0.850479	0.688889	0.667097	1	5,688
REACTOME_RIP_MEDIATED_NFKB_ACTIVATION_VIA_DAI	18	0.284251	0.850387	0.631683	0.666905	1	9,103
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP	33	0.270326	0.848011	0.648871	0.67006	1	6,462
LIU_NASOPHARYNGEAL_CARCINOMA	65	0.221289	0.846897	0.665306	0.671432	1	4,427
TSUNODA_CISPLATIN_RESISTANCE_DN	48	0.234171	0.846111	0.663347	0.67227	1	6,956
MATZUK_MEIOTIC_AND_DNA_REPAIR	35	0.241004	0.845521	0.654369	0.672853	1	1,905
VANDESLUIS_COMMD1_TARGETS_GROUP_4_DN	15	0.301642	0.84411	0.657258	0.674585	1	8,433
LEE_LIVER_CANCER_MYC_E2F1_DN	61	0.24375	0.843798	0.661417	0.674706	1	9,126
LIU_IL13_MEMORY_MODEL_UP	16	0.30022	0.843283	0.682875	0.675141	1	712
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	22	0.30202	0.842892	0.637113	0.675384	1	2,847
BIOCARTA_P53_PATHWAY	16	0.301761	0.842462	0.65625	0.675669	1	6,146
DIRMEIER_LMP1_RESPONSE_LATE_DN	31	0.304818	0.842215	0.612403	0.675697	1	3,933
ELVIDGE_HYPOXIA_BY_DMOG_DN	56	0.245904	0.84084	0.651575	0.677459	1	6,145

TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_UP	42	0.313198	0.840381	0.598058	0.67783	1	8,433
GHANDHI_BYSTANDER_IRRADIATION_UP	80	0.24652	0.83946	0.668651	0.678839	1	3,340
SHAFFER_IRF4_TARGETS_IN_PLASMA_CELL_VS_MATURE_B_LYMPHOCYTE	66	0.250531	0.838551	0.678862	0.679828	1	1,773
BIOCARTA_CDMAC_PATHWAY	16	0.288481	0.838143	0.697087	0.68013	1	8,470
SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_2	42	0.234082	0.837905	0.727634	0.680143	1	6,138
DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_UP	303	0.245014	0.83768	0.635827	0.680139	1	8,603
KENNY_CTNNB1_TARGETS_DN	52	0.248132	0.837205	0.64346	0.680461	1	7,405
REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM	47	0.272416	0.836883	0.615071	0.680615	1	7,262
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	66	0.22624	0.836108	0.698574	0.681495	1	5,146
BASAKI_YBX1_TARGETS_DN	362	0.202495	0.83608	0.635294	0.681191	1	6,364
BIOCARTA_ARF_PATHWAY	17	0.294582	0.834182	0.677606	0.683692	1	5,974
MOSERLE_IFNA_RESPONSE	31	0.390802	0.833845	0.617357	0.683865	1	11,012
ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	256	0.1895	0.833432	0.731755	0.684142	1	5,857
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_UP	120	0.248906	0.833163	0.632207	0.684195	1	6,534
YANG_BREAST_CANCER_ESR1_DN	24	0.259279	0.833133	0.700193	0.683906	1	2,689
PID_ANTHRAX_PATHWAY	17	0.277326	0.831781	0.694561	0.685509	1	8,492
REACTOME_DEGRADATION_OF_THE_EXTRACELLULAR_MATRIX	29	0.287501	0.830781	0.677228	0.686687	1	7,598
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP	30	0.267956	0.830276	0.649225	0.687083	1	1,503
REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING	38	0.251162	0.829865	0.678571	0.687377	1	7,056
YIH_RESPONSE_TO_ARSENITE_C2	18	0.315416	0.828326	0.671287	0.689392	1	6,411
GERY_CEBP_TARGETS	123	0.219443	0.828271	0.669439	0.689128	1	6,598
KYNG_WERNER_SYNDROM_UP	19	0.263654	0.826441	0.688976	0.69152	1	7,425
PID_MAPK_TRK_PATHWAY	33	0.257218	0.824802	0.683544	0.693649	1	9,466
WOOD_EBV_EBNA1_TARGETS_DN	47	0.271236	0.824622	0.649895	0.693591	1	7,784
PID_FOXO_PATHWAY	49	0.259218	0.824356	0.63035	0.693652	1	5,040
DALESSIO_TSA_RESPONSE	21	0.29731	0.824043	0.660079	0.693773	1	11,481
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16	75	0.249035	0.82316	0.64271	0.694752	1	6,086
ST_TUMOR_NECROSIS_FACTOR_PATHWAY	29	0.268157	0.82251	0.668008	0.695383	1	6,322
SENESE_HDAC2_TARGETS_UP	108	0.256688	0.822205	0.644	0.695512	1	6,370
BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_UP	27	0.23655	0.820014	0.732794	0.698569	1	5,728
WEINMANN_ADAPTATION_TO_HYPOXIA_DN	39	0.253254	0.819722	0.693878	0.698662	1	4,046
KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	56	0.235153	0.819352	0.682635	0.698892	1	3,093
GEISS_RESPONSE_TO_DSRNA_UP	37	0.274725	0.819348	0.656805	0.698547	1	3,250
REACTOME_SIGNAL_TRANSDUCTION_BY_L1	34	0.258601	0.818953	0.65748	0.698792	1	3,545
BURTON_ADIPOGENESIS_PEAK_AT_8HR	39	0.259124	0.818213	0.671458	0.699576	1	3,468
YANG_MUC2_TARGETS_DUODENUM_6MO_DN	19	0.292785	0.81619	0.664	0.702239	1	8,306
REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT	232	0.187104	0.815915	0.789784	0.702321	1	5,764
REACTOME_RIG_I_MDA5_MEDIATED_INDUCATION_OF_IFN_ALPHA_BETA_PATHWAYS	60	0.237683	0.814868	0.660643	0.703486	1	9,103

PID_ILK_PATHWAY	45	0.252764	0.813137	0.679359	0.705709	1	5,348
LEE_LIVER_CANCER_ACOX1_DN	62	0.219267	0.813008	0.774947	0.705555	1	8,039
DOANE_BREAST_CANCER_CLASSES_UP	68	0.235472	0.812904	0.692929	0.705358	1	3,215
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_5	28	0.25497	0.811483	0.691684	0.707062	1	3,101
LIANG_SILENCED_BY_METHYLATION_2	53	0.265133	0.810925	0.655242	0.707563	1	3,309
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_DN	19	0.249679	0.810745	0.734226	0.707475	1	1,360
BIOCARTA_IL1R_PATHWAY	32	0.243255	0.810598	0.708087	0.707331	1	8,010
PID_SMAD2_3PATHWAY	17	0.304821	0.81018	0.642147	0.707604	1	6,022
REACTOME_INTERFERON_SIGNALING	142	0.239196	0.808795	0.650794	0.709295	1	9,046
REACTOME_SIGNALLING_TO_ERKS	35	0.253496	0.807995	0.686	0.710119	1	7,490
KIM_WT1_TARGETS_8HR_UP	162	0.224027	0.807814	0.670683	0.710064	1	4,234
FORTSCHEGGER_PHF8_TARGETS_UP	253	0.191979	0.8027	0.747475	0.717358	1	5,395
REACTOME_LATENT_INFECTION_OF_HOMO_SAPIENS_WITH_MYCOBACTERIUM_TUBERCULOSIS	30	0.269652	0.801073	0.700205	0.719477	1	4,976
GROSS_HYPOXIA_VIA_ELK3_DN	151	0.221328	0.800749	0.668016	0.719618	1	7,735
SIMBULAN_UV_RESPONSE_IMMORTALIZED_DN	31	0.297008	0.800535	0.653333	0.719579	1	3,491
BROWNE_INTERFERON_RESPONSIVE_GENES	66	0.303993	0.800429	0.643137	0.719374	1	8,748
FAELT_B_CLL_WITH_VH3_21_DN	49	0.24399	0.799411	0.671968	0.720502	1	5,811
KEGG_ARACHIDONIC_ACID_METABOLISM	55	0.222261	0.798288	0.738189	0.72181	1	5,667
REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	103	0.206833	0.797575	0.752066	0.722512	1	5,500
SANSOM_WNT_PATHWAY_REQUIRE_MYC	57	0.216788	0.796567	0.758	0.723676	1	4,683
MIZUSHIMA_AUTOPHAGOSOME_FORMATION	18	0.281888	0.7958	0.718631	0.72448	1	7,024
REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS	15	0.290046	0.791324	0.729885	0.730821	1	3,533
BIOCARTA_TEL_PATHWAY	18	0.293937	0.790693	0.692308	0.731405	1	21
REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TRANSPORT	44	0.242317	0.790603	0.732252	0.731186	1	3,978
LU_TUMOR_ANGIOGENESIS_UP	25	0.262814	0.789979	0.71068	0.731758	1	2,495
HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY	22	0.281309	0.789198	0.687619	0.732595	1	2,224
REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	457	0.177797	0.789149	0.809628	0.732308	1	5,303
REACTOME_SMOOTH_MUSCLE_CONTRACTION	24	0.362076	0.788862	0.678497	0.732351	1	7,784
ZHENG_RESPONSE_TO_ARSENITE_UP	17	0.31936	0.787823	0.705761	0.733535	1	21
REACTOME_SPHINGOLIPID_METABOLISM	63	0.23644	0.787805	0.691667	0.733193	1	4,199
MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP	82	0.205252	0.787749	0.812236	0.732913	1	7,697
SASSON_RESPONSE_TO_FORSKOLIN_DN	87	0.241072	0.786081	0.669276	0.734983	1	8,527
ST_ERK1_ERK2_MAPK_PATHWAY	31	0.253587	0.78573	0.721689	0.735131	1	4,819
REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION	24	0.278557	0.785534	0.69	0.735066	1	9,364
LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_UP	77	0.220532	0.783922	0.766667	0.737087	1	6,370
UEDA_CENTRAL_CLOCK	85	0.209501	0.782733	0.780933	0.738463	1	5,407
FARMER_BREAST_CANCER_CLUSTER_5	18	0.344445	0.781932	0.693359	0.739298	1	7,924
LEE_LIVER_CANCER_SURVIVAL_UP	174	0.206411	0.781865	0.746939	0.739007	1	7,916

REACTOME_NOD1_2_SIGNALING_PATHWAY	29	0.253317	0.781678	0.742633	0.738901	1	5,052
GENTILE_UV_HIGH_DOSE_DN	301	0.216341	0.781197	0.710843	0.739248	1	6,280
REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_MDA5_SIGNALING	31	0.253546	0.779267	0.711462	0.741671	1	9,049
SA_CASPASE_CASCADE	19	0.279485	0.778252	0.73499	0.742738	1	6,581
ELVIDGE_HIF1A_TARGETS_UP	64	0.237928	0.77594	0.695652	0.74572	1	6,145
CUI_TCF21_TARGETS_DN	31	0.230466	0.775326	0.779141	0.746246	1	8,552
KIM_MYC_AMPLIFICATION_TARGETS_UP	192	0.210649	0.774832	0.730845	0.746582	1	5,872
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN	432	0.217572	0.77259	0.670611	0.749481	1	6,640
SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION_DN	30	0.236869	0.772398	0.786164	0.749421	1	6,640
EINAV_INTERFERON_SIGNATURE_IN_CANCER	26	0.320313	0.771934	0.671287	0.749713	1	9,951
WANG_RESPONSE_TO_ANDROGEN_UP	27	0.248607	0.771924	0.756539	0.749362	1	6,414
KIM_LRRC3B_TARGETS	30	0.297309	0.771308	0.679134	0.749892	1	6,509
REACTOME_LIPOPROTEIN_METABOLISM	28	0.252372	0.770923	0.760081	0.750065	1	3,858
JISON_SICKLE_CELL_DISEASE_UP	178	0.216437	0.770116	0.689162	0.75085	1	5,497
MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	51	0.224948	0.768825	0.764344	0.752341	1	10,431
BIOCARTA_P53HYPOXIA_PATHWAY	22	0.256806	0.765966	0.760649	0.756184	1	7,733
FAELT_B_CLL_WITH_VH_REARRANGEMENTS_DN	45	0.243932	0.762886	0.751515	0.760234	1	4,998
NOUSHMEHR_GBM_SILENCED_BY_METHYLATION	47	0.212102	0.760904	0.812623	0.762729	1	5,373
ABE_INNER_EAR	46	0.243829	0.75833	0.739216	0.766148	1	3,795
CHEN_PDGF_TARGETS	18	0.281034	0.757966	0.72619	0.766254	1	6,194
CROMER_TUMORIGENESIS_UP	59	0.262491	0.755451	0.712245	0.769488	1	9,820
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	73	0.196527	0.755301	0.81262	0.769324	1	9,364
HUMMERICH_SKIN_CANCER_PROGRESSION_DN	99	0.201368	0.755233	0.797619	0.769032	1	6,776
HEDENFALK_BREAST_CANCER_BRACX_UP	20	0.283687	0.755221	0.731855	0.768672	1	1,111
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_DN	47	0.205585	0.754414	0.889558	0.769434	1	8,177
DAUER_STAT3_TARGETS_DN	50	0.280242	0.754365	0.681363	0.769132	1	5,989
BOWIE_RESPONSE_TO_TAMOXIFEN	18	0.355599	0.753717	0.69685	0.76963	1	1,301
GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_UP	108	0.22716	0.753622	0.705534	0.769408	1	6,678
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	28	0.233032	0.753316	0.834331	0.769468	1	6,924
JIANG_AGING_HYPOTHALAMUS_DN	40	0.234987	0.74936	0.76087	0.774823	1	2,337
KEGG_REGULATION_OF_AUTOPHAGY	22	0.2271	0.747548	0.8413	0.776979	1	7,024
PID_SYNDECAN_1_PATHWAY	46	0.259519	0.747056	0.7	0.777271	1	8,552
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	33	0.251652	0.746572	0.81	0.777585	1	3,668
SILIGAN_TARGETS_OF_EWS_FLI1_FUSION_DN	17	0.28408	0.744855	0.736221	0.779665	1	943
BEIER_GLIOMA_STEM_CELL_UP	34	0.214985	0.74419	0.833977	0.78026	1	4,737
BROWNE_HCMV_INFECTION_14HR_UP	152	0.183451	0.741962	0.808853	0.782958	1	4,422
MIKKELSEN_MCV6_LCP_WITH_H3K27ME3	20	0.229247	0.738995	0.877551	0.786739	1	4,543
HOGERKORP_CD44_TARGETS_DIRECT_UP	27	0.213325	0.73826	0.85	0.787373	1	7,490
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN	115	0.202898	0.737301	0.771894	0.788335	1	5,136

ZHU_CMV_8_HR_UP	45	0.246487	0.735871	0.738241	0.789918	1	9,951
UDAYAKUMAR_MED1_TARGETS_DN	226	0.170989	0.734943	0.82549	0.790844	1	6,949
REACTOME_DARPP_32_EVENTS	23	0.249389	0.734445	0.790224	0.791167	1	6,575
REACTOME_PLATELET_SENSITIZATION_BY_LDL	16	0.262954	0.732193	0.795407	0.793895	1	8,081
NIKOLSKY_BREAST_CANCER_17Q11_Q21_AMPLICON	117	0.199826	0.731948	0.814664	0.79381	1	5,260
SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_UP	39	0.21792	0.729345	0.824663	0.796956	1	2,739
MARIADASON_RESPONSE_TO_BUTYRATE_CURCUMIN_SULINDAC_TSA_8	15	0.27139	0.729275	0.779661	0.796674	1	3,380
IVANOVSKA_MIR106B_TARGETS	85	0.205701	0.72834	0.77712	0.797572	1	8,625
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_UP	25	0.236534	0.728	0.855895	0.797644	1	4,401
KORKOLA_CORRELATED_WITH_POU5F1	32	0.225196	0.727643	0.856046	0.797735	1	3,053
PHONG_TNF_TARGETS_UP	62	0.240563	0.722695	0.731855	0.804023	1	6,322
KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION	42	0.209405	0.7196	0.845703	0.807839	1	4,696
REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY_ACID_OXIDATION_IN_MUSCLE	18	0.241247	0.709713	0.830986	0.820665	1	8,483
KEGG_SPHINGOLIPID_METABOLISM	35	0.231168	0.705977	0.827292	0.825187	1	8,054
REACTOME_ERK_MAPK_TARGETS	21	0.250177	0.704929	0.792415	0.826124	1	9,364
BURTON_ADIPOGENESIS_8	84	0.218489	0.704524	0.802419	0.826287	1	6,051
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP	138	0.200773	0.704106	0.772727	0.826412	1	6,322
SAGIV_CD24_TARGETS_UP	21	0.234226	0.701774	0.830579	0.829056	1	6,744
REACTOME_ARMS_MEDIATED_ACTIVATION	17	0.260122	0.700978	0.822612	0.829659	1	7,310
WU_HBX_TARGETS_1_DN	23	0.223129	0.700696	0.851351	0.829625	1	8,571
GENTILE_UV_RESPONSE_CLUSTER_D4	54	0.239157	0.696701	0.765914	0.834274	1	5,878
AMIT_EGF_RESPONSE_240_MCF10A	20	0.238792	0.696546	0.833992	0.834083	1	1,228
EPPERT_LSC_R	38	0.214344	0.694337	0.804481	0.836485	1	9,458
GRUETZMANN_PANCREATIC_CANCER_DN	198	0.226638	0.693486	0.73913	0.837139	1	5,025
REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI	18	0.232575	0.691054	0.879921	0.839781	1	5,242
NIKOLSKY_BREAST_CANCER_12Q13_Q21_AMPLICON	42	0.237492	0.690507	0.752399	0.840079	1	9,277
MURAKAMI_UV_RESPONSE_6HR_DN	21	0.22826	0.689693	0.873805	0.840727	1	7,056
NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_UP	18	0.260027	0.688518	0.794355	0.841842	1	7,949
REACTOME_MUSCLE_CONTRACTION	46	0.247053	0.688443	0.814196	0.841535	1	8,337
LEE_LIVER_CANCER_CIPROFIBRATE_DN	64	0.187222	0.688357	0.92449	0.841239	1	9,126
LASTOWSKA_COAMPLIFIED_WITH_MYCN	39	0.221103	0.685256	0.806452	0.844627	1	5,701
REACTOME_TERMINATION_OF_O_GLYCAN_BIOSYNTHESIS	21	0.225943	0.684154	0.903922	0.845576	1	3,735
SERVITJA_ISLET_HNF1A_TARGETS_DN	106	0.180806	0.682039	0.873747	0.847762	1	8,450
MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_17	19	0.243483	0.681346	0.865462	0.848184	1	8,070
GESERICK_TERT_TARGETS_DN	21	0.26348	0.680236	0.776031	0.849133	1	2,848
HEIDENBLAD_AMPLIFIED_IN_PANCREATIC_CANCER	30	0.248088	0.6786	0.808468	0.850745	1	3,762
MAHADEVAN_RESPONSE_TO_MP470_UP	18	0.265987	0.677213	0.813387	0.851962	1	235
HUANG_DASATINIB_RESISTANCE_UP	79	0.21582	0.671302	0.76145	0.85863	1	6,832

MILI_PSEUDOPODIA_HAPTOTAXIS_UP	486	0.210551	0.67004	0.759921	0.85975	1	7,526
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	20	0.232753	0.667614	0.850622	0.862198	1	6,608
RICKMAN_HEAD_AND_NECK_CANCER_C	104	0.178341	0.666841	0.944559	0.862668	1	6,281
YANG_BREAST_CANCER_ESR1_LASER_DN	49	0.208266	0.664476	0.859127	0.865007	1	5,054
ZWANG_EGF_PERSISTENTLY_UP	31	0.218848	0.663829	0.874743	0.865305	1	6,718
WANG_RESPONSE_TO_FORSKOLIN_UP	22	0.217881	0.660072	0.889546	0.869234	1	1,294
AMIT_EGF_RESPONSE_40_HELA	42	0.219498	0.659566	0.810591	0.869379	1	5,453
KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG	25	0.265806	0.659489	0.771605	0.869055	1	9,515
HE_PTEN_TARGETS_UP	16	0.2343	0.656792	0.864919	0.871717	1	6,832
REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	27	0.215	0.654177	0.849206	0.874189	1	7,795
LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	16	0.220001	0.646994	0.911523	0.881566	1	24,787
REACTOME_BIOLOGICAL_OXIDATIONS	133	0.170843	0.645195	0.939959	0.883032	1	5,318
UROSEVIC_RESPONSE_TO_IMIQUIMOD	23	0.275425	0.642382	0.785425	0.885601	1	822
XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR	17	0.249418	0.638728	0.834025	0.888958	1	3,898
JI_RESPONSE_TO_FSH_DN	57	0.220582	0.635692	0.817444	0.891672	1	5,675
CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	21	0.22137	0.63421	0.886179	0.892779	1	3,702
MEISSNER_BRAIN_HCP_WITH_H3_UNMETHYLATED	29	0.191409	0.633987	0.939516	0.892567	1	1,679
KEGG_FATTY_ACID_METABOLISM	42	0.213766	0.633502	0.833333	0.892657	1	6,678
ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	212	0.185444	0.630494	0.839431	0.895256	1	6,596
WEBER_METHYLATED_HCP_IN_SPERM_DN	21	0.19887	0.624093	0.945783	0.901067	1	6,929
SNIJDEES_AMPLIFIED_IN_HEAD_AND_NECK_TUMORS	37	0.202721	0.622953	0.911417	0.901755	1	2,981
WENG_POR_TARGETS_GLOBAL_DN	23	0.207058	0.619145	0.938017	0.904946	1	5,146
HOLLEMAN_ASPARAGINASE_RESISTANCE_ALL_UP	22	0.214163	0.618311	0.894212	0.905283	1	3,826
PHONG_TNF_RESPONSE_VIA_P38_PARTIAL	157	0.166886	0.612237	0.916335	0.91059	1	6,264
TIAN_BHLHA15_TARGETS	15	0.253353	0.611941	0.875984	0.910418	1	7,517
VETTER_TARGETS_OF_PRKCA_AND_ETS1_UP	15	0.241498	0.6112	0.873469	0.9107	1	2,785
LIU_CDX2_TARGETS_UP	34	0.203228	0.608591	0.933194	0.91258	1	5,586
WEBER_METHYLATED_HCP_IN_FIBROBLAST_DN	30	0.17701	0.604132	0.977459	0.916133	1	7,076
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_DN	24	0.184343	0.603904	0.962	0.915905	1	10,708
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3	18	0.208467	0.599421	0.927536	0.919407	1	7,385
COLLIS_PRKDC_REGULATORS	15	0.21586	0.598035	0.940239	0.920094	1	9,504
KYNG_WERNER_SYNDROM_DN	26	0.190756	0.595525	0.955426	0.921759	1	2,453
OHGUCHI_LIVER_HNF4A_TARGETS_DN	141	0.156609	0.595435	0.960417	0.921413	1	10,030
NEWMAN_ERCC6_TARGETS_UP	23	0.197942	0.582487	0.947368	0.931462	1	6,503
NAGASHIMA_EGF_SIGNALING_UP	57	0.21165	0.581386	0.823413	0.931838	1	6,370
SAGIV_CD24_TARGETS_DN	44	0.182714	0.579764	0.947917	0.932585	1	6,030
REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	26	0.182406	0.573214	0.983368	0.936923	1	6,813
LIU_IL13_PRIMING_MODEL	15	0.209225	0.571524	0.950884	0.937728	1	25,129
DER_IFN_BETA_RESPONSE_UP	102	0.171181	0.559338	0.909449	0.945585	1	9,705

KEGG_RETINOL_METABOLISM	61	0.179704	0.55441	0.947368	0.948314	1	10,276
LAIHO_COLORECTAL_CANCER_SERRATED_UP	107	0.186457	0.55352	0.88755	0.948475	1	5,054
BRUECKNER_TARGETS_OF_MIRLET7A3_DN	73	0.171236	0.550904	0.95	0.949711	1	5,987
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	51	0.198947	0.549745	0.854582	0.949982	1	5,877
AMIT_EGF_RESPONSE_60_HELA	44	0.189784	0.548806	0.917323	0.950082	1	5,111
NICK_RESPONSE_TO_PROC_TREATMENT_DN	24	0.187301	0.540812	0.948413	0.954453	1	10,902
REACTOME_GLUCURONIDATION	16	0.219857	0.537419	0.975855	0.955917	1	11,696
KUUSELO_PANCREATIC_CANCER_19Q13_AMPLIFICATION	26	0.226199	0.534118	0.890385	0.957265	1	5,367
KEGG_STARCH_AND_SUCROSE_METABOLISM	49	0.163578	0.524487	0.991952	0.96175	1	10,435
REACTOME_NA_CL_DEPENDENT_NEUROTRANSMITTER_TRANSPORTERS	16	0.179889	0.523069	0.995754	0.962019	1	6,813
HSIAO_LIVER_SPECIFIC_GENES	235	0.143617	0.519824	0.98778	0.963108	1	8,369
TIAN_TNF_SIGNALING_NOT_VIA_NFKB	21	0.196597	0.505066	0.945565	0.969384	1	9,829
CHOI_ATL_CHRONIC_VS_ACUTE_DN	18	0.189241	0.475205	0.961315	0.979639	1	5,987
MAHADEVAN_RESPONSE_TO_MP470_DN	19	0.198795	0.466582	0.941057	0.98185	1	9,024
LEE_LIVER_CANCER_DENA_DN	74	0.134013	0.454098	0.992016	0.984654	1	7,781
NAKAMURA_CANCER_MICROENVIRONMENT_UP	23	0.165595	0.439344	0.991701	0.987515	1	9,708
GOUYER_TATI_TARGETS_DN	16	0.156963	0.398448	0.993878	0.993562	1	26,789

ES, Enrichment score; NES, Normalized enrichment score; NOM p-val, Nominal p value; FDR q-val, False discovery rate q-value; FWER p-val, Familywise-error rate p-value.