

Table SVII. GSEA results of c2-reference gene sets for groups with high CCR9 expression.

GS follow link to MSigDB	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX
ODONNELL_TARGETS_OF_MYC_AND_TFRC_UP	80	0.636266	2.19479	<0.001	0.020739	0.021	4,541
KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM	76	0.568903	2.163455	<0.001	0.026021	0.04	6,194
REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS	23	0.718641	2.157072	<0.001	0.019277	0.044	6,522
BOYLAN_MULTIPLE_MYELOMA_PCA3_DN	66	0.56701	2.116044	<0.001	0.040082	0.098	5,822
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_RED_DN	24	0.739065	2.085719	<0.001	0.05639	0.139	2,951
REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEMBRANE	30	0.629159	2.043513	<0.001	0.100685	0.216	6,046
PID_THROMBIN_PAR1_PATHWAY	42	0.648314	2.036623	<0.001	0.097802	0.238	6,321
KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY	73	0.626862	2.027534	<0.001	0.098474	0.258	2,845
SIG_BCR_SIGNALING_PATHWAY	46	0.665388	2.027407	<0.001	0.087934	0.26	4,931
KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS	93	0.536942	2.024774	<0.001	0.08228	0.263	6,501
LEE_EARLY_T_LYMPHOCYTE_DN	54	0.710004	2.019495	<0.001	0.081451	0.273	3,375
PID_EPHA_FWDPATHWAY	34	0.616951	2.011744	<0.001	0.078144	0.295	6,087
PID_BCR_5PATHWAY	65	0.650155	2.001628	<0.001	0.085786	0.322	6,857
PID_PI3KCI_PATHWAY	49	0.629729	1.962104	<0.001	0.129962	0.433	6,501
MORI_PLASMA_CELL_DN	30	0.698331	1.954974	<0.001	0.135301	0.445	4,480
HAHTOLA_SEZARY_SYNDROM_DN	37	0.735456	1.954177	<0.001	0.129077	0.447	3,562
LEE_DOUBLE_POLAR_THYMOCYTE	25	0.658331	1.94896	<0.001	0.125378	0.464	2,296
TARTE_PLASMA_CELL_VS_B_LYMPHOCYTE_DN	38	0.735028	1.945249	<0.001	0.119753	0.478	4,642
REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING	31	0.610887	1.940495	<0.001	0.117215	0.49	7,581
GUTIERREZ_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	53	0.50738	1.929195	<0.001	0.124103	0.517	6,866
PID_TCR_PATHWAY	66	0.71594	1.926908	<0.001	0.118375	0.525	2,917
MARSON_FOXP3_TARGETS_DN	53	0.607382	1.923315	<0.001	0.120115	0.536	3,632
REACTOME_GPVI_MEDIATED_ACTIVATION_CASCADE	31	0.685885	1.920716	<0.001	0.120316	0.544	6,501
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_DN	222	0.463135	1.914112	<0.001	0.119042	0.569	7,641
BIOCARTA_RHO_PATHWAY	32	0.66884	1.912123	<0.001	0.115379	0.576	6,390
GAVIN_FOXP3_TARGETS_CLUSTER_P3	153	0.485571	1.911715	<0.001	0.112516	0.576	5,071
REACTOME_REGULATION_OF_KIT_SIGNALING	16	0.747233	1.90065	<0.001	0.117859	0.602	5,395
BIOCARTA_IL7_PATHWAY	17	0.840148	1.895653	<0.001	0.11655	0.616	3,477
BIOCARTA_TOB1_PATHWAY	19	0.764395	1.895447	<0.001	0.114255	0.617	3,973
MARSON_FOXP3_CORE_DIRECT_TARGETS	19	0.812882	1.894159	<0.001	0.113336	0.623	4,411
QI_PLASMACYTOMA_UP	257	0.542201	1.879652	<0.001	0.123214	0.662	4,780
CHUNG_BLISTER_CYTOTOXICITY_DN	40	0.611023	1.877503	<0.001	0.123938	0.667	5,956
ZHENG_FOXP3_TARGETS_IN_T_LYMPHOCYTE_DN	35	0.711934	1.872137	<0.001	0.126836	0.682	6,128
PID_TXA2PATHWAY	55	0.583369	1.869623	<0.001	0.128109	0.686	7,529
PID_ARF6_PATHWAY	35	0.563508	1.95293	0.001908	0.124317	0.449	7,631
PID_NFKAPPAB_ATYPICAL_PATHWAY	17	0.583378	1.736576	0.001927	0.194244	0.909	4,029

REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND_GROWTH_CONE_COLLAPSE	26	0.617293	1.882377	0.001931	0.1242	0.655	7,581
WINNEPENNINGX_MELANOMA_METASTASIS_DN	42	0.559847	1.835337	0.001961	0.154472	0.753	6,399
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_UP	165	0.504046	1.79378	0.001965	0.170152	0.825	6,027
ZHENG_BOUND_BY_FOXP3	469	0.540897	1.899596	0.001969	0.116466	0.605	6,331
ZHAN_MULTIPLE_MYELOMA_PR_DN	42	0.681645	1.992722	0.001972	0.089934	0.341	4,456
PASQUALUCCI_LYMPHOMA_BY_GC_STAGE_DN	157	0.58057	2.01335	0.001976	0.082626	0.291	5,275
BIOCARTA_BCR_PATHWAY	34	0.636039	1.903848	0.00198	0.120204	0.598	6,857
BOSCO_ALLERGEN_INDUCED_TH2_ASSOCIATED_MODULE	138	0.525927	1.865695	0.00198	0.131593	0.694	4,553
PID_P38_ALPHA_BETA_PATHWAY	31	0.57401	1.806311	0.00198	0.16222	0.804	6,141
BOYLAN_MULTIPLE_MYELOMA_D_DN	72	0.483515	1.834546	0.001988	0.153243	0.753	4,457
PID_IL2_STAT5_PATHWAY	30	0.715874	1.902661	0.002	0.118364	0.6	3,477
BASSO_CD40_SIGNALING_DN	64	0.504685	1.780795	0.002	0.171385	0.85	5,851
PID_CD8_TCR_PATHWAY	53	0.716739	1.94732	0.002004	0.122719	0.471	2,917
MORI_LARGE_PRE_BII_LYMPHOCYTE_DN	57	0.739285	1.942924	0.002012	0.118265	0.485	3,209
REACTOME_ANTIGEN_ACTIVATES_B_CELL_RECEPTOR_LEADING_TO_GENERATION_OF_SECOND_MESSENGERS	29	0.745787	1.928825	0.002016	0.119973	0.519	1,644
KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY	105	0.575413	1.897227	0.002016	0.117077	0.61	2,917
REACTOME_REGULATION_OF_SIGNALING_BY_CBL	18	0.721083	1.78673	0.002033	0.166896	0.838	5,395
KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY	77	0.471821	1.762583	0.00207	0.182708	0.887	2,957
FIRESTEIN_PROLIFERATION	167	0.401746	1.749763	0.002079	0.18576	0.897	5,725
SU_THYMUS	20	0.823847	1.808801	0.003868	0.160195	0.799	2,860
BIOCARTA_TCR_PATHWAY	44	0.639964	1.882751	0.003883	0.12633	0.652	2,280
MARSON_FOXP3_TARGETS_STIMULATED_UP	29	0.712632	1.881605	0.003922	0.122622	0.657	3,287
LABBE_WNT3A_TARGETS_DN	92	0.424846	1.710079	0.003929	0.215096	0.939	4,377
DEURIG_T_CELL_PROLYMPHOCYTIC_LEUKEMIA_DN	298	0.528771	1.872871	0.003945	0.12825	0.679	7,342
PID_IL2_1PATHWAY	55	0.607502	1.825749	0.003968	0.161623	0.771	5,177
BIOCARTA_AT1R_PATHWAY	32	0.579714	1.783187	0.003976	0.171065	0.847	6,963
REACTOME_SIGNALING_BY_ILS	104	0.542333	1.859239	0.003984	0.139609	0.714	6,857
REACTOME_IL_2_SIGNALING	40	0.617269	1.837816	0.003984	0.157867	0.752	2,673
PID_ENDOTHELIN_PATHWAY	63	0.517953	1.836067	0.003984	0.155423	0.752	6,586
LEE_DIFFERENTIATING_T_LYMPHOCYTE	180	0.67657	1.920328	0.003992	0.116814	0.544	4,897
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	196	0.463495	1.781771	0.003992	0.171568	0.849	6,523
BIOCARTA_GLEEVEC_PATHWAY	23	0.59111	1.806234	0.004	0.160299	0.804	2,137
REACTOME_TCR_SIGNALING	50	0.698656	1.845397	0.004008	0.153353	0.736	4,701
BIOCARTA_KERATINOCYTE_PATHWAY	46	0.505383	1.771318	0.004008	0.180068	0.877	7,573
CAIRO_HEPATOBLASTOMA_CLASSES_DN	201	0.502758	1.916405	0.004024	0.118646	0.556	7,205
REACTOME_G_ALPHA1213_SIGNALLING_EVENTS	74	0.492426	1.832994	0.004032	0.153615	0.756	7,290

SHIPP_DLCL_VS_FOLLICULAR_LYMPHOMA_DN	42	0.697487	1.821773	0.004032	0.160855	0.777	5,512
REACTOME_IL_3_5_AND_GM-CSF_SIGNALING	42	0.646411	1.815516	0.004049	0.157795	0.788	5,395
BIOCARTA_FCER1_PATHWAY	38	0.598284	1.771399	0.004057	0.181701	0.877	2,280
GAVIN_FOXP3_TARGETS_CLUSTER_P4	94	0.478572	1.794805	0.004065	0.170202	0.824	5,438
PID_IL8_CXCR2_PATHWAY	33	0.59909	1.764704	0.004073	0.18276	0.885	7,573
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_UP	20	0.578859	1.851121	0.00409	0.15002	0.728	824
BIOCARTA_ACH_PATHWAY	16	0.584481	1.788512	0.005703	0.165784	0.837	2,387
GAVIN_IL2_RESPONSIVE_FOXP3_TARGETS_UP	18	0.608213	1.810721	0.005736	0.158987	0.796	3,403
HUANG_GATA2_TARGETS_UP	146	0.495558	1.795656	0.00578	0.170828	0.823	6,616
PID_CD8_TCR_DOWNSTREAM_PATHWAY	54	0.626103	1.912483	0.005848	0.11824	0.576	5,604
BIOCARTA_NKCELLS_PATHWAY	20	0.718594	1.933569	0.005871	0.122659	0.511	6,501
KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION	112	0.481336	1.770266	0.005871	0.17842	0.878	6,523
BIOCARTA_BAD_PATHWAY	24	0.561546	1.756719	0.005871	0.183567	0.893	2,209
BIOCARTA_IL2_PATHWAY	22	0.668891	1.846021	0.005941	0.155023	0.736	3,477
BIOCARTA_ECM_PATHWAY	24	0.658617	1.820234	0.005964	0.161261	0.782	4,406
BIOCARTA_MEF2D_PATHWAY	18	0.607589	1.812984	0.005988	0.157542	0.79	6,458
BOHN_PRIMARY_IMMUNODEFICIENCY_SYNDROM_DN	38	0.579661	1.760413	0.005988	0.183411	0.888	7,827
LINDSTEDT_DENDRITIC_CELL_MATURATION_C	67	0.495453	1.767409	0.006012	0.179615	0.88	3,823
SANSOM_APC_TARGETS_DN	353	0.4535	1.839158	0.006024	0.158261	0.752	5,931
BIOCARTA_BIOPEPTIDES_PATHWAY	42	0.544768	1.819621	0.006036	0.159987	0.783	5,096
KEGG_LONG_TERM_POTENTIATION	67	0.49169	1.774888	0.006061	0.177608	0.87	4,269
REACTOME_CELL_DEATH_SIGNALLING_VIA_NRAGE_NRIF_AND_NADE	58	0.450012	1.725376	0.00611	0.209232	0.924	5,530
BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_DN	40	0.471859	1.690682	0.006148	0.224072	0.957	5,256
KEGG_CHEMOKINE_SIGNALING_PATHWAY	181	0.49763	1.724351	0.006237	0.209457	0.925	4,119
KEGG_INOSITOL_PHOSPHATE_METABOLISM	54	0.489693	1.822771	0.007968	0.163762	0.777	6,046
CHYLA_CBFA2T3_TARGETS_UP	364	0.403183	1.684266	0.007968	0.220888	0.961	6,375
PID_FCER1_PATHWAY	61	0.579724	1.817711	0.008016	0.158428	0.786	3,279
BIOCARTA_TALL1_PATHWAY	15	0.698465	1.797613	0.008048	0.169405	0.819	6,757
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_DN	180	0.476529	1.789095	0.008081	0.166628	0.836	7,060
SMID_BREAST_CANCER_NORMAL_LIKE_UP	453	0.645189	1.82191	0.008097	0.162945	0.777	6,181
GOLDRATH_IMMUNE_MEMORY	63	0.457134	1.685571	0.008114	0.224054	0.961	5,512
ZHAN_MULTIPLE_MYELOMA_LB_UP	41	0.431513	1.57737	0.008163	0.285227	0.994	7,060
WINTER_HYPOXIA_DN	47	0.791168	1.757689	0.008197	0.183309	0.891	4,286
REACTOME_PI_METABOLISM	47	0.53437	1.825864	0.00823	0.163869	0.771	6,069
PID_RAC1_REG_PATHWAY	38	0.555869	1.813507	0.008247	0.15884	0.79	5,530
KEGG_PRIMARY_IMMUNODEFICIENCY	34	0.783399	1.750414	0.008247	0.186016	0.896	3,991
GREENBAUM_E2A_TARGETS_DN	20	0.650137	1.718195	0.008247	0.214191	0.929	4,830
SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES	36	0.591437	1.800495	0.008529	0.166337	0.812	4,931

SA_B_CELL_RECEPTOR_COMPLEXES	24	0.56679	1.792583	0.009597	0.169895	0.828	2,137
REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK	188	0.40335	1.684385	0.009653	0.222021	0.961	7,601
PID_PDGFRB_PATHWAY	128	0.493661	1.768762	0.009843	0.179201	0.879	6,505
BIOCARTA_CXCR4_PATHWAY	24	0.546635	1.664359	0.009843	0.230586	0.97	2,137
REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZETA_CHAINS	15	0.850105	1.644371	0.00996	0.248988	0.981	2,161
JAATINEN_HEMATOPOIETIC_STEM_CELL_DN	215	0.574606	1.802611	0.00998	0.164608	0.809	5,162
BIOCARTA_CCR5_PATHWAY	17	0.684455	1.790755	0.00998	0.167464	0.834	6,194
BIOCARTA_IL22BP_PATHWAY	15	0.750488	1.770876	0.01006	0.179108	0.877	3,477
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_UP	255	0.366225	1.6386	0.01006	0.253165	0.982	4,781
HAHTOLA_CTCL_PATHOGENESIS	16	0.770993	1.778047	0.010081	0.174044	0.86	4,984
YAGI_AML_WITH_11Q23_REARRANGED	331	0.365849	1.610372	0.010081	0.263693	0.988	6,107
MORI_PRE_BI_LYMPHOCYTE_DN	73	0.571447	1.841683	0.010101	0.156465	0.746	4,525
MORI_MATURE_B_LYMPHOCYTE_UP	89	0.60948	1.836768	0.010101	0.15669	0.752	3,307
BIOCARTA_CALCINEURIN_PATHWAY	18	0.678179	1.760425	0.010288	0.185029	0.888	6,458
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_DN	237	0.43013	1.7197	0.011561	0.214415	0.927	4,652
BIOCARTA_MET_PATHWAY	37	0.59704	1.790978	0.011673	0.170803	0.833	2,486
GAVIN_FOXP3_TARGETS_CLUSTER_P7	85	0.468562	1.673934	0.011742	0.222764	0.966	6,156
MARSON_FOXP3_TARGETS_UP	63	0.500335	1.740611	0.011788	0.193368	0.902	3,562
MORI_SMALL_PRE_BII_LYMPHOCYTE_UP	80	0.405664	1.645654	0.011788	0.24797	0.981	7,085
BIOCARTA_SHH_PATHWAY	15	0.659596	1.745498	0.011811	0.188208	0.899	8,500
BIOCARTA_IL2RB_PATHWAY	38	0.577383	1.758659	0.011858	0.183209	0.89	2,673
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP	31	0.637203	1.75638	0.011905	0.18253	0.894	7,264
BAKKER_FOXO3_TARGETS_UP	58	0.523909	1.711364	0.011928	0.216033	0.937	4,458
VALK_AML_CLUSTER_10	32	0.547625	1.789406	0.011952	0.167937	0.836	7,931
WIERENGA_STAT5A_TARGETS_DN	196	0.423078	1.708365	0.011952	0.215178	0.94	8,708
PID_ALPHA_SYNUCLEIN_PATHWAY	33	0.506686	1.675391	0.011976	0.224969	0.963	5,395
PID_CXCR4_PATHWAY	100	0.567882	1.818491	0.012024	0.15938	0.784	6,370
REACTOME_SIGNALING_BY_RHO_GTPASES	111	0.45348	1.75409	0.01222	0.184694	0.895	5,860
HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_UP	42	0.514775	1.746117	0.012346	0.188726	0.899	4,241
KEGG_GNRH_SIGNALING_PATHWAY	98	0.369279	1.555695	0.012474	0.299982	0.998	5,319
GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP	215	0.375634	1.621435	0.013487	0.254458	0.985	7,549
HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP	22	0.481194	1.55883	0.01354	0.300769	0.996	3,103
ST_B_CELL_ANTIGEN_RECEPTOR	40	0.49589	1.712565	0.013672	0.215185	0.934	3,197
CROONQUIST_NRAS_SIGNALING_UP	39	0.638832	1.721943	0.013699	0.212075	0.926	6,079
NUMATA_CSF3_SIGNALING_VIA_STAT3	22	0.494356	1.655346	0.013752	0.240233	0.976	6,416

SCHURINGA_STAT5A_TARGETS_DN	17	0.659307	1.710667	0.013889	0.215628	0.938	6,523
OUYANG_PROSTATE_CANCER_PROGRESSION_UP	19	0.573011	1.693396	0.013889	0.224837	0.952	4,406
MARIADASON_REGULATED_BY_HISTONE_ACETYLATION_UP	77	0.374067	1.608022	0.013944	0.262787	0.988	6,536
ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_DN	47	0.534967	1.759174	0.014056	0.183889	0.89	4,978
YAMASHITA_LIVER_CANCER_STEM_CELL_DN	74	0.465461	1.717325	0.014113	0.21425	0.932	6,525
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_DN	299	0.387086	1.632287	0.014141	0.252896	0.983	4,465
ZHAN_MULTIPLE_MYELOMA_CD1_DN	43	0.447427	1.600203	0.014141	0.26757	0.989	6,057
BIOCARTA_GH_PATHWAY	28	0.578764	1.700022	0.014286	0.219955	0.948	5,861
MCCABE_HOXC6_TARGETS_DN	20	0.643333	1.764196	0.014344	0.181822	0.885	8,449
REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	167	0.401192	1.632012	0.015009	0.252355	0.983	7,601
VALK_AML_CLUSTER_4	27	0.508173	1.644239	0.015474	0.248072	0.982	5,289
BIOCARTA_CSK_PATHWAY	21	0.718514	1.737754	0.015534	0.193611	0.905	1,988
PID_NFAT_3PATHWAY	53	0.501967	1.715257	0.015564	0.216498	0.932	5,782
FARMER_BREAST_CANCER_CLUSTER_1	43	0.735953	1.709478	0.015717	0.214751	0.939	1,912
RUTELLA_RESPONSE_TO_HGF_DN	228	0.432629	1.69642	0.015748	0.223566	0.949	5,113
FINETTI_BREAST_CANCER_KINOME_GREEN	16	0.814659	1.624987	0.015779	0.253462	0.985	4,701
VANASSE_BCL2_TARGETS_DN	69	0.468498	1.619361	0.015842	0.256006	0.985	7,463
BIOCARTA_IL10_PATHWAY	17	0.671372	1.688608	0.015873	0.223734	0.959	3,300
CHIARETTI_ACUTE_LYMPHOBLASTIC_LEUKEMIA_ZAP70	60	0.353982	1.464815	0.015936	0.352232	1	5,338
BIOCARTA_TOLL_PATHWAY	37	0.54579	1.740603	0.016162	0.191871	0.902	7,628
ZEMBUTSU_SENSITIVITY_TO_NIMUSTINE	17	0.553265	1.697761	0.016194	0.222662	0.949	1,322
PID_HEDGEHOG_GLI_PATHWAY	48	0.476776	1.665452	0.016427	0.231241	0.969	7,963
KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	113	0.456899	1.667763	0.016529	0.22961	0.969	5,660
DUTERTRE ESTRADIOL_RESPONSE_6HR_DN	90	0.450229	1.617802	0.016563	0.256765	0.986	7,243
REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALLING	79	0.404047	1.609426	0.016563	0.263399	0.988	5,530
REACTOME_DOWNSTREAM_TCR_SIGNALING	33	0.670048	1.816584	0.017476	0.158096	0.786	6,757
REACTOME_SEMAPHORIN_INTERACTIONS	66	0.484561	1.714254	0.017544	0.215166	0.933	7,581
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS_AND_CYCLIC_RGD	21	0.751631	1.700106	0.017647	0.221197	0.948	2,070
PID_LYSOPHOSPHOLIPID_PATHWAY	65	0.446723	1.65251	0.017787	0.241546	0.979	6,963
PID_KIT_PATHWAY	52	0.557278	1.790761	0.017893	0.169287	0.834	4,525
PID_THROMBIN_PAR4_PATHWAY	15	0.630907	1.677448	0.018036	0.224012	0.963	7,601
REACTOME_PHOSPHOLIPID_METABOLISM	187	0.359199	1.553328	0.018072	0.297607	0.998	6,069
PID_IL8_CXCR1_PATHWAY	26	0.611167	1.693642	0.018109	0.225886	0.952	6,087
ROSS_AML_WITH_CBFB_MYH11_FUSION	52	0.512253	1.689101	0.018256	0.224223	0.958	6,079
SA_PTEN_PATHWAY	17	0.647372	1.70286	0.018293	0.217711	0.946	4,189
DACOSTA_LOW_DOSE_UV_RESPONSE_VIA_ERCC3_XPCS_UP	15	0.564788	1.620458	0.018519	0.255132	0.985	6,373
ZHAN_MULTIPLE_MYELOMA_HP_UP	45	0.519841	1.738003	0.019011	0.194727	0.904	5,358

VALK_AML_WITH_EVII	23	0.544273	1.682599	0.019417	0.221266	0.962	1,177
ZHENG_FOXP3_TARGETS_IN_THYMUS_UP	186	0.556338	1.735353	0.019493	0.194691	0.909	4,569
RAY_TARGETS_OF_P210_BCR_ABL_FUSION_DN	15	0.600104	1.680229	0.019493	0.224274	0.962	6,929
REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY	61	0.582754	1.752038	0.019763	0.186466	0.895	6,121
KUMAR_TARGETS_OF_MLL_AF9_FUSION	383	0.349099	1.555098	0.019763	0.300081	0.998	4,179
BIOCARTA_VIP_PATHWAY	25	0.602172	1.714093	0.02004	0.213948	0.933	8,684
REACTOME_GENERATION_OF_SECOND_MESSENGER_MOLECULES	26	0.769886	1.669384	0.02004	0.22814	0.969	4,543
ZEMBUTSU_SENSITIVITY_TO_CISPLATIN	18	0.599887	1.705189	0.020243	0.216366	0.944	6,355
PID_AMB2_NEUTROPHILS_PATHWAY	41	0.549016	1.678287	0.020325	0.226391	0.963	5,395
MAHADEVAN_IMATINIB_RESISTANCE_DN	18	0.611648	1.634332	0.020325	0.255072	0.983	7,627
REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK	43	0.482764	1.692719	0.02045	0.224585	0.955	5,530
BIOCARTA_PAR1_PATHWAY	37	0.529744	1.637058	0.020619	0.254913	0.982	4,978
WEST_ADRENOCORTICAL_CARCINOMA_VS_ADENOMA_DN	23	0.587478	1.631424	0.020661	0.252319	0.983	2,161
YE_METASTATIC_LIVER_CANCER	25	0.482104	1.60982	0.020833	0.263734	0.988	5,395
PID_NFAT_TFPATHWAY	45	0.545391	1.666715	0.021113	0.230329	0.969	5,313
KEGG_RETINOL_METABOLISM	61	0.579989	1.746523	0.021526	0.189527	0.899	6,253
HADDAD_B_LYMPHOCYTE_PROGENITOR	268	0.403827	1.632973	0.021654	0.253995	0.983	5,851
REACTOME_PD1_SIGNALING	17	0.825647	1.62718	0.021739	0.255154	0.985	2,161
ZHOU_INFLAMMATORY_RESPONSE_FIMA_DN	250	0.327066	1.494783	0.021912	0.333638	1	5,964
BIOCARTA_MYOSIN_PATHWAY	31	0.519157	1.634698	0.022044	0.25562	0.982	4,978
LINDGREN_BLADDER_CANCER_CLUSTER_3_DN	214	0.350237	1.55122	0.022267	0.299533	0.999	7,514
MIKKELSEN_MCV6_LCP_WITH_H3K4ME3	146	0.35539	1.546602	0.023166	0.301578	1	5,997
HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_UP	58	0.488342	1.69075	0.023211	0.225341	0.957	4,989
PID_IL12_2PATHWAY	63	0.608883	1.742867	0.023715	0.191134	0.9	3,895
FARMER_BREAST_CANCER_CLUSTER_6	15	0.676562	1.714715	0.023857	0.21586	0.932	4,398
HOSHIDA_LIVER_CANCER_SURVIVAL_UP	72	0.424385	1.596937	0.023857	0.270393	0.989	5,219
SIG_IL4RECEPTOR_IN_B_LYPHOCYTES	27	0.564859	1.704929	0.024	0.215309	0.944	5,177
BIOCARTA_CD40_PATHWAY	15	0.6769	1.68534	0.024	0.223124	0.961	8,242
PID_IFNG_PATHWAY	40	0.543041	1.71857	0.024048	0.215061	0.929	3,776
HUTTMANN_B_CLL_POOR_SURVIVAL_DN	56	0.536573	1.687031	0.024096	0.225318	0.96	9,207
SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_DN	17	0.560258	1.675012	0.02454	0.224402	0.965	6,551
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN	162	0.459391	1.661927	0.024641	0.23345	0.973	6,122
MARZEC_IL2_SIGNALING_DN	36	0.535507	1.646609	0.024896	0.248513	0.981	7,608
BIOCARTA_TNFR2_PATHWAY	18	0.665764	1.726304	0.025391	0.209032	0.923	8,242
HOFMANN_MYELODYSPLASTIC_SYNDROM_RISK_DN	20	0.58035	1.693763	0.025391	0.22705	0.952	5,956
NIELSEN_GIST	93	0.471788	1.67758	0.025391	0.225023	0.963	5,908
LUI_THYROID_CANCER_CLUSTER_2	40	0.408702	1.516449	0.025478	0.319164	1	3,605
REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS	69	0.480425	1.677923	0.025794	0.225757	0.963	6,207

TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP	78	0.467326	1.62853	0.025794	0.255124	0.985	6,586
ZHANG_TARGETS_OF_EWSR1_FLI1_FUSION	86	0.41108	1.585738	0.026104	0.281735	0.993	3,970
KEGG_NEUROTROPHIN_SIGNALING_PATHWAY	125	0.415711	1.622562	0.026157	0.253558	0.985	5,263
BILBAN_B_CLL_LPL_UP	60	0.494483	1.646344	0.026316	0.247789	0.981	3,543
DURAND_STROMA_NS_UP	155	0.357579	1.527911	0.026369	0.315635	1	6,200
MIKKELSEN_NPC_LCP_WITH_H3K4ME3	51	0.41141	1.562694	0.027027	0.296435	0.994	5,869
ODONNELL_TFRC_TARGETS_UP	376	0.29642	1.449353	0.027184	0.359339	1	5,915
KEGG_TYPE_II_DIABETES_MELLITUS	46	0.510332	1.661926	0.027254	0.232277	0.973	5,462
BIOCARTA_CDC42RAC_PATHWAY	16	0.70919	1.691532	0.027344	0.225257	0.957	6,390
WANG_RESPONSE_TO_BEXAROTENE_DN	29	0.542153	1.62544	0.027451	0.253749	0.985	5,802
KUROZUMI_RESPONSE_TO_ONCOCYTIC_VIRUS	44	0.644479	1.67495	0.027505	0.223307	0.965	4,642
FIGUEROA_AML_METHYLATION_CLUSTER_5_DN	43	0.494391	1.685994	0.027668	0.224623	0.961	7,194
FINAK_BREAST_CANCER_SDPG_SIGNATURE	24	0.629958	1.676484	0.027723	0.224311	0.963	6,439
REACTOME_RAP1_SIGNALLING	15	0.571409	1.622786	0.027944	0.254179	0.985	4,515
BIOCARTA_PYK2_PATHWAY	28	0.534508	1.642165	0.028	0.24819	0.982	6,857
REACTOME_PLG_BETA_MEDIATED_EVENTS	39	0.492089	1.587216	0.028112	0.280192	0.993	7,888
MOHANKUMAR_HOXA1_TARGETS_DN	169	0.36756	1.537219	0.02834	0.307697	1	4,841
GAVIN_FOXP3_TARGETS_CLUSTER_P2	76	0.424807	1.590263	0.028571	0.280846	0.99	1,895
BIOCARTA_INTEGRIN_PATHWAY	38	0.514586	1.635528	0.028736	0.255415	0.982	4,119
BIOCARTA_RAC1_PATHWAY	23	0.545481	1.602012	0.028902	0.266309	0.989	9,079
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_DN	52	0.589723	1.684936	0.029183	0.222481	0.961	6,779
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	68	0.523594	1.672846	0.029297	0.223459	0.966	4,608
VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN	36	0.475615	1.572522	0.029412	0.289792	0.994	4,759
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS_VIA_7ALPHA_HYDROXYCHOLESTEROL	15	0.615941	1.652382	0.029644	0.240647	0.979	6,628
BIDUS_METASTASIS_DN	148	0.37766	1.572224	0.02994	0.288422	0.994	5,160
KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	41	0.437638	1.570383	0.030426	0.289862	0.994	5,177
PID_CDC42_REG_PATHWAY	30	0.490769	1.580755	0.030801	0.280917	0.994	2,862
KIM_GERMINAL_CENTER_T_HELPER_UP	62	0.541207	1.651915	0.031496	0.240296	0.979	5,370
BIOCARTA_SPPA_PATHWAY	22	0.537735	1.605783	0.031621	0.261686	0.988	4,978
ST_ADRENERGIC	36	0.491559	1.585474	0.031683	0.281208	0.993	8,623
BIOCARTA_TPO_PATHWAY	24	0.559713	1.622806	0.031936	0.255202	0.985	2,137
BIOCARTA_NKT_PATHWAY	29	0.661465	1.617928	0.032	0.257553	0.986	2,788
REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_ACTIVATED_RECEPTORS_PARS	32	0.511853	1.603648	0.032129	0.26453	0.988	7,601
KEGG_ARACHIDONIC_ACID_METABOLISM	55	0.436854	1.530326	0.03252	0.316487	1	4,002
WORSCHER_TUMOR_REJECTION_UP	51	0.536293	1.634079	0.03301	0.25437	0.983	3,367
KEGG_APOPTOSIS	83	0.394627	1.519805	0.033074	0.317208	1	7,628
SCHEIDEREIT_IKK_INTERACTING_PROTEINS	57	0.42303	1.551025	0.033597	0.298942	0.999	6,468

CROONQUIST_IL6_DEPRIVATION_UP	20	0.569693	1.658731	0.03373	0.235509	0.974	5,410
GRAHAM_CML_DIVIDING_VS_NORMAL QUIESCENT_DN	90	0.482539	1.606408	0.03373	0.26361	0.988	3,977
KEGG_LINOLEIC_ACID_METABOLISM	28	0.557343	1.59867	0.03373	0.269338	0.989	2,957
KLEIN_PRIMARY_EFFUSION_LYMPHOMA_DN	58	0.639284	1.751476	0.033797	0.185808	0.895	3,977
MIKKELSEN_IPS_ICP_WITH_H3K27ME3	47	0.388473	1.449624	0.033932	0.359665	1	3,368
FOSTER_KDM1A_TARGETS_UP	231	0.303094	1.362529	0.034417	0.421233	1	7,117
LUCAS_HNF4A_TARGETS_UP	55	0.497877	1.664875	0.034483	0.231035	0.97	7,924
WU_HBX_TARGETS_1_DN	23	0.486864	1.51963	0.034765	0.316679	1	4,458
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_5	436	0.414451	1.616086	0.034908	0.257834	0.986	7,301
KEGG_HEMATOPOIETIC_CELL_LINEAGE	82	0.579438	1.708208	0.035088	0.213973	0.94	3,835
EHRlich_ICF_SYNDROM_DN	15	0.69065	1.615899	0.035088	0.257119	0.986	3,496
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_UP	51	0.549676	1.643827	0.035294	0.246465	0.982	6,099
REACTOME_NETRIN1_SIGNALING	38	0.476172	1.550353	0.035363	0.297425	0.999	6,694
VALK_AML_WITH_CEBPA	36	0.455079	1.546533	0.035503	0.300817	1	6,218
PID_S1P_S1P2_PATHWAY	24	0.592373	1.630722	0.035573	0.252449	0.984	6,321
BIOCARTA_41BB_PATHWAY	17	0.555438	1.584099	0.035581	0.279772	0.993	6,757
PID_AR_NONGENOMIC_PATHWAY	31	0.45206	1.55751	0.035644	0.301387	0.996	8,684
KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY	117	0.479681	1.636775	0.035714	0.254248	0.982	3,231
BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_DN	43	0.613742	1.60631	0.036961	0.262781	0.988	6,718
DUTERTRE ESTRADIOL_RESPONSE_24HR_DN	489	0.411894	1.567167	0.037113	0.291922	0.994	6,682
REACTOME_CD28_CO_STIMULATION	31	0.504562	1.557541	0.037549	0.302324	0.996	6,121
PID_GMCSF_PATHWAY	36	0.548048	1.63248	0.037624	0.253676	0.983	2,137
LI_INDUCED_T_TO_NATURAL_KILLER_DN	114	0.406835	1.584915	0.037849	0.279262	0.993	2,381
REACTOME_SIGNALING_BY_FGFR1_FUSION_MUTANTS	18	0.602914	1.625523	0.038153	0.254704	0.985	1,644
ONO_FOXP3_TARGETS_DN	39	0.605874	1.653755	0.038306	0.240711	0.977	2,816
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP	86	0.653391	1.686862	0.038384	0.224365	0.96	4,030
HOFMANN_MYELODYSPLASTIC_SYNDROM_HIGH_RISK_DN	20	0.528564	1.570801	0.038685	0.290051	0.994	5,401
ZHAN_LATE_DIFFERENTIATION_GENES_DN	15	0.561445	1.542979	0.038911	0.301839	1	2,771
BIOCARTA_CCR3_PATHWAY	23	0.540186	1.625597	0.038986	0.255691	0.985	4,978
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN	103	0.435927	1.528733	0.039419	0.315961	1	8,749
WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER	53	0.545429	1.674037	0.039526	0.223787	0.966	5,332
ST_INTERLEUKIN_4_PATHWAY	26	0.514582	1.587416	0.04	0.280816	0.993	4,346
PID_EPHRINB_REV_PATHWAY	30	0.473452	1.51428	0.04	0.320536	1	6,087
SCHLOSSER_SERUM_RESPONSE_UP	126	0.368777	1.528783	0.040161	0.316785	1	7,456
REACTOME_RIG_I_MDA5_MEDIATED_INDUCTION_	60	0.464203	1.597815	0.040385	0.269908	0.989	9,116

OF_IFN_ALPHA_BETA_PATHWAYS							
KLEIN_TARGETS_OF_BCR_ABL1_FUSION	43	0.604292	1.707185	0.040568	0.214437	0.942	7,017
YU_MYC_TARGETS_DN	51	0.620851	1.684071	0.040733	0.21996	0.961	6,779
ZHAN_MULTIPLE_MYELOMA_MF_DN	37	0.557989	1.624873	0.041667	0.252619	0.985	6,534
LIU_TARGETS_OF_VMYB_VS_CMYB_DN	42	0.504487	1.575876	0.041916	0.285747	0.994	7,830
REACTOME_PLATELET_AGGREGATION_PLUG_FORMATION	35	0.449976	1.508636	0.042084	0.324267	1	5,274
VERHAAK_GLIOBLASTOMA_NEURAL	120	0.422543	1.569127	0.042226	0.291243	0.994	6,013
VALK_AML_CLUSTER_15	31	0.437049	1.50844	0.042339	0.323754	1	6,012
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_DN	24	0.462102	1.507879	0.042389	0.320667	1	6,066
GENTLES_LEUKEMIC_STEM_CELL_UP	26	0.604801	1.608723	0.042471	0.263624	0.988	5,832
REACTOME_DAG_AND_IP3_SIGNALING	29	0.521715	1.56147	0.042596	0.297546	0.994	8,684
PID_RAS_PATHWAY	30	0.451709	1.519839	0.042596	0.318023	1	8,200
LU_IL4_SIGNALING	91	0.464821	1.583965	0.043137	0.279037	0.993	7,821
ONO_AML1_TARGETS_DN	36	0.644673	1.616783	0.044088	0.257572	0.986	2,663
REACTOME_GENERIC_TRANSCRIPTION_PATHWAY	334	0.431957	1.655255	0.044304	0.239221	0.976	8,025
STARK_PREFRONTAL_CORTEX_22Q11_DELETION_UP	188	0.433137	1.55574	0.044304	0.300855	0.998	6,614
KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PRODUCTION	45	0.672089	1.658995	0.044355	0.236216	0.974	3,965
REACTOME_BIOLOGICAL_OXIDATIONS	133	0.423001	1.550402	0.044355	0.298261	0.999	6,525
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP	248	0.347612	1.468866	0.045175	0.350335	1	3,988
BIOCARTA_NO2IL12_PATHWAY	17	0.759125	1.581366	0.045365	0.280805	0.994	4,437
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN GRANULOCYTE_UP	15	0.534035	1.542123	0.045726	0.302462	1	9,109
ZHAN_MULTIPLE_MYELOMA_CD2_UP	43	0.513048	1.607491	0.046	0.262715	0.988	4,626
WALLACE_PROSTATE_CANCER_RACE_UP	283	0.593801	1.689888	0.046465	0.22407	0.958	4,722
MATZUK_EMBRYONIC_GERM_CELL	19	0.546523	1.582008	0.046559	0.281551	0.993	7,803
VALK_AML_CLUSTER_9	34	0.467534	1.527217	0.046939	0.314163	1	4,995
SHIN_B_CELL_LYMPHOMA_CLUSTER_3	28	0.553985	1.589495	0.047431	0.280176	0.992	8,229
NAKAJIMA_EOSINOPHIL	27	0.540244	1.548154	0.047525	0.300574	0.999	3,384
WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_UP	340	0.380967	1.521649	0.04817	0.318227	1	6,988
REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING	27	0.500975	1.520708	0.048387	0.319096	1	4,515
PID_IL23_PATHWAY	35	0.576222	1.612009	0.04845	0.261759	0.988	5,018
REACTOME_ADP_SIGNALLING_THROUGH_P2RY1	25	0.486062	1.555045	0.04845	0.29924	0.998	7,290
REACTOME_IMMUNOREGULATORY_INTERACTIONS_BETWEEN_A_LYMPHOID_AND_A_NON_LYMPHOID_CELL	59	0.605492	1.608459	0.048583	0.262988	0.988	4,275
DELPUECH_FOXO3_TARGETS_UP	68	0.417214	1.505788	0.048924	0.323731	1	5,949
WIKMAN_ASBESTOS_LUNG_CANCER_DN	27	0.574066	1.632997	0.04898	0.255084	0.983	2,123
CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP	162	0.408199	1.526087	0.049149	0.315386	1	8,367

ST_T_CELL_SIGNAL_TRANSDUCTION	44	0.533993	1.628366	0.04931	0.254268	0.985	3,197
MORI_IMMATURE_B_LYMPHOCYTE_UP	49	0.603575	1.643968	0.049407	0.247376	0.982	5,715
GOLUB_ALL_VS_AML_UP	24	0.521821	1.585291	0.049808	0.280554	0.993	1,172
REACTOME_CA_DEPENDENT_EVENTS	27	0.507034	1.538747	0.050201	0.305824	1	7,888
PID_MAPK_TRK_PATHWAY	33	0.463269	1.476028	0.050302	0.353432	1	3,676
BROWNE_HCMV_INFECTION_10HR_DN	54	0.429403	1.544012	0.050388	0.300967	1	6,343
KEGG_JAK_STAT_SIGNALING_PATHWAY	130	0.466564	1.615811	0.050403	0.256232	0.986	3,922
CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_HD_MTX_DN	21	0.461234	1.51354	0.050505	0.32021	1	2,690
RODRIGUES_DCC_TARGETS_DN	118	0.433756	1.592915	0.050813	0.27686	0.99	9,012
BORCZUK_MALIGNANT_MESOTHELIOMA_DN	100	0.417553	1.564735	0.05102	0.294572	0.994	4,209
SABATES_COLORECTAL_ADENOMA_DN	269	0.511278	1.579387	0.051125	0.282502	0.994	7,553
BIOCARTA_PDGF_PATHWAY	32	0.528307	1.54615	0.05123	0.30064	1	5,861
HENDRICKS_SMARCA4_TARGETS_DN	49	0.466757	1.559594	0.051282	0.300302	0.996	6,104
BIOCARTA_FMLP_PATHWAY	36	0.483879	1.556715	0.051383	0.301007	0.997	6,736
KEGG_CELL_ADHESION_MOLECULES_CAMS	126	0.513127	1.626252	0.05169	0.255696	0.985	4,080
FONTAINE_THYROID_TUMOR_UNCERTAIN_MALIGNANCY_DN	25	0.497957	1.563531	0.051724	0.29584	0.994	3,661
BIOCARTA_HDAC_PATHWAY	27	0.537271	1.585286	0.051896	0.279561	0.993	6,718
SUMI_HNF4A_TARGETS	30	0.501423	1.514525	0.051896	0.32094	1	5,625
YAGI_AML_WITH_T_9_11_TRANSLOCATION	122	0.338112	1.441616	0.052104	0.366097	1	7,910
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_UP	57	0.366581	1.458742	0.052529	0.35735	1	5,601
PID_RHOA_PATHWAY	45	0.439834	1.496651	0.052953	0.332621	1	6,616
VALK_AML_CLUSTER_6	33	0.473062	1.529571	0.053892	0.317015	1	6,887
REACTOME_GPCR_DOWNSTREAM_SIGNALING	456	0.369892	1.513643	0.05395	0.320923	1	6,019
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_UP	201	0.393711	1.525494	0.054108	0.314715	1	7,036
REACTOME_THE_ROLE_OF_NEF_IN_HIV1_REPLICATION_AND_DISEASE_PATHOGENESIS	28	0.539178	1.567272	0.05501	0.29271	0.994	6,851
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN	49	0.402281	1.438012	0.055102	0.36621	1	6,026
BOYLAN_MULTIPLE_MYELOMA_C_D_DN	238	0.398897	1.516402	0.055118	0.318409	1	4,722
MIKKELSEN_ES_LCP_WITH_H3K4ME3	126	0.350278	1.442	0.055446	0.366163	1	4,618
MARSHALL_VIRAL_INFECTION_RESPONSE_DN	29	0.567049	1.574741	0.055453	0.2867	0.994	5,614
FERRANDO_T_ALL_WITH_MLL_ENL_FUSION_UP	85	0.406642	1.494139	0.056202	0.334027	1	6,710
PID_AVB3_OPN_PATHWAY	31	0.513503	1.554366	0.056338	0.299533	0.998	2,137
WU_HBX_TARGETS_2_DN	16	0.566976	1.545766	0.056795	0.300519	1	4,458
BIOCARTA_STATHMIN_PATHWAY	18	0.585998	1.557118	0.057087	0.301199	0.997	2,971
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN	64	0.401866	1.474999	0.057087	0.352901	1	4,760
BIOCARTA_CTLA4_PATHWAY	19	0.774877	1.547763	0.057312	0.300368	0.999	1,644

KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	206	0.376931	1.518666	0.057361	0.316719	1	6,046
BIOCARTA_MAL_PATHWAY	19	0.520418	1.519235	0.05754	0.316559	1	5,861
ABDELMOHSEN_ELAVL4_TARGETS	15	0.618717	1.554258	0.057692	0.298845	0.998	4,119
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	66	0.487146	1.513243	0.057692	0.319846	1	5,438
GRANDVAUX_IRF3_TARGETS_DN	19	0.538199	1.511894	0.057692	0.321534	1	6,663
ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY	37	0.453416	1.477264	0.058586	0.3536	1	4,247
PID_ERBB1_INTERNALIZATION_PATHWAY	41	0.477554	1.588937	0.058939	0.280182	0.992	6,963
PID_IL3_PATHWAY	25	0.499716	1.499702	0.059063	0.328822	1	3,274
RODRIGUES_NTN1_TARGETS_DN	152	0.331268	1.387178	0.059426	0.407917	1	6,175
BIOCARTA_NTHI_PATHWAY	23	0.539293	1.544297	0.059524	0.30138	1	8,242
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_UP	182	0.404539	1.511264	0.059524	0.321935	1	6,059
REACTOME_TOLL_RECEPTOR_CASCADES	114	0.399047	1.52417	0.059642	0.315365	1	7,628
KIM_MYC_AMPLIFICATION_TARGETS_DN	89	0.399592	1.47389	0.059642	0.353377	1	5,003
PID_IL4_2PATHWAY	65	0.511793	1.556544	0.06	0.300385	0.997	3,676
BIOCARTA_AKT_PATHWAY	22	0.511965	1.52607	0.060241	0.31455	1	8,280
RASHI_RESPONSE_TO_IONIZING_RADIATION_6	81	0.445684	1.554173	0.060362	0.298049	0.998	4,343
YANG_MUC2_TARGETS_DUODENUM_3MO_DN	21	0.545902	1.50436	0.060606	0.325574	1	4,958
PID_IL12_STAT4_PATHWAY	33	0.615245	1.588704	0.061265	0.279611	0.993	3,895
PID_ECADHERIN_KERATINOCYTE_PATHWAY	20	0.58404	1.601797	0.06163	0.265613	0.989	9,144
KASLER_HDAC7_TARGETS_1_UP	187	0.356064	1.472184	0.061896	0.353139	1	2,946
BIOCARTA_GPCR_PATHWAY	33	0.513587	1.577297	0.062257	0.284366	0.994	4,978
VERHAAK_AML_WITH_NPM1_MUTATED_DN	236	0.409214	1.527972	0.062753	0.316425	1	6,033
KEGG_VEGF_SIGNALING_PATHWAY	73	0.339775	1.402813	0.062992	0.394952	1	2,957
SHIN_B_CELL_LYMPHOMA_CLUSTER_9	19	0.645762	1.589922	0.063462	0.280428	0.992	4,828
COATES_MACROPHAGE_M1_VS_M2_UP	77	0.380979	1.466842	0.063584	0.350145	1	4,566
PID_RETINOIC_ACID_PATHWAY	30	0.456734	1.476634	0.064182	0.353955	1	5,551
BIOCARTA_IL12_PATHWAY	21	0.648419	1.605954	0.064327	0.262405	0.988	5,601
KEGG_ADHERENS_JUNCTION	68	0.465075	1.553576	0.064579	0.298118	0.998	5,652
ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF	472	0.370696	1.468918	0.064909	0.351031	1	6,634
KEGG_DORSO_VENTRAL_AXIS_FORMATION	24	0.479657	1.468755	0.065041	0.349717	1	7,062
KEGG_CALCIIUM_SIGNALING_PATHWAY	171	0.380651	1.443344	0.065041	0.365076	1	5,738
PID_CD40_PATHWAY	31	0.51845	1.572411	0.065385	0.289002	0.994	3,676
REACTOME_IL_RECEPTOR_SHC_SIGNALING	26	0.572386	1.520082	0.065574	0.318452	1	7,060
REACTOME_HEMOSTASIS	432	0.327006	1.423874	0.065606	0.381577	1	6,523
PID_EPO_PATHWAY	34	0.56714	1.581901	0.066265	0.280766	0.993	2,787
KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY	54	0.422125	1.500895	0.066398	0.328744	1	7,805
SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX1_UP	15	0.575608	1.550622	0.066528	0.298757	0.999	3,691

GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_UP	16	0.555601	1.502402	0.066798	0.32752	1	5,483
PID_INTEGRIN_A4B1_PATHWAY	32	0.481692	1.498562	0.066802	0.330088	1	2,838
BIOCARTA_CREB_PATHWAY	26	0.517304	1.508086	0.067347	0.321915	1	5,530
REACTOME_XENOBIOTICS	15	0.629864	1.500286	0.067485	0.328406	1	4,958
TING_SILENCED_BY_DICER	29	0.491866	1.493833	0.067729	0.333728	1	5,793
KEGG_MAPK_SIGNALING_PATHWAY	258	0.318549	1.386627	0.068273	0.408263	1	7,740
RIGGI_EWING_SARCOMA_PROGENITOR_UP	405	0.352235	1.454357	0.068359	0.356217	1	5,829
ALONSO_METASTASIS_DN	24	0.493058	1.481286	0.06841	0.348593	1	4,304
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_8	46	0.400726	1.453368	0.068687	0.357223	1	5,481
REACTOME_OPIOID_SIGNALLING	73	0.399349	1.460387	0.068762	0.355796	1	7,573
ST_G_ALPHA_S_PATHWAY	16	0.520093	1.457724	0.068826	0.355994	1	11,483
NIELSEN_SYNOVIAL_SARCOMA_DN	20	0.662139	1.535518	0.069388	0.308982	1	6,824
RASHI_RESPONSE_TO_IONIZING_RADIATION_5	142	0.314215	1.374344	0.069444	0.415481	1	4,567
WANG_METASTASIS_OF_BREAST_CANCER_ESR1_DN	26	0.426984	1.465871	0.069672	0.351067	1	4,031
REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE_TYPE	50	0.417179	1.43042	0.07	0.375161	1	6,207
PID_FAS_PATHWAY	38	0.447251	1.452129	0.07014	0.358117	1	6,757
REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROTEINS	37	0.479372	1.551683	0.070281	0.299677	0.999	4,762
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_UP	52	0.43504	1.455058	0.070727	0.356448	1	7,377
FLORIO_NEOCORTEX_BASAL_RADIAL_GLIA_UP	347	0.338782	1.39065	0.071287	0.407278	1	6,856
BIOCARTA_DC_PATHWAY	20	0.603804	1.539612	0.071571	0.305163	1	5,859
BYSTROEM_CORRELATED_WITH_IL5_DN	64	0.501394	1.567571	0.071869	0.293103	0.994	4,577
MATTIOLI_MULTIPLE_MYELOMA_WITH_14Q32_TRANSLOCATIONS	33	0.463025	1.475657	0.072016	0.35321	1	7,474
ZEMBUTSU_SENSITIVITY_TO_VINCRIStINE	18	0.465888	1.45663	0.072125	0.355655	1	4,031
PID_VEGFR1_2_PATHWAY	69	0.426985	1.479412	0.072692	0.350425	1	5,317
BEIER_GLIOMA_STEM_CELL_DN	63	0.420084	1.484308	0.072835	0.345308	1	7,427
GAVIN_PDE3B_TARGETS	22	0.559166	1.532819	0.073267	0.312897	1	4,742
BIOCARTA_AGR_PATHWAY	35	0.440545	1.439618	0.073705	0.366016	1	6,128
REACTOME_SIGNAL_AMPLIFICATION	31	0.475273	1.509251	0.073786	0.323948	1	3,904
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_DN	49	0.450047	1.470827	0.07393	0.351511	1	7,650
KOBAYASHI_EGFR_SIGNALING_24HR_UP	95	0.370919	1.407427	0.074534	0.391296	1	5,743
PID_IL2_PI3K_PATHWAY	34	0.488141	1.489173	0.074656	0.339329	1	4,171
REACTOME_INNATE_IMMUNE_SYSTEM	219	0.371647	1.484235	0.074856	0.344625	1	6,462
ZHAN_MULTIPLE_MYELOMA_LB_DN	36	0.542667	1.545188	0.074951	0.300709	1	5,578
KATSANOu_ELAVL1_TARGETS_UP	164	0.32384	1.3725	0.075099	0.416766	1	4,090
MARTENS_BOUND_BY_PML_RARA_FUSION	423	0.314385	1.375598	0.075848	0.415141	1	4,581

REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	47	0.394404	1.440067	0.076446	0.366699	1	7,002
ONO_AML1_TARGETS_UP	24	0.57686	1.540462	0.076471	0.304611	1	3,661
RICKMAN_HEAD_AND_NECK_CANCER_D	35	0.513116	1.527623	0.076482	0.315248	1	2,529
RUAN_RESPONSE_TO_TROGLITAZONE_UP	25	0.47045	1.480068	0.077079	0.349985	1	7,117
REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM	248	0.404857	1.501172	0.07722	0.329	1	7,060
SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCYTES	50	0.459471	1.490889	0.077236	0.336893	1	5,880
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_OLD	30	0.38496	1.404695	0.077236	0.394307	1	4,004
LENAOUR_DENDRITIC_CELL_MATURATION_UP	113	0.397736	1.471992	0.078125	0.352667	1	4,537
REACTOME_INFLAMMASOMES	16	0.596141	1.525328	0.078244	0.314177	1	5,331
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_DN	39	0.42755	1.451736	0.078313	0.357253	1	4,577
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_C	88	0.322555	1.321003	0.078947	0.452781	1	5,920
OISHI_CHOLANGIOMA_STEM_CELL_LIKE_DN	268	0.399405	1.527228	0.079051	0.315015	1	6,694
GRAHAM_CML QUIESCENT_VS_NORMAL QUIESCENT_DN	44	0.486798	1.494896	0.079208	0.334287	1	4,030
BIOCARTA_GSK3_PATHWAY	27	0.472325	1.473234	0.079365	0.353812	1	8,280
KONDO_EZH2_TARGETS	223	0.365667	1.434527	0.08	0.369685	1	5,922
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A4	188	0.318975	1.351353	0.080868	0.429548	1	4,267
PID_IL6_7_PATHWAY	47	0.460097	1.485628	0.081028	0.344437	1	3,776
RAGHAVACHARI_PLATELET_SPECIFIC_GENES	67	0.446325	1.472397	0.081905	0.353567	1	3,962
XU_HGF_TARGETS_REPRESSED_BY_AKT1_DN	86	0.3384	1.37857	0.081967	0.412846	1	2,741
PID_IL27_PATHWAY	25	0.59982	1.509962	0.082	0.323576	1	3,895
RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN	483	0.375453	1.491953	0.082192	0.335608	1	6,637
BIOCARTA_NFAT_PATHWAY	51	0.440657	1.466968	0.082192	0.350683	1	7,601
BREDEMEYER_RAG_SIGNALING_VIA_ATM_NOT_VIA_NFKB_UP	47	0.365568	1.372126	0.082495	0.416823	1	4,758
KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	88	0.42034	1.475625	0.083164	0.352444	1	8,280
WANG_BARRETTS_ESOPHAGUS_UP	50	0.442922	1.452023	0.083333	0.357541	1	5,963
PID_TCR_CALCIIUM_PATHWAY	27	0.508759	1.452308	0.083658	0.358523	1	7,567
BIOCARTA_PGC1A_PATHWAY	22	0.535118	1.520302	0.083665	0.318909	1	6,458
FIRESTEIN_CTNNB1_PATHWAY	32	0.421366	1.415192	0.083682	0.385758	1	5,256
SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_DN	80	0.396493	1.450537	0.084168	0.358662	1	4,936
KEGG_ERBB_SIGNALING_PATHWAY	86	0.368428	1.41649	0.084453	0.386412	1	2,971
PID_REG_GR_PATHWAY	78	0.349514	1.380503	0.084536	0.411404	1	5,474
SCHEIDEREIT_IKK_TARGETS	17	0.50465	1.43529	0.084646	0.369065	1	8,242
REACTOME_RIP_MEDIATED_NFKB_ACTIVATION_VIA_DAI	18	0.500245	1.46932	0.085437	0.351131	1	9,364
HOEBEKE_LYMPHOID_STEM_CELL_UP	87	0.440911	1.517697	0.08554	0.317607	1	4,661
WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_UP	30	0.512313	1.504233	0.086614	0.325008	1	5,911

TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_UP	53	0.394181	1.428745	0.086694	0.376847	1	5,065
GENTILE_UV_RESPONSE_CLUSTER_D6	35	0.497142	1.500804	0.087045	0.328104	1	6,431
REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON_Glutamate_BINDING	31	0.431515	1.422224	0.087129	0.382418	1	7,529
PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY	35	0.474007	1.439353	0.087221	0.365794	1	2,838
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	233	0.410753	1.476344	0.087549	0.353652	1	3,922
REACTOME_SYNTHESIS_OF_PIPS_AT_THE_GOLGI_MEMBRANE	17	0.505332	1.468382	0.087683	0.349628	1	6,069
FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_DN	431	0.407617	1.508185	0.087891	0.322559	1	6,392
PENG_RAPAMYCIN_RESPONSE_UP	194	0.325589	1.397299	0.087891	0.39962	1	4,552
MULLIGHAN_MLL_SIGNATURE_2_UP	393	0.341383	1.442439	0.088	0.366066	1	6,931
REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION	18	0.545	1.464314	0.088235	0.351585	1	7,532
REACTOME_NUCLEOTIDE_LIKE_PURINERGIC_RECEPTORS	15	0.535132	1.424537	0.088235	0.381012	1	5,559
BIOCARTA_STRESS_PATHWAY	25	0.471371	1.456827	0.088409	0.356054	1	8,242
KEGG_ACUTE_MYELOID_LEUKEMIA	57	0.416361	1.468006	0.088583	0.349593	1	6,857
BIOCARTA_CHEMICAL_PATHWAY	22	0.445213	1.376759	0.088889	0.414924	1	5,780
BROWNE_HCMV_INFECTION_30MIN_DN	138	0.305813	1.30123	0.088933	0.464535	1	6,156
YAGI_AML_WITH_T_8_21_TRANSLOCATION	355	0.306187	1.359426	0.089109	0.425837	1	4,730
OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_DN	254	0.322941	1.352433	0.089249	0.429535	1	5,821
GENTILE_UV_RESPONSE_CLUSTER_D7	37	0.419012	1.398	0.089524	0.399773	1	5,284
WOTTON_RUNX_TARGETS_UP	19	0.465444	1.404185	0.090164	0.393773	1	3,179
ZHENG_FOXP3_TARGETS_UP	25	0.575826	1.496214	0.090385	0.332574	1	5,943
FRIDMAN_IMMORTALIZATION_DN	33	0.52253	1.488518	0.090909	0.339664	1	5,376
MULLIGHAN_MLL_SIGNATURE_1_UP	356	0.347874	1.431781	0.091089	0.374032	1	6,931
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP	141	0.346066	1.369088	0.091797	0.418422	1	5,614
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_UP	102	0.366112	1.405827	0.092	0.393627	1	5,752
MULLIGHAN_MLL_SIGNATURE_2_DN	265	0.296641	1.334144	0.092184	0.442147	1	5,483
IWANAGA_CARCIINOGENESIS_BY_KRAS_PTEN_DN	324	0.326331	1.36347	0.092486	0.421447	1	7,678
BROWNE_HCMV_INFECTION_6HR_DN	154	0.374025	1.408161	0.092555	0.390705	1	8,592
NIELSEN_LEIOMYOSARCOMA_DN	16	0.520432	1.448738	0.092929	0.359654	1	7,931
NIKOLSKY_BREAST_CANCER_19Q13.1_AMPLICON	22	0.717866	1.508214	0.093306	0.323349	1	4,371
REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALLING	28	0.475398	1.439699	0.093812	0.366622	1	7,529
ROME_INSULIN_TARGETS_IN_MUSCLE_DN	179	0.267198	1.254391	0.093878	0.48371	1	5,986
GRABARCZYK_BCL11B_TARGETS_UP	73	0.412147	1.441168	0.094188	0.365401	1	6,397
THUM_SYSTOLIC_HEART_FAILURE_UP	396	0.417519	1.523147	0.094303	0.316282	1	6,881
FOSTER_TOLERANT_MACROPHAGE_DN	392	0.360358	1.423259	0.09505	0.381166	1	6,041
REACTOME_DOWNREGULATION_OF_SMAD2_3_SMAD4_TRANSCRIPTIONAL_ACTIVITY	20	0.479371	1.435339	0.095427	0.369693	1	6,996
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_DN	17	0.594223	1.49216	0.095528	0.33601	1	5,284
TERAO_AOX4_TARGETS_HG_UP	28	0.438842	1.414514	0.095528	0.38556	1	7,992

WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_DN	22	0.604997	1.537163	0.096	0.306872	1	7,067
SMID_BREAST_CANCER_LUMINAL_A_UP	80	0.514078	1.528944	0.096	0.317379	1	6,979
VALK_AML_CLUSTER_12	30	0.393494	1.357724	0.096078	0.427011	1	3,390
PID_RET_PATHWAY	39	0.450157	1.438216	0.096386	0.367333	1	5,530
BIOCARTA_TH1TH2_PATHWAY	19	0.642644	1.485608	0.096457	0.343621	1	3,895
GABRIELY_MIR21_TARGETS	278	0.53765	1.566775	0.096579	0.291731	0.994	8,980
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	175	0.359138	1.396031	0.096647	0.40056	1	6,615
NIELSEN_GIST_VS_SYNOVIAL_SARCOMA_DN	19	0.533458	1.438163	0.096708	0.366676	1	5,227
CHEBOTAEV_GR_TARGETS_UP	73	0.390142	1.398503	0.096708	0.399519	1	6,763
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_DN	57	0.378233	1.403821	0.096774	0.393825	1	5,226
KEGG_ENDOCYTOSIS	176	0.326814	1.375595	0.09697	0.414446	1	5,381
FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_DN	41	0.419769	1.370359	0.09703	0.418166	1	5,216
NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON	18	0.542281	1.455594	0.097363	0.356141	1	5,591
FONTAINE_PAPILLARY_THYROID_CARINOMA_UP	58	0.365252	1.396199	0.09751	0.400944	1	7,963
BIOCARTA_RARRXR_PATHWAY	15	0.506177	1.456224	0.09776	0.355681	1	6,697
PID_RAC1_PATHWAY	53	0.445249	1.471865	0.09901	0.35124	1	6,390
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_DN	151	0.319359	1.355878	0.099222	0.427784	1	5,445
REACTOME_SYNTHESIS_OF_PC	18	0.474052	1.414522	0.099391	0.386274	1	3,855
EPPERT_CE_HSC_LSC	37	0.480803	1.44726	0.099609	0.360014	1	5,476
WANG_TARGETS_OF_MLL_CBP_FUSION_UP	43	0.35936	1.333284	0.099796	0.443111	1	3,454
BIOCARTA_HCMV_PATHWAY	17	0.554797	1.454469	0.1	0.356753	1	3,676
KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	18	0.445555	1.352404	0.100205	0.428936	1	10,486
ASTON_MAJOR_DEPRESSIVE_DISORDER_DN	152	0.331702	1.342731	0.100592	0.434102	1	6,214
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN	305	0.38273	1.437494	0.10099	0.366393	1	6,373
IVANOVA_HEMATOPOIESIS_MATURE_CELL	267	0.325887	1.380966	0.101167	0.411246	1	7,890
KYNG_DNA_DAMAGE_UP	219	0.318251	1.350091	0.101796	0.429899	1	7,565
PID_TNF_PATHWAY	45	0.418263	1.412628	0.102204	0.385366	1	7,693
SCHRAETS_MLL_TARGETS_DN	32	0.440778	1.402164	0.102249	0.394697	1	7,067
KEGG_NON_SMALL_CELL_LUNG_CANCER	54	0.379335	1.366057	0.10241	0.419229	1	2,741
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP	201	0.3038	1.298143	0.102564	0.466453	1	6,731
BAUS_TFF2_TARGETS_UP	31	0.500386	1.473092	0.102767	0.353217	1	4,790
BIOCARTA_EGF_PATHWAY	31	0.477876	1.413757	0.103586	0.385486	1	7,567
LEE_NAIVE_T_LYMPHOCYTE	17	0.514645	1.444807	0.104331	0.363887	1	5,047
REACTOME_SIGNALING_BY_SCF_KIT	75	0.369438	1.387589	0.104743	0.407907	1	5,630
TARTE_PLASMA_CELL_VS_PLASMABLAST_UP	369	0.318326	1.350123	0.104762	0.430516	1	5,935
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP	78	0.400959	1.418923	0.105368	0.384864	1	5,680
PID_CMYB_PATHWAY	80	0.356182	1.377707	0.105566	0.413824	1	5,865

ST_GA12_PATHWAY	23	0.395888	1.342462	0.105566	0.433974	1	5,880
BOYALT_LIVER_CANCER_SUBCLASS_G12_DN	15	0.472262	1.368411	0.106029	0.41826	1	3,077
BIOCARTA_HER2_PATHWAY	22	0.533618	1.447698	0.106122	0.359923	1	2,195
KEGG_TIGHT_JUNCTION	126	0.32875	1.330482	0.106122	0.445622	1	5,516
BIOCARTA_HSP27_PATHWAY	15	0.465017	1.364959	0.106509	0.420045	1	1,885
HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_DN	58	0.476346	1.474207	0.107212	0.353601	1	6,939
REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS	50	0.447593	1.458561	0.107884	0.356882	1	6,860
BARRIER_CANCER_RELAPSE_NORMAL_SAMPLE_UP	32	0.485113	1.441355	0.107884	0.365831	1	6,718
PID_SHP2_PATHWAY	57	0.473683	1.471308	0.108434	0.351466	1	7,016
RHEIN_ALL_GLUCOCORTICOID_THERAPY_UP	75	0.452968	1.464793	0.108481	0.351484	1	5,956
HALMOS_CEBPA_TARGETS_UP	49	0.404026	1.388886	0.108571	0.407676	1	3,194
BIOCARTA_CYTOKINE_PATHWAY	16	0.57106	1.418494	0.108911	0.384935	1	3,895
BUCKANOVICH_T_LYMPHOCYTE_HOMING_ON_TUMOR_UP	21	0.523836	1.469903	0.108949	0.351596	1	5,588
PID_PI3K_PLC_TRK_PATHWAY	36	0.428726	1.375893	0.109312	0.4152	1	4,620
AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_2G	163	0.328239	1.348546	0.109589	0.430737	1	3,209
PID_ERBB1_DOWNSTREAM_PATHWAY	105	0.397793	1.429984	0.10978	0.375282	1	8,664
REACTOME_SIGNALING_BY_FGFR1_MUTANTS	27	0.446465	1.404687	0.110672	0.393593	1	8,684
REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	78	0.347323	1.357106	0.110672	0.426826	1	5,184
PID_HIV_NEF_PATHWAY	35	0.414279	1.384837	0.111328	0.410274	1	6,757
HASLINGER_B_CLL_WITH_13Q14_DELETION	24	0.39121	1.320976	0.111531	0.45217	1	7,234
MCCLUNG_COCAIN_REWARD_4WK	70	0.349698	1.344005	0.111765	0.432353	1	7,622
PID_ER_NONGENOMIC_PATHWAY	41	0.446486	1.416244	0.111984	0.386099	1	6,857
BIOCARTA_ALK_PATHWAY	36	0.4269	1.409028	0.111984	0.390465	1	5,213
PID_PTP1B_PATHWAY	51	0.426651	1.415936	0.113131	0.385184	1	6,963
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN	194	0.425854	1.457896	0.113281	0.356504	1	5,112
PID_IL1_PATHWAY	34	0.425848	1.361689	0.113821	0.422201	1	8,413
ST_WNT_BETA_CATENIN_PATHWAY	34	0.431153	1.420781	0.114228	0.383606	1	4,317
KEGG_PPAR_SIGNALING_PATHWAY	68	0.369418	1.327632	0.114345	0.446368	1	10,883
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_DN	19	0.49931	1.426222	0.115538	0.380786	1	5,338
KEGG_AUTOIMMUNE_THYROID_DISEASE	38	0.603857	1.50799	0.115686	0.321264	1	6,512
VANHARANTA_UTERINE_FIBROID_DN	63	0.41179	1.391545	0.11609	0.406317	1	6,238
MAEKAWA_ATF2_TARGETS	23	0.405245	1.296349	0.116232	0.467278	1	3,472
MA_PITUITARY_FETAL_VS_ADULT_DN	19	0.517693	1.419445	0.116466	0.384597	1	5,261
REACTOME_TRANS_GOLGI_NETWORK_VESICLE_BUDDING	57	0.449838	1.4572	0.116667	0.356176	1	6,860
LEE_RECENT_THYMIC_EMIGRANT	208	0.33674	1.345555	0.116832	0.433535	1	6,476
FUJII_YBX1_TARGETS_UP	39	0.364789	1.31459	0.116832	0.455149	1	4,399
PID_ANGIOPOIETIN_RECEPTOR_PATHWAY	50	0.447188	1.405386	0.1174	0.39374	1	8,592
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP	178	0.368513	1.385541	0.118343	0.40965	1	4,458

TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_16D_DN	124	0.304614	1.262017	0.118343	0.481947	1	6,095
HEIDENBLAD_AMPLICON_8Q24_DN	44	0.355018	1.339304	0.118712	0.435842	1	7,786
ZHAN_MULTIPLE_MYELOMA_MS_UP	46	0.464762	1.423803	0.118998	0.380952	1	5,889
GAUSSMANN_MLL_AF4_FUSION_TARGETS_D_UP	36	0.438059	1.382174	0.119192	0.411789	1	4,149
LASTOWSKA_COAMPLIFIED_WITH_MYCN	39	0.439723	1.416192	0.119374	0.385441	1	4,399
REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION	24	0.48808	1.420677	0.119608	0.383042	1	3,676
REACTOME_ERK_MAPK_TARGETS	21	0.479694	1.392696	0.119691	0.404699	1	3,676
ROVERSI_GLIOMA_LOH_REGIONS	41	0.439853	1.395168	0.119919	0.4014	1	8,318
GEORGANTAS_HSC_MARKERS	66	0.404658	1.389092	0.120316	0.408731	1	3,965
KYNG_DNA_DAMAGE_BY_4NQO_OR_UV	62	0.343665	1.317409	0.120316	0.453016	1	4,971
IGARASHI_ATF4_TARGETS_DN	88	0.434237	1.458915	0.121212	0.357801	1	4,241
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN	36	0.45917	1.376641	0.121387	0.414422	1	6,718
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP	25	0.553154	1.463164	0.121569	0.352155	1	4,984
REACTOME_ACTIVATED_TLR4_SIGNALLING	91	0.351571	1.352788	0.121807	0.429638	1	7,830
BIOCARTA_NFKB_PATHWAY	23	0.486075	1.414274	0.121849	0.385301	1	8,242
KEGG_ASCORBATE_AND_ALDARATE_METABOLISM	23	0.518661	1.362688	0.121857	0.421616	1	8,896
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_DN	15	0.559536	1.424883	0.121951	0.381144	1	3,961
KEGG_AXON_GUIDANCE	126	0.334623	1.325102	0.122449	0.449078	1	6,458
GRAHAM_NORMAL QUIESCENT VS NORMAL DIVIDING UP	65	0.405645	1.355788	0.122736	0.427288	1	3,929
BROWNE_HCMV_INFECTION_24HR_DN	143	0.373784	1.399326	0.12326	0.398708	1	6,393
LI_INDUCED_T_TO_NATURAL_KILLER_UP	295	0.334712	1.355616	0.123288	0.426943	1	7,155
BIOCARTA_EPO_PATHWAY	19	0.439713	1.34885	0.123506	0.430873	1	2,137
LIU_TARGETS_OF_VMYB_VS_CMYB_UP	16	0.470439	1.347761	0.12369	0.431524	1	7,947
BIOCARTA_TGFB_PATHWAY	19	0.528269	1.381169	0.123711	0.412997	1	3,201
CHANG_CORE_SERUM_RESPONSE_DN	195	0.331114	1.368848	0.124016	0.418137	1	8,413
KEGG_WNT_SIGNALING_PATHWAY	145	0.312019	1.304985	0.124249	0.460238	1	7,573
SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_DN	44	0.471358	1.431332	0.125	0.374182	1	8,655
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_DN	113	0.374774	1.383673	0.125	0.410331	1	6,194
BIOCARTA_HIVNEF_PATHWAY	58	0.379384	1.363921	0.126233	0.421263	1	6,757
XU_CREBBP_TARGETS_DN	42	0.415428	1.374162	0.126253	0.415107	1	2,661
BIOCARTA_NOS1_PATHWAY	20	0.476536	1.37943	0.126706	0.411902	1	7,365
GRABARCZYK_BCL11B_TARGETS_DN	53	0.38614	1.337964	0.126953	0.437102	1	5,229
BOSCO_TH1_CYTOTOXIC_MODULE	102	0.497265	1.471925	0.126984	0.351972	1	4,978
KEGG_ALLOGRAFT_REJECTION	35	0.628337	1.483804	0.127202	0.344621	1	6,512
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_DN	49	0.400419	1.365705	0.127202	0.419222	1	8,623
PARK_TRETINOIN_RESPONSE_AND_PML_RARA_FUSION	29	0.502411	1.401228	0.12753	0.39583	1	3,776
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	117	0.293932	1.278595	0.127883	0.47942	1	6,104
PID_FAK_PATHWAY	58	0.456381	1.413754	0.12831	0.384774	1	5,652

BIOCARTA_LAIR_PATHWAY	16	0.559212	1.402173	0.128631	0.395397	1	647
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_	39	0.382165	1.367233	0.129482	0.419041	1	4,004
NOT_BY_4NQO_IN_WS							
KEGG_INSULIN_SIGNALING_PATHWAY	135	0.310324	1.288533	0.129817	0.469713	1	5,177
KEGG_HEDGEHOG_SIGNALING_PATHWAY	53	0.366402	1.312365	0.130612	0.456065	1	5,686
PLASARI_NFIC_TARGETS_BASAL_UP	27	0.455544	1.390238	0.131048	0.407348	1	3,512
WILENSKY_RESPONSE_TO_DARAPLADIB	29	0.635283	1.458045	0.131213	0.357034	1	3,273
PID_EPHB_FWD_PATHWAY	40	0.465439	1.413505	0.131631	0.384487	1	2,387
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN	76	0.485007	1.469769	0.132937	0.351077	1	8,287
MARTIN_INTERACT_WITH_HDAC	43	0.384901	1.349326	0.132937	0.430663	1	3,797
REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES	33	0.434711	1.383397	0.133072	0.410153	1	5,587
REACTOME_CELL_SURFACE_INTERACTIONS_	84	0.397596	1.373201	0.133201	0.416193	1	4,037
AT_THE_VASCULAR_WALL							
PID_NCADHERIN_PATHWAY	33	0.455663	1.370603	0.133603	0.418328	1	6,386
KEGG_GAP_JUNCTION	88	0.340387	1.299951	0.133612	0.465082	1	7,529
RAMASWAMY_METASTASIS_DN	59	0.355461	1.292245	0.133612	0.466928	1	7,106
MULLIGHAN_MLL_SIGNATURE_1_DN	228	0.264188	1.220716	0.1341	0.498445	1	5,395
VALK_AML_CLUSTER_16	24	0.430251	1.330967	0.134387	0.446058	1	6,779
COLLIS_PRKDC_REGULATORS	15	0.470644	1.329636	0.134387	0.444558	1	8,054
MIKKELSEN_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	199	0.291906	1.269868	0.135029	0.48044	1	5,576
XU_GH1_EXOGENOUS_TARGETS_UP	69	0.328341	1.27197	0.135458	0.4813	1	7,616
BIOCARTA_RELA_PATHWAY	16	0.512834	1.425377	0.13556	0.381737	1	8,242
ROSS_AML_WITH_MLL_FUSIONS	74	0.396342	1.369287	0.136273	0.418705	1	6,779
FONTAINE_PAPILLARY_THYROID_CARCINOMA_DN	72	0.318166	1.289519	0.136276	0.469069	1	6,328
PID_MYC_REPRESS_PATHWAY	62	0.332449	1.27763	0.136456	0.479409	1	2,852
PID_NETRIN_PATHWAY	32	0.444487	1.371625	0.136719	0.417069	1	8,684
COULOUARN_TEMPORAL_TGFB1_SIGNATURE_DN	128	0.331436	1.293047	0.136735	0.467952	1	6,113
KIM_LIVER_CANCER_POOR_SURVIVAL_DN	42	0.448434	1.350288	0.137131	0.430903	1	6,522
HANSON_HRAS_SIGNALING_VIA_NFKB	22	0.42903	1.313864	0.137143	0.455841	1	6,818
NABA_ECM_AFFILIATED	160	0.292602	1.244122	0.137525	0.489079	1	6,538
CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP	76	0.33446	1.301254	0.137577	0.465133	1	5,876
PID_RXR_VDR_PATHWAY	26	0.398341	1.317119	0.138211	0.452949	1	5,944
KEGG_GRAFT_VERSUS_HOST_DISEASE	37	0.616539	1.469998	0.13834	0.352212	1	6,512
KEGG_MELANOGENESIS	99	0.312444	1.268023	0.138889	0.479683	1	6,659
MIKKELSEN_IPS_LCP_WITH_H3K4ME3	156	0.293908	1.258092	0.138943	0.486298	1	5,603
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6	73	0.3047	1.235999	0.139535	0.49138	1	7,779
PARK_HSC_VS_MULTIPOTENT_PROGENITORS_UP	19	0.452351	1.336563	0.140039	0.43903	1	8,655
PID_SMAD2_3NUCLEAR_PATHWAY	80	0.361353	1.324143	0.141393	0.448927	1	3,986
BASSO_CD40_SIGNALING_UP	99	0.474598	1.444614	0.141454	0.363514	1	5,671

SIG_CHEMOTAXIS	43	0.416678	1.344673	0.141962	0.432468	1	4,189
KEGG_TYPE_I_DIABETES_MELLITUS	41	0.55143	1.461614	0.143411	0.354299	1	6,512
PID_SYNDECAN_4_PATHWAY	31	0.432801	1.345001	0.143418	0.433837	1	5,655
JUBAN_TARGETS_OF_SPI1_AND_FLI1_UP	110	0.285074	1.236106	0.143713	0.491739	1	6,710
DOANE_BREAST_CANCER_CLASSES_UP	68	0.405894	1.34423	0.143969	0.43262	1	4,804
CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN	24	0.453865	1.33143	0.144309	0.44583	1	2,116
SHIN_B_CELL_LYMPHOMA_CLUSTER_7	27	0.384383	1.30593	0.14433	0.461117	1	4,025
REACTOME_CHEMOKINE_RECEPTORS_BIND_CHEMOKINES	49	0.534155	1.447907	0.144788	0.36031	1	4,114
REACTOME_CTLA4_INHIBITORY_SIGNALING	21	0.472909	1.354007	0.144814	0.42933	1	7,884
KEGG_CHRONIC_MYELOID_LEUKEMIA	73	0.362634	1.326918	0.144841	0.447092	1	3,201
PID_ECADHERIN_NASCENT_AJ_PATHWAY	38	0.476852	1.416741	0.145129	0.386688	1	6,386
LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_SMALL_VS_HUGE_DN	31	0.38576	1.307482	0.145631	0.459404	1	6,037
DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN	28	0.510601	1.379473	0.145914	0.412516	1	7,776
LINDSTEDT_DENDRITIC_CELL_MATURATION_B	53	0.469304	1.418393	0.146067	0.384396	1	5,003
SAFFORD_T_LYMPHOCYTE_ANERGY	83	0.318843	1.283509	0.146484	0.474801	1	5,199
BASAKI_YBX1_TARGETS_DN	362	0.314393	1.318905	0.146825	0.454133	1	6,743
WORSCHER_TUMOR_EVASION_AND_TOLEROGENICITY_UP	28	0.471724	1.381074	0.147059	0.412457	1	3,562
BRACHAT_RESPONSE_TO_CISPLATIN	20	0.442839	1.330872	0.147228	0.445566	1	5,140
DER_IFN_BETA_RESPONSE_UP	102	0.427239	1.397584	0.147287	0.399809	1	7,092
BROWNE_HCMV_INFECTION_8HR_DN	46	0.385018	1.318024	0.14741	0.453804	1	6,732
RADMACHER_AML_PROGNOSIS	75	0.347056	1.275249	0.147541	0.480245	1	8,684
RIZ_ERYTHROID_DIFFERENTIATION_APOBEC2	24	0.44123	1.370217	0.147705	0.417698	1	7,803
FINETTI_BREAST_CANCERS_KINOME_GRAY	15	0.659263	1.387644	0.148073	0.408536	1	9,239
KEGG_ETHER_LIPID_METABOLISM	29	0.391479	1.316447	0.148221	0.45356	1	8,531
XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_UP	16	0.499001	1.344941	0.148496	0.432608	1	1,962
REACTOME_LYSOSOME_VESICLE_BIOGENESIS	23	0.451155	1.345941	0.15	0.433505	1	6,860
REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVENTS	33	0.415271	1.330073	0.150206	0.444407	1	4,189
BIOCARTA_FAS_PATHWAY	30	0.430538	1.344969	0.150905	0.433234	1	5,096
KANG_IMMORTALIZED_BY_TERT_DN	97	0.352951	1.313426	0.151697	0.455408	1	6,439
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_4NM_UP	22	0.447903	1.292893	0.151751	0.467577	1	3,593
BURTON_ADIPOGENESIS_11	53	0.462618	1.384078	0.151822	0.410318	1	5,038
GUILLAUMOND_KLF10_TARGETS_UP	49	0.37294	1.299079	0.152083	0.465426	1	5,965
ENK_UV_RESPONSE_EPIDERMIS_DN	492	0.303328	1.293461	0.152642	0.468419	1	5,284
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_UP	460	0.279461	1.249673	0.152778	0.485867	1	6,042
WATANABE_COLON_CANCER_MSI_VS_MSS_DN	77	0.360891	1.283311	0.153191	0.473921	1	6,294
ROSS_LEUKEMIA_WITH_MLL_FUSIONS	75	0.348257	1.283737	0.153386	0.47501	1	6,655
VILIMAS_NOTCH1_TARGETS_UP	50	0.546271	1.421603	0.153551	0.382863	1	3,026
SA_CASPASE_CASCADE	19	0.468164	1.341046	0.153846	0.43457	1	3,856
LEIN_PONS_MARKERS	82	0.343523	1.280393	0.153846	0.476726	1	7,018

MEISSNER_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	135	0.291696	1.250321	0.154158	0.485322	1	5,838
BIOCARTA_GATA3_PATHWAY	15	0.460184	1.301374	0.15444	0.465587	1	4,917
BIOCARTA_PPARA_PATHWAY	56	0.36811	1.297947	0.154455	0.465524	1	8,280
BIOCARTA_UCALPAIN_PATHWAY	18	0.515153	1.358079	0.155039	0.426988	1	5,530
PID_ARF6_TRAFFICKING_PATHWAY	49	0.394614	1.329369	0.155102	0.444397	1	9,986
ALONSO_METASTASIS_NEURAL_UP	17	0.469023	1.299184	0.155945	0.465853	1	1,617
PID_TOLL_ENDOGENOUS_PATHWAY	25	0.453773	1.328312	0.156187	0.445779	1	8,655
REACTOME_INTERFERON_GAMMA_SIGNALING	60	0.492601	1.464189	0.15619	0.351053	1	5,998
MCBRYAN_PUBERTAL_BREAST_6_7WK_UP	189	0.33206	1.293277	0.156317	0.468144	1	5,720
ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_UP	107	0.330634	1.266458	0.15748	0.478989	1	8,834
LU_AGING_BRAIN_UP	253	0.361413	1.340726	0.157787	0.43454	1	5,410
ZHAN_LATE_DIFFERENTIATION_GENES_UP	33	0.410987	1.307686	0.157895	0.459691	1	1,615
BIOCARTA_CASPASE_PATHWAY	23	0.466405	1.341148	0.158103	0.435023	1	4,762
DIAZ_CHRONIC_MEYLOGENOUS_LEUKEMIA_DN	114	0.39898	1.358407	0.158416	0.427053	1	5,018
BIOCARTA_INFLAM_PATHWAY	26	0.483908	1.363334	0.158824	0.421037	1	1,988
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_DN	267	0.305615	1.266325	0.158859	0.478642	1	2,628
SASSON_RESPONSE_TO_GONADOTROPHINS_DN	86	0.397756	1.324241	0.159004	0.449423	1	6,757
VALK_AML_WITH_11Q23_REARRANGED	19	0.418695	1.255881	0.159004	0.484424	1	3,926
BIOCARTA_ERK5_PATHWAY	17	0.50927	1.334601	0.159091	0.441976	1	2,863
BARIS_THYROID_CANCER_DN	57	0.348287	1.251588	0.159363	0.484718	1	5,863
REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	81	0.339044	1.27508	0.159449	0.479944	1	7,830
VANASSE_BCL2_TARGETS_UP	37	0.390483	1.295712	0.159615	0.46591	1	2,332
SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCYTES	66	0.365108	1.294141	0.160825	0.467678	1	7,084
REACTOME_DEVELOPMENTAL_BIOLOGY	377	0.29661	1.254704	0.160966	0.484273	1	7,606
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2	80	0.268297	1.187203	0.160966	0.519622	1	7,796
MAHADEVAN_IMATINIB_RESISTANCE_UP	19	0.46956	1.326704	0.161355	0.446787	1	5,838
GRESHOCK_CANCER_COPY_NUMBER_UP	316	0.315842	1.295496	0.161491	0.465672	1	7,670
RODWELL_AGING_KIDNEY_UP	453	0.392834	1.381054	0.161616	0.411776	1	5,994
HOOI_ST7_TARGETS_UP	83	0.32227	1.250341	0.161677	0.485857	1	5,768
REACTOME_SIGNALING_BY_HIPPO	20	0.51797	1.374674	0.162055	0.415588	1	3,587
SMID_BREAST_CANCER_RELAPSE_IN_BONE_UP	93	0.344221	1.255112	0.163306	0.484709	1	5,745
KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	51	0.328861	1.245742	0.163306	0.488422	1	3,676
REACTOME_SYNTHESIS_OF_PA	24	0.411423	1.305421	0.163636	0.461347	1	5,994
PID_TCPTP_PATHWAY	43	0.457942	1.352191	0.164241	0.42868	1	3,691
REACTOME_BOTULINUM_NEUROTOXICITY	18	0.424796	1.283912	0.164384	0.475298	1	1,964
BIOCARTA_TNFR1_PATHWAY	29	0.410684	1.305254	0.164683	0.460382	1	2,473
GYORFFY_MITOXANTRONE_RESISTANCE	50	0.406227	1.3532	0.164729	0.429499	1	5,542
LIM_MAMMARY_LUMINAL_PROGENITOR_UP	52	0.355916	1.270654	0.165306	0.481963	1	6,606

REACTOME_SIGNALLING_BY_NGF	209	0.302203	1.26909	0.165644	0.478885	1	5,346
AKL_HTLV1_INFECTION_DN	66	0.406836	1.330127	0.166337	0.444973	1	1,919
SHIPP_DLBCL_CURED_VS_FATAL_DN	43	0.337133	1.251882	0.166337	0.48474	1	5,752
GAVIN_FOXP3_TARGETS_CLUSTER_T4	88	0.381825	1.339171	0.166341	0.435414	1	5,943
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_UP	32	0.420882	1.292034	0.166341	0.466121	1	5,064
REACTOME_SIGNALING_BY_FGFR_MUTANTS	41	0.372799	1.284866	0.166667	0.474723	1	2,538
NOUZOVA_METHYLATED_IN_APL	57	0.358507	1.272503	0.166667	0.481552	1	8,893
TSAI_RESPONSE_TO_IONIZING_RADIATION	147	0.321517	1.29215	0.167598	0.466507	1	6,736
TENEDINI_MEGAKARYOCYTE_MARKERS	65	0.341762	1.264582	0.167653	0.479603	1	1,885
FERRANDO_LYL1_NEIGHBORS	15	0.530946	1.367721	0.167702	0.41885	1	2,889
BOYALT_LIVER_CANCER_SUBCLASS_G5_DN	26	0.517973	1.388915	0.167925	0.408343	1	3,495
VILLANUEVA_LIVER_CANCER_KRT19_DN	59	0.375076	1.305338	0.167984	0.460862	1	5,233
VARELA_ZMPSTE24_TARGETS_DN	37	0.379979	1.282316	0.168	0.475105	1	6,048
MARTINEZ_RESPONSE_TO_TRABECTEDIN	49	0.484798	1.42513	0.168033	0.381453	1	8,234
VALK_AML_CLUSTER_7	25	0.370586	1.235227	0.168067	0.490554	1	4,828
REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_RECEPTOR	23	0.438559	1.309707	0.168297	0.459734	1	7,290
BIOCARTA_RAS_PATHWAY	23	0.442283	1.308848	0.168399	0.459409	1	8,385
VANLOO_SP3_TARGETS_DN	84	0.337609	1.277071	0.168627	0.479255	1	4,191
REACTOME_SIGNALING_BY_BMP	22	0.517579	1.36695	0.168724	0.418886	1	3,781
KEGG_STEROID_HORMONE_BIOSYNTHESIS	52	0.393421	1.278477	0.168986	0.479024	1	4,958
RAMALHO_STEMNESS_DN	70	0.447557	1.394337	0.169355	0.402306	1	4,543
PID_ERB_GENOMIC_PATHWAY	15	0.412783	1.254499	0.169661	0.484099	1	4,372
KEGG_RENAL_CELL_CARCINOMA	68	0.368619	1.296301	0.17004	0.466728	1	2,741
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP	177	0.370766	1.341589	0.170124	0.43494	1	6,693
CROONQUIST_NRAS_VS_STROMAL_STIMULATION_UP	39	0.401737	1.297459	0.170254	0.465851	1	4,483
KEGG_VIRAL_MYOCARDITIS	68	0.414975	1.324811	0.170297	0.448967	1	6,512
PID_FGF_PATHWAY	53	0.350036	1.267112	0.170782	0.47893	1	4,189
PID_ECADHERIN_STABILIZATION_PATHWAY	40	0.436522	1.366559	0.17126	0.418915	1	6,963
WANG_CISPLATIN_RESPONSE_AND_XPC_DN	220	0.307887	1.249064	0.17126	0.486421	1	7,842
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A12	282	0.283818	1.239026	0.171657	0.49043	1	5,881
MYLLYKANGAS_AMPLIFICATION_HOT_SPOT_23	18	0.503463	1.330371	0.171779	0.445194	1	7,670
REACTOME_PLATELET_SENSITIZATION_BY_LDL	16	0.453213	1.292513	0.172	0.467059	1	8,845
HOWLIN_CITED1_TARGETS_1_UP	32	0.421291	1.313629	0.172345	0.455665	1	8,090
BROWNE_HCMV_INFECTION_12HR_DN	96	0.340322	1.270037	0.172414	0.481316	1	7,479
CERVERA_SDHB_TARGETS_1_UP	111	0.3211	1.260378	0.172481	0.483773	1	3,988
WIELAND_UP_BY_HBV_INFECTION	98	0.526804	1.408443	0.172619	0.390899	1	6,512
MCCABE_BOUND_BY_HOXC6	381	0.23473	1.167127	0.172691	0.530857	1	7,903
BIOCARTA_DEATH_PATHWAY	33	0.394074	1.309184	0.172816	0.459445	1	6,757

REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	22	0.484598	1.356746	0.173116	0.426893	1	5,177
PID_S1P_S1P3_PATHWAY	29	0.480588	1.357667	0.173913	0.426427	1	6,321
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_UP	274	0.31485	1.276553	0.174538	0.478974	1	5,471
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES	30	0.438536	1.320388	0.17505	0.452004	1	7,830
REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTERGRINS_PID_AR_PATHWAY	15	0.486816	1.292889	0.175097	0.466962	1	2,838
HOWLIN_CITED1_TARGETS_2_UP	61	0.358412	1.280806	0.175097	0.476575	1	6,386
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_6	16	0.397651	1.226131	0.175373	0.496181	1	6,058
LEIN_ASTROCYTE_MARKERS	28	0.381738	1.266562	0.176238	0.479379	1	8,513
PID_CASPASE_PATHWAY	40	0.378311	1.262665	0.176471	0.481917	1	4,320
KEGG_LEISHMANIA_INFECTION	51	0.348213	1.256784	0.176707	0.485158	1	3,044
REACTOME_PHASE_II_CONJUGATION	70	0.478613	1.41227	0.177734	0.385338	1	7,123
ZHAN_MULTIPLE_MYELOMA_DN	65	0.373556	1.267582	0.179134	0.479267	1	7,130
SEITZ_NEOPLASTIC_TRANSFORMATION_BY_8P_DELETION_UP	41	0.448618	1.318285	0.179283	0.453951	1	6,107
FERRANDO_TAL1_NEIGHBORS	73	0.410318	1.308016	0.180039	0.459697	1	7,234
HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_UP	21	0.533859	1.346462	0.180422	0.433264	1	320
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_UP	35	0.347772	1.257939	0.180608	0.486	1	2,864
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP	33	0.409375	1.286348	0.180894	0.473171	1	5,738
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PI3KGAMMA	176	0.320648	1.268313	0.181287	0.47974	1	5,000
VANTVEER_BREAST_CANCER_METASTASIS_UP	25	0.445022	1.310045	0.18146	0.459821	1	7,290
BHAT_ESR1_TARGETS_VIA_AKT1_DN	54	0.325112	1.224844	0.181818	0.496785	1	5,226
BIOCARTA_MAPK_PATHWAY	78	0.351439	1.276058	0.182	0.479307	1	6,476
REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_Glutamate_BINDING_AND_POSTSYNAPTIC_EVENTS	86	0.328236	1.255541	0.182178	0.484507	1	5,530
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_DN	37	0.420498	1.306749	0.182195	0.460215	1	4,189
ZIRN_TRETINOIN_RESPONSE_WT1_UP	101	0.306257	1.224235	0.182731	0.496836	1	3,470
BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_UP	22	0.44355	1.284236	0.183099	0.475296	1	5,738
ONO_FOXP3_TARGETS_UP	376	0.280669	1.256414	0.184739	0.484631	1	6,690
CASORELLI_APL_SECONDARY_VS_DE_NOVO_UP	21	0.513331	1.313232	0.185185	0.455127	1	3,661
HORIUCHI_WTAP_TARGETS_UP	37	0.364367	1.254095	0.185629	0.483079	1	7,656
RIZKI_TUMOR_INVASIVENESS_3D_UP	287	0.341433	1.309338	0.185687	0.459799	1	6,726
SWEET_LUNG_CANCER_KRAS_DN	198	0.251863	1.173104	0.185771	0.527194	1	3,456
KEGG_ASTHMA	419	0.354246	1.323991	0.185824	0.448571	1	7,301
KAAB_FAILED_HEART_ATRIUM_UP	26	0.584185	1.387919	0.186047	0.408715	1	2,161
LINDGREN_BLADDER_CANCER_CLUSTER_1_UP	35	0.33186	1.203751	0.186441	0.509812	1	3,983
REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY_ACID_OXIDATION_IN_MUSCLE	107	0.345078	1.272269	0.1875	0.481342	1	5,438
	18	0.454724	1.317891	0.188	0.452758	1	5,579

LEE_LIVER_CANCER_SURVIVAL_UP	174	0.337036	1.270556	0.188259	0.48153	1	6,584
BIOCARTA_BCELLSURVIVAL_PATHWAY	16	0.45517	1.273802	0.189135	0.480428	1	3,856
KEGG_COLORECTAL_CANCER	62	0.341793	1.262492	0.189655	0.481636	1	5,643
WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_TBH	56	0.322279	1.238176	0.189691	0.490779	1	6,156
ENGELMANN_CANCER_PROGENITORS_DN	66	0.307779	1.208154	0.189796	0.507003	1	6,048
MOREIRA_RESPONSE_TO_TSA_DN	18	0.46307	1.30017	0.190385	0.465275	1	6,501
AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G	92	0.370232	1.278311	0.190763	0.478725	1	2,972
TOMLINS_METASTASIS_DN	19	0.453789	1.272917	0.190871	0.481446	1	8,231
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_9	71	0.360412	1.269425	0.191651	0.48003	1	5,986
ROSS_ACUTE_MYELOID_LEUKEMIA_CBF	80	0.344141	1.270033	0.191919	0.48072	1	5,405
REACTOME_ION_CHANNEL_TRANSPORT	52	0.394826	1.270551	0.19246	0.480931	1	8,135
CARDOSO_RESPONSE_TO_GAMMA_RADIATION_AND_3AB	17	0.376302	1.224711	0.192534	0.496518	1	2,086
REACTOME_NEF_MEDIATES_DOWN_MODULATION_OF_CELL_SURFACE_RECEPTORS_BY_RECRUITING_THEM_TO_CLATHRIN_ADAPTERS	21	0.44022	1.289594	0.192771	0.469568	1	6,851
SMITH_TERT_TARGETS_DN	87	0.323711	1.226811	0.193294	0.496019	1	5,611
WANG_TNF_TARGETS	21	0.455645	1.270848	0.193613	0.482815	1	631
LINDVALL_IMMORTALIZED_BY_TERT_UP	73	0.345138	1.239568	0.193613	0.490585	1	6,669
KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSIONS	25	0.471673	1.26797	0.194932	0.479173	1	4,187
LINDGREN_BLADDER_CANCER_CLUSTER_2B	378	0.45484	1.353722	0.195565	0.429211	1	6,287
SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_DN	32	0.35081	1.222435	0.195609	0.497967	1	3,986
GOZGIT_ESR1_TARGETS_UP	137	0.281511	1.195662	0.195833	0.515412	1	7,205
PID_NECTIN_PATHWAY	26	0.490119	1.318834	0.195918	0.453582	1	10,196
KEGG_DRUG_METABOLISM_OTHER_ENZYMES	49	0.412368	1.237256	0.196078	0.491314	1	3,547
BONOME_OVARIAN_CANCER_SURVIVAL_SUBOPTIMAL_DEBULKING	484	0.259228	1.206011	0.196203	0.507691	1	7,781
BOQUEST_STEM_CELL_DN	212	0.35148	1.288735	0.196356	0.469979	1	7,205
PARK_HSC_MARKERS	44	0.359535	1.253701	0.196356	0.483211	1	5,674
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP	74	0.52205	1.384493	0.196787	0.410261	1	7,315
REACTOME_CTNNB1_PHOSPHORYLATION_CASCADE	15	0.479723	1.296148	0.196787	0.465764	1	9,003
BIOCARTA_CARDIACEGF_PATHWAY	18	0.424526	1.248659	0.196911	0.486029	1	8,684
RAO_BOUND_BY_SALL4_ISOFORM_A	154	0.305044	1.205204	0.197095	0.508181	1	5,806
BIOCARTA_IL6_PATHWAY	22	0.448842	1.290448	0.197605	0.468566	1	3,477
STEIN_ESRRA_TARGETS_DN	97	0.298805	1.198268	0.197605	0.51296	1	6,726
DELYS_THYROID_CANCER_DN	225	0.37843	1.315523	0.197628	0.454016	1	7,807
RIZ_ERYTHROID_DIFFERENTIATION_12HR	42	0.372829	1.257612	0.198	0.48538	1	8,451
KONDO_PROSTATE_CANCER_WITH_H3K27ME3	144	0.343928	1.253688	0.198058	0.482663	1	5,354
VECCHI_GASTRIC_CANCER_EARLY_DN	337	0.409625	1.323611	0.198413	0.448611	1	6,321
REACTOME_GPCR_LIGAND_BINDING	349	0.298189	1.204373	0.198488	0.509182	1	6,019
BIOCARTA_IL1R_PATHWAY	32	0.370444	1.232083	0.198771	0.49406	1	6,757
BIOCARTA_CTCF_PATHWAY	23	0.503403	1.300288	0.199601	0.465686	1	4,025

SESTO_RESPONSE_TO_UV_C5	46	0.470141	1.340578	0.199605	0.434142	1	6,682
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_UP	60	0.435692	1.320618	0.2	0.452215	1	5,971
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLC_BETA	20	0.434699	1.267525	0.2	0.478783	1	7,529
PID_CXCR3_PATHWAY	43	0.366459	1.246517	0.200389	0.488126	1	6,321
ZHOU_INFLAMMATORY_RESPONSE_LIVE_DN	341	0.247441	1.175719	0.200401	0.525565	1	4,190
MARKS_HDAC_TARGETS_UP	23	0.398806	1.24319	0.201195	0.488559	1	2,473
REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS	27	0.429387	1.276824	0.201232	0.479054	1	5,921
HUANG_FOXA2_TARGETS_UP	43	0.370521	1.226184	0.20155	0.496631	1	6,139
REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE	49	0.354626	1.234004	0.201646	0.491678	1	7,888
REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	457	0.265578	1.190736	0.201681	0.518502	1	6,069
REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS	256	0.323835	1.225853	0.20198	0.496118	1	6,019
PID_PDGFRA_PATHWAY	22	0.469365	1.29797	0.202429	0.466119	1	8,684
BRACHAT_RESPONSE_TO_METHOTREXATE_UP	23	0.374291	1.20628	0.202729	0.507753	1	5,140
EPPERT_LSC_R	38	0.402247	1.296149	0.203704	0.466393	1	6,584
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D	253	0.241928	1.145815	0.204409	0.545581	1	6,406
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_WS	32	0.369372	1.238408	0.204453	0.490935	1	4,004
STAEGE_EWING_FAMILY_TUMOR	30	0.38172	1.236156	0.204724	0.492198	1	5,495
SERVITJA_LIVER_HNF1A_TARGETS_DN	150	0.304101	1.231681	0.205231	0.493107	1	6,963
KENNY_CTNNB1_TARGETS_DN	52	0.364519	1.254925	0.205761	0.484468	1	6,450
REACTOME_AMINE_LIGAND_BINDING_RECEPTORS	30	0.381555	1.223802	0.206061	0.497123	1	7,385
PID_ARF6_DOWNSTREAM_PATHWAY	15	0.453645	1.256173	0.206226	0.484515	1	5,530
REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON_LIKE_PEPTIDE1	41	0.391361	1.266239	0.206287	0.478245	1	7,397
BIOCARTA_CK1_PATHWAY	16	0.416522	1.22487	0.206349	0.497292	1	7,573
SA_MMP_CYTOKINE_CONNECTION	15	0.540393	1.281869	0.206681	0.475326	1	4,893
ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	44	0.385538	1.245616	0.207031	0.488058	1	8,280
VILIMAS_NOTCH1_TARGETS_DN	19	0.592515	1.315915	0.208	0.453945	1	8,494
HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP	174	0.308537	1.2182	0.208661	0.49866	1	4,419
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	70	0.297628	1.178722	0.209163	0.525912	1	3,438
KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY	41	0.383014	1.257603	0.209256	0.484803	1	9,364
EPPERT_HSC_R	111	0.324735	1.218946	0.209581	0.498385	1	3,977
REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	44	0.387471	1.246019	0.209677	0.488483	1	7,290
HASLINGER_B_CLL_WITH_11Q23_DELETION	22	0.425113	1.265544	0.209804	0.47895	1	5,994
KEGG_PATHWAYS_IN_CANCER	319	0.287239	1.218059	0.210216	0.49836	1	5,112
GAZDA_DIAMOND_BLACKFAN_ANEMIA_PROGENITOR_UP	39	0.379676	1.256471	0.210227	0.485115	1	7,656
MIKKELSEN_MEF_LCP_WITH_H3K4ME3	117	0.32644	1.230661	0.212679	0.493907	1	7,500
LEE_INTRATHYMIC_T_PROGENITOR	19	0.41435	1.216037	0.212891	0.50044	1	7,469
PID_CDC42_PATHWAY	69	0.372766	1.286178	0.213018	0.472856	1	6,390
KEGG_EPITHELIAL_CELL_SIGNALING_IN_	66	0.332327	1.20879	0.213147	0.506918	1	2,814

HELICOBACTER_PYLORI_INFECTION							
REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_RAS	27	0.395075	1.250765	0.213251	0.485664	1	4,189
FALVELLA_SMOKERS_WITH_LUNG_CANCER	77	0.342525	1.248071	0.213439	0.486509	1	6,238
BIOCARTA_INSULIN_PATHWAY	22	0.428645	1.240166	0.213573	0.491157	1	8,280
HOSHIDA_LIVER_CANCER_SUBCLASS_S1	235	0.378573	1.283399	0.213873	0.474385	1	6,079
MATSUDA_NATURAL_KILLER_DIFFERENTIATION	460	0.268504	1.183955	0.214149	0.521305	1	4,756
PID_TRAIL_PATHWAY	28	0.383179	1.235907	0.214429	0.491029	1	2,473
PID_S1P_META_PATHWAY	21	0.45027	1.269296	0.215415	0.479093	1	7,047
PID_ALK1_PATHWAY	25	0.42355	1.259761	0.216	0.484398	1	3,215
PEREZ_TP53_AND_TP63_TARGETS	192	0.26936	1.16645	0.216842	0.530094	1	5,248
OHM_METHYLATED_IN_ADULT_CANCERS	27	0.350777	1.194207	0.217054	0.515396	1	5,655
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	165	0.295674	1.218839	0.21748	0.498044	1	8,096
PID_ANTHRAX_PATHWAY	17	0.408918	1.217568	0.217647	0.498675	1	4,643
FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_DN	91	0.30772	1.209991	0.217899	0.50641	1	3,349
REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	36	0.387413	1.235248	0.21822	0.491075	1	8,096
MOOTHA_GLYCOGEN_METABOLISM	20	0.408767	1.230499	0.218254	0.493635	1	4,532
FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_DN	28	0.365566	1.221677	0.218437	0.497712	1	8,780
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	409	0.327825	1.252536	0.21875	0.484189	1	7,291
ZEMBUTSU_SENSITIVITY_TO_VINBLASTINE	18	0.451392	1.23181	0.21875	0.494001	1	4,146
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_UP	126	0.406445	1.30875	0.219844	0.458945	1	4,722
REACTOME_DARPP_32_EVENTS	23	0.423692	1.245339	0.219844	0.487987	1	7,573
GREGORY_SYNTHETIC_LETHAL_WITH_IMATINIB	139	0.286257	1.188062	0.220039	0.519145	1	7,998
REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	103	0.30061	1.192578	0.221328	0.516739	1	7,820
KARLSSON_TGFB1_TARGETS_DN	201	0.296215	1.220273	0.221532	0.498713	1	4,604
CERVERA_SDHB_TARGETS_2	106	0.335013	1.231714	0.222453	0.493607	1	6,671
BROWNE_HCMV_INFECTION_16HR_DN	84	0.322812	1.223347	0.222892	0.497408	1	8,287
TOMLINS_PROSTATE_CANCER_DN	40	0.505656	1.2771	0.223108	0.479818	1	6,194
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_UP	102	0.435902	1.303658	0.223553	0.462023	1	6,462
BIOCARTA_PITX2_PATHWAY	15	0.485213	1.2575	0.223577	0.484413	1	7,532
PID_MET_PATHWAY	80	0.353262	1.261966	0.223709	0.481451	1	4,189
REACTOME_GLUCURONIDATION	16	0.518863	1.233385	0.223762	0.492258	1	4,187
VERNOCHET_ADIPOGENESIS	19	0.414915	1.189636	0.225743	0.518918	1	5,905
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN	35	0.37241	1.200277	0.225941	0.511437	1	2,457
YANG_BREAST_CANCER_ESR1_LASER_UP	31	0.392976	1.24386	0.226378	0.48898	1	4,543
KEGG_HISTIDINE_METABOLISM	28	0.359291	1.188399	0.226563	0.519072	1	8,896
BHAT_ESR1_TARGETS_NOT_VIA_AKT1_DN	85	0.331416	1.19538	0.226891	0.51484	1	6,379
ST_WNT_CA2_CYCLIC_GMP_PATHWAY	19	0.380841	1.178394	0.227823	0.525445	1	4,149

BALDWIN_PRKCI_TARGETS_UP	32	0.419521	1.270717	0.227926	0.482442	1	7,148
KEGG_RENIN_ANGIOTENSIN_SYSTEM	17	0.458474	1.228624	0.228916	0.495508	1	6,682
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_DN	34	0.422045	1.236648	0.229209	0.491856	1	9,181
BOYLAN_MULTIPLE_MYELOMA_PCA1_UP	95	0.363381	1.240937	0.230469	0.490306	1	5,018
REACTOME_SMOOTH_MUSCLE_CONTRACTION	24	0.592059	1.274468	0.231518	0.480472	1	8,929
NAKAMURA_ADIPOGENESIS_LATE_UP	98	0.319612	1.210019	0.231537	0.506906	1	4,342
KEGG_LONG_TERM_DEPRESSION	69	0.31878	1.186627	0.232033	0.519172	1	7,904
MARKEY_RB1_ACUTE_LOF_DN	220	0.363495	1.257899	0.232794	0.485475	1	4,563
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	73	0.31057	1.182164	0.233463	0.523305	1	2,863
PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_FUSION	21	0.449429	1.243575	0.233533	0.488952	1	9,117
BROWNE_HCMV_INFECTION_14HR_DN	285	0.257799	1.159354	0.233871	0.536808	1	6,534
MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_DN	151	0.370846	1.269373	0.233918	0.479527	1	7,060
REACTOME_TRAF6_MEDIATED_INDUCATION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION	75	0.308194	1.172439	0.233918	0.527418	1	7,830
REACTOME_TRAF6_MEDIATED_NFKB_ACTIVATION	21	0.38994	1.214646	0.234165	0.501296	1	9,116
BOYALT_LIVER_CANCER_SUBCLASS_G6_DN	18	0.441585	1.24001	0.234343	0.49032	1	4,784
DAVICIONI_MOLECULAR_ARMS_VS_ERMS_UP	315	0.306674	1.222402	0.234694	0.496945	1	6,767
YAMASHITA_LIVER_CANCER_STEM_CELL_UP	47	0.310967	1.162442	0.234818	0.534295	1	3,986
BONOME_OVARIAN_CANCER_SURVIVAL_OPTIMAL_DEBULKING	227	0.261497	1.159265	0.235294	0.536477	1	6,241
HARRIS_BRAIN_CANCER_PROGENITORS	41	0.36283	1.185101	0.235756	0.520886	1	8,763
ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMIDE	16	0.431501	1.205903	0.236581	0.507369	1	4,002
PID_BMP_PATHWAY	42	0.387947	1.235717	0.2375	0.490799	1	8,315
ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_DN	48	0.339076	1.193081	0.238384	0.516353	1	8,771
REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	160	0.326055	1.200886	0.238748	0.511878	1	4,298
PID_BETA_CATENIN_NUC_PATHWAY	73	0.319723	1.177638	0.238776	0.52575	1	6,609
LI_CISPLATIN_RESISTANCE_UP	24	0.430254	1.222434	0.238835	0.497427	1	2,935
REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_MDA5_SIGNALING	31	0.405337	1.245127	0.239464	0.487792	1	10,066
OSMAN_BLADDER_CANCER_DN	360	0.307909	1.21376	0.239754	0.502334	1	5,920
KASLER_HDAC7_TARGETS_1_DN	17	0.422773	1.194144	0.239915	0.514973	1	2,749
PATTERSON_DOCETAXEL_RESISTANCE	29	0.325874	1.152012	0.240246	0.539991	1	3,067
HOLLMANN_APOPTOSIS_VIA_CD40_UP	190	0.305767	1.200335	0.24031	0.51186	1	4,286
VALK_AML_CLUSTER_11	36	0.392008	1.216289	0.241309	0.500505	1	6,669
ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP	174	0.274341	1.136638	0.241379	0.551886	1	4,129
BIOCARTA_CERAMIDE_PATHWAY	22	0.383383	1.194874	0.242	0.515176	1	6,736
BROWNE_HCMV_INFECTION_18HR_DN	169	0.284142	1.158827	0.242363	0.536271	1	6,156
TERAO_AOX4_TARGETS_SKIN_DN	23	0.452301	1.241386	0.242424	0.490062	1	8,554
BROWNE_HCMV_INFECTION_2HR_UP	38	0.403417	1.210119	0.243028	0.507258	1	5,812
WANG_MLL_TARGETS	279	0.278593	1.175007	0.243665	0.525846	1	6,734
REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR	122	0.340519	1.200475	0.24466	0.512126	1	2,038

WIERENGA_STAT5A_TARGETS_GROUP2	57	0.380813	1.21468	0.244742	0.501782	1	6,218
PLASARI_TGFB1_TARGETS_10HR_DN	237	0.343054	1.230959	0.244939	0.493915	1	6,844
PID_ERBB4_PATHWAY	38	0.390033	1.219757	0.245136	0.498533	1	2,892
BIOCARTA_EDG1_PATHWAY	27	0.398549	1.221534	0.245473	0.497439	1	5,738
KYNG_DNA_DAMAGE_BY_GAMMA_RADIATION	79	0.30811	1.149145	0.246	0.543187	1	7,029
ST_INTEGRIN_SIGNALING_PATHWAY	80	0.343132	1.200985	0.247012	0.512229	1	4,389
BOYVAULT_LIVER_CANCER_SUBCLASS_G1_DN	40	0.37347	1.199851	0.247485	0.511709	1	5,922
TERAMOTO_OPN_TARGETS_CLUSTER_6	26	0.392023	1.210797	0.247881	0.506586	1	6,741
REACTOME_AXON_GUIDANCE	240	0.311807	1.201504	0.248016	0.511763	1	7,606
KAYO_AGING_MUSCLE_UP	229	0.257578	1.137827	0.248521	0.550766	1	4,415
BIOCARTA_MCALPAIN_PATHWAY	24	0.408819	1.187026	0.248532	0.518896	1	4,536
BIOCARTA_PTEN_PATHWAY	18	0.470317	1.239139	0.249485	0.490781	1	8,280
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP	19	0.424243	1.207187	0.250493	0.507197	1	5,781
KANG_GIST_WITH_PDGFR_A_UP	48	0.431584	1.247244	0.25098	0.4874	1	6,260
POOLA_INVASIVE_BREAST_CANCER_UP	278	0.410813	1.264854	0.250988	0.479717	1	4,322
BILD_CTNNB1_ONCOGENIC_SIGNATURE	77	0.374008	1.241425	0.251497	0.490557	1	6,627
MAHAJAN_RESPONSE_TO_IL1A_UP	79	0.326425	1.191297	0.251497	0.518033	1	6,322
CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_DN	355	0.291672	1.191896	0.251521	0.517394	1	6,413
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_UP	172	0.333651	1.227022	0.252	0.496213	1	7,733
ANDERSEN_LIVER_CANCER_KRT19_DN	74	0.373779	1.215521	0.252016	0.500824	1	3,463
CHANGOLKAR_H2AFY_TARGETS_DN	38	0.342746	1.176711	0.253061	0.526963	1	5,812
LU_AGING_BRAIN_DN	149	0.321964	1.188895	0.25355	0.519246	1	7,606
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	19	0.416614	1.223283	0.253876	0.496965	1	6,628
KOYAMA_SEMA3B_TARGETS_UP	261	0.237914	1.116897	0.253937	0.56004	1	6,286
WUNDER_INFLAMMATORY_RESPONSE_AND_CHOLESTEROL_UP	56	0.390475	1.208753	0.254032	0.506462	1	5,540
BROWNE_INTERFERON_RESPONSIVE_GENES	66	0.500062	1.318007	0.254335	0.453177	1	7,026
PID_SYNDECAN_3_PATHWAY	16	0.414541	1.19925	0.254335	0.512271	1	4,038
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_DN	17	0.443851	1.203026	0.254864	0.510621	1	6,138
OSMAN_BLADDER_CANCER_UP	388	0.361805	1.26452	0.25498	0.47912	1	6,079
PID_HEDGEHOG_2PATHWAY	21	0.400269	1.209916	0.25498	0.506005	1	8,280
HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_UP	69	0.348687	1.207856	0.255814	0.5065	1	7,463
ZEMBUTSU_SENSITIVITY_TO_MITOMYCIN	18	0.384749	1.143163	0.255952	0.546278	1	3,872
ZHU_CMV_8_HR_DN	52	0.351951	1.206282	0.256619	0.50828	1	6,048
LENAOUR_DENDRITIC_CELL_MATURATION_DN	127	0.338496	1.195422	0.256863	0.515296	1	7,871
MCBRYAN_PUBERTAL_BREAST_5_6WK_UP	112	0.314813	1.185706	0.256863	0.520318	1	6,407
LIU_PROSTATE_CANCER_DN	458	0.344477	1.227411	0.257485	0.496589	1	7,463
STARK_HYPPOCAMPUS_22Q11_DELETION_UP	50	0.361838	1.197505	0.257928	0.51323	1	7,731
HOQUE_METHYLATED_IN_CANCER	54	0.313376	1.156767	0.25813	0.536534	1	8,556
MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_UP	249	0.256561	1.138414	0.258517	0.550719	1	7,948

BROWN_MYELOID_CELL_DEVELOPMENT_UP	152	0.35526	1.209401	0.258687	0.506393	1	7,656
PID_NEPHRIN_NEPH1_PATHWAY	31	0.336881	1.161355	0.259109	0.534695	1	8,684
RICKMAN_HEAD_AND_NECK_CANCER_A	96	0.299985	1.138803	0.259117	0.55102	1	4,841
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES	183	0.287137	1.157959	0.26	0.536333	1	7,944
REACTOME_PLATELET_HOMEOSTASIS	76	0.337698	1.188932	0.260355	0.519702	1	7,573
DUAN_PRDM5_TARGETS	76	0.284926	1.15692	0.260437	0.536738	1	5,833
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	119	0.274833	1.143488	0.260692	0.546196	1	7,988
KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION	56	0.334829	1.165398	0.260788	0.530959	1	6,390
SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_UP	64	0.286383	1.144743	0.26087	0.544911	1	8,753
SANA_RESPONSE_TO_IFNG_UP	75	0.45896	1.26986	0.261386	0.479853	1	7,026
HOFFMANN_PRE_BI_TO_LARGE_PRE_BII_LYMPHOCYTE_DN	70	0.300931	1.161003	0.261628	0.534807	1	4,790
FRASOR_RESPONSE_TO ESTRADIOL_DN	78	0.290944	1.147597	0.261663	0.544954	1	6,385
MILI_PSEUDOPODIA	41	0.370414	1.190167	0.262195	0.519007	1	6,813
VALK_AML_CLUSTER_8	23	0.373776	1.17547	0.262397	0.525495	1	5,474
PID_ERBB2_ERBB3_PATHWAY	44	0.35669	1.196201	0.263265	0.514985	1	2,387
HOSHIDA_LIVER_CANCER_SUBCLASS_S3	260	0.297124	1.15718	0.263374	0.536767	1	6,731
WENG_POR_TARGETS_GLOBAL_DN	23	0.395792	1.178684	0.263804	0.525448	1	2,274
YANG_MUC2_TARGETS_DUODENUM_6MO_DN	19	0.433729	1.201587	0.264	0.512135	1	4,347
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_DN	127	0.428116	1.243379	0.264529	0.488778	1	4,604
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_UP	324	0.297506	1.187256	0.26465	0.520054	1	4,652
REACTOME_INHIBITION_OF_INSULIN_SECRETION_ BY_ADRENALINE_NORADRENALINE	25	0.383898	1.180033	0.265469	0.524519	1	7,290
VALK_AML_CLUSTER_3	29	0.374615	1.176479	0.267748	0.526829	1	9,110
GOLUB_ALL_VS_AML_DN	23	0.414664	1.181809	0.268199	0.523411	1	6,012
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_DN	86	0.317132	1.135269	0.268537	0.552343	1	5,036
KYNG_DNA_DAMAGE_BY_UV	61	0.283272	1.122751	0.268627	0.555832	1	7,652
BROWNE_HCMV_INFECTION_6HR_UP	66	0.305263	1.141703	0.269231	0.547807	1	6,141
MILI_PSEUDOPODIA_CHEMOTAXIS_UP	69	0.33779	1.175751	0.269388	0.526029	1	6,813
MITSIADES_RESPONSE_TO_APLIDIN_UP	412	0.26713	1.129883	0.270321	0.550539	1	7,026
PID_SYNDECAN_2_PATHWAY	31	0.409383	1.220079	0.270428	0.498556	1	5,313
REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	171	0.324338	1.16711	0.270428	0.530379	1	6,374
PID_AR_TF_PATHWAY	52	0.346016	1.173188	0.270492	0.52756	1	6,468
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3	18	0.416401	1.17973	0.270876	0.52458	1	3,775
ASTON_MAJOR_DEPRESSIVE_DISORDER_UP	45	0.335477	1.153949	0.270955	0.538504	1	6,907
CHEN_PDGF_TARGETS	18	0.456224	1.198235	0.271457	0.512479	1	5,922
PID_EPHA2_FWD_PATHWAY	19	0.408306	1.199193	0.271825	0.511848	1	7,016
GAUSSMANN_MLL_AF4_FUSION_TARGETS_B_UP	25	0.399746	1.184976	0.273603	0.520557	1	4,086
REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_ ANIONS_AND_AMINO_ACIDS_OLIGOPEPTIDES	91	0.278461	1.110601	0.274	0.566277	1	4,020

KIM_MYCN_AMPLIFICATION_TARGETS_DN	96	0.2914	1.140731	0.274354	0.549082	1	7,295
BIOCARTA_NGF_PATHWAY	18	0.425888	1.187202	0.27459	0.519101	1	8,684
DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN	80	0.410586	1.230204	0.27572	0.493605	1	8,421
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_DN	42	0.500702	1.227423	0.277328	0.497115	1	8,797
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP	31	0.516379	1.248733	0.277551	0.486477	1	8,761
REN_ALVEOLAR_RHABDOMYOSARCOMA_UP	93	0.30238	1.138423	0.277778	0.551194	1	5,871
MCBRYAN_PUBERTAL_BREAST_3_4WK_DN	34	0.335747	1.125703	0.277992	0.553119	1	3,287
REACTOME_SIGNALING_BY_NODAL	17	0.389795	1.180845	0.278132	0.523595	1	3,808
REACTOME_SIGNALING_BY_ROBO_RECEPTOR	28	0.387415	1.188883	0.27821	0.518744	1	5,530
DURAND_STROMA_S_UP	281	0.301351	1.167455	0.278752	0.531304	1	6,832
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN	131	0.356812	1.202336	0.278978	0.511354	1	6,518
COLDREN_GEFITINIB_RESISTANCE_DN	214	0.393666	1.237547	0.279592	0.491359	1	6,361
PID_PS1_PATHWAY	46	0.328141	1.156388	0.279919	0.536691	1	7,567
FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_UP	21	0.444708	1.207946	0.28	0.506852	1	4,360
FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP	20	0.397642	1.150159	0.28	0.542334	1	7,600
REACTOME_SIGNALING_BY_EGFR_IN_CANCER	104	0.288618	1.146636	0.280242	0.545176	1	7,608
RASHI_RESPONSE_TO_IONIZING_RADIATION_4	57	0.331499	1.168584	0.280943	0.530865	1	5,471
NEMETH_INFLAMMATORY_RESPONSE_LPS_DN	31	0.369284	1.173521	0.281437	0.527472	1	2,161
REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL	134	0.287839	1.13924	0.281746	0.550722	1	7,944
VANTVEER_BREAST_CANCER_BRCA1_UP	32	0.377793	1.171804	0.282101	0.527029	1	2,145
ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_UP	237	0.302607	1.1682	0.282101	0.531029	1	7,267
BROWNE_HCMV_INFECTION_8HR_UP	100	0.298678	1.140462	0.282443	0.549041	1	7,291
GENTILE_UV_RESPONSE_CLUSTER_D2	40	0.3852	1.190149	0.282692	0.518508	1	7,429
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	67	0.294032	1.127524	0.282744	0.55081	1	6,757
VALK_AML_CLUSTER_2	27	0.325503	1.134918	0.282787	0.5525	1	3,274
OKAMOTO_LIVER_CANCER_MULTICENTRIC_OCCURRENCE_UP	25	0.396459	1.162037	0.282946	0.534527	1	8,015
PID_REELIN_PATHWAY	29	0.362592	1.163881	0.283757	0.533272	1	5,096
POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_DN	59	0.385827	1.194433	0.28381	0.515509	1	5,079
KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTION	42	0.34845	1.181556	0.284211	0.523312	1	5,450
BIOCARTA_PML_PATHWAY	17	0.403799	1.149843	0.284274	0.542367	1	7,532
NEWMAN_ERCC6_TARGETS_DN	36	0.392702	1.181483	0.284569	0.522931	1	6,553
HOLLERN_SOLID_NODULAR_BREAST_TUMOR_DN	30	0.424666	1.183798	0.284585	0.521037	1	3,438
REACTOME_TRANSCRIPTIONAL_ACTIVITY_OF_SMAD2_SMAD3_SMAD4_HETEROTRIMER	37	0.324579	1.132158	0.284585	0.550468	1	6,137
PID_RHOA_REG_PATHWAY	45	0.319379	1.137358	0.284836	0.551077	1	7,036
LE_NEURONAL_DIFFERENTIATION_UP	17	0.441606	1.176132	0.284872	0.525885	1	3,556
OLSSON_E2F3_TARGETS_UP	27	0.370862	1.16142	0.285141	0.535093	1	3,044
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_SCP2_QTL_TRANS	21	0.356019	1.135342	0.285433	0.552725	1	342

DACOSTA_UV_RESPONSE_VIA_ERCC3_COMMON_DN	469	0.399133	1.274367	0.285714	0.48003	1	7,651
BIOCARTA_IGF1R_PATHWAY	22	0.378608	1.154641	0.287149	0.538753	1	2,209
BIOCARTA_TID_PATHWAY	19	0.405517	1.165653	0.288201	0.530989	1	3,188
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_UP	113	0.304502	1.162484	0.288306	0.534706	1	5,121
MULLIGHAN_NPM1_SIGNATURE_3_DN	156	0.254672	1.10135	0.288306	0.570213	1	6,096
MADAN_DPPA4_TARGETS	42	0.309422	1.107836	0.289017	0.566259	1	5,952
EINAV_INTERFERON_SIGNATURE_IN_CANCER	26	0.524363	1.254257	0.289272	0.483373	1	7,026
STEGER_ADIPOGENESIS_UP	21	0.421473	1.176264	0.290258	0.526185	1	4,342
LI_ADIPOGENESIS_BY_ACTIVATED_PPARG	17	0.410839	1.15916	0.291339	0.536153	1	5,433
SHIPP_DLBCL_CURED_VS_FATAL_UP	39	0.333174	1.138097	0.292157	0.55075	1	2,976
MCBRYAN_PUBERTAL_BREAST_5_6WK_DN	132	0.304802	1.166718	0.292531	0.530106	1	5,869
IKEDA_MIR30_TARGETS_UP	112	0.421091	1.240046	0.292585	0.49083	1	8,879
GAURNIER_PSMD4_TARGETS	70	0.451678	1.234854	0.292969	0.490686	1	6,736
PID_NFKAPPAB_CANONICAL_PATHWAY	23	0.40771	1.166756	0.293307	0.530538	1	8,242
VISALA_AGING_LYMPHOCYTE_DN	19	0.376348	1.132501	0.293561	0.551302	1	3,300
PID_FOXO_PATHWAY	49	0.367375	1.171917	0.293763	0.527332	1	8,571
LEI_HOXC8_TARGETS_DN	17	0.417182	1.133763	0.293785	0.552052	1	9,140
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_DN	415	0.222784	1.081143	0.294118	0.584353	1	7,222
VALK_AML_CLUSTER_5	33	0.512744	1.258194	0.294235	0.486706	1	7,821
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	410	0.308478	1.160437	0.294922	0.535338	1	7,429
PID_ERA_GENOMIC_PATHWAY	62	0.264297	1.092768	0.296371	0.57538	1	2,946
INGRAM_SHH_TARGETS_UP	119	0.306516	1.154615	0.296443	0.538294	1	6,001
PENG_LEUCINE_DEPRIVATION_UP	137	0.278972	1.132957	0.296512	0.552986	1	6,011
DAZARD_RESPONSE_TO_UV_NHEK_DN	302	0.363343	1.212872	0.296748	0.503371	1	6,911
KEGG_ABC_TRANSPORTERS	44	0.310545	1.116292	0.298387	0.560156	1	8,133
HOWLIN_CITED1_TARGETS_1_DN	35	0.4045	1.168183	0.298755	0.530543	1	6,276
ST_ERK1_ERK2_MAPK_PATHWAY	31	0.379809	1.163507	0.298969	0.533409	1	2,951
GYORFFY_DOXORUBICIN_RESISTANCE	51	0.317013	1.121104	0.299799	0.557871	1	7,151
SHEN_SMARCA2_TARGETS_UP	412	0.38979	1.218985	0.299803	0.499381	1	8,425
YAN_ESCAPE_FROM_ANOIKIS	24	0.471217	1.241702	0.3	0.490699	1	5,451
LIU_SOX4_TARGETS_UP	128	0.315236	1.153862	0.300614	0.538171	1	7,641
LEE_AGING_CEREBELLUM_UP	84	0.311188	1.133822	0.30123	0.552449	1	6,565
LINDGREN_BLADDER_CANCER_WITH_LOH_IN_CHR9Q	106	0.411393	1.229566	0.301811	0.494239	1	6,887
CHANG_POU5F1_TARGETS_UP	15	0.446717	1.171396	0.301811	0.526739	1	5,860
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_UP	113	0.303459	1.132828	0.302372	0.552726	1	6,616
DOUGLAS_BMI1_TARGETS_DN	302	0.274279	1.123992	0.302372	0.555121	1	7,129
NAKAJIMA_MAST_CELL	46	0.351774	1.154128	0.302419	0.538712	1	6,099
RAO_BOUND_BY_SALL4_ISOFORM_B	480	0.259328	1.13048	0.302734	0.550412	1	6,476
DER_IFN_ALPHA_RESPONSE_UP	74	0.400364	1.21898	0.303502	0.498858	1	7,026

KINSEY_TARGETS_OF_EWSR1_FLI1_FUSION_DN	310	0.284487	1.135636	0.303823	0.553178	1	5,819
BIOCARTA_TFF_PATHWAY	21	0.392364	1.153825	0.304951	0.53774	1	6,963
BOYLAN_MULTIPLE_MYELOMA_C_CLUSTER_DN	30	0.334529	1.109536	0.305085	0.565703	1	4,458
VETTER_TARGETS_OF_PRKCA_AND_ETS1_DN	16	0.434882	1.132229	0.305118	0.551326	1	6,906
REACTOME_ARMS_MEDIATED_ACTIVATION	17	0.423145	1.152897	0.305221	0.538912	1	4,620
GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_DN	469	0.214285	1.072001	0.305284	0.590587	1	5,674
CHEOK_RESPONSE_TO_MERCAPTOPURINE_DN	22	0.38533	1.143886	0.306202	0.545912	1	4,567
ENGELMANN_CANCER_PROGENITORS_UP	46	0.314744	1.119928	0.306202	0.559097	1	7,212
WOO_LIVER_CANCER_RECURRENCE_DN	78	0.348943	1.144859	0.307071	0.545213	1	6,800
REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT	33	0.35607	1.147296	0.307385	0.545027	1	8,045
MCLACHLAN_DENTAL_CARIES_UP	246	0.404906	1.227316	0.307544	0.496221	1	5,310
REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CREB	16	0.440256	1.158487	0.308617	0.535903	1	7,888
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE	25	0.425669	1.154925	0.310204	0.538774	1	7,539
KRASNOSELSKAYA_ILF3_TARGETS_UP	38	0.436535	1.174875	0.310212	0.525568	1	7,162
REACTOME_CELL_CELL_COMMUNICATION	109	0.280677	1.088957	0.310413	0.576488	1	6,386
BROWNE_HCMV_INFECTION_20HR_DN	97	0.319005	1.14669	0.310484	0.54557	1	6,156
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP	148	0.302435	1.128862	0.310484	0.550364	1	8,378
CHOI_ATL_CHRONIC_VS_ACUTE_DN	18	0.45998	1.170473	0.310547	0.527964	1	4,940
REACTOME_NUCLEAR_SIGNALING_BY_ERBB4	35	0.349707	1.12957	0.31068	0.550103	1	6,979
HEDENFALK_BREAST_CANCER_BRACX_DN	19	0.348368	1.110448	0.310757	0.566047	1	4,428
REACTOME_NEPHRIN_INTERACTIONS	19	0.407478	1.146122	0.310976	0.545548	1	6,308
GOTTWEIN_TARGETS_OF_KSHV_MIR_K12_11	62	0.323997	1.133961	0.311024	0.552712	1	8,552
FAELT_B_CLL_WITH_VH3_21_DN	49	0.337319	1.118341	0.311538	0.55997	1	6,616
WENDT_COHESIN_TARGETS_UP	32	0.419529	1.184059	0.311765	0.521632	1	9,275
RIZKI_TUMOR_INVASIVENESS_2D_UP	65	0.292253	1.107142	0.311983	0.566999	1	4,372
MIKKELSEN_ES_ICP_WITH_H3K27ME3	36	0.339501	1.100593	0.312373	0.569266	1	5,805
KONDO_PROSTATE_CANCER_HCP_WITH_H3K27ME3	87	0.29028	1.109639	0.313253	0.566015	1	6,492
ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_DN	19	0.387876	1.128696	0.313373	0.549684	1	4,025
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP	152	0.310228	1.14301	0.314342	0.54602	1	5,050
FOSTER_TOLERANT_MACROPHAGE_UP	143	0.27139	1.101046	0.314342	0.569835	1	6,965
GROSS_ELK3_TARGETS_UP	27	0.380343	1.128846	0.314779	0.549913	1	6,669
PID_HDAC_CLASSI_PATHWAY	65	0.276697	1.101032	0.315152	0.56938	1	8,751
BIOCARTA_SPRY_PATHWAY	18	0.398395	1.145331	0.315686	0.544903	1	6,963
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION	71	0.276408	1.093159	0.31619	0.575192	1	7,532
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A	21	0.393175	1.1267	0.316206	0.551784	1	6,104
BOYALT_LIVER_CANCER_SUBCLASS_G3_DN	49	0.353926	1.158696	0.316222	0.536001	1	6,518
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_DN	68	0.272992	1.100559	0.316532	0.568859	1	8,032
PID_LPA4_PATHWAY	15	0.476556	1.16733	0.316973	0.531003	1	7,888

CHANGOLKAR_H2AFY_TARGETS_UP	47	0.293594	1.104152	0.317269	0.568596	1	8,135
SCHAEFFER_PROSTATE_DEVELOPMENT_AND_CANCER_BOX4_DN	32	0.425318	1.176434	0.317526	0.5264	1	4,181
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH	63	0.323477	1.132223	0.317739	0.550842	1	3,179
SCHURINGA_STAT5A_TARGETS_UP	19	0.343235	1.094123	0.317814	0.574492	1	3,532
GRANDVAUX_IRF3_TARGETS_UP	15	0.522665	1.172317	0.318702	0.527148	1	3,600
ST_GA13_PATHWAY	37	0.304301	1.087802	0.31893	0.577512	1	5,921
REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNALING	21	0.399218	1.148231	0.319018	0.544343	1	1,838
NAGASHIMA_NRG1_SIGNALING_DN	54	0.305715	1.102331	0.319231	0.569428	1	7,481
PEREZ_TP63_TARGETS	325	0.239715	1.075063	0.319415	0.589403	1	5,299
BAELDE_DIABETIC_NEPHROPATHY_DN	422	0.302544	1.132691	0.319444	0.55246	1	7,026
DE_YY1_TARGETS_UP	18	0.359142	1.108883	0.319608	0.566386	1	6,673
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_DN	26	0.433091	1.157736	0.319756	0.536248	1	4,347
NICK_RESPONSE_TO_PROC_TREATMENT_DN	24	0.384537	1.130745	0.320988	0.550927	1	8,079
ZHANG_GATA6_TARGETS_DN	61	0.27682	1.075318	0.321138	0.589442	1	7,868
SASSON_RESPONSE_TO_FORSKOLIN_DN	87	0.342909	1.123117	0.321154	0.556172	1	7,115
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM4	247	0.248843	1.07822	0.321285	0.58619	1	6,928
REACTOME_SIGNALING_BY_ERBB2	96	0.277569	1.099892	0.321357	0.568656	1	7,503
BROWNE_HCMV_INFECTION_30MIN_UP	47	0.292439	1.091948	0.321839	0.575483	1	5,655
KEGG_THYROID_CANCER	29	0.347166	1.117823	0.322314	0.55992	1	6,386
LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_DN	45	0.28644	1.081608	0.322515	0.584019	1	6,477
WHITEHURST_PACLITAXEL_SENSITIVITY	36	0.319976	1.104437	0.322835	0.568555	1	1,957
ZHAN_MULTIPLE_MYELOMA_MS_DN	38	0.326166	1.113227	0.322957	0.56262	1	4,590
NIELSEN_LEIOMYOSARCOMA_CNN1_DN	20	0.41871	1.132515	0.323529	0.551761	1	6,910
OHGUCHI_LIVER_HNF4A_TARGETS_DN	141	0.291199	1.100323	0.323651	0.568833	1	6,963
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	89	0.288595	1.100249	0.323651	0.56848	1	7,503
OHGUCHI_LIVER_HNF4A_TARGETS_UP	44	0.320835	1.090883	0.323887	0.575926	1	6,195
ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP	461	0.238472	1.075585	0.324	0.589449	1	6,404
HEIDENBLAD_AMPLICON_12P11_12_UP	32	0.348775	1.114527	0.325	0.562798	1	5,718
REACTOME_APOPTOTIC_EXECUTION_PHASE	50	0.342241	1.130097	0.325052	0.550634	1	4,762
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN	127	0.36092	1.130843	0.325095	0.551253	1	7,291
BIOCARTA_IGF1_PATHWAY	21	0.401785	1.131776	0.326087	0.55058	1	8,280
UDAYAKUMAR_MED1_TARGETS_DN	226	0.256975	1.103132	0.326733	0.569014	1	4,145
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN	171	0.309896	1.113845	0.327345	0.563015	1	6,858
BIOCARTA_BARRESTIN_SRC_PATHWAY	15	0.389021	1.120795	0.328215	0.557951	1	4,535
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_DN	64	0.384195	1.135371	0.328657	0.55317	1	6,763
BRUNO_HEMATOPOIESIS	63	0.300552	1.094315	0.328657	0.574587	1	2,816
SEIDEN_MET_SIGNALING	18	0.436982	1.129785	0.328794	0.550228	1	7,650
CHEN_HOXA5_TARGETS_9HR_UP	209	0.315847	1.134714	0.329365	0.552389	1	7,567

CAIRO_HEPATOBLASTOMA_DN	255	0.250039	1.080978	0.33004	0.584156	1	5,372
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_DN	47	0.31073	1.098136	0.331349	0.570875	1	5,748
DIRMEIER_LMP1_RESPONSE_LATE_UP	55	0.337023	1.122751	0.331373	0.556311	1	3,190
VERHAAK_GLIOBLASTOMA_MESENCHYMAL	212	0.350206	1.145742	0.331395	0.545195	1	5,859
PID_P38_MKK3_6PATHWAY	26	0.32182	1.101317	0.33195	0.569804	1	5,780
REACTOME_ADP_SIGNALLING_THROUGH_P2RY12	21	0.396446	1.116936	0.332681	0.560462	1	7,290
RICKMAN_HEAD_AND_NECK_CANCER_F	52	0.377358	1.107961	0.333333	0.567006	1	7,694
HOWLIN_PUBERTAL_MAMMARY_GLAND	65	0.329828	1.100784	0.333992	0.569377	1	4,457
KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION	67	0.412253	1.178179	0.333996	0.525287	1	6,512
PID_TRKR_PATHWAY	61	0.299062	1.103027	0.334	0.568724	1	5,530
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	41	0.364004	1.119046	0.334008	0.559722	1	3,838
LEE_TARGETS_OF_PTCH1_AND_SUFU_DN	82	0.29701	1.069836	0.334008	0.590741	1	7,479
GAUSSMANN_MLL_AF4_FUSION_TARGETS_C_UP	165	0.249166	1.078853	0.334016	0.58556	1	5,242
BIOCARTA_ACTINY_PATHWAY	20	0.423361	1.130929	0.334623	0.551579	1	6,390
PID_API1_PATHWAY	69	0.321911	1.11443	0.33463	0.562467	1	6,616
PID_INTEGRIN2_PATHWAY	28	0.410909	1.134069	0.336	0.553007	1	2,921
REACTOME_PROTEOLYTIC_CLEAVAGE_OF_SNARE_COMPLEX_PROTEINS	16	0.373384	1.096814	0.336538	0.571792	1	1,964
PID_GLYPICAN_1PATHWAY	27	0.387527	1.113688	0.336714	0.562348	1	6,087
ABBUD_LIF_SIGNALING_1_DN	26	0.37231	1.113788	0.336735	0.562632	1	9,100
REACTOME_L1CAM_INTERACTIONS	83	0.31291	1.084237	0.336777	0.581565	1	3,799
OZANNE_API1_TARGETS_UP	15	0.392972	1.089136	0.337864	0.576641	1	8,763
KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_DN	214	0.24792	1.079317	0.337864	0.585221	1	6,266
REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS	19	0.390764	1.092326	0.338	0.575282	1	4,620
ZHAN_EARLY_DIFFERENTIATION_GENES_DN	42	0.369347	1.128348	0.339181	0.549797	1	4,029
BROWNE_HCMV_INFECTION_16HR_UP	217	0.290884	1.105539	0.33996	0.568979	1	7,443
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP	198	0.399642	1.171415	0.340081	0.527205	1	9,353
LEE_LIVER_CANCER	46	0.348987	1.117299	0.340681	0.56033	1	4,284
ASTIER_INTEGRIN_SIGNALING	55	0.284081	1.086103	0.340771	0.580076	1	7,567
SANA_TNF_SIGNALING_DN	89	0.30849	1.106854	0.341463	0.567074	1	6,523
GILDEA_METASTASIS	28	0.400622	1.110297	0.342256	0.565836	1	5,516
PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP	124	0.316508	1.118132	0.342685	0.559864	1	6,042
HOELZEL_NF1_TARGETS_UP	130	0.317844	1.104951	0.342799	0.569044	1	4,981
MIKKELSEN_MEF_LCP_WITH_H3K27ME3	58	0.28458	1.071091	0.342912	0.590853	1	9,235
CROMER_TUMORIGENESIS_DN	50	0.314239	1.074021	0.342967	0.590292	1	6,399
DEMAGALHAES_AGING_UP	53	0.336076	1.085702	0.344	0.580347	1	6,175
DURCHDEWALD_SKIN_CARCINOGENESIS_DN	255	0.290375	1.089832	0.34433	0.576376	1	7,598
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP	23	0.41638	1.130647	0.344423	0.550608	1	5,829
BOYALT_LIVER_CANCER_SUBCLASS_G56_DN	17	0.400848	1.103433	0.346311	0.568951	1	5,280

OSADA_ASCL1_TARGETS_DN	23	0.393068	1.098545	0.346979	0.570663	1	2,924
KEEN_RESPONSE_TO_ROSIGLITAZONE_DN	103	0.309913	1.101914	0.347573	0.569674	1	7,693
REACTOME_NRF1_SIGNALS_CELL_DEATH_FROM_THE_NUCLEUS	15	0.403037	1.092619	0.347573	0.575207	1	5,248
ZHAN_MULTIPLE_MYELOMA_UP	61	0.282706	1.088008	0.348077	0.577634	1	4,324
MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLK_UP	41	0.293521	1.073852	0.348178	0.590124	1	6,736
IKEDA_MIR133_TARGETS_UP	43	0.409479	1.145504	0.348425	0.545114	1	9,271
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	21	0.383026	1.103939	0.348454	0.568505	1	3,192
MEINHOLD_OVARIAN_CANCER_LOW_GRADE_UP	18	0.388315	1.082573	0.34879	0.583637	1	3,858
MIKKELSEN_MCV6_ICP_WITH_H3K4ME3_AND_H3K27ME3	32	0.347912	1.083288	0.349057	0.582779	1	8,441
HEIDENBLAD_AMPLICON_12P11_12_DN	23	0.344105	1.094936	0.349301	0.574524	1	4,893
KIM_ALL_DISORDERS_CALB1_CORR_DN	32	0.303324	1.068572	0.349897	0.591127	1	7,631
HELLER_SILENCED_BY_METHYLATION_UP	271	0.28804	1.094561	0.350195	0.574667	1	4,561
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR	34	0.310887	1.079695	0.350283	0.585016	1	4,243
SHIN_B_CELL_LYMPHOMA_CLUSTER_8	36	0.36088	1.110069	0.350495	0.565731	1	2,331
STREICHER_LSM1_TARGETS_UP	43	0.322607	1.081618	0.35102	0.584464	1	7,892
PID_LYMPH_ANGIOGENESIS_PATHWAY	24	0.470376	1.173062	0.351297	0.526756	1	3,676
KEGG_ENDOMETRIAL_CANCER	52	0.319341	1.097388	0.352342	0.571734	1	4,656
REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS	27	0.332417	1.091851	0.352342	0.574741	1	1,239
HASLINGER_B_CLL_WITH_MUTATED_VH_GENES	17	0.430016	1.129209	0.352459	0.550254	1	6,806
KIM_MYCN_AMPLIFICATION_TARGETS_UP	89	0.268114	1.064924	0.352818	0.594811	1	7,194
PID_INTEGRIN_CS_PATHWAY	26	0.407297	1.108873	0.353282	0.565921	1	1,837
REACTOME_SIGNAL_TRANSDUCTION_BY_L1	34	0.348772	1.09033	0.353306	0.576472	1	3,799
MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3	324	0.252589	1.060081	0.35518	0.598302	1	5,332
CHANDRAN_METASTASIS_DN	288	0.255505	1.067699	0.355769	0.591732	1	7,956
REACTOME_INTERFERON_ALPHA_BETA_SIGNALING	51	0.428736	1.152011	0.355865	0.539494	1	7,026
HOLLERN_ADENOMYOEPITHELIAL_BREAST_TUMOR	17	0.455536	1.118788	0.355865	0.559684	1	6,518
PECE_MAMMARY_STEM_CELL_DN	132	0.318422	1.105037	0.356557	0.569352	1	6,194
NIELSEN_LEIOMYOSARCOMA_CNN1_UP	18	0.641989	1.132593	0.35743	0.552127	1	10,410
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP	392	0.28653	1.071452	0.357708	0.590707	1	6,414
HOLLMANN_APOPTOSIS_VIA_CD40_DN	246	0.258377	1.067787	0.358238	0.592038	1	6,936
YANG_BREAST_CANCER_ESR1_UP	34	0.320364	1.089841	0.358452	0.576827	1	6,130
WENG_POR_TARGETS_LIVER_DN	19	0.387219	1.080603	0.358566	0.583898	1	4,966
REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQUAPORINS	41	0.32082	1.072828	0.359127	0.590025	1	7,888
GENTILE_UV_RESPONSE_CLUSTER_D8	39	0.368643	1.119442	0.359504	0.559529	1	8,761
YAGI_AML_FAB_MARKERS	186	0.254006	1.057875	0.359768	0.599395	1	5,781
KEGG_DILATED_CARDIOMYOPATHY	89	0.303389	1.085509	0.36	0.580227	1	7,561
REACTOME_IL1_SIGNALING	38	0.319655	1.076437	0.361493	0.588443	1	8,413
SENESE_HDAC3_TARGETS_UP	472	0.313611	1.121342	0.362173	0.55794	1	7,258
LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN	131	0.351105	1.125212	0.362235	0.553544	1	6,266

ROSS_AML_WITH_AML1_ETO_FUSION	73	0.268577	1.065181	0.362919	0.594802	1	4,730
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP	117	0.299275	1.069207	0.365079	0.590486	1	6,016
MA_MYELOID_DIFFERENTIATION_DN	43	0.305916	1.072413	0.365269	0.590292	1	8,898
JOHANSSON_GLIOMAGENESIS_BY_PDGFB_DN	21	0.341715	1.07171	0.365269	0.590669	1	8,255
BIOCARTA_P38MAPK_PATHWAY	39	0.322515	1.074695	0.366	0.589591	1	3,676
BROWNE_HCMV_INFECTION_1HR_UP	58	0.300783	1.076859	0.366397	0.588161	1	6,323
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	61	0.274261	1.062576	0.366397	0.596688	1	3,835
RODRIGUES_NTN1_AND_DCC_TARGETS	33	0.313021	1.064288	0.366472	0.59501	1	9,338
SMIRNOV_RESPONSE_TO_IR_2HR_DN	53	0.314831	1.091889	0.366795	0.575137	1	5,378
LIU_VAV3_PROSTATE_CARCINOGENESIS_UP	89	0.326153	1.08454	0.367677	0.581488	1	6,718
DACOSTA_UV_RESPONSE_VIA_ERCC3_XPCS_DN	84	0.366031	1.104446	0.367886	0.569006	1	9,389
HOOI_ST7_TARGETS_DN	115	0.251635	1.056661	0.368635	0.5992	1	4,399
REACTOME_INTERFERON_SIGNALING	142	0.323124	1.116302	0.368726	0.56062	1	7,665
RUIZ_TNC_TARGETS_UP	148	0.310219	1.089269	0.369261	0.576867	1	7,920
SHIN_B_CELL_LYMPHOMA_CLUSTER_2	28	0.32259	1.061179	0.370221	0.596817	1	573
MULLIGHAN_NPM1_SIGNATURE_3_UP	309	0.238078	1.049341	0.370221	0.605202	1	7,948
PID_HNF3A_PATHWAY	43	0.290709	1.051939	0.370809	0.60381	1	8,429
CAIRO_LIVER_DEVELOPMENT_DN	214	0.250864	1.045441	0.371486	0.609747	1	6,525
MEDINA_SMARCA4_TARGETS	40	0.2904	1.049369	0.371795	0.605628	1	5,462
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN	30	0.355401	1.082044	0.371951	0.584153	1	2,579
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN	64	0.280821	1.070883	0.371951	0.590746	1	7,103
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP	74	0.369788	1.112477	0.372093	0.56343	1	10,717
FINETTI_BREAST_CANCERS_KINOME_BLUE	21	0.354422	1.057903	0.372277	0.59981	1	4,585
KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOMYOPATHY_ARVC	74	0.311504	1.057625	0.37232	0.59891	1	6,386
VANTVEER_BREAST_CANCER_ESR1_UP	163	0.269073	1.070721	0.37251	0.590565	1	6,117
LINDSTEDT_DENDRITIC_CELL_MATURATION_D	66	0.364951	1.104792	0.373777	0.568843	1	8,539
ZHENG_GLIOBLASTOMA_PLASTICITY_DN	55	0.333427	1.064613	0.375	0.594902	1	6,710
DOANE_RESPONSE_TO_ANDROGEN_UP	176	0.232111	1.024962	0.375746	0.623786	1	7,247
NIKOLSKY_OVERCONNECTED_IN_BREAST_CANCER	19	0.369136	1.080777	0.376569	0.584039	1	3,300
PEDRIOLI_MIR31_TARGETS_DN	378	0.23997	1.058839	0.376953	0.599088	1	6,090
HELLER_HDAC_TARGETS_DN	279	0.259725	1.04428	0.37732	0.609479	1	3,569
ST_MYOCYTE_AD_PATHWAY	26	0.339898	1.063492	0.377637	0.595977	1	8,623
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	83	0.290834	1.052803	0.377953	0.603638	1	7,561
PHONG_TNF_RESPONSE_NOT_VIA_P38	331	0.260514	1.05782	0.379032	0.599022	1	6,963
JI_METASTASIS_REPRESSED_BY_STK11	27	0.345122	1.066534	0.379648	0.593382	1	5,474
MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27ME3	125	0.251626	1.056008	0.379648	0.599903	1	8,283
MA_PITUITARY_FETAL_VS_ADULT_UP	27	0.331113	1.056957	0.379877	0.599642	1	1,644
MINGUEZ_LIVER_CANCER_VASCULAR_INVASION_DN	21	0.426061	1.096819	0.380117	0.572247	1	6,800

SERVITJA_ISLET_HNF1A_TARGETS_DN	106	0.281315	1.036757	0.380762	0.615083	1	4,745
REACTOME_NEURONAL_SYSTEM	270	0.259523	1.069583	0.38171	0.590724	1	6,413
REACTOME_MEMBRANE_TRAFFICKING	123	0.286062	1.034632	0.381818	0.615104	1	6,352
SHEN_SMARCA2_TARGETS_DN	303	0.231881	1.043744	0.382066	0.61008	1	4,644
RATTENBACHER_BOUND_BY_CELF1	394	0.204993	1.024326	0.382178	0.624473	1	6,218
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_DN	54	0.263689	1.041917	0.382353	0.611038	1	3,951
STOSSِي_RESPONSE_TO ESTRADIOL	46	0.302764	1.035973	0.383065	0.615997	1	4,737
REACTOME_RECYCLING_PATHWAY_OF_L1	26	0.344607	1.042838	0.383367	0.610753	1	3,799
AMBROSINI_FLAVOPIRIDOL_TREATMENT_TP53	101	0.237662	1.034637	0.383367	0.615551	1	6,697
HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN	75	0.346837	1.072857	0.383721	0.590442	1	8,452
LIN_SILENCED_BY_TUMOR_MICROENVIRONMENT	104	0.317711	1.061716	0.384	0.596853	1	6,534
MARKEY_RB1_CHRONIC_LOF_DN	111	0.292473	1.055875	0.384615	0.599208	1	3,636
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_DN	497	0.277675	1.069955	0.385106	0.591012	1	7,870
MIKKELSEN_NPC_HCP_WITH_H3K27ME3	314	0.237803	1.046907	0.385714	0.608261	1	5,680
LANDIS_BREAST_CANCER_PROGRESSION_DN	69	0.312757	1.059226	0.386503	0.598871	1	7,877
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_DN	89	0.252102	1.04466	0.387716	0.609755	1	6,113
DOANE_BREAST_CANCER_ESR1_UP	106	0.270183	1.047321	0.388031	0.60796	1	5,614
STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_DN	24	0.334698	1.052069	0.38835	0.604044	1	5,623
BROWNE_HCMV_INFECTION_12HR_UP	104	0.277802	1.058664	0.389105	0.598919	1	8,461
REACTOME_TGF_BETA_RECEPTOR_SIGNALING_IN_EMT_EPITHELIAL_TO_MESENCHYMAL_TRANSITION	15	0.406321	1.070181	0.389662	0.591048	1	4,119
PID_HNF3B_PATHWAY	45	0.313208	1.030225	0.39	0.620303	1	4,078
RUTELLA_RESPONSE_TO_HGF_UP	401	0.272716	1.037269	0.390152	0.615118	1	6,726
PENG_GLUTAMINE_DEPRIVATION_UP	37	0.279119	1.04167	0.390593	0.61059	1	7,529
WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN	186	0.378829	1.093461	0.391389	0.575144	1	8,914
KAMIKUBO_MYELOID_MN1_NETWORK	19	0.373674	1.06248	0.391393	0.595933	1	8,664
MCLACHLAN_DENTAL_CARIES_DN	77	0.324128	1.069578	0.392505	0.59027	1	4,868
REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_MOLECULES	397	0.232867	1.03219	0.392857	0.61853	1	3,774
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP	58	0.268447	1.038088	0.393281	0.615055	1	7,273
REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ACTIVATION_OF_CAMKII	15	0.384611	1.045061	0.394	0.609948	1	2,870
GAL_LEUKEMIC_STEM_CELL_UP	126	0.237867	1.026384	0.394366	0.623498	1	7,018
THUM_SYSTOLIC_HEART_FAILURE_DN	216	0.26108	1.040293	0.39596	0.612129	1	7,526
REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EGFR	18	0.359751	1.048836	0.397683	0.605631	1	1,644
DIRMEIER_LMP1_RESPONSE_LATE_DN	31	0.392243	1.073726	0.398113	0.589883	1	1,056
REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS	15	0.387464	1.059578	0.398467	0.598716	1	2,838
REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	48	0.294117	1.043126	0.398833	0.610729	1	7,888
NELSON_RESPONSE_TO_ANDROGEN_UP	84	0.301005	1.062544	0.399194	0.596282	1	4,341
JISON_SICKLE_CELL_DISEASE_UP	178	0.296392	1.035235	0.399225	0.615881	1	6,399
MULLIGHAN_NPM1_MUTATED_SIGNATURE_1_DN	121	0.240398	1.025228	0.399606	0.624214	1	7,695

CADWELL_ATG16L1_TARGETS_UP	89	0.274989	1.037469	0.400394	0.615217	1	6,806
HENDRICKS_SMARCA4_TARGETS_UP	54	0.315597	1.044365	0.400794	0.60981	1	2,787
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ SUSTAINED_IN_ERYTHROCYTE_UP	44	0.310573	1.049862	0.40081	0.605707	1	4,958
MORI_EMU_MYC_LYMPHOMA_BY_ONSET_TIME_DN	17	0.38182	1.053536	0.401235	0.602757	1	5,357
BOYLAN_MULTIPLE_MYELOMA_PCA3_UP	74	0.277363	1.050448	0.401942	0.605083	1	2,890
REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_ RICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_PATHWAYS	44	0.32654	1.046742	0.402778	0.60806	1	5,331
LIM_MAMMARY_LUMINAL_MATURE_DN	96	0.34505	1.073532	0.404762	0.589748	1	7,504
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_UP	135	0.41846	1.107935	0.404858	0.566583	1	5,690
DAIRKEE_TERT_TARGETS_DN	114	0.288483	1.042618	0.404858	0.610721	1	6,594
FIGUEROA_AML_METHYLATION_CLUSTER_3_DN	38	0.280854	1.033043	0.405138	0.617442	1	6,090
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_DN	19	0.333539	1.050903	0.406061	0.604709	1	6,400
LIM_MAMMARY_LUMINAL_MATURE_UP	107	0.276366	1.030578	0.406312	0.62009	1	5,945
SYED ESTRADIOL_RESPONSE	19	0.347914	1.042493	0.406615	0.610467	1	4,038
GARY_CD5_TARGETS_UP	449	0.231417	1.026192	0.407332	0.623372	1	5,387
CHEBOTAEV_GR_TARGETS_DN	116	0.297823	1.044856	0.408124	0.609868	1	6,818
KEGG_TGF_BETA_SIGNALING_PATHWAY	85	0.294256	1.041763	0.408451	0.610876	1	4,119
LEE_AGING_MUSCLE_UP	45	0.283156	1.035808	0.408818	0.615396	1	7,567
WOOD_EBV_EBNA1_TARGETS_DN	47	0.331846	1.041566	0.409091	0.61031	1	4,346
KEGG_FATTY_ACID_METABOLISM	42	0.353833	1.06313	0.409369	0.596168	1	3,919
HUI_MAPK14_TARGETS_UP	20	0.350473	1.034759	0.410359	0.615792	1	3,467
REACTOME_MUSCLE_CONTRACTION	46	0.380853	1.05155	0.411306	0.604021	1	4,780
DE_YY1_TARGETS_DN	89	0.35348	1.055994	0.411405	0.599465	1	6,250
REACTOME_RORA_ACTIVATES_CIRCADIAN_EXPRESSION	23	0.38353	1.052388	0.412121	0.603934	1	7,532
BROWNE_HCMV_INFECTION_48HR_DN	474	0.219258	1.0064	0.413255	0.632342	1	6,018
BURTON_ADIPOGENESIS_PEAK_AT_0HR	61	0.312692	1.020402	0.413306	0.627335	1	8,438
VANTVEER_BREAST_CANCER_BRCA1_DN	41	0.329177	1.037584	0.413726	0.615468	1	9,041
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_DN	18	0.365677	1.026569	0.413793	0.623636	1	1,175
CHIARETTI_T_ALL_RELAPSE_PROGNOSIS	19	0.392289	1.065839	0.414538	0.594122	1	2,863
HOLLERN_EMT_BREAST_TUMOR_UP	102	0.378562	1.061275	0.415663	0.597131	1	6,045
REACTOME_LIGAND_GATED_ION_CHANNEL_TRANSPORT	19	0.403432	1.049846	0.416185	0.605278	1	8,113
BIOCARTA_GCR_PATHWAY	19	0.375361	1.03585	0.416335	0.615788	1	8,280
SAMOLS_TARGETS_OF_KHSV_MIRNAS_DN	58	0.286438	1.026188	0.416996	0.622924	1	5,826
JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN	64	0.295561	1.05688	0.417012	0.599315	1	6,450
REACTOME_REGULATION_OF_INSULIN_SECRETION	88	0.289394	1.014415	0.417012	0.630665	1	7,529
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN	139	0.263318	1.023447	0.418079	0.623766	1	5,781
BIOCARTA_WNT_PATHWAY	26	0.31074	1.012672	0.418557	0.630635	1	7,573
KYNG_DNA_DAMAGE_BY_GAMMA_AND_UV_RADIATION	85	0.257404	1.014899	0.419483	0.630714	1	6,113

REACTOME_NGF_SIGNALLING_VIA_TRKA_ FROM_THE_PLASMA_MEMBRANE	131	0.261261	1.024103	0.419552	0.624429	1	7,988
MARIADASON_RESPONSE_TO_BUTYRATE_ CURCUMIN_SULINDAC_TSA_8	15	0.388542	1.031137	0.42	0.619562	1	2,941
BIOCARTA_EIF4_PATHWAY	24	0.353755	1.020953	0.420202	0.626786	1	5,631
COWLING_MYCN_TARGETS	43	0.353589	1.028994	0.420635	0.621105	1	9,399
CORRE_MULTIPLE_MYELOMA_UP	65	0.28552	1.015563	0.420635	0.630398	1	4,080
STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP	77	0.278698	1.012962	0.420635	0.631039	1	4,489
WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP	113	0.279408	1.029793	0.421569	0.620608	1	7,247
TURASHVILI_BREAST_NORMAL_DUCTAL_VS_LOBULAR_UP	62	0.270451	1.002543	0.422179	0.636463	1	8,415
REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	108	0.271446	1.012703	0.42278	0.63104	1	7,912
GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_UP	108	0.299868	1.019898	0.423077	0.627345	1	6,066
AFFAR_YY1_TARGETS_UP	203	0.229818	1.023912	0.423954	0.624327	1	8,143
WIERENGA_STAT5A_TARGETS_UP	201	0.262921	1.036881	0.42418	0.615317	1	4,642
SENGUPTA_EBNA1_ANTICORRELATED	147	0.273897	1.018623	0.425358	0.629023	1	5,641
BIOCARTA_LONGEVITY_PATHWAY	15	0.380052	1.027158	0.425703	0.623064	1	2,457
KONDO_COLON_CANCER_HCP_WITH_H3K27ME1	23	0.317561	1.00549	0.426386	0.63304	1	7,412
CHANG_IMMORTALIZED_BY_HP31_UP	80	0.281943	1.02365	0.427165	0.623869	1	4,984
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	241	0.261992	1.0083	0.427757	0.63387	1	7,273
MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_DN	75	0.270401	1.015411	0.42885	0.630221	1	6,571
REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX	61	0.279815	1.018537	0.42915	0.628703	1	4,723
LOPES_METHYLATED_IN_COLON_CANCER_DN	28	0.295832	1.000886	0.429924	0.637988	1	5,655
DAIRKEE_CANCER_PRONE_RESPONSE_E2	28	0.304614	1.023671	0.430255	0.624289	1	6,782
IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	287	0.224607	1.014033	0.43083	0.630919	1	6,907
URS_ADIPOCYTE_DIFFERENTIATION_UP	73	0.255627	1.006808	0.431138	0.632084	1	7,994
MILI_PSEUDOPODIA_HAPTOTAXIS_UP	486	0.303574	1.009915	0.431907	0.632348	1	7,730
CADWELL_ATG16L1_TARGETS_DN	65	0.26627	1.000499	0.432171	0.636473	1	5,210
IVANOVA_HEMATOPOIESIS_STEM_CELL	238	0.233588	1.009336	0.43254	0.632913	1	5,906
ZHANG_GATA6_TARGETS_UP	15	0.360491	1.022819	0.433198	0.623989	1	5,438
FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN	66	0.274939	1.031525	0.433468	0.619287	1	7,963
LEIN_MEDULLA_MARKERS	74	0.249498	1.013694	0.433468	0.631088	1	4,665
PID_INSULIN_PATHWAY	45	0.293597	1.008171	0.434077	0.633195	1	2,737
AMIT_EGF_RESPONSE_240_MCF10A	20	0.345823	1.011094	0.435203	0.631644	1	5,261
REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	77	0.317293	1.016004	0.436	0.630074	1	4,515
ST_G_ALPHA_I_PATHWAY	35	0.314437	1.02038	0.43659	0.626936	1	3,594
ZIRN_TRETINOIN_RESPONSE_UP	20	0.365121	1.025141	0.436992	0.623927	1	6,357
LIU_VMYB_TARGETS_UP	117	0.25067	0.994303	0.436992	0.64304	1	8,169
REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2_	80	0.287901	1.008206	0.437008	0.633584	1	6,523
PID_WNT_NONCANONICAL_PATHWAY	32	0.328426	1.014426	0.438878	0.631099	1	5,530

GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	200	0.264058	0.999246	0.439024	0.638242	1	6,574
FAELT_B_CLL_WITH_VH_REARRANGEMENTS_DN	45	0.30976	1.003239	0.439394	0.635637	1	2,306
BONCI_TARGETS_OF_MIR15A_AND_MIR16_1	88	0.297791	1.018368	0.440329	0.628589	1	4,536
GENTILE_UV_LOW_DOSE_DN	65	0.336891	1.013572	0.440329	0.630835	1	6,487
LABBE_TGFB1_TARGETS_DN	99	0.247592	1.028881	0.440711	0.620859	1	3,110
BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_48HR_UP	18	0.31878	1.018063	0.441815	0.628682	1	3,862
REACTOME_SIGNALING_BY_FGFR	105	0.241081	1.007704	0.442	0.633131	1	7,599
WANG_SMARCE1_TARGETS_UP	269	0.303143	1.016992	0.442231	0.63016	1	8,554
BENPORATH_NOS_TARGETS	169	0.239468	1.004653	0.442886	0.634043	1	8,318
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE	71	0.27294	1.007668	0.442913	0.632757	1	7,830
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	251	0.261817	1.000509	0.443114	0.636892	1	7,631
GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_UP	71	0.343659	1.038432	0.444664	0.61493	1	5,541
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	16	0.380687	1.034936	0.444882	0.615944	1	6,628
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	18	0.358316	1.029226	0.445565	0.621158	1	4,760
REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS	26	0.326354	1.010287	0.445585	0.632159	1	3,333
MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP	169	0.276127	1.000663	0.446029	0.637065	1	5,112
ZHANG_TLX_TARGETS_60HR_UP	284	0.236573	1.013042	0.447471	0.631339	1	5,113
BOYLAN_MULTIPLE_MYELOMA_C_DN	54	0.288917	1.016933	0.447525	0.62936	1	3,158
MIKKELSEN_NPC_ICP_WITH_H3K4ME3	414	0.215487	1.00766	0.447876	0.632332	1	6,606
KEGG_FOCAL_ADHESION	197	0.279606	0.987232	0.448141	0.646356	1	4,487
LEE_NEURAL_CREST_STEM_CELL_UP	140	0.278942	0.998584	0.448343	0.639029	1	7,036
HUTTMANN_B_CLL_POOR_SURVIVAL_UP	257	0.230563	1.008757	0.449102	0.63353	1	5,655
FIGUEROA_AML_METHYLATION_CLUSTER_4_DN	15	0.360049	1.016242	0.449304	0.630092	1	2,331
BROWNE_HCMV_INFECTION_18HR_UP	172	0.258984	1.0075	0.451807	0.632196	1	4,907
DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_UP	55	0.271573	1.007215	0.452191	0.632243	1	6,057
REACTOME_MYOGENESIS	22	0.353787	0.997245	0.452569	0.640576	1	7,085
PID_ILK_PATHWAY	45	0.307854	1.006944	0.452794	0.632269	1	6,386
REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	17	0.352167	0.984143	0.452906	0.649169	1	4,512
GALLUZZI_PREVENT_MITOCHONDIAL_PERMEABILIZATION	22	0.339046	0.995232	0.453252	0.642253	1	7,693
OSADA_ASCL1_TARGETS_UP	45	0.294014	0.993566	0.454183	0.64345	1	4,782
RUAN_RESPONSE_TO_TNF_DN	83	0.262735	1.00635	0.454191	0.631982	1	7,117
KEGG_SMALL_CELL_LUNG_CANCER	84	0.274914	0.992971	0.454728	0.643595	1	4,437
COLLIS_PRKDC_SUBSTRATES	20	0.344691	0.998102	0.455446	0.639453	1	2,357
BERNARD_PPAPDC1B_TARGETS_DN	51	0.275785	0.970008	0.456476	0.65422	1	6,194
NADLER_OBESITY_UP	60	0.368282	1.022897	0.456693	0.624305	1	7,690
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_UP	379	0.271566	0.990288	0.45674	0.644488	1	6,107
REACTOME_CGMP_EFFECTS	19	0.37983	1.012553	0.457906	0.630407	1	4,149
IVANOVSKA_MIR106B_TARGETS	85	0.283167	0.990237	0.458248	0.644143	1	5,934

SEKI_INFLAMMATORY_RESPONSE_LPS_DN	20	0.317365	0.988075	0.458422	0.646202	1	4,662
BRACHAT_RESPONSE_TO_METHOTREXATE_DN	26	0.33853	0.994944	0.459144	0.642354	1	809
HALMOS_CEBPA_TARGETS_DN	45	0.281235	1.003663	0.459357	0.635325	1	3,957
KEGG_STARCH_AND_SUCROSE_METABOLISM	49	0.322734	1.00776	0.460039	0.633479	1	5,087
REACTOME_ACYL_CHAIN_REMODELLING_OF_PC	21	0.322285	0.966957	0.46063	0.656458	1	8,531
PID_P38_ALPHA_BETA_DOWNSTREAM_PATHWAY	38	0.284336	0.978227	0.460938	0.652834	1	4,437
BURTON_ADIPOGENESIS_9	90	0.27533	0.984618	0.461386	0.648738	1	4,436
BOSCO_INTERFERON_INDUCED_ANTIVIRAL_MODULE	74	0.346614	1.000853	0.462715	0.637604	1	5,611
CHEOK_RESPONSE_TO_HD_MTX_UP	21	0.333382	0.993415	0.463178	0.643285	1	6,099
KANG_DOXORUBICIN_RESISTANCE_DN	18	0.439345	1.027816	0.463563	0.622321	1	4,888
ZWANG_EGF_INTERVAL_DN	190	0.225287	0.991802	0.46371	0.644378	1	6,030
BOYLAN_MULTIPLE_MYELOMA_D_CLUSTER_UP	27	0.289906	0.990826	0.464	0.644389	1	4,243
DELACROIX_RAR_TARGETS_UP	46	0.274725	0.990444	0.464646	0.644641	1	5,280
JEON_SMAD6_TARGETS_UP	23	0.377357	1.001353	0.46507	0.637641	1	8,343
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	31	0.303889	0.987956	0.465619	0.645969	1	5,777
SILIGAN_BOUND_BY_EWS_FLT1_FUSION	44	0.313059	1.001624	0.465839	0.637598	1	5,629
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN	63	0.343716	1.01696	0.465863	0.629768	1	8,421
ALCALAY_AML_BY_NPM1_LOCALIZATION_UP	132	0.240148	0.996606	0.466135	0.640804	1	6,457
REACTOME_ENERGY_DEPENDENT_REGULATION_OF_MTOR_BY_LKB1_AMPK	17	0.33925	0.992962	0.466667	0.643177	1	5,579
BASSO_HAIRY_CELL_LEUKEMIA_UP	79	0.294198	0.986284	0.467456	0.647543	1	7,355
PID_HDAC_CLASSII_PATHWAY	33	0.275073	0.982893	0.46748	0.650104	1	5,861
KYNG_WERNER_SYNDROM_AND_NORMAL_AGING_UP	87	0.240652	0.980922	0.467641	0.65135	1	5,188
TRACEY_RESISTANCE_TO_IFNA2_DN	28	0.327745	0.981574	0.46833	0.650631	1	6,041
HATADA_METHYLATED_IN_LUNG_CANCER_UP	365	0.219273	0.974763	0.468872	0.654953	1	7,067
BROWNE_HCMV_INFECTION_20HR_UP	231	0.219399	0.980538	0.469185	0.65111	1	8,605
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN	102	0.295693	0.996207	0.469388	0.641019	1	6,107
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_DN	74	0.364785	1.012017	0.469636	0.630909	1	1,819
ALCALA_APOPTOSIS	86	0.290772	0.979958	0.470019	0.651659	1	4,119
IVANOVA_HEMATOPOIESIS_LATE_PROGENITOR	500	0.229499	0.964489	0.470363	0.658234	1	7,427
SPIELMAN_LYMPHOBLAST_EUROPEAN_VS_ASIAN_2FC_DN	21	0.36015	0.984062	0.47093	0.648881	1	10,245
ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION	125	0.309456	0.978017	0.471591	0.652788	1	3,351
REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT	232	0.227463	0.989047	0.471933	0.645795	1	4,290
NAKAMURA_METASTASIS	44	0.292221	0.990828	0.472656	0.644825	1	8,159
HOFFMANN_SMALL_PRE_BII_TO_IMMATURE_B_LYMPHOCYTE_DN	45	0.261246	0.991255	0.472837	0.6445	1	4,722
REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	32	0.317272	0.971003	0.473477	0.653737	1	7,888
SCHAEFFER_SOX9_TARGETS_IN_PROSTATE_DEVELOPMENT_UP	21	0.307334	0.975055	0.473904	0.655344	1	6,586
DIRMEIER_LMP1_RESPONSE_EARLY	63	0.33205	0.984696	0.473988	0.649471	1	3,026

OUELLET_CULTURED_OVARIAN_CANCER_INVASIVE_VS_LMP_DN	29	0.319315	0.972677	0.474187	0.653828	1	529
RAO_BOUND_BY_SALL4	212	0.23301	0.977578	0.474645	0.653097	1	5,680
LIU_IL13_MEMORY_MODEL_UP	16	0.346447	1.000767	0.474806	0.637303	1	522
BRCHAT_RESPONSE_TO_CAMPTOTHECIN_UP	26	0.300441	0.987769	0.47486	0.645873	1	6,421
GENTILE_UV_RESPONSE_CLUSTER_D9	27	0.314679	0.975266	0.47551	0.655411	1	3,813
KEGG_PANCREATIC_CANCER	69	0.279298	0.988724	0.476096	0.645478	1	3,201
COULOUARN_TEMPORAL_TGFB1_SIGNATURE_UP	107	0.261069	0.978715	0.476285	0.652834	1	8,553
ONDER_CDH1_TARGETS_2_UP	243	0.323224	1.011326	0.476654	0.631658	1	8,511
BOQUEST_STEM_CELL_UP	256	0.328434	0.993614	0.476768	0.643803	1	6,718
DAWSON_METHYLATED_IN_LYMPHOMA_TCL1	53	0.285078	0.972686	0.476954	0.65468	1	7,377
XU_GH1_EXOGENOUS_TARGETS_DN	112	0.242063	0.961184	0.47767	0.659697	1	4,605
PID_AVB3_INTEGRIN_PATHWAY	74	0.313937	0.978834	0.478261	0.653072	1	4,119
SHI_SPARC_TARGETS_UP	24	0.303992	0.972762	0.478351	0.654973	1	1,912
SENESE_HDAC1_TARGETS_UP	427	0.275364	0.972311	0.478516	0.653612	1	6,250
PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2	71	0.293254	0.97866	0.478599	0.652493	1	6,153
BURTON_ADIPOGENESIS_10	28	0.327036	0.972942	0.478599	0.65511	1	7,868
REACTOME_TIE2_SIGNALING	17	0.334855	0.969208	0.478615	0.654333	1	3,619
LU_EZH2_TARGETS_DN	362	0.250611	0.96772	0.480469	0.656007	1	6,573
BECKER_TAMOXIFEN_RESISTANCE_UP	49	0.306073	0.972133	0.480545	0.65349	1	7,887
REACTOME_TRANSPORT_OF_VITAMINS_NUCLEOSIDES_AND_RELATED_MOLECULES	30	0.3096	0.983587	0.480687	0.64929	1	4,186
MAGRANGEAS_MULTIPLE_MYELOMA_IGLL_VS_IGLK_DN	22	0.291732	0.973553	0.482618	0.654908	1	6,386
CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY	29	0.302003	0.992902	0.483235	0.642841	1	7,866
REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING	19	0.388418	0.996895	0.483264	0.640781	1	10,245
KEGG_GLYCOLYSIS_GLUconeogenesis	58	0.290091	0.97319	0.484	0.65508	1	4,241
BURTON_ADIPOGENESIS_12	31	0.351289	0.96966	0.484127	0.654416	1	7,272
LEE_LIVER_CANCER_ACOX1_UP	63	0.272728	0.982381	0.484252	0.650125	1	8,452
ZHANG_RESPONSE_TO_CANTHARIDIN_UP	19	0.354977	0.961932	0.48503	0.659232	1	3,833
XU_HGF_TARGETS_INDUCED_BY_AKT1_6HR	17	0.375517	0.970144	0.48524	0.654384	1	6,988
LEIN_CEREBELLUM_MARKERS	77	0.244294	0.991476	0.485656	0.644537	1	6,892
WANG_LMO4_TARGETS_UP	340	0.219437	0.962553	0.48583	0.659433	1	6,829
IKEDA_MIR1_TARGETS_UP	53	0.34414	0.980678	0.486056	0.651305	1	8,879
GRADE_COLON_AND_RECTAL_CANCER_DN	96	0.252442	0.985932	0.486762	0.647723	1	4,732
BAE_BRCA1_TARGETS_DN	32	0.301811	0.976573	0.489837	0.65359	1	6,331
HAN_SATB1_TARGETS_DN	422	0.219886	0.974665	0.489837	0.654225	1	5,911
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM6	46	0.251338	0.975031	0.490566	0.654948	1	4,075
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP	337	0.379779	0.984634	0.491089	0.649142	1	7,469
MCCLUNG_CREB1_TARGETS_DN	54	0.269052	0.960934	0.491936	0.659243	1	8,135
PID_INTEGRIN5_PATHWAY	17	0.388417	0.982269	0.492095	0.649873	1	5,219

HAHTOLA_CTCL_CUTANEOUS	25	0.311705	0.972386	0.492248	0.653912	1	4,984
BENPORATH_OCT4_TARGETS	277	0.220299	0.974683	0.492724	0.654629	1	7,196
KEGG_SPHINGOLIPID_METABOLISM	35	0.32157	0.972014	0.492901	0.65325	1	4,613
GENTILE_UV_HIGH_DOSE_DN	301	0.258153	0.97268	0.493177	0.654256	1	6,884
BOWIE_RESPONSE_TO_TAMOXIFEN	18	0.484008	1.010408	0.493308	0.632397	1	7,026
BROCKE_APOPTOSIS_REVERSED_BY_IL6	142	0.274368	0.963163	0.493359	0.659273	1	7,922
PID_SMAD2_3PATHWAY	17	0.358741	0.965218	0.493802	0.65779	1	8,453
LIAN_LIPA_TARGETS_3M	57	0.369694	0.982544	0.49497	0.650271	1	6,791
OUILLETTE_CLL_13Q14_DELETION_UP	69	0.265633	0.963825	0.495984	0.658964	1	6,899
OUILLETTE_CLL_13Q14_DELETION_DN	57	0.246056	0.974124	0.497959	0.654364	1	5,289
ZWANG_CLASS_2_TRANSIENTLY_INDUCED_BY_EGF	44	0.278922	0.943533	0.498	0.677256	1	5,280
PID_HES_HEY_PATHWAY	47	0.279648	0.988773	0.498973	0.645828	1	3,478
ABBUD_LIF_SIGNALING_1_UP	44	0.290133	0.967597	0.498973	0.655793	1	3,919
MONNIER_POSTRADIATION_TUMOR_ESCAPE_DN	349	0.219493	0.96094	0.499022	0.659655	1	6,002
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN	19	0.356484	0.962139	0.499025	0.659269	1	6,030
ST_GRANULE_CELL_SURVIVAL_PATHWAY	27	0.299031	0.958078	0.499033	0.66178	1	5,450
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	205	0.278115	0.937454	0.5	0.682027	1	6,963
REACTOME_GLUCAGON_TYPE_LIGAND_RECEPTORS	33	0.315472	0.977008	0.500994	0.653263	1	7,290
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_DN	237	0.208189	0.963021	0.501946	0.659079	1	6,400
REACTOME_YAP1_AND_WWTR1_TAZ_STIMULATED_GENE_EXPRESSION	23	0.33274	0.933999	0.502994	0.684621	1	7,532
GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_DN	33	0.278435	0.948394	0.504	0.673434	1	4,483
BIOCARTA_AMI_PATHWAY	20	0.358748	0.951419	0.504762	0.670338	1	8,779
LIANG_HEMATOPOIESIS_STEM_CELL_NUMBER_QTL	16	0.323775	0.969426	0.504799	0.654374	1	2,024
AMIT_SERUM_RESPONSE_120_MCF10A	64	0.290109	0.965671	0.504799	0.657833	1	7,429
SPIRA_SMOKERS_LUNG_CANCER_DN	20	0.308446	0.974128	0.504854	0.654791	1	267
PID_TGFBR_PATHWAY	55	0.291734	0.94747	0.50499	0.674215	1	8,453
MIKKELSEN_MCV6_LCP_WITH_H3K27ME3	20	0.305917	0.965427	0.50501	0.657847	1	63
REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	27	0.304906	0.943917	0.50501	0.677389	1	6,628
BIOCARTA_NDKDYNAMIN_PATHWAY	18	0.327469	0.954667	0.50503	0.665616	1	6,458
ZHANG_RESPONSE_TO_IKK_INHIBITOR_AND_TNF_UP	215	0.267408	0.954351	0.506876	0.665714	1	6,866
TANAKA_METHYLATED_IN_ESOPHAGEAL_CARCINOMA	94	0.234282	0.955558	0.506958	0.664927	1	7,111
PETROVA_PROX1_TARGETS_DN	62	0.319436	0.961763	0.507014	0.659104	1	7,956
LAIHO_COLORECTAL_CANCER_SERRATED_UP	107	0.319031	0.949705	0.507722	0.672017	1	6,528
LIAN_LIPA_TARGETS_6M	72	0.330893	0.956077	0.507968	0.66446	1	6,791
HOWLIN_CITED1_TARGETS_2_DN	17	0.324192	0.950526	0.507968	0.671014	1	1,567
PID_DNA_PK_PATHWAY	16	0.344142	0.970435	0.508032	0.654299	1	267
KEGG_PROSTATE_CANCER	89	0.245478	0.930593	0.508032	0.687041	1	8,280
JECHLINGER_EPITHELIAL_TO_	66	0.255429	0.954965	0.509728	0.665548	1	9,128

MESENCHYMAL_TRANSITION_DN							
ROSS_AML_OF_FAB_M7_TYPE	65	0.256761	0.960759	0.509881	0.659121	1	5,826
WNT_SIGNALING	85	0.234739	0.962357	0.511022	0.659332	1	5,643
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_DN	18	0.364421	0.966945	0.514113	0.656051	1	8,032
LUI_THYROID_CANCER_CLUSTER_4	15	0.410117	0.971222	0.51462	0.653807	1	4,552
IIZUKA_LIVER_CANCER_PROGRESSION_L0_L1_UP	17	0.327661	0.977088	0.51503	0.65355	1	5,930
RIZ_ERYTHROID_DIFFERENTIATION_HEMGN	31	0.278116	0.972006	0.51606	0.652838	1	7,866
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_UP	195	0.260884	0.940104	0.517034	0.680019	1	4,563
REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	49	0.27819	0.933539	0.517172	0.684579	1	3,676
CASTELLANO_NRAS_TARGETS_UP	64	0.260792	0.939647	0.518095	0.680393	1	6,462
PILON_KLF1_TARGETS_UP	481	0.22229	0.94923	0.518828	0.672425	1	8,059
FARMER_BREAST_CANCER_APOCRINE_VS_LUMINAL	310	0.222505	0.934174	0.519763	0.685619	1	4,849
REACTOME_GABA_B_RECEPTOR_ACTIVATION	38	0.278078	0.946782	0.520548	0.674112	1	5,932
SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES	33	0.323787	0.963693	0.520629	0.658745	1	6,370
BROWNE_HCMV_INFECTION_4HR_DN	246	0.197202	0.958374	0.520875	0.661655	1	5,076
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP	383	0.19511	0.964954	0.520958	0.657812	1	5,282
WENG_POR_DOSAGE	21	0.317354	0.943105	0.521127	0.677533	1	5,144
DING_LUNG_CANCER_BY_MUTATION_RATE	20	0.302669	0.941068	0.521561	0.679275	1	9,222
BEIER_GLIOMA_STEM_CELL_UP	34	0.280596	0.957467	0.522013	0.662417	1	1,692
REACTOME_PEROXISOMAL_LIPID_METABOLISM	20	0.370346	0.959532	0.522358	0.66044	1	9,518
GRYDER_PAX3FOXO1_ENHANCERS_KO_DOWN	427	0.240333	0.947806	0.522358	0.674064	1	8,231
ZWANG_DOWN_BY_2ND_EGF_PULSE	232	0.225292	0.958436	0.522505	0.661964	1	6,673
JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_DN	41	0.276316	0.936912	0.522593	0.682117	1	5,190
BERENJENO_TRANSFORMED_BY_RHOA_DN	380	0.237599	0.943689	0.523046	0.677369	1	7,100
KEGG_GLIOMA	65	0.255009	0.947232	0.523139	0.674205	1	2,971
NEWMAN_ERCC6_TARGETS_UP	23	0.315529	0.925054	0.524367	0.691135	1	3,190
PID_P75_NTR_PATHWAY	67	0.256179	0.936047	0.52505	0.68278	1	5,530
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0	72	0.267758	0.94693	0.525194	0.674292	1	5,796
WANG_LMO4_TARGETS_DN	330	0.237836	0.907827	0.526733	0.705559	1	6,239
ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	41	0.286885	0.936843	0.527273	0.681838	1	8,254
WONG_ENDMETRIUM_CANCER_DN	78	0.350635	0.939408	0.528113	0.680395	1	8,536
REACTOME_SIGNALING_BY_PDGF	116	0.247822	0.924942	0.52834	0.690933	1	7,590
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	81	0.253587	0.94668	0.5286	0.673878	1	5,373
GUO_TARGETS_OF_IRS1_AND_IRS2	93	0.248778	0.932882	0.528926	0.685284	1	5,922
SCHRAMM_INHBA_TARGETS_DN	23	0.326499	0.944927	0.529412	0.676089	1	8,170
CORRE_MULTIPLE_MYELOMA_DN	60	0.266079	0.923124	0.529644	0.690713	1	6,760
HECKER_IFNB1_TARGETS	91	0.321306	0.924904	0.529981	0.690153	1	9,454
REACTOME_GABA_RECEPTOR_ACTIVATION	51	0.277177	0.934028	0.530452	0.685007	1	5,932

ZHAN_MULTIPLE_MYELOMA_CD1_AND_CD2_UP	82	0.266573	0.932512	0.53229	0.685469	1	4,756
SESTO_RESPONSE_TO_UV_C2	53	0.298963	0.907566	0.532544	0.705158	1	7,748
KEGG_OLFACTORY_TRANSDUCTION	57	0.2513	0.968014	0.532673	0.655937	1	3,608
SERVITJA_ISLET_HNF1A_TARGETS_UP	161	0.273402	0.940638	0.532673	0.67958	1	6,027
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_DN	19	0.351132	0.959807	0.533066	0.660397	1	3,505
REACTOME_CIRCADIAN_CLOCK	50	0.287776	0.921139	0.533199	0.693231	1	5,908
MARZEC_IL2_SIGNALING_UP	111	0.250436	0.941737	0.534381	0.679012	1	3,274
REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR	93	0.232441	0.94656	0.536082	0.673668	1	7,988
REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE	34	0.292527	0.913838	0.536232	0.69895	1	2,423
ZHU_CMV_ALL_DN	125	0.273286	0.913944	0.53629	0.699187	1	6,058
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN	432	0.248423	0.888573	0.536634	0.723598	1	6,794
KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP	124	0.249929	0.931003	0.536822	0.686727	1	6,616
WOTTON_RUNX_TARGETS_DN	27	0.290999	0.926204	0.537074	0.690408	1	4,045
KEGG_SNARE_INTERACTIONS_IN_VESICULAR_TRANSPORT	38	0.273522	0.934142	0.539197	0.685248	1	7,612
NADERI_BREAST_CANCER_PROGNOSIS_DN	18	0.340138	0.920792	0.540918	0.693417	1	4,320
GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP	28	0.293401	0.918114	0.540918	0.69453	1	6,824
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP	158	0.223914	0.930309	0.541502	0.686678	1	5,233
RIGGINS_TAMOXIFEN_RESISTANCE_DN	213	0.254653	0.903927	0.542	0.708528	1	6,306
GENTILE_UV_RESPONSE_CLUSTER_D5	37	0.291372	0.928474	0.542056	0.687312	1	7,692
GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_DN	36	0.29028	0.932088	0.54326	0.685754	1	695
PID_INTEGRIN_A9B1_PATHWAY	24	0.304462	0.914442	0.543478	0.698739	1	5,911
HOFMANN_CELL_LYMPHOMA_UP	46	0.275467	0.924921	0.543651	0.690545	1	5,395
SINGH_NFE2L2_TARGETS	15	0.380477	0.915594	0.544061	0.697662	1	8,045
NABA_SECRETED_FACTORS	303	0.223222	0.937577	0.544204	0.682229	1	6,443
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN	158	0.292614	0.923299	0.544204	0.69126	1	6,274
KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM	38	0.300766	0.915818	0.546906	0.697703	1	4,611
MCBRYAN_PUBERTAL_TGFB1_TARGETS_DN	60	0.243065	0.941172	0.547758	0.679542	1	8,452
JOHNSTONE_PARVB_TARGETS_3_UP	409	0.223283	0.919409	0.549098	0.694045	1	6,678
KIM_GLIS2_TARGETS_UP	83	0.317198	0.920211	0.549603	0.693096	1	6,710
CONRAD_STEM_CELL	38	0.257189	0.950991	0.550296	0.670666	1	5,589
FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	50	0.257134	0.918927	0.55098	0.693577	1	6,876
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	115	0.240693	0.902736	0.551308	0.709793	1	7,573
TAVOR_CEBPA_TARGETS_UP	48	0.288232	0.92928	0.552268	0.686769	1	6,518
PID_P38_MK2_PATHWAY	21	0.299007	0.889941	0.552684	0.722513	1	5,861
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	122	0.245138	0.942602	0.553971	0.677964	1	8,053
PID_AJDISS_2PATHWAY	48	0.281894	0.925316	0.555992	0.691102	1	6,963
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_DN	27	0.341998	0.929038	0.556452	0.686759	1	5,050
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_UP	18	0.300575	0.929716	0.557875	0.686431	1	935
MACAEVA_PBMK_RESPONSE_TO_IR	90	0.239642	0.907381	0.558095	0.705078	1	4,286

CHANDRAN_METASTASIS_TOP50_DN	44	0.264042	0.912063	0.558386	0.700748	1	4,419
KIM_LRRC3B_TARGETS	30	0.367223	0.912815	0.558824	0.700287	1	3,826
BIOCARTA_MPR_PATHWAY	33	0.290655	0.906814	0.560784	0.7052	1	7,365
BREUHAHN_GROWTH_FACTOR_SIGNALING_IN_LIVER_CANCER	22	0.319962	0.919216	0.560976	0.693939	1	6,996
SMID_BREAST_CANCER_ERBB2_UP	143	0.25137	0.923144	0.561753	0.691097	1	5,986
PID_PI3KCI_AKT_PATHWAY	35	0.27498	0.891752	0.561886	0.721513	1	8,571
AMIT_DELAYED_EARLY_GENES	18	0.395089	0.937681	0.561905	0.682493	1	858
ROZANOV_MMP14_TARGETS_UP	256	0.232977	0.914871	0.5625	0.69844	1	4,404
MCBRYAN_PUBERTAL_BREAST_3_4WK_UP	204	0.220806	0.938126	0.562624	0.68216	1	6,218
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN	49	0.298352	0.910454	0.562874	0.70228	1	6,337
REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_REGULATES_TRANSCRIPTION	26	0.271205	0.911014	0.564547	0.702131	1	2,357
REACTOME_ACYL_CHAIN_REMODELLING_OF_PE	20	0.301313	0.895747	0.56513	0.718846	1	5,165
MEISSNER_NPC_ICP_WITH_H3_UNMETHYLATED	23	0.300828	0.924693	0.565966	0.690104	1	2,154
KANG_IMMORTALIZED_BY_TERT_UP	87	0.241091	0.929835	0.566075	0.686667	1	5,083
BAELDE_DIABETIC_NEPHROPATHY_UP	79	0.248168	0.893622	0.566075	0.7213	1	8,230
MIKKELSEN_MCV6_ICP_WITH_H3K27ME3	62	0.262478	0.927276	0.567108	0.68893	1	1,834
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN	23	0.297891	0.916795	0.56746	0.696434	1	8,378
YANG_BREAST_CANCER_ESR1_DN	24	0.284224	0.912316	0.56778	0.700737	1	3,977
KEGG_BUTANOATE_METABOLISM	33	0.295928	0.884035	0.568317	0.726464	1	5,342
GUILLAUMOND_KLF10_TARGETS_DN	30	0.276033	0.92145	0.568359	0.693134	1	6,901
SHAFFER_IRF4_MULTIPLE_MYELOMA_PROGRAM	35	0.298717	0.900814	0.568401	0.712237	1	6,881
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_UV_IN_OLD	24	0.262523	0.930585	0.56875	0.68663	1	4,004
MATZUK_SPERMATOZOA	97	0.220732	0.936958	0.568932	0.682466	1	5,981
DAUER_STAT3_TARGETS_DN	50	0.323912	0.873419	0.569811	0.731542	1	4,840
LANDIS_ERBB2_BREAST_PRENEOPLASTIC_UP	17	0.325374	0.886015	0.57002	0.725537	1	5,908
GNATENKO_PLATELET_SIGNATURE	44	0.295028	0.910358	0.570039	0.702033	1	6,370
BROWNE_HCMV_INFECTION_24HR_UP	139	0.209711	0.925755	0.570577	0.690753	1	3,512
LEIN_MIDBRAIN_MARKERS	76	0.246386	0.924372	0.571429	0.689814	1	7,525
EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION	48	0.291152	0.905563	0.571429	0.706554	1	8,401
PETRETTO_HEART_MASS_QTL_CIS_UP	27	0.269825	0.920412	0.572565	0.693603	1	6,439
REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SUGARS_BILE_SALTS_AND_ORGANIC_ACIDS_METAL_IONS_AND_AMINE_COMPOUNDS	85	0.236455	0.933949	0.572597	0.68429	1	5,462
LANDIS_ERBB2_BREAST_TUMORS_324_UP	142	0.252543	0.885575	0.573441	0.725017	1	5,375
GENTILE_UV_RESPONSE_CLUSTER_D1	18	0.316014	0.888239	0.57393	0.72331	1	1,964
KEGG_TRYPTOPHAN_METABOLISM	39	0.274191	0.900482	0.574338	0.712328	1	4,958
BIOCARTA_MITOCHONDRIA_PATHWAY	21	0.32943	0.907745	0.57485	0.705265	1	4,762
PETRETTO_CARDIAC_HYPERTROPHY	33	0.321343	0.866278	0.575639	0.737271	1	8,401
JISON_SICKLE_CELL_DISEASE_DN	175	0.234374	0.881007	0.575758	0.729527	1	4,358

REACTOME_CIRCADIAN_REPRESSION_OF_EXPRESSION_BY_REV_ERBA	22	0.323946	0.88077	0.576305	0.729088	1	7,532
MCBRYAN_PUBERTAL_BREAST_4_5WK_DN	183	0.21621	0.909872	0.576375	0.702454	1	5,112
LI_PROSTATE_CANCER_EPIGENETIC	30	0.274141	0.90675	0.576923	0.704895	1	4,644
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4	104	0.236706	0.931114	0.577236	0.686961	1	3,077
DAZARD_UV_RESPONSE_CLUSTER_G6	143	0.267494	0.85598	0.577236	0.741093	1	9,043
LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_DN	105	0.26681	0.890217	0.578218	0.722479	1	5,894
LA_MEN1_TARGETS	24	0.290784	0.900022	0.578244	0.712671	1	4,583
KIM_WT1_TARGETS_UP	209	0.238332	0.881797	0.578842	0.728599	1	6,041
JOHNSTONE_PARVB_TARGETS_2_DN	315	0.245605	0.868122	0.579365	0.737156	1	6,156
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP	51	0.297873	0.864928	0.580392	0.737883	1	6,030
URS_ADIPOCYTE_DIFFERENTIATION_DN	30	0.291642	0.876819	0.580645	0.73004	1	6,130
REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA_CELLS	20	0.357852	0.893398	0.580994	0.720826	1	2,437
CHEOK_RESPONSE_TO_MERCAPTOPURINE_AND_LD_MTX_DN	19	0.279181	0.899496	0.582031	0.713181	1	4,701
RIGGI_EWING_SARCOMA_PROGENITOR_DN	175	0.251077	0.875636	0.583162	0.731133	1	7,007
LINDSTEDT_DENDRITIC_CELL_MATURATION_A	65	0.277972	0.880823	0.58349	0.729421	1	3,300
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN	298	0.240491	0.907187	0.584	0.704965	1	6,507
BOYAULT_LIVER_CANCER_SUBCLASS_G1_UP	106	0.24437	0.891006	0.584906	0.721544	1	4,935
BIOCARTA_TEL_PATHWAY	18	0.329912	0.883907	0.587398	0.726254	1	179
WESTON_VEGFA_TARGETS_6HR	57	0.264141	0.859927	0.588	0.739597	1	4,971
GOBERT_CORE_OLIGODENDROCYTE_DIFFERENTIATION	39	0.275923	0.889446	0.588353	0.722952	1	6,486
SENESE_HDAC1_AND_HDAC2_TARGETS_UP	225	0.23658	0.876877	0.588583	0.730356	1	4,037
PEDRIOLI_MIR31_TARGETS_UP	186	0.196318	0.930158	0.58871	0.68651	1	5,109
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_UP	18	0.31991	0.869799	0.589041	0.73639	1	9,196
VALK_AML_CLUSTER_1	27	0.286148	0.879038	0.590643	0.729483	1	5,065
ROME_INSULIN_TARGETS_IN_MUSCLE_UP	412	0.228297	0.867127	0.593511	0.737124	1	6,578
ANDERSEN_CHOLANGIOCARCINOMA_CLASS2	166	0.296456	0.85517	0.593626	0.741651	1	5,716
RODRIGUES_THYROID_CARCINOMA_DN	74	0.248521	0.858782	0.596386	0.739476	1	7,622
WATTEL_AUTONOMOUS_THYROID_ADENOMA_DN	53	0.272547	0.888471	0.596899	0.723346	1	6,439
FERRANDO_HOX11_NEIGHBORS	23	0.314768	0.877363	0.597276	0.730335	1	1,980
RIZ_ERYTHROID_DIFFERENTIATION_6HR	35	0.262562	0.89292	0.597586	0.72033	1	5,536
HASLINGER_B_CLL_WITH_CHROMOSOME_12_TRISOMY	22	0.301959	0.867113	0.597723	0.73672	1	4,921
REACTOME_INHIBITION_OF_VOLTAGE_GATED_CA2_CHANNELS_VIA_GBETA_GAMMA_SUBUNITS	25	0.282132	0.924588	0.598	0.689861	1	5,793
LIAN_NEUTROPHIL_GRANULE_CONSTITUENTS	23	0.315172	0.878367	0.598	0.729851	1	6,099
KEGG_MTOR_SIGNALING_PATHWAY	51	0.224765	0.876048	0.599602	0.730851	1	4,189
RAMPON_ENRICHED_LEARNING_ENVIRONMENT_EARLY_UP	15	0.323854	0.895702	0.6	0.718494	1	6,431
DEBIASI_APOPTOSIS_BY_REOVIRUS_INFECTION_UP	303	0.242643	0.84864	0.6	0.748313	1	5,851
ZHANG_TLX_TARGETS_UP	108	0.225597	0.883127	0.601563	0.727186	1	3,844
REACTOME_SPHINGOLIPID_METABOLISM	63	0.259343	0.861962	0.60202	0.739565	1	6,218

VERHAAK_GLIOBLASTOMA_PRONEURAL	168	0.237654	0.857769	0.602459	0.740864	1	6,939
VANDESLUIS_COMMD1_TARGETS_GROUP_4_UP	19	0.305623	0.919023	0.603272	0.693838	1	1,929
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP	165	0.216347	0.895861	0.603884	0.719082	1	7,590
GAZDA_DIAMOND_BLACKFAN_ANEMIA_ERYTHROID_UP	24	0.268325	0.877432	0.604374	0.730641	1	3,361
CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_DN	98	0.251601	0.856966	0.604697	0.741842	1	3,190
REACTOME_SIGNALING_BY_ERBB4	85	0.230974	0.886479	0.60479	0.725145	1	7,503
REACTOME_ACYL_CHAIN_REMODELLING_OF_PG	15	0.321253	0.892932	0.605364	0.720742	1	1,517
PID_WNT_CANONICAL_PATHWAY	20	0.301756	0.910836	0.60587	0.702019	1	7,084
PASINI_SUZ12_TARGETS_DN	310	0.249443	0.856277	0.606	0.740984	1	6,363
ST_JNK_MAPK_PATHWAY	39	0.267817	0.891254	0.606061	0.721549	1	6,468
ULE_SPLICING_VIA_NOVA2	43	0.269545	0.867906	0.607724	0.73709	1	5,763
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN	30	0.338959	0.869665	0.607884	0.735774	1	6,718
ZHU_CMV_8_HR_UP	45	0.283928	0.839559	0.608108	0.756047	1	7,026
ZHAN_V2_LATE_DIFFERENTIATION_GENES	43	0.274977	0.873654	0.608445	0.731571	1	4,537
KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS	20	0.29788	0.891562	0.608607	0.721414	1	3,951
LANDIS_ERBB2_BREAST_TUMORS_324_DN	144	0.232568	0.892001	0.609037	0.721504	1	7,877
WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_UP	21	0.32628	0.885673	0.609218	0.725268	1	6,099
CAMPS_COLON_CANCER_COPY_NUMBER_DN	52	0.235075	0.920241	0.609375	0.693471	1	4,144
XU_GH1_AUTOCRINE_TARGETS_UP	225	0.20348	0.905541	0.609467	0.706172	1	6,202
SEIDEN_ONCOGENESIS_BY_MET	85	0.294312	0.848733	0.609562	0.748576	1	2,515
MATZUK_CENTRAL_FOR_FEMALE_FERTILITY	27	0.265141	0.879129	0.611554	0.730186	1	6,713
DER_IFN_GAMMA_RESPONSE_UP	71	0.265911	0.830518	0.612967	0.763634	1	7,126
KEGG_BASAL_CELL_CARCINOMA	54	0.256316	0.887551	0.613963	0.723705	1	5,686
CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_UP	72	0.234874	0.892987	0.614458	0.721081	1	5,445
ZHENG_IL22_SIGNALING_DN	39	0.273076	0.893755	0.614605	0.721481	1	9,131
STAMBOLSKY_TARGETS_OF_MUTATED_TP53_DN	46	0.264314	0.825076	0.614943	0.770459	1	5,689
TSENG_IRS1_TARGETS_DN	131	0.216165	0.874789	0.615238	0.730932	1	8,470
JOHNSTONE_PARVB_TARGETS_1_DN	57	0.284733	0.863898	0.616	0.738825	1	4,602
SENESE_HDAC1_AND_HDAC2_TARGETS_DN	211	0.218603	0.860546	0.617063	0.740255	1	6,024
SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73_DN	30	0.289859	0.885429	0.618	0.724873	1	2,942
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	60	0.260089	0.874959	0.618577	0.731043	1	5,524
VARELA_ZMPSTE24_TARGETS_UP	38	0.263944	0.84961	0.618861	0.748346	1	3,255
WONG_IFNA2_RESISTANCE_DN	31	0.256883	0.893431	0.619141	0.721209	1	5,632
WILLIAMS_ESR2_TARGETS_UP	25	0.278655	0.875614	0.619632	0.730746	1	4,209
REACTOME_SIGNALLING_TO_ERKS	35	0.271719	0.880256	0.619718	0.729052	1	5,071
PHONG_TNF_RESPONSE_VIA_P38_COMPLETE	221	0.21534	0.859955	0.62	0.739965	1	8,231
DOANE_RESPONSE_TO_ANDROGEN_DN	230	0.201568	0.903834	0.620553	0.708275	1	3,934
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM5	83	0.222539	0.900982	0.620759	0.71238	1	4,377
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	24	0.301716	0.865114	0.621094	0.737972	1	8,340

NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	119	0.264045	0.806586	0.621118	0.782252	1	6,485
IVANOVA_HEMATOPOIESIS_STEM_CELL_SHORT_TERM	29	0.276414	0.859661	0.621677	0.739232	1	6,520
RICKMAN_HEAD_AND_NECK_CANCER_E	80	0.251137	0.879242	0.622093	0.730427	1	6,362
SAKAI_TUMOR_INFILTRATING_MONOCYTES_UP	27	0.28716	0.880387	0.62395	0.729268	1	9,052
WAMUNYOKOLI_OVARIAN_CANCER_LMP_UP	250	0.304047	0.831683	0.626775	0.762077	1	5,329
AGUIRRE_PANCREATIC_CANCER_COPY_NUMBER_DN	228	0.211405	0.860411	0.626984	0.740053	1	6,395
ROY_WOUND_BLOOD_VESSEL_DN	22	0.303658	0.814764	0.627413	0.778845	1	5,506
DORSAM_HOXA9_TARGETS_UP	35	0.253359	0.872984	0.627953	0.731811	1	6,111
LIM_MAMMARY_STEM_CELL_UP	459	0.254192	0.814724	0.628	0.77849	1	7,301
KUNINGER_IGF1_VS_PDGFB_TARGETS_DN	43	0.264908	0.859328	0.628231	0.739364	1	3,942
REACTOME_OTHER_SEMAPHORIN_INTERACTIONS	15	0.315166	0.856314	0.628283	0.741328	1	8,834
NAKAMURA_ADIPOGENESIS_LATE_DN	37	0.29577	0.84623	0.628514	0.750247	1	5,259
PLASARI_NFIC_TARGETS_BASAL_DN	18	0.31485	0.860826	0.629328	0.740629	1	6,734
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_DN	22	0.274696	0.845646	0.630108	0.750817	1	3,710
MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_DN	29	0.263699	0.863198	0.630522	0.73874	1	5,998
LINSLEY_MIR16_TARGETS	190	0.223818	0.867829	0.630832	0.736793	1	7,295
MCGARVEY_SILENCED_BY_METHYLATION_IN_COLON_CANCER	39	0.265734	0.859757	0.63189	0.739484	1	7,400
SENESE_HDAC2_TARGETS_DN	118	0.22482	0.852302	0.631985	0.745097	1	8,255
REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_EXPRESSION	33	0.290923	0.842985	0.632735	0.752372	1	5,881
KORKOLA_YOLK_SAC_TUMOR	57	0.237938	0.879076	0.632937	0.729844	1	6,910
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_DN	41	0.255237	0.877117	0.633333	0.730342	1	6,806
HUANG_DASATINIB_RESISTANCE_DN	66	0.253634	0.836223	0.633858	0.757431	1	3,420
HOEBEKE_LYMPHOID_STEM_CELL_DN	83	0.240341	0.855462	0.634241	0.74157	1	5,826
REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	29	0.287515	0.849866	0.635815	0.748358	1	6,322
ABE_VEGFA_TARGETS_30MIN	28	0.272756	0.826635	0.636719	0.768729	1	2,630
MATZUK_SPERMATOGONIA	22	0.26902	0.862431	0.636727	0.739211	1	2,604
JAATINEN_HEMATOPOIETIC_STEM_CELL_UP	293	0.21053	0.86656	0.638075	0.737212	1	4,019
NAKAMURA_ADIPOGENESIS_EARLY_DN	38	0.298888	0.832126	0.638776	0.761744	1	5,259
FARMER_BREAST_CANCER_APOCRINE_VS_BASAL	317	0.206039	0.846753	0.639053	0.750224	1	5,745
MOSERLE_IFNA_RESPONSE	31	0.396375	0.836819	0.639155	0.757249	1	9,151
CUI_TCF21_TARGETS_DN	31	0.26124	0.859111	0.639583	0.739326	1	6,218
ROESSLER_LIVER_CANCER_METASTASIS_UP	101	0.214282	0.866042	0.639676	0.737248	1	3,639
BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_DN	29	0.307124	0.833679	0.640777	0.760389	1	7,887
LIU_SMARCA4_TARGETS	59	0.242389	0.851345	0.641326	0.746314	1	6,718
HOELZEL_NF1_TARGETS_DN	103	0.241737	0.808516	0.641584	0.781592	1	9,222
JAEGER_METASTASIS_DN	252	0.215063	0.836943	0.642857	0.75746	1	6,174
LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	16	0.30013	0.868606	0.643585	0.736767	1	4,558
NIKOLSKY_BREAST_CANCER_17Q11_Q21_AMPLICON	117	0.236066	0.841165	0.64381	0.754984	1	4,931
TAKADA_GASTRIC_CANCER_COPY_NUMBER_DN	26	0.294926	0.823076	0.644898	0.772098	1	6,531

GRADE_COLON_CANCER_DN	30	0.270203	0.856915	0.645418	0.741526	1	8,108
BIOCARTA_CHREBP2_PATHWAY	40	0.249364	0.804437	0.645621	0.78323	1	4,971
NIKOLSKY_BREAST_CANCER_8P12_P11_AMPLICON	48	0.271685	0.818454	0.646602	0.776043	1	6,822
OKUMURA_INFLAMMATORY_RESPONSE_LPS	169	0.207744	0.867276	0.64728	0.737298	1	7,350
BOWIE_RESPONSE_TO_EXTRACELLULAR_MATRIX	17	0.394773	0.813614	0.64775	0.779542	1	8,336
YAGI_AML_WITH_INV_16_TRANSLOCATION	405	0.191521	0.887767	0.64902	0.72373	1	6,015
FAELT_B_CLL_WITH_VH_REARRANGEMENTS_UP	47	0.239438	0.853987	0.649505	0.742734	1	9,674
GEISS_RESPONSE_TO_DSRNA_DN	15	0.294976	0.856412	0.649695	0.74157	1	7,608
MEISSNER_BRAIN_HCP_WITH_H3K4ME2_AND_H3K27ME3	57	0.238871	0.886011	0.650699	0.725115	1	4,535
REACTOME_EGFR_DOWNREGULATION	25	0.274072	0.869725	0.651822	0.736095	1	7,608
LOPES_METHYLATED_IN_COLON_CANCER_UP	26	0.276317	0.874412	0.653992	0.731148	1	3,986
BILBAN_B_CLL_LPL_DN	42	0.273515	0.854174	0.654762	0.742857	1	7,567
REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PROSTACYCLIN_RECEPTOR	19	0.299981	0.823451	0.655378	0.771903	1	7,290
BIOCARTA_ETS_PATHWAY	18	0.285096	0.844354	0.655577	0.7505	1	3,227
DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_DN	20	0.285983	0.844613	0.656	0.75091	1	4,399
JOHNSTONE_PARVB_TARGETS_2_UP	131	0.231766	0.839954	0.65643	0.755831	1	4,380
RODRIGUES_NTN1_TARGETS_UP	16	0.315671	0.818701	0.656566	0.776069	1	5,643
THEODOROU_MAMMARY_TUMORIGENESIS	27	0.272404	0.846553	0.65762	0.75011	1	4,502
REACTOME_G_PROTEIN_ACTIVATION	25	0.286947	0.824825	0.658683	0.770453	1	7,290
LE_EGR2_TARGETS_DN	106	0.220834	0.86371	0.659044	0.738297	1	6,806
RADAEVA_RESPONSE_TO_IFNA1_UP	52	0.280558	0.766668	0.660819	0.812511	1	7,026
BOYLAN_MULTIPLE_MYELOMA_D_UP	84	0.215114	0.863971	0.661225	0.739115	1	7,903
PID_ATF2_PATHWAY	58	0.237065	0.837111	0.661479	0.757581	1	6,584
KIM_GERMINAL_CENTER_T_HELPER_DN	23	0.283186	0.812682	0.662028	0.779404	1	3,279
AMIT_EGF_RESPONSE_60_MCF10A	37	0.266027	0.796897	0.662264	0.789951	1	5,280
REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN_TTP	17	0.289098	0.826694	0.662385	0.769059	1	7,922
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN	32	0.262004	0.848626	0.663223	0.747915	1	7,944
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_DN	178	0.219035	0.860364	0.663366	0.73971	1	6,506
BIOCARTA_CDMAC_PATHWAY	16	0.29636	0.849308	0.663386	0.748023	1	8,242
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_7	371	0.19702	0.85669	0.663405	0.741503	1	6,218
WANG_CLIM2_TARGETS_DN	177	0.225095	0.807678	0.664032	0.782089	1	7,136
HOLLEMAN_VINCRISTINE_RESISTANCE_B_ALL_UP	37	0.250438	0.869192	0.664596	0.736197	1	4,917
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN	43	0.279656	0.785667	0.665289	0.798772	1	6,884
ONDER_CDH1_SIGNALING_VIA_CTNNB1	79	0.247147	0.81743	0.665323	0.7769	1	7,092
GRUETZMANN_PANCREATIC_CANCER_UP	348	0.233374	0.79668	0.665377	0.789867	1	7,265
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_LOBULAR_NORMAL_UP	93	0.237	0.838259	0.667315	0.756953	1	5,310
MCBRYAN_PUBERTAL_BREAST_4_5WK_UP	259	0.207599	0.877758	0.667343	0.730505	1	5,036
REACTOME_NOTCH1_INTRACELLULAR_DOMAIN_REGULATES_TRANSCRIPTION	45	0.220471	0.860565	0.668024	0.740637	1	8,751
HAHTOLA_SEZARY_SYNDROM_UP	93	0.228251	0.841069	0.668593	0.754739	1	5,559

RASHI_RESPONSE_TO_IONIZING_RADIATION_2	124	0.221459	0.828447	0.669261	0.766574	1	7,289
HUANG_DASATINIB_RESISTANCE_UP	79	0.248819	0.762585	0.669291	0.813859	1	3,305
KEGG_PRION_DISEASES	34	0.268057	0.825751	0.669339	0.76977	1	3,179
REACTOME_DOWNREGULATION_OF_TGF_BETA_RECEPTOR_SIGNALING	22	0.270272	0.82148	0.669941	0.773507	1	4,269
LIN_MELANOMA_COPY_NUMBER_DN	41	0.264512	0.802562	0.670611	0.784575	1	9,576
ZWANG_EGF_INTERVAL_UP	82	0.213874	0.8886	0.670757	0.723978	1	5,923
FIGUEROA_AML_METHYLATION_CLUSTER_1_UP	108	0.20437	0.863745	0.671233	0.738656	1	8,008
REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS	81	0.22528	0.849466	0.671315	0.748168	1	5,918
LIN_NPAS4_TARGETS_UP	147	0.210704	0.832144	0.671343	0.762127	1	8,224
REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_Glutamate_BINDING_AND_ACTIVATION	15	0.319947	0.804296	0.671343	0.783017	1	2,870
REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE	30	0.26624	0.833812	0.673152	0.76059	1	4,208
CROMER_METASTASIS_UP	78	0.224409	0.794424	0.673152	0.791906	1	8,975
CARD_MIR302A_TARGETS	76	0.241461	0.788032	0.673828	0.797972	1	7,492
KEGG_PEROXISOME	78	0.245672	0.802917	0.674847	0.784423	1	6,690
LEE_CALORIE_RESTRICTION_MUSCLE_DN	50	0.232738	0.878888	0.675097	0.729346	1	5,970
SAKAI_CHRONIC_HEPATITIS_VS_LIVER_CANCER_UP	80	0.246237	0.762798	0.675835	0.814351	1	6,450
WELCSH_BRCA1_TARGETS_UP	193	0.218654	0.78315	0.675944	0.80069	1	3,877
WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_WITH_H4K20ME1_MARK	132	0.209514	0.812269	0.677551	0.779242	1	4,695
FISCHER_DIRECT_P53_TARGETS_META_ANALYSIS	292	0.197454	0.875059	0.678279	0.731288	1	7,030
REACTOME_POTASSIUM_CHANNELS	94	0.225506	0.804648	0.679671	0.783306	1	4,915
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP	106	0.217036	0.844737	0.680392	0.751115	1	3,331
DING_LUNG_CANCER_EXPRESSION_BY_COPY_NUMBER	98	0.229096	0.765446	0.680473	0.812293	1	6,822
BAKER_HEMATOPOIESIS_STAT3_TARGETS	16	0.306396	0.803044	0.681018	0.784634	1	1,172
ZHOU_INFLAMMATORY_RESPONSE_LPS_UP	361	0.197864	0.873941	0.681641	0.731495	1	6,337
VERHAAK_AML_WITH_NPM1_MUTATED_UP	175	0.217872	0.777163	0.681818	0.804068	1	6,099
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN	107	0.218448	0.845622	0.682	0.750437	1	4,611
CHEOK_RESPONSE_TO_HD_MTX_DN	24	0.290088	0.814421	0.683128	0.778579	1	4,784
ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP	423	0.196961	0.862584	0.683267	0.739357	1	5,353
WANG_RECURRENT_LIVER_CANCER_DN	16	0.298938	0.795053	0.683468	0.791702	1	3,076
REACTOME_REGULATION_OF_HYPOXIA_INDUCIBLE_FACTOR_HIF_BY_OXYGEN	24	0.264477	0.821917	0.685259	0.773205	1	8,331
PID_TELOMERASE_PATHWAY	67	0.234052	0.808686	0.685259	0.781709	1	7,567
PID_CERAMIDE_PATHWAY	48	0.235233	0.847776	0.685658	0.748874	1	2,473
MCCABE_HOXC6_TARGETS_CANCER_DN	20	0.299964	0.805943	0.686047	0.782453	1	6,294
RICKMAN_TUMOR_DIFFERENTIATED_MODERATELY_VS_POORLY_UP	114	0.219854	0.812426	0.686538	0.779403	1	6,648
WEI_MIR34A_TARGETS	142	0.209468	0.786997	0.686869	0.797942	1	5,738
TIEN_INTESTINE_PROBIOTICS_6HR_DN	159	0.210957	0.79963	0.687008	0.786841	1	7,866
RODWELL_AGING_KIDNEY_NO_BLOOD_UP	206	0.224131	0.778459	0.687251	0.804152	1	5,927
DANG_REGULATED_BY_MYC_DN	245	0.214807	0.813313	0.688716	0.779215	1	6,702

TSAI_RESPONSE_TO_RADIATION_THERAPY	32	0.285991	0.798034	0.690141	0.788948	1	5,655
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_DN	97	0.217403	0.809583	0.691837	0.780632	1	6,814
KEGG_TYROSINE_METABOLISM	42	0.24216	0.838253	0.692	0.756547	1	3,831
SUNG_METASTASIS_STROMA_UP	106	0.22604	0.777452	0.692153	0.80446	1	7,781
TRAYNOR_RETT_SYNDROM_UP	40	0.265989	0.812975	0.693252	0.779335	1	10,562
ZHAN_MULTIPLE_MYELOMA_MF_UP	43	0.237302	0.840669	0.693548	0.755013	1	4,526
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	442	0.22834	0.743213	0.693548	0.831848	1	6,261
SWEET_KRAS_TARGETS_UP	80	0.242396	0.773004	0.693837	0.805672	1	5,516
LANG_MYB_FAMILY_TARGETS	29	0.260827	0.800033	0.69505	0.787442	1	5,943
REACTOME_NOD1_2_SIGNALING_PATHWAY	29	0.260441	0.79987	0.695473	0.786882	1	3,676
NUNODA_RESPONSE_TO_DASATINIB_IMATINIB_UP	29	0.256124	0.79706	0.696	0.79011	1	7,463
DARWICHE_PAPILLOMA_PROGRESSION_RISK	67	0.212951	0.882723	0.696203	0.727469	1	6,525
HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP	76	0.231441	0.796589	0.696907	0.789625	1	6,475
BROWNE_HCMV_INFECTION_4HR_UP	52	0.24142	0.808288	0.697318	0.781546	1	7,136
REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION	87	0.226759	0.79061	0.697856	0.795947	1	5,998
PID_TAP63_PATHWAY	54	0.241321	0.805162	0.698189	0.782882	1	7,030
KANG_GLIS3_TARGETS	37	0.26697	0.704793	0.698381	0.852308	1	4,892
SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_UP	161	0.219473	0.786346	0.698656	0.798572	1	5,922
LABBE_TGFB1_TARGETS_UP	98	0.212304	0.822951	0.699029	0.77187	1	6,800
PETRETTO_HEART_MASS_QTL_CIS_DN	22	0.267562	0.817228	0.701149	0.776416	1	7,198
TCGA_GLIOBLASTOMA_COPY_NUMBER_DN	30	0.269411	0.78295	0.702	0.800568	1	7,934
PID_HDAC_CLASSIII_PATHWAY	24	0.264091	0.821265	0.702869	0.773455	1	8,751
PID_INSULIN_GLUCOSE_PATHWAY	25	0.255397	0.817319	0.704453	0.776687	1	5,462
CLIMENT_BREAST_CANCER_COPY_NUMBER_UP	23	0.26225	0.833256	0.704782	0.760693	1	2,930
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_UP	102	0.201422	0.816056	0.705645	0.777148	1	5,810
SIMBULAN_UV_RESPONSE_IMMORTALIZED_DN	31	0.274067	0.74235	0.706	0.832237	1	2,586
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_UP	315	0.182877	0.885003	0.706458	0.725203	1	6,428
GARCIA_TARGETS_OF_FLI1_AND_DAX1_UP	53	0.218721	0.837581	0.708595	0.757237	1	5,883
KYNG_WERNER_SYNDROM_UP	19	0.268443	0.835958	0.710173	0.757469	1	6,227
HINATA_NFKB_TARGETS_KERATINOCYTE_UP	90	0.224066	0.772607	0.710332	0.805465	1	978
PENG_GLUCOSE_DEPRIVATION_DN	163	0.194609	0.785802	0.710983	0.798984	1	3,697
GAZIN_EPIGENETIC_SILENCING_BY_KRAS	25	0.24885	0.836786	0.711066	0.756885	1	5,829
TOMLINS_PROSTATE_CANCER_UP	39	0.241771	0.769589	0.711423	0.809314	1	5,256
LIU_CDX2_TARGETS_UP	34	0.271155	0.8073	0.711656	0.782286	1	6,041
NATSUME_RESPONSE_TO_INTERFERON_BETA_UP	71	0.22091	0.838943	0.713147	0.75624	1	4,897
MARTINEZ_RESPONSE_TO_TRABECTEDIN_DN	265	0.205165	0.737461	0.713726	0.835754	1	5,356
VERRECCHIA_RESPONSE_TO_TGFB1_C1	19	0.28749	0.778421	0.714004	0.803793	1	1,830
LEIN_LOCALIZED_TO_DISTAL_AND_PROXIMAL_DENDRITES	15	0.302309	0.765605	0.714579	0.813266	1	7,578
KYNG_DNA_DAMAGE_DN	190	0.196604	0.80706	0.7154	0.782278	1	5,579

DARWICHE_PAPILLOMA_RISK_HIGH_DN	159	0.190531	0.871838	0.716535	0.733331	1	5,861
PARK_APL_PATHOGENESIS_DN	48	0.242854	0.769329	0.716535	0.809304	1	6,523
REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT	30	0.271315	0.756319	0.717063	0.81959	1	3,983
SENESE_HDAC2_TARGETS_UP	108	0.227813	0.746371	0.718686	0.830464	1	4,037
DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOIDS	21	0.283687	0.776049	0.719536	0.805004	1	7,315
GUO_HEX_TARGETS_UP	81	0.220574	0.780568	0.719665	0.80175	1	7,514
MIKKELSEN_MEF_ICP_WITH_H3K27ME3	179	0.198435	0.839361	0.720165	0.755957	1	5,215
REACTOME_OXYGEN_DEPENDENT_PROLINE_HYDROXYLATION_OF_HYPOXIA_INDUCIBLE_FACTOR_ALPHA	17	0.278314	0.766368	0.720703	0.812528	1	8,331
BERNARD_PPAPDC1B_TARGETS_UP	36	0.241574	0.78494	0.720833	0.799082	1	7,233
LIM_MAMMARY_STEM_CELL_DN	410	0.21879	0.745249	0.721649	0.831727	1	6,049
ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	212	0.209161	0.71885	0.723529	0.845477	1	7,265
EHLERS_ANEUPLOIDY_UP	40	0.244706	0.800547	0.723577	0.787031	1	7,976
TAVAZOIE_METASTASIS	100	0.217933	0.818267	0.723658	0.775956	1	5,922
NAKAYAMA_FRA2_TARGETS	41	0.239921	0.785327	0.725681	0.798895	1	1,419
IWANAGA_CARCIINOGENESIS_BY_KRAS_UP	158	0.189267	0.845152	0.726358	0.750833	1	3,187
MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_6	47	0.218966	0.780975	0.726695	0.802355	1	5,628
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_UP	223	0.192382	0.811342	0.726708	0.779851	1	5,981
ZHANG_INTERFERON_RESPONSE	22	0.294428	0.666354	0.726755	0.881123	1	7,026
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP	100	0.225279	0.752167	0.726923	0.824322	1	6,363
BRUECKNER_TARGETS_OF_MIRLET7A3_DN	73	0.235857	0.736813	0.727455	0.835046	1	5,631
NADLER_HYPERGLYCEMIA_AT_OBESITY	56	0.217721	0.805312	0.727619	0.783053	1	4,532
COATES_MACROPHAGE_M1_VS_M2_DN	73	0.213103	0.844485	0.728543	0.750697	1	8,528
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_UP	19	0.278854	0.781255	0.728601	0.802761	1	5,128
KIM_MYCL1_AMPLIFICATION_TARGETS_DN	19	0.268992	0.78731	0.731313	0.798677	1	5,386
BILANGES_SERUM_RESPONSE_TRANSLATION	33	0.261645	0.668838	0.731898	0.880292	1	1,972
ELVIDGE_HYPOXIA_BY_DMOG_DN	56	0.223707	0.783317	0.734252	0.800836	1	6,259
SEKI_INFLAMMATORY_RESPONSE_LPS_UP	76	0.229939	0.732266	0.735471	0.836968	1	5,248
NUTT_GBM_VS_AO_GLIOMA_UP	46	0.241929	0.737067	0.7357	0.835511	1	5,310
AMIT_EGF_RESPONSE_40_MCF10A	19	0.270422	0.730645	0.736434	0.837982	1	7,922
MCCLUNG_CREB1_TARGETS_UP	95	0.206649	0.801252	0.737452	0.786276	1	6,268
PID_HIF1_TFPATHWAY	65	0.222513	0.789809	0.738	0.796766	1	2,357
JI_CARCIINOGENESIS_BY_KRAS_AND_STK11_DN	17	0.315931	0.688957	0.738372	0.865398	1	5,905
BIOCARTA_PTDINS_PATHWAY	23	0.26152	0.787155	0.738431	0.798093	1	5,530
PUIFFE_INVASION_INHIBITED_BY_ASCITES_DN	141	0.204506	0.755899	0.738636	0.819823	1	7,008
KHETCHOUMIAN_TRIM24_TARGETS_UP	47	0.245816	0.765223	0.739044	0.811823	1	3,661
FARMER_BREAST_CANCER_CLUSTER_4	19	0.413402	0.744965	0.739563	0.83131	1	18,646
FRASOR_TAMOXIFEN_RESPONSE_UP	50	0.220984	0.787232	0.740964	0.798381	1	5,065
MULLIGHAN_NPM1_MUTATED_SIGNATURE_2_UP	127	0.191424	0.792663	0.741107	0.79391	1	7,901

DAZARD_RESPONSE_TO_UV_SCC_DN	119	0.207943	0.756477	0.742	0.820167	1	7,546
SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER	84	0.205829	0.82439	0.743243	0.770755	1	7,313
GAVIN_FOXP3_TARGETS_CLUSTER_T7	95	0.215943	0.739213	0.743487	0.835193	1	899
TUOMISTO_TUMOR_SUPPRESSION_BY_COL13A1_UP	18	0.279594	0.777356	0.743833	0.80419	1	5,451
BOYLAN_MULTIPLE_MYELOMA_C_UP	45	0.216089	0.813496	0.743902	0.779334	1	5,994
MIKKELSEN_IPS_ICP_WITH_H3K4ME3_AND_H327ME3	114	0.196327	0.819984	0.744186	0.774703	1	5,653
MURATA_VIRULENCE_OF_H_PILORI	24	0.263631	0.811134	0.744511	0.779364	1	4,804
FRIDMAN_SENESCENCE_UP	77	0.227466	0.761631	0.745527	0.814901	1	6,379
SA_TRKA_RECEPTOR	17	0.288457	0.77424	0.745902	0.805767	1	5,248
JIANG_AGING_HYPOTHALAMUS_UP	46	0.2455	0.722598	0.746183	0.84358	1	5,298
GEISS_RESPONSE_TO_DSRNA_UP	37	0.246188	0.733027	0.747059	0.836348	1	3,776
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_UP	30	0.250209	0.749941	0.75	0.826374	1	6,669
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	88	0.216799	0.722546	0.750484	0.842824	1	7,520
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_DN	18	0.257293	0.76525	0.750973	0.812193	1	9,694
HSIAO_LIVER_SPECIFIC_GENES	235	0.218941	0.784212	0.751046	0.799786	1	6,698
DARWICHE_PAPILLOMA_RISK_LOW_DN	149	0.189178	0.861451	0.752016	0.740002	1	5,861
TAKAO_RESPONSE_TO_UVB_RADIATION_DN	96	0.206603	0.745061	0.752495	0.831588	1	3,919
MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_UP	63	0.211667	0.744718	0.756436	0.831259	1	7,243
YIH_RESPONSE_TO_ARSENITE_C2	18	0.276397	0.722723	0.756539	0.844221	1	10,430
MONNIER_POSTRADIATION_TUMOR_ESCAPE_UP	377	0.18398	0.775453	0.758691	0.804702	1	6,487
ZHAN_MULTIPLE_MYELOMA_SPIKED	21	0.243017	0.788824	0.758879	0.797106	1	6,236
AMIT_SERUM_RESPONSE_60_MCF10A	56	0.234917	0.732209	0.759443	0.836642	1	7,920
SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP	154	0.209371	0.740583	0.759615	0.834005	1	6,435
WESTON_VEGFA_TARGETS_12HR	35	0.238634	0.730005	0.7607	0.838068	1	4,129
BOSCO_EPITHELIAL_DIFFERENTIATION_MODULE	66	0.24404	0.739816	0.760784	0.834706	1	6,200
LEE_CALORIE_RESTRICTION_NEOCORTEX_DN	84	0.205958	0.789014	0.762097	0.797638	1	6,763
REACTOME_AMINE_DERIVED_HORMONES	15	0.274323	0.773639	0.762295	0.8059	1	5,064
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_UP	165	0.195083	0.800033	0.763486	0.787028	1	8,113
BURTON_ADIPOGENESIS_PEAK_AT_8HR	39	0.232093	0.73503	0.764591	0.836401	1	5,438
PID_PRL_SIGNALING_EVENTS_PATHWAY	23	0.2612	0.759373	0.765166	0.817068	1	2,387
CHOW_RASSF1_TARGETS_UP	27	0.243864	0.765467	0.766932	0.813082	1	7,355
JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_DN	44	0.239425	0.750143	0.768612	0.826481	1	4,320
AMIT_EGF_RESPONSE_40_HELA	42	0.240053	0.720568	0.768932	0.844331	1	1,950
MATZUK_MALE_REPRODUCTION_SERTOLI	28	0.241365	0.806106	0.769072	0.782596	1	4,080
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	156	0.20183	0.735785	0.76908	0.835702	1	2,559
FLORIO_HUMAN_NEOCORTEX	31	0.248527	0.795009	0.770021	0.791361	1	4,541
TSUNODA_CISPLATIN_RESISTANCE_DN	48	0.216688	0.773423	0.770325	0.805816	1	6,710
KEGG_O_GLYCAN_BIOSYNTHESIS	26	0.257814	0.736922	0.770459	0.835298	1	1,681
LEE_LIVER_CANCER_CIPROFIBRATE_UP	60	0.214689	0.816782	0.771203	0.776713	1	4,118

AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP	116	0.214473	0.716392	0.77176	0.845925	1	5,259
HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_DN	68	0.209297	0.820228	0.772	0.774732	1	7,694
REACTOME_TRAFFICKING_OF_GLUR2_CONTAINING_AMPA_RECEPTORS	15	0.270234	0.775774	0.77439	0.805033	1	1,198
ZHU_CMV_24_HR_DN	88	0.222666	0.696142	0.7749	0.85875	1	6,395
KIM_WT1_TARGETS_12HR_UP	156	0.198639	0.768848	0.775051	0.80963	1	6,884
BIOCARTA_ERK_PATHWAY	28	0.246119	0.773034	0.77572	0.806036	1	7,573
FLECHNER_PBL_KIDNEY_TRANSPLANT_REJECTED_VS_OK_UP	62	0.208951	0.72138	0.777351	0.843609	1	5,963
ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	256	0.182296	0.81075	0.778865	0.779565	1	6,474
MANTOVANI_NFKB_TARGETS_UP	42	0.222346	0.774993	0.779381	0.805041	1	3,315
YIH_RESPONSE_TO_ARSENITE_C4	17	0.260794	0.75968	0.779497	0.81704	1	6,963
LOPEZ_TRANSLATION_VIA_FN1_SIGNALING	34	0.217257	0.777724	0.780287	0.804441	1	8,169
PID_VEGFR1_PATHWAY	26	0.23919	0.710186	0.780684	0.849931	1	5,317
WILCOX_RESPONSE_TO_PROGESTERONE_DN	64	0.225595	0.723571	0.780738	0.843888	1	6,725
ROZANOV_MMP14_TARGETS_DN	31	0.23208	0.809673	0.781746	0.780902	1	4,566
DORSEY_GAB2_TARGETS	31	0.246971	0.750208	0.782123	0.826796	1	4,411
NAKAMURA_METASTASIS_MODEL_DN	41	0.225532	0.780787	0.782178	0.802228	1	1,977
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_DN	20	0.288767	0.655275	0.783038	0.890424	1	5,743
GALINDO_IMMUNE_RESPONSE_TO_ENTEROTOXIN	81	0.214484	0.713064	0.783366	0.848453	1	3,274
WANG_RESPONSE_TO_BEXAROTENE_UP	32	0.222915	0.788871	0.784274	0.797451	1	4,052
STEIN_ESTROGEN_RESPONSE_NOT_VIA_ESRRA	18	0.247382	0.744433	0.784314	0.830816	1	5,963
MCCLUNG_COCAINE_REWARD_5D	76	0.211196	0.790773	0.784553	0.796076	1	3,969
NABA_PROTEOGLYCANS	32	0.244239	0.708543	0.787402	0.849301	1	9,731
ZEMBUTSU_SENSITIVITY_TO_DOXORUBICIN	15	0.265987	0.792713	0.7875	0.794253	1	6,296
DELYS_THYROID_CANCER_UP	436	0.187923	0.75651	0.790607	0.820522	1	4,419
LANDIS_ERBB2_BREAST_TUMORS_65_DN	36	0.237318	0.738303	0.791749	0.835306	1	8,892
XU_GH1_AUTOCRINE_TARGETS_DN	133	0.187831	0.763579	0.791919	0.813971	1	6,694
DELACROIX_RAR_TARGETS_DN	24	0.236811	0.763282	0.792	0.813992	1	3,609
SHARMA_PILOCYTIC_ASTROCYTOMA_LOCATION_UP	22	0.267854	0.721888	0.792157	0.843314	1	4,518
LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_UP	71	0.203765	0.772799	0.792415	0.805582	1	5,674
BIOCARTA_RACCYCD_PATHWAY	26	0.239965	0.722705	0.793436	0.843832	1	8,280
STEARMAN_TUMOR_FIELD_EFFECT_UP	34	0.247286	0.682259	0.794059	0.87039	1	7,060
MAHAJAN_RESPONSE_TO_IL1A_DN	72	0.218925	0.737291	0.794239	0.835589	1	4,551
SENESE_HDAC1_TARGETS_DN	234	0.183509	0.76151	0.794521	0.814687	1	7,654
BURTON_ADIPOGENESIS_7	49	0.224959	0.737586	0.794821	0.835982	1	5,653
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	66	0.206426	0.781089	0.796512	0.802588	1	6,609
BOYLAN_MULTIPLE_MYELOMA_C_D_UP	131	0.185019	0.77618	0.796813	0.805201	1	1,630
VANDESLUIS_NORMAL_EMBRYOS_DN	23	0.255538	0.775472	0.796875	0.805086	1	5,821
SNIJDERS_AMPLIFIED_IN_HEAD_AND_NECK_TUMORS	37	0.229965	0.714316	0.797101	0.847149	1	3,764
REACTOME_PRE_NOTCH_TRANSCRIPTION_AND_TRANSLATION	23	0.237538	0.702514	0.797131	0.852831	1	7,692

BIOCARTA_NO1_PATHWAY	29	0.227734	0.719415	0.801619	0.845121	1	8,053
IGLESIAS_E2F_TARGETS_UP	149	0.207309	0.680609	0.801942	0.871558	1	9,281
RIGGINS_TAMOXIFEN_RESISTANCE_UP	65	0.207793	0.806925	0.804391	0.782108	1	5,342
WESTON_VEGFA_TARGETS	104	0.203322	0.717299	0.805825	0.846351	1	4,971
PARK_HSC_AND_MULTIPOTENT_PROGENITORS	49	0.205735	0.711805	0.806142	0.849746	1	6,066
MISSIAGLIA_REGULATED_BY_METHYLATION_UP	116	0.208037	0.703129	0.806324	0.853265	1	5,851
PLASARI_TGFB1_TARGETS_10HR_UP	196	0.188238	0.728687	0.806452	0.839098	1	5,280
GENTILE_UV_RESPONSE_CLUSTER_D4	54	0.215115	0.668472	0.806773	0.880321	1	6,573
RODWELL_AGING_KIDNEY_NO_BLOOD_DN	142	0.196771	0.704474	0.806841	0.852294	1	6,806
LIU_NASOPHARYNGEAL_CARCINOMA	65	0.201772	0.762617	0.807054	0.814225	1	6,393
WATANABE_ULCERATIVE_COLITIS_WITH_CANCER_UP	17	0.250499	0.698094	0.807843	0.856614	1	5,393
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN	115	0.193398	0.71741	0.80791	0.846614	1	6,308
KAMIKUBO_MYELOID_CEBPA_NETWORK	27	0.260367	0.756441	0.808061	0.819818	1	7,568
LEE_AGING_NEOCORTEX_DN	76	0.211194	0.811465	0.808219	0.780083	1	6,368
PID_FRA_PATHWAY	36	0.232679	0.729913	0.809237	0.837793	1	5,317
YANAGIHARA_ESX1_TARGETS	29	0.248755	0.707948	0.810865	0.849314	1	3,895
NOUSHMEHR_GBM_SILENCED_BY_METHYLATION	47	0.214033	0.747801	0.811088	0.828771	1	7,117
KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG	25	0.253225	0.630615	0.812371	0.909075	1	3,983
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_WITH_LMP1_DN	162	0.199994	0.819954	0.8125	0.774332	1	2,870
LIU_IL13_PRIMING_MODEL	15	0.267831	0.728304	0.813592	0.83922	1	8,161
ENK_UV_RESPONSE_KERATINOCYTE_DN	480	0.17936	0.664973	0.813627	0.881505	1	6,996
KYNG_NORMAL_AGING_DN	27	0.234079	0.711157	0.814815	0.849818	1	6,628
CHYLA_CBFA2T3_TARGETS_DN	216	0.182161	0.816773	0.814961	0.77631	1	5,108
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_UP	421	0.186716	0.613271	0.815195	0.919164	1	6,023
KAAB_HEART_ATRIUM_VS_VENTRICLE_UP	244	0.185409	0.728279	0.815324	0.838842	1	6,337
IKEDA_MIR30_TARGETS_DN	26	0.24905	0.710169	0.815789	0.849544	1	4,177
MEISSNER_NPC_HCP_WITH_H3K4ME2	464	0.170219	0.811292	0.816206	0.779512	1	6,323
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	67	0.217421	0.708331	0.816327	0.8492	1	4,009
MANTOVANI_VIRAL_GPCR_SIGNALING_DN	45	0.210474	0.792344	0.81761	0.794005	1	1,379
NIKOLSKY_BREAST_CANCER_11Q12_Q14_AMPLICON	140	0.188132	0.699841	0.817647	0.855147	1	1,548
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_DN	15	0.270198	0.753243	0.817805	0.823105	1	3,439
VANDESLUIS_COMMD1_TARGETS_GROUP_4_DN	15	0.259087	0.715159	0.818725	0.846785	1	2,214
NABA_ECM_GLYCOPROTEINS	188	0.188396	0.655581	0.819253	0.890488	1	7,853
REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THROUGH_NMDA_RECEPTOR	17	0.246415	0.702938	0.819961	0.852698	1	8,255
WANG_TUMOR_INVASIVENESS_DN	202	0.181217	0.699971	0.82	0.855362	1	6,076
MEISSNER_NPC_HCP_WITH_H3_UNMETHYLATED	483	0.171505	0.865206	0.820041	0.73823	1	6,042
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	89	0.201776	0.722574	0.820248	0.8432	1	6,578
VERRECCHIA_RESPONSE_TO_TGFB1_C2	25	0.2396	0.642759	0.820565	0.900147	1	3,762

NAGASHIMA_EGF_SIGNALING_UP	57	0.226119	0.602674	0.820809	0.927201	1	7,922
BIOCARTA_P53HYPOXIA_PATHWAY	22	0.246588	0.716512	0.823183	0.846189	1	5,826
WINZEN_DEGRADED_VIA_KHSRP	98	0.206004	0.725365	0.823875	0.842675	1	8,141
LANDIS_BREAST_CANCER_PROGRESSION_UP	42	0.225592	0.656666	0.823887	0.890081	1	3,190
LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE	48	0.228597	0.649312	0.826511	0.895741	1	6,958
GHANDHI_DIRECT_IRRADIATION_DN	32	0.219831	0.765465	0.827655	0.812672	1	6,019
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_UP	347	0.172542	0.717704	0.827869	0.84659	1	5,851
WANG_LSD1_TARGETS_UP	23	0.233962	0.710204	0.828185	0.850317	1	5,305
LEE_AGING_NEOCORTEX_UP	86	0.196777	0.731348	0.829365	0.837452	1	6,386
VALK_AML_CLUSTER_13	29	0.218922	0.709322	0.830078	0.849922	1	6,571
RODWELL_AGING_KIDNEY_DN	132	0.19321	0.715276	0.830645	0.847035	1	8,325
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP	21	0.243494	0.733188	0.830709	0.836937	1	8,779
NABA_CORE_MATRISOME	264	0.182891	0.628092	0.831041	0.910312	1	7,853
REACTOME_ENOS_ACTIVATION_AND_REGULATION	20	0.246819	0.706853	0.831068	0.84999	1	6,194
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENTA_UP	26	0.252662	0.635702	0.831683	0.904433	1	5,901
KEGG_MELANOMA	68	0.193821	0.733958	0.831984	0.836266	1	2,741
BOYALT_LIVER_CANCER_SUBCLASS_G6_UP	61	0.206565	0.779313	0.832016	0.803243	1	6,682
KAYO_CALORIE_RESTRICTION_MUSCLE_UP	93	0.201369	0.716891	0.832016	0.846487	1	7,315
VERRECCHIA_EARLY_RESPONSE_TO_TGFB1	58	0.209063	0.644555	0.833333	0.899163	1	4,119
FLECHNER_PBL_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP	146	0.184454	0.716758	0.833652	0.846268	1	5,599
REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRED_FOR_TRANSPORT_ESCRT	27	0.226093	0.63015	0.833659	0.908695	1	5,056
YOSHIMURA_MAPK8_TARGETS_DN	352	0.177909	0.733079	0.834356	0.836673	1	6,760
WATANABE_RECTAL_CANCER_RADIOOTHERAPY_RESPONSIVE_UP	104	0.18954	0.689869	0.834356	0.865088	1	6,345
JI_RESPONSE_TO_FSH_DN	57	0.209024	0.620715	0.83499	0.91399	1	5,715
CHOI_ATL_STAGE_PREDICTOR	39	0.215986	0.708843	0.83619	0.849714	1	4,972
RICKMAN_HEAD_AND_NECK_CANCER_B	44	0.22659	0.734498	0.836292	0.835922	1	6,439
FIGUEROA_AML_METHYLATION_CLUSTER_1_DN	42	0.201246	0.7739	0.838115	0.8059	1	7,350
RORIE_TARGETS_OF_EWSR1_FLI1_FUSION_DN	29	0.230373	0.591651	0.838115	0.934179	1	5,299
SCHOEN_NFKB_SIGNALING	33	0.235133	0.665714	0.83815	0.881472	1	8,898
JIANG_AGING_CEREBRAL_CORTEX_DN	53	0.200627	0.654979	0.838384	0.890321	1	3,615
ST_GAQ_PATHWAY	27	0.222849	0.744642	0.838446	0.830947	1	4,189
REACTOME_DESTABILIZATION_OF_MRNA_BY_BRF1	17	0.239768	0.677222	0.838583	0.873556	1	2,622
KEGG_LYSOSOME	119	0.190166	0.644748	0.838645	0.899375	1	6,851
CREIGHTON_ENDOCRINE_THERAPY_RESISTANCE_4	281	0.174274	0.780771	0.840319	0.801841	1	4,567
LUI_THYROID_CANCER_CLUSTER_1	49	0.193671	0.742152	0.840491	0.832128	1	5,505
TSENG_ADIPOGENIC_POTENTIAL_UP	29	0.227445	0.743543	0.840726	0.831751	1	4,656
WEIGEL_OXIDATIVE_STRESS_BY_TBH_AND_H2O2	36	0.214423	0.714825	0.842308	0.846845	1	1,990
NAKAYAMA_FGF2_TARGETS	28	0.219052	0.695985	0.842742	0.858553	1	6,718
GU_PDEF_TARGETS_UP	71	0.202289	0.608259	0.842829	0.922809	1	5,657

REACTOME_TGF_BETA_RECEPTOR_SIGNALING_ACTIVATES_SMADS	25	0.225108	0.686565	0.843058	0.867103	1	4,269
PID_MTOR_4PATHWAY	69	0.189566	0.6884	0.843177	0.86567	1	5,611
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_12	77	0.195012	0.665076	0.84375	0.881809	1	2,586
ZHENG_RESPONSE_TO_ARSENITE_DN	17	0.250664	0.719772	0.845011	0.845021	1	2,568
BILD_SRC_ONCOGENIC_SIGNATURE	59	0.188563	0.711611	0.846457	0.849591	1	2,387
TURASHVILI_BREAST_LOBULAR_CARCINOMA_VS_DUCTAL_NORMAL_UP	67	0.227891	0.53938	0.846614	0.959293	1	5,219
REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI	18	0.236491	0.703123	0.84696	0.852863	1	894
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN	146	0.18172	0.730167	0.849899	0.838241	1	4,458
WATANABE_RECTAL_CANCER_RADIOOTHERAPY_RESPONSIVE_DN	92	0.196752	0.685006	0.850202	0.868159	1	3,804
NAKAMURA_ADIPOGENESIS_EARLY_UP	60	0.200629	0.644973	0.850299	0.899552	1	8,032
AMIT_EGF_RESPONSE_120_HELA	66	0.19432	0.654084	0.850662	0.890891	1	3,261
ONDER_CDH1_TARGETS_1_DN	164	0.186776	0.674724	0.851145	0.875784	1	6,586
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_UP	120	0.183732	0.755436	0.851563	0.820133	1	7,198
REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	35	0.205619	0.738571	0.852207	0.835303	1	7,599
MCCABE_HOXC6_TARGETS_CANCER_UP	30	0.221039	0.769618	0.852227	0.809685	1	3,472
ROVERSI_GLIOMA_COPY_NUMBER_DN	52	0.201158	0.724309	0.852697	0.843299	1	8,429
LI_CISPLATIN_RESISTANCE_DN	30	0.223865	0.735021	0.854582	0.835996	1	9,222
BENNETT_SYSTEMIC_LUPUS_ERYTHEMATOSUS	30	0.217828	0.546168	0.855186	0.95624	1	165
WALLACE_PROSTATE_CANCER_RACE_DN	77	0.1816	0.742975	0.856287	0.831772	1	8,280
CERVERA_SDHB_TARGETS_1_DN	36	0.227732	0.725262	0.857434	0.842412	1	7,601
REACTOME_PI3K_CASCADE	66	0.185837	0.734919	0.858607	0.835733	1	5,933
REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	17	0.24095	0.667564	0.858896	0.880146	1	3,844
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_DN	19	0.217823	0.71	0.858921	0.849388	1	6,287
LEE_AGING_MUSCLE_DN	45	0.201667	0.701297	0.859375	0.854064	1	5,745
MURAKAMI_UV_RESPONSE_1HR_UP	16	0.239912	0.679735	0.861386	0.872186	1	3,193
KEGG_TASTE_TRANSDUCTION	35	0.212067	0.685937	0.861996	0.867483	1	9,183
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_DN	50	0.204792	0.64243	0.864097	0.89964	1	5,655
LEIN_NEURON_MARKERS	66	0.186934	0.5689	0.865079	0.94544	1	2,897
OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	222	0.174283	0.708546	0.865759	0.849707	1	8,296
HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	33	0.207725	0.668224	0.86653	0.880166	1	5,793
GALE_APL_WITH_FLT3_MUTATED_UP	54	0.191482	0.667691	0.866667	0.880402	1	1,723
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	49	0.202009	0.61879	0.866928	0.915373	1	7,448
KRIEG_KDM3A_TARGETS_NOT_HYPOXIA	189	0.17666	0.710461	0.867327	0.850383	1	5,880
ST_P38_MAPK_PATHWAY	37	0.20688	0.678732	0.867617	0.872975	1	6,736
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_UP	76	0.196885	0.689563	0.870259	0.865052	1	3,201
GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN	157	0.172777	0.630195	0.87037	0.909077	1	7,714
NIELSEN_LEIOMYOSARCOMA_UP	17	0.238451	0.645213	0.870707	0.899724	1	9,705
MIKKELSEN_ES_HCP_WITH_H3K27ME3	38	0.219331	0.675578	0.872047	0.875197	1	7,787

HOLLERN_SQUAMOUS_BREAST_TUMOR	105	0.200124	0.736503	0.873727	0.835068	1	5,915
PID_S1P_S1P1_PATHWAY	21	0.225673	0.624438	0.874	0.912199	1	9,196
WENG_POR_TARGETS_LIVER_UP	41	0.204257	0.67812	0.876228	0.872901	1	5,144
REACTOME_ANTIVIRAL_MECHANISM_BY_IFN_STIMULATED_GENES	65	0.186094	0.614185	0.876953	0.918757	1	7,665
KAYO_AGING_MUSCLE_DN	121	0.181044	0.687259	0.877712	0.866675	1	2,147
SANA_TNF_SIGNALING_UP	81	0.204227	0.595113	0.878296	0.932213	1	3,749
WEST_ADRENOCORTICAL_TUMOR_MARKERS_DN	20	0.220715	0.592785	0.880626	0.933697	1	7,185
MASSARWEH_TAMOXIFEN_RESISTANCE_DN	232	0.16855	0.748016	0.881148	0.828881	1	5,614
VALK_AML_WITH_FLT3_ITD	37	0.207051	0.698703	0.881874	0.856253	1	6,012
FIGUEROA_AML_METHYLATION_CLUSTER_6_UP	127	0.169673	0.757715	0.883588	0.819139	1	7,590
CHEN_ETV5_TARGETS_SERTOLI	19	0.240443	0.56545	0.884462	0.94687	1	10,446
WANG_CLASSIC_ADIPOGENIC_TARGETS_OF_PPARG	26	0.208552	0.640438	0.88641	0.900859	1	1,762
MIKKELSEN_IPS_WITH_HCP_H3K27ME3	90	0.190199	0.739006	0.886578	0.835077	1	5,662
ISSAEVA_MLL2_TARGETS	58	0.199847	0.703323	0.886598	0.853408	1	7,240
DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY	26	0.221288	0.641056	0.88668	0.900636	1	8,053
CERIBELLI_GENES_INACTIVE_AND_BOUND_BY_NFY	34	0.209035	0.671284	0.888889	0.878627	1	7,164
REACTOME_PLATELET_CALCIUM_HOMEOSTASIS	16	0.232179	0.642518	0.888889	0.899971	1	6,522
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP	33	0.204164	0.644265	0.890625	0.89904	1	5,880
UROSEVIC_RESPONSE_TO_IMIQUIMOD	23	0.217107	0.506598	0.891473	0.971162	1	7,026
FORTSCHEGGER_PHF8_TARGETS_UP	253	0.169883	0.723561	0.893145	0.843488	1	6,181
MEISSNER_BRAIN_HCP_WITH_H3K4ME2	16	0.224966	0.67094	0.893661	0.878619	1	5,927
BIOCARTA_CARM_ER_PATHWAY	35	0.183817	0.670893	0.894118	0.878259	1	9,165
NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICON	20	0.228087	0.560757	0.894531	0.949562	1	7,570
XU_AKT1_TARGETS_6HR	26	0.200059	0.587306	0.895636	0.935918	1	1,789
HINATA_NFKB_TARGETS_KERATINOCYTE_DN	22	0.223032	0.637425	0.897143	0.903506	1	7,695
PID_IGF1_PATHWAY	29	0.197495	0.623985	0.897384	0.912222	1	6,857
WANG_THOC1_TARGETS_DN	18	0.235417	0.691415	0.897638	0.863941	1	4,644
BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_UP	18	0.219259	0.672997	0.9	0.876991	1	8,106
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	33	0.225937	0.656066	0.900609	0.890333	1	7,380
REACTOME_NA_CL_DEPENDENT_NEUROTRANSMITTER_TRANSPORTERS	16	0.241209	0.707797	0.900621	0.849115	1	1
NAGASHIMA_NRG1_SIGNALING_UP	172	0.167656	0.55153	0.904669	0.953998	1	6,901
MIKKELSEN_MCV6_HCP_WITH_H3K27ME3	397	0.161622	0.681706	0.904762	0.870651	1	4,129
FURUKAWA_DUSP6_TARGETS_PCI35_UP	67	0.185898	0.678573	0.905123	0.872751	1	7,546
STAMBOLSKY_TARGETS_OF_MUTATED_TP53_UP	48	0.186711	0.674166	0.907816	0.876031	1	7,842
MCCLUNG_DELTA_FOSB_TARGETS_8WK	47	0.198061	0.623705	0.90795	0.912068	1	5,270
MATTIOLI_MGUS_VS_MULTIPLE_MYELOMA	15	0.222052	0.6228	0.90835	0.912466	1	6,393
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_UP	42	0.189475	0.501823	0.908738	0.97219	1	5,905

MEISSNER_BRAIN_HCP_WITH_H3_UNMETHYLATED	29	0.206148	0.690811	0.909962	0.864295	1	7,357
WU_CELL_MIGRATION	181	0.16621	0.635858	0.914894	0.904709	1	3,172
KORKOLA_TERATOMA_UP	16	0.227991	0.580021	0.91502	0.939292	1	3,584
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_UP	73	0.179232	0.657601	0.915289	0.889437	1	3,727
VETTER_TARGETS_OF_PRKCA_AND_ETS1_UP	15	0.226149	0.577164	0.920319	0.940893	1	5,611
TIAN_TNF_SIGNALING_VIA_NFKB	27	0.213215	0.576093	0.924494	0.94124	1	5,280
WOO_LIVER_CANCER_RECURRENCE_UP	102	0.174484	0.617467	0.926733	0.916215	1	6,133
KEGG_PYRUVATE_METABOLISM	38	0.188186	0.611269	0.927419	0.920567	1	5,752
MIZUSHIMA_AUTOPHAGOSOME_FORMATION	18	0.202963	0.583682	0.93125	0.937837	1	662
KEGG_PROPANOATE_METABOLISM	32	0.189139	0.539547	0.931452	0.959649	1	3,489
MUELLER_METHYLATED_IN_GLIOBLASTOMA	37	0.194681	0.625674	0.934457	0.91185	1	3,364
FIGUEROA_AML_METHYLATION_CLUSTER_7_UP	102	0.162513	0.708937	0.934653	0.849997	1	7,573
CHEN_NEUROBLASTOMA_COPY_NUMBER_GAINS	49	0.175047	0.683413	0.937107	0.869766	1	8,261
NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_DN	16	0.210302	0.582481	0.937247	0.937878	1	1,629
ZHOU_TNF_SIGNALING_4HR	53	0.179432	0.597526	0.942801	0.930634	1	5,511
LI_CYTIDINE_ANALOG_PATHWAY	16	0.210161	0.585438	0.942857	0.936973	1	10,068
PID_ERBB_NETWORK_PATHWAY	15	0.220721	0.575049	0.943396	0.941561	1	1,347
BIOCARTA_COMP_PATHWAY	18	0.203509	0.497218	0.944444	0.973496	1	9,869
ABE_VEGFA_TARGETS_2HR	32	0.189992	0.627169	0.944853	0.910804	1	2,486
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP	165	0.14532	0.38115	0.95069	0.995374	1	8,296
OZEN_MIR125B1_TARGETS	25	0.186648	0.590429	0.951417	0.934774	1	7,593
SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_2	42	0.168218	0.599197	0.955823	0.929694	1	6,725
MASRI_RESISTANCE_TO_TAMOXIFEN_AND_	19	0.202574	0.523616	0.959184	0.965227	1	6,362
AROMATASE_INHIBITORS_DN							
DASU_IL6_SIGNALING_SCAR_DN	16	0.196301	0.475871	0.960552	0.979339	1	5,738
HEIDENBLAD_AMPLIFIED_IN_PANCREATIC_CANCER	30	0.199961	0.552428	0.961165	0.953883	1	1,145
SCIBETTA_KDM5B_TARGETS_UP	17	0.188841	0.509576	0.962963	0.9704	1	2,808
DORSAM_HOXA9_TARGETS_DN	32	0.184882	0.625192	0.963415	0.911886	1	5,247
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_DN	25	0.190205	0.555834	0.963415	0.952214	1	4,114
PHESSSE_TARGETS_OF_APC_AND_MBD2_UP	20	0.192477	0.582549	0.965657	0.938254	1	6,522
HAN_JNK_SINGALING_UP	35	0.170169	0.53789	0.965844	0.959684	1	8,892
FIGUEROA_AML_METHYLATION_CLUSTER_3_UP	148	0.149942	0.682452	0.96748	0.870573	1	8,031
TAYLOR_METHYLATED_IN_ACUTE_LYMPHOBLASTIC_LEUKEMIA	72	0.158351	0.588553	0.968317	0.935863	1	7,756
LIN_NPAS4_TARGETS_DN	62	0.159728	0.587712	0.969574	0.936066	1	6,573
FRASOR_RESPONSE_TO ESTRADIOL_UP	37	0.158363	0.497155	0.97	0.973082	1	4,958
REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AND_	23	0.178839	0.567842	0.972656	0.945737	1	8,908
ACTIVATION_OF_IKKS_COMPLEX							
HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENESIS	78	0.161843	0.534707	0.980198	0.960915	1	5,259
REACTOME_HS_GAG_BIOSYNTHESIS	31	0.161931	0.531633	0.981855	0.962053	1	9

KUUSELO_PANCREATIC_CANCER_19Q13_AMPLIFICATION	26	0.176573	0.41457	0.982284	0.991946	1	8,715
KEGG_REGULATION_OF_AUTOPHAGY	22	0.16096	0.528202	0.985772	0.963382	1	6,355
BILD_HRAS_ONCOGENIC_SIGNATURE	248	0.144441	0.548287	0.986056	0.955482	1	3,274
KEGG_BETA_ALANINE_METABOLISM	22	0.162482	0.486557	0.986084	0.976439	1	8,896
SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER	28	0.167725	0.504422	0.987879	0.971603	1	7,371
MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	51	0.149278	0.51943	0.989858	0.966795	1	8,096
CHESLER_BRAIN_HIGHEST_EXPRESSION	38	0.150871	0.516659	0.990476	0.967612	1	10,020
ZWANG_EGF_PERSISTENTLY_UP	31	0.148119	0.46785	0.991837	0.98129	1	6,503

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.