Table S1 Genestes enriched in *ANGPTL4* high tertile

GENESET NAME	NES	FDR q-val
SEMENZA_HIF1_TARGETS	-2.0450096	0.11121274
XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR	-2.0345323	0.06629402
PID_HIF1_TFPATHWAY	-1.9867777	0.09369995
NAKAMURA_ADIPOGENESIS_EARLY_UP	-1.9488914	0.11575673
MENSE_HYPOXIA_UP	-1.9474787	0.09416903
WANG_ADIPOGENIC_GENES_REPRESSED_BY_SIRT1	-1.9432915	0.0863786
ELVIDGE_HYPOXIA_UP	-1.9213438	0.10970314
HARRIS_HYPOXIA	-1.9207014	0.09689076
ELVIDGE_HYPOXIA_BY_DMOG_UP	-1.9132416	0.095227554
ELVIDGE_HIF1A_TARGETS_DN	-1.9029248	0.09945167
GROSS_HIF1A_TARGETS_DN	-1.901846	0.09312335
MANALO_HYPOXIA_UP	-1.8883388	0.09935503
ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN	-1.8786302	0.102076106
ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	-1.870037	0.10649821
BURTON_ADIPOGENESIS_6	-1.8670576	0.10363435
REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK	-1.8641434	0.10148596
MCBRYAN_PUBERTAL_BREAST_4_5WK_DN	-1.8637574	0.09668005
LEE_LIVER_CANCER	-1.863276	0.09180808
WINTER_HYPOXIA_METAGENE	-1.8607104	0.09067595
FARDIN_HYPOXIA_11	-1.8592207	0.087266594
QI_HYPOXIA	-1.8522855	0.09218094
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_UP	-1.8495221	0.09044228
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	-1.8488771	0.08716043
LEE_CALORIE_RESTRICTION_MUSCLE_UP	-1.8484713	0.08388133
BIOCARTA_CXCR4_PATHWAY	-1.8484579	0.08062777
REN_ALVEOLAR_RHABDOMYOSARCOMA_DN	-1.8481016	0.07796351
REACTOME_DIABETES_PATHWAYS	-1.8441297	0.077969104
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP	-1.842137	0.07743071
NOJIMA_SFRP2_TARGETS_UP	-1.8410693	0.07594289
JIANG_HYPOXIA_NORMAL	-1.8303577	0.0859045
WANG_CISPLATIN_RESPONSE_AND_XPC_DN	-1.8286785	0.08482678
KIM_HYPOXIA	-1.8273299	0.08333814
PID_ANGIOPOIETIN_RECEPTOR_PATHWAY	-1.8267733	0.0812883
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION	-1.8253716	0.08049935
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	-1.8164879	0.08800152
PID_HIF2PATHWAY	-1.8153806	0.086891025
CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN	-1.8153211	0.08456917
AMIT_DELAYED_EARLY_GENES	-1.814061	0.08332087
PID_S1P_S1P1_PATHWAY	-1.8118207	0.08359198
REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	-1.8080823	0.08568619
ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	-1.8062084	0.08567859
REACTOME_PLATELET_HOMEOSTASIS	-1.8054377	0.08447173
REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	-1.8043208	0.08371156
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP	-1.8037033	0.08243169
RODRIGUES_NTN1_AND_DCC_TARGETS	-1.8023353	0.081663
ST_GRANULE_CELL_SURVIVAL_PATHWAY	-1.8015918	0.08045406
MOOTHA_GLYCOGEN_METABOLISM	-1.8008873	0.079627484
LEE_LIVER_CANCER_MYC_DN	-1.7931383	0.08699689
KIM_WT1_TARGETS_8HR_UP	-1.7914602	0.08727727
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	-1.7912964	0.08568973
LIM_MAMMARY_STEM_CELL_UP	-1.7892057	0.08607356
NAGASHIMA_EGF_SIGNALING_UP	-1.7868503	0.087071545
REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TRANSPORT	-1.7861055	0.08602366
DAUER_STAT3_TARGETS_UP	-1.785775	0.08469457
KYNG_DNA_DAMAGE_BY_4NQO	-1.7855527	0.08338214
BIOCARTA_CARDIACEGF_PATHWAY	-1.7817354	0.08583483
DALESSIO_TSA_RESPONSE	-1.7809496	0.0853809
JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_DN	-1.7783064	0.08693019
KEGG_GLYCOLYSIS_GLUCONEOGENESIS	-1.7761195	0.08763943
PID_LYSOPHOSPHOLIPID_PATHWAY	-1.7751267	0.08748693
PODAR_RESPONSE_TO_ADAPHOSTIN_UP	-1.7750502	0.08612633
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_DN	-1.774516	0.085312515
ZWANG_CLASS_2_TRANSIENTLY_INDUCED_BY_EGF	-1.7743043	0.08407586
HSIAO_LIVER_SPECIFIC_GENES	-1.7739222	0.083153985
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	-1.773053	0.08277284
ZHU_CMV_8_HR_DN	-1.7711675	0.08314884
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	-1.7703114	0.08261521
BIOCARTA_SPRY_PATHWAY	-1.7701255	0.08162646
BURTON_ADIPOGENESIS_9	-1.7701119	0.080443464
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN	-1.7680278	0.081185326
KAYO_CALORIE_RESTRICTION_MUSCLE_UP	-1.7670985	0.08063165
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_UP	-1.7661153	0.080297776
PLASARI_TGFB1_TARGETS_10HR_UP	-1.7643726	0.08104978
BONOME_OVARIAN_CANCER_SURVIVAL_SUBOPTIMAL_DEBULKING	-1.7640305	0.08023032
REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2_	-1.7637875	0.07933941
BILANGES_SERUM_SENSITIVE_VIA_TSC1	-1.7628487	0.07905408
REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS	-1.7628381	0.0780274
DELACROIX_RARG_BOUND_MEF	-1.762328	0.077552244

ZHU_SKIL_TARGETS_UP	-1.761117	0.07774725
BIOCARTA_NO1_PATHWAY	-1.7584411	0.07931442
CAIRO_HEPATOBLASTOMA_DN	-1.757039	0.08018187
MATZUK_CENTRAL_FOR_FEMALE_FERTILITY	-1.7559531	0.08028123
NAKAMURA_ADIPOGENESIS_LATE_UP	-1.7524201	0.08255363
KEGG_PPAR_SIGNALING_PATHWAY	-1.7477175	0.08643225
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES	-1.7461811	0.08699519
PID_TCR_CALCIUM_PATHWAY	-1.7460083	0.08608949
REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	-1.7458001	0.085294195
RUAN_RESPONSE_TO_TNF_DN	-1.7449893	0.08525091
SUH_COEXPRESSED_WITH_ID1_AND_ID2_UP	-1.7449178	0.0843329
MIKKELSEN_ES_HCP_WITH_H3K27ME3	-1.7447964	0.08347957
LANDIS_ERBB2_BREAST_TUMORS_324_DN	-1.7443069	0.08302545
SCHRAETS_MLL_TARGETS_DN	-1.7424741	0.084001265
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	-1.7424504	0.08311097
LEE_LIVER_CANCER_ACOX1_DN	-1.7417908	0.08301324
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	-1.7416569	0.082263134
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_8	-1.7414589	0.081599124
TSENG_IRS1_TARGETS_DN	-1.741194	0.08094261
PID_UPA_UPAR_PATHWAY	-1.7388288	0.08268227
GERY_CEBP_TARGETS	-1.7387767	0.08185596
BURTON_ADIPOGENESIS_PEAK_AT_2HR	-1.7386979	0.08108577
MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP	-1.7377883	0.081058756
ZHANG_TLX_TARGETS_UP	-1.7371148	0.08082214
PID_VEGFR1_PATHWAY	-1.7365661	0.080866955
BIOCARTA_CCR5_PATHWAY	-1.7341496	0.082320176
JI_RESPONSE_TO_FSH_DN	-1.7332202	0.08251381
KEGG_ARACHIDONIC_ACID_METABOLISM	-1.7331053	0.08183019
CROONQUIST_STROMAL_STIMULATION_UP	-1.7328515	0.08135056
NAGASHIMA_NRG1_SIGNALING_UP	-1.7324766	0.08086114
KEGG_LINOLEIC_ACID_METABOLISM	-1.7321635	0.08036778
CHUANG_OXIDATIVE_STRESS_RESPONSE_UP	-1.7313236	0.080195464
REACTOME_SIGNAL_AMPLIFICATION	-1.729997	0.08057933
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE	-1.7289455	0.080776446
KIM_GERMINAL_CENTER_T_HELPER_DN	-1.7286214	0.08026877
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN	-1.7284108	0.079680786
WANG_NEOPLASTIC_TRANSFORMATION_BY_CCND1_MYC	-1.7278935	0.079491735
INGRAM_SHH_TARGETS_UP	-1.7274393	0.079223305
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP	-1.7265228	0.07938698
CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP	-1.7249221	0.080173135
ZHU_CMV_ALL_DN	-1.7243787	0.08008028
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN	-1.7243404	0.07943788
GENTILE_UV_LOW_DOSE_DN	-1.7218722	0.081113525
ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP	-1.7213427	0.08085202
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN	-1.720344	0.08129265
REACTOME_LIPOPROTEIN_METABOLISM	-1.7196453	0.081281565
PID_ALK1_PATHWAY	-1.7195086	0.08071641
REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	-1.7191654	0.080453135
PLASARI_TGFB1_TARGETS_1HR_UP	-1.7191296	0.0798289
HUNSBERGER_EXERCISE_REGULATED_GENES	-1.7191281	0.07920524
KEGG_GAP_JUNCTION	-1.7182395	0.079466954
BROWNE_HCMV_INFECTION_48HR_DN	-1.7179921	0.07909148
BROWNE_HCMV_INFECTION_16HR_DN	-1.7171308	0.07920914
KEGG_TYROSINE_METABOLISM	-1.7160461	0.07958317
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_MAGENTA_UP	-1.7142761	0.0808603
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	-1.7137382	0.08083359
MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP	-1.7136239	0.08032334
LEE_LIVER_CANCER_DENA_DN	-1.7135082	0.079900354
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	-1.7133142	0.07951825
MELLMAN_TUT1_TARGETS_DN	-1.7132549	0.07903326
BURTON_ADIPOGENESIS_1	-1.713092	0.07868164
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	-1.7123165	0.07894765
AMIT_EGF_RESPONSE_240_HELA	-1.7122365	0.07842883
ZAMORA_NOS2_TARGETS_DN	-1.712178	0.07791808
HILLION_HMGA1B_TARGETS	-1.7118547	0.07763502
TIAN_TNF_SIGNALING_NOT_VIA_NFKB	-1.7101299	0.07861696
ROSS_AML_OF_FAB_M7_TYPE	-1.7091811	0.07886806
REACTOME_DEVELOPMENTAL_BIOLOGY	-1.708846	0.07873625
REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CYCLASE	-1.7076201	0.079391874
BIOCARTA_PPARA_PATHWAY	-1.7043626	0.081844285
PID_ENDOTHELIN_PATHWAY	-1.7037723	0.08194467
SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER	-1.703491	0.0816543
WANG_MLL_TARGETS	-1.7034677	0.08113787
URS_ADIPOCYTE_DIFFERENTIATION_UP	-1.7029867	0.08097729
MAHADEVAN_RESPONSE_TO_MP470_DN	-1.7026869	0.08075766
PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2	-1.7016563	0.08110622
LEONARD_HYPOXIA	-1.7007887	0.081535675
ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	-1.7003471	0.08146841
AMIT_EGF_RESPONSE_120_HELA	-1.6993773	0.081846036
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP	-1.6992028	0.081428126

KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	-1.698161	0.081724845
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_DN	-1.6972544	0.082060814
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_DN	-1.697071	0.08165764
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_UP	-1.6963189	0.081842355
ZHANG_TLX_TARGETS_36HR_UP	-1.6958085	0.08175331
SU_LIVER	-1.6956621	0.081386454
ZHOU_INFLAMMATORY_RESPONSE_LIVE_UP	-1.6951724	0.08137293
REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	-1.6934499	0.08251963
YAMAZAKI_TCEB3_TARGETS_UP	-1.6930832	0.082344875
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN	-1.6918256	0.08313634
GUO_HEX_TARGETS_DN	-1.6916736	0.082752444
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP	-1.690996	0.082917385
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	-1.6899346	0.08352828
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_DN	-1.6894724	0.08348366
ACEVEDO_LIVER_CANCER_DN	-1.6890762	0.083309926
REACTOME_G_PROTEIN_ACTIVATION	-1.6887435	0.083113156
NAKAMURA_METASTASIS_MODEL_UP	-1.6878341	0.08350123
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	-1.6868362	0.08401778
BROWNE_HCMV_INFECTION_24HR_DN	-1.6868148	0.0835631
WANG_METHYLATED_IN_BREAST_CANCER	-1.6861521	0.083790675
NABA_SECRETED_FACTORS	-1.6857271	0.083644174
NABA_ECM_AFFILIATED	-1.6855277	0.08330239
ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN	-1.6847514	0.08361836
MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	-1.684554	0.083357655
PRAMOONJAGO_SOX4_TARGETS_UP	-1.6832545	0.08394222
MCCLUNG_CREB1_TARGETS_UP	-1.6829907	0.08383167
LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_UP	-1.6820606	0.08439232
GROSS_HYPOXIA_VIA_ELK3_ONLY_UP	-1.6815801	0.08438963
BURTON_ADIPOGENESIS_2	-1.6804322	0.08511699
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A	-1.6802982	0.08484975
MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_UP	-1.6796871	0.084955506
HOSHIDA_LIVER_CANCER_SUBCLASS_S3	-1.6791917	0.08497912
THEODOROU_MAMMARY_TUMORIGENESIS	-1.6789801	0.08475536
SWEET_KRAS_TARGETS_UP	-1.6783912	0.08487618
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_UP	-1.6773192	0.08536699
GYORFFY_DOXORUBICIN_RESISTANCE	-1.6772717	0.08498674
HENDRICKS_SMARCA4_TARGETS_UP	-1.6772292	0.084609434
PID_PDGFRA_PATHWAY	-1.6771785	0.08424049
ROZANOV_MMP14_TARGETS_SUBSET	-1.6770898	0.083919
SWEET_LUNG_CANCER_KRAS_DN	-1.6766896	0.08392431
REACTOME_GLUCOSE_METABOLISM	-1.6765519	0.08370357
SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION	-1.6754506	0.08423706
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_UP	-1.6751407	0.08408665
SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER	-1.6748817	0.08391083
WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_36HR	-1.6745853	0.08382748
QI_PLASMACYTOMA_DN	-1.6741543	0.0837507
REACTOME_ADP_SIGNALLING_THROUGH_P2RY12	-1.6741459	0.083351485
SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_UP	-1.6737344	0.08330849
MCBRYAN_PUBERTAL_BREAST_3_4WK_DN	-1.6733705	0.083269894
CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	-1.6727643	0.08341417
LEIN_MEDULLA_MARKERS	-1.6726391	0.08311937
ZHU_CMV_24_HR_DN	-1.6722862	0.08302748
PASINI_SUZ12_TARGETS_DN	-1.6717955	0.083024025
AMIT_EGF_RESPONSE_60_MCF10A	-1.6706293	0.0837133
KEGG_FOCAL_ADHESION	-1.6705326	0.08341602
KAN_RESPONSE_TO_ARSENIC_TRIOXIDE	-1.6703179	0.083191834
GROSS_HYPOXIA_VIA_HIF1A_DN	-1.6699485	0.083136484
PID_IL6_7_PATHWAY	-1.6695285	0.08314592
KAAB_HEART_ATRIUM_VS_VENTRICLE_DN	-1.6688077	0.08345343
PILON_KLF1_TARGETS_UP	-1.6685631	0.08323856
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	-1.6676681	0.083705895
LEE_AGING_MUSCLE_UP	-1.6674881	0.08353392
JIANG_TIP30_TARGETS_UP	-1.6673903	0.083232895
KONDO_EZH2_TARGETS	-1.6661009	0.084105335
GROSS_HYPOXIA_VIA_ELK3_DN	-1.6659665	0.08383363
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	-1.6656374	0.08378893
HOEGERKORP_CD44_TARGETS_DIRECT_UP	-1.6653175	0.083661325
REACTOME_REGULATION_OF_INSULIN_SECRETION	-1.6650312	0.08349379
HOEBEKE_LYMPHOID_STEM_CELL_DN	-1.6649668	0.08318729
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	-1.6641085	0.083615564
LEE_AGING_NEOCORTEX_UP	-1.6638585	0.083489425
LEE_LIVER_CANCER_MYC_TGFA_DN	-1.6637082	0.08326189
PID_CONE_PATHWAY	-1.6627222	0.0837099
KEGG_TRYPTOPHAN_METABOLISM	-1.6625067	0.08349779
KERLEY_RESPONSE_TO_CISPLATIN_UP	-1.6623722	0.08325778
BROWNE_HCMV_INFECTION_30MIN_UP	-1.6621948	0.08306532
OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	-1.6617601	0.08297421
MAHAJAN_RESPONSE_TO_IL1A_DN	-1.6614654	0.08299423
REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	-1.661348	0.08278112
CADWELL_ATG16L1_TARGETS_UP	-1.6607431	0.08296382

LEE_LIVER_CANCER_CIPROFIBRATE_DN	-1.6606516	0.082674436
WEST_ADRENOCORTICAL_TUMOR_DN	-1.6603812	0.08255568
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN	-1.6599796	0.082531445
MCDOWELL_ACUTE_LUNG_INJURY_UP	-1.6595477	0.08261236
BIOCARTA_CDMAC_PATHWAY	-1.6593852	0.082406536
REACTOME_OXYGEN_DEPENDENT_PROLINE_HYDROXYLATION_OF_HYPOXIA_INDUCIBLE_FACTOR_ALPHA	-1.6592628	0.08216639
PID_FGF_PATHWAY	-1.6587102	0.08230032
IGLESIAS_E2F_TARGETS_UP	-1.6580935	0.08261168
BIOCARTA_ETS_PATHWAY	-1.6574589	0.08278115
LANDIS_ERBB2_BREAST_PRENEOPLASTIC_DN	-1.6569575	0.08289074
MCCABE_HOXC6_TARGETS_DN	-1.6561393	0.08337063
LEE_LIVER_CANCER_E2F1_DN	-1.6557719	0.08331513
REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE	-1.6552151	0.08352342
GROSS_ELK3_TARGETS_DN	-1.6550955	0.083309315
MIKKELSEN_IPS_HCP_WITH_H3_UNMETHYLATED	-1.6546737	0.083377704
PID_HNF3B_PATHWAY	-1.6544396	0.08324443
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	-1.6540446	0.0832863
BIOCARTA_AT1R_PATHWAY	-1.6539875	0.08298856
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_UP	-1.6531643	0.083515815
NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_UP	-1.6527257	0.0835489
LA_MEN1_TARGETS	-1.6520785	0.083866335
COATES_MACROPHAGE_M1_VS_M2_DN	-1.6513785	0.08417261
AMIT_SERUM_RESPONSE_60_MCF10A	-1.651204	0.08405149
VERRECCHIA_EARLY_RESPONSE_TO_TGFB1	-1.650527	0.084299974
REACTOME_INTRINSIC_PATHWAY	-1.6502899	0.08420327
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN	-1.650155	0.08399428
BIOCARTA_GPCR_PATHWAY	-1.6498219	0.08390863
KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	-1.6497601	0.08364399
KEGG_MAPK_SIGNALING_PATHWAY	-1.6496814	0.08338659
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_DN	-1.6489831	0.08369736
CHIBA_RESPONSE_TO_TSA_UP	-1.6489635	0.08340598
SHIPP_DLBCL_CURED_VS_FATAL_UP	-1.6480428	0.08384531
LANDIS_ERBB2_BREAST_TUMORS_65_DN	-1.6480427	0.08353592
REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	-1.6472899	0.08381072
AMIT_SERUM_RESPONSE_40_MCF10A	-1.6461517	0.08445954
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	-1.6458457	0.08446427
HALMOS_CEBPA_TARGETS_UP	-1.6448766	0.085008934
WAKABAYASHI_ADIPOGENESIS_PPARG_RXRA_BOUND_WITH_H4K20ME1_MARK	-1.6445389	0.08501273
BASSO_HAIRY_CELL_LEUKEMIA_DN	-1.6442121	0.08502609
LINDVALL_IMMORTALIZED_BY_TERT_DN	-1.644108	0.08481929
DORSAM_HOXA9_TARGETS_DN	-1.6437445	0.084818095
PHONG_TNF_TARGETS_UP	-1.6423835	0.08565702
PID_AP1_PATHWAY	-1.6421618	0.08562817
ONDER_CDH1_TARGETS_2_UP	-1.6415004	0.085981965
SUNG_METASTASIS_STROMA_UP	-1.6413031	0.085898116
KEGG_FATTY_ACID_METABOLISM	-1.6412398	0.08565289
AMIT_EGF_RESPONSE_40_MCF10A	-1.6409061	0.08564894
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	-1.6407394	0.08550186
EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION	-1.6401625	0.08578395
WOOD_EBV_EBNA1_TARGETS_DN	-1.6400087	0.08561787
NAKAJIMA_MAST_CELL	-1.6398357	0.08551665
TANG_SENESCENCE_TP53_TARGETS_UP	-1.6398256	0.08523268
AMIT_SERUM_RESPONSE_120_MCF10A	-1.639806	0.08495427
LU_AGING_BRAIN_UP	-1.6397022	0.08474199
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN	-1.639443	0.08469722
SENESE_HDAC2_TARGETS_DN	-1.6390977	0.08473487
GRUETZMANN_PANCREATIC_CANCER_DN	-1.6388657	0.084618926
GOLUB_ALL_VS_AML_DN	-1.6387156	0.08443203
LEE_LIVER_CANCER_MYC_E2F1_DN	-1.6386014	0.084212124
VARELA_ZMPSTE24_TARGETS_DN	-1.6384473	0.08404424
ZHENG_GLIOBLASTOMA_PLASTICITY_DN	-1.6382654	0.08387784
WIERENGA_STAT5A_TARGETS_UP	-1.6376661	0.08405021
KEEN_RESPONSE_TO_ROSIGLITAZONE_DN	-1.6370697	0.0843189
ZHOU_TNF_SIGNALING_30MIN	-1.6362218	0.08480425
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN	-1.6355331	0.08508083
SCHOEN_NFKB_SIGNALING	-1.6354578	0.08483716
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0	-1.6352799	0.084751144
AFFAR_YY1_TARGETS_UP	-1.634613	0.08499326
KEGG_CALCIUM_SIGNALING_PATHWAY	-1.634544	0.08477961
VALK_AML_CLUSTER_12	-1.6344362	0.08459426
BOYAULT_LIVER_CANCER_SUBCLASS_G123_DN	-1.6342417	0.08445401
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP	-1.634205	0.08420477
LE_EGR2_TARGETS_DN	-1.6340904	0.08405227
REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS	-1.6337131	0.084115684
AMIT_EGF_RESPONSE_40_HELA	-1.6330066	0.0844188
MAINA_VHL_TARGETS_DN	-1.6329937	0.08414996
WENG_POR_TARGETS_GLOBAL_DN	-1.6324481	0.08426495
LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE	-1.6321353	0.084250644
HASLINGER_B_CLL_WITH_13Q14_DELETION	-1.631857	0.08422714
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP	-1.6317692	0.08403908

REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION	-1.6310598	0.08443942
LIU_CDX2_TARGETS_UP	-1.6310066	0.084221765
REACTOME_ADP_SIGNALLING_THROUGH_P2RY1	-1.6304408	0.08450239
BROWNE_HCMV_INFECTION_2HR_UP	-1.6302532	0.084464945
LIM_MAMMARY_LUMINAL_MATURE_DN	-1.6296064	0.084829226
KEGG_ECM_RECEPTOR_INTERACTION	-1.6293908	0.08473251
BROWNE_HCMV_INFECTION_18HR_DN	-1.6293615	0.08450777
LANDIS_BREAST_CANCER_PROGRESSION_DN	-1.6289952	0.0845441
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	-1.6288718	0.084404215
KOHOUTEK_CCNT2_TARGETS	-1.6288408	0.08415746
MOOTHA_GLUCONEOGENESIS	-1.6288338	0.08390694
EHLERS_ANEUPLOIDY_UP	-1.6288327	0.083652675
FALVELLA_SMOKERS_WITH_LUNG_CANCER	-1.6283565	0.08381636
LEIN_CHOROID_PLEXUS_MARKERS	-1.6277553	0.0841312
RUAN_RESPONSE_TO_TROGLITAZONE_UP	-1.6276625	0.0839666
RASHI_RESPONSE_TO_IONIZING_RADIATION_1	-1.627555	0.083779514
HUANG_DASATINIB_RESISTANCE_UP	-1.6270932	0.08393115
WOTTON_RUNX_TARGETS_UP	-1.626806	0.08386178
CHEBOTAEV_GR_TARGETS_DN	-1.6260281	0.08430096
GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_DN	-1.6260159	0.08405484
REACTOME_SYNTHESIS_OF_PA	-1.6252613	0.08436682
PHONG_TNF_RESPONSE_VIA_P38_PARTIAL	-1.6247429	0.08458485
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP	-1.6242677	0.08480259
MCGARVEY_SILENCED_BY_METHYLATION_IN_COLON_CANCER	-1.6235188	0.08524116
DURAND_STROMA_S_UP	-1.6230888	0.0854094
KANG_IMMORTALIZED_BY_TERT_DN	-1.6219813	0.08611702
VARELA_ZMPSTE24_TARGETS_UP	-1.6213452	0.08641822
MEINHOLD_OVARIAN_CANCER_LOW_GRADE_UP	-1.6213343	0.08617374
MATTHEWS_AP1_TARGETS	-1.6210434	0.08617051
MANTOVANI_VIRAL_GPCR_SIGNALING_UP	-1.6207628	0.08616848
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_UP	-1.6206076	0.08607575
TRAYNOR_RETT_SYNDROM_UP	-1.6199692	0.086398855
REACTOME_GLUCAGON_TYPE_LIGAND_RECEPTORS	-1.6199267	0.08618788
MIKKELSEN_IPS_WITH_HCP_H3K27ME3	-1.6198004	0.086049184
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_DN	-1.619764	0.0858489
REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_IGF_ACTIVITY_BY_INSULIN_LIKE_GROWTH_FACTOR_BINDING_PROTEINS_IGFBPS	-1.6196529	0.08569032
PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_FUSION	-1.6184802	0.08644359
GRADE_COLON_CANCER_DN	-1.6182655	0.08635704
WINZEN_DEGRADED_VIA_KHSRP	-1.6181109	0.0862545
LEE_LIVER_CANCER_SURVIVAL_UP	-1.6180636	0.08607036
LIU_SMARCA4_TARGETS	-1.6175436	0.08628049
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_B	-1.6175193	0.08606763
ZHANG_TLX_TARGETS_60HR_UP	-1.6173443	0.0859763
REACTOME_SIGNALING_BY_BMP	-1.6172059	0.08584894
NADLER_OBESITY_DN	-1.6171525	0.08567828
REACTOME_ERK_MAPK_TARGETS	-1.6168227	0.0857298
CORRE_MULTIPLE_MYELOMA_UP	-1.6164093	0.085874274
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_UP	-1.616216	0.08582559
HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP	-1.6162007	0.08559174
WEINMANN_ADAPTATION_TO_HYPOXIA_UP	-1.6153805	0.08609412
PID_GLYPICAN_1PATHWAY	-1.6151807	0.086043745
YOSHIMURA_MAPK8_TARGETS_DN	-1.6150812	0.08587876
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLC_BETA	-1.614951	0.08574743
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	-1.6148537	0.085592985
KASLER_HDAC7_TARGETS_1_DN	-1.6145457	0.085672915
YAMASHITA_METHYLATED_IN_PROSTATE_CANCER	-1.614515	0.08546052
HOWLIN_PUBERTAL_MAMMARY_GLAND	-1.614359	0.085345514
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_DN	-1.6143279	0.08514405
TSENG_ADIPOGENIC_POTENTIAL_DN	-1.614177	0.08503696
ZUCCHI_METASTASIS_DN	-1.613937	0.08499326
HILLION_HMGA1_TARGETS	-1.6135093	0.0851962
CHARAFE_BREAST_CANCER_LUMINAL_VS_BASAL_DN	-1.6134901	0.08499349
DORSEY_GAB2_TARGETS	-1.6132967	0.084932745
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN	-1.6131752	0.084827416
BURTON_ADIPOGENESIS_4	-1.6129328	0.08476029
AMIT_EGF_RESPONSE_120_MCF10A	-1.6128697	0.08461328
BIOCARTA_INTRINSIC_PATHWAY	-1.6128525	0.0844066
COWLING_MYCN_TARGETS	-1.612786	0.08423696
REACTOME_ENDOGENOUS_STEROLS	-1.6127834	0.08401929
MEISSNER_NPC_HCP_WITH_H3K4ME2	-1.6126559	0.083903745
WANG_SMARCE1_TARGETS_UP	-1.6125354	0.08378338
DANG_REGULATED_BY_MYC_DN	-1.6125128	0.083607554
NABA_ECM_REGULATORS	-1.6124803	0.083428055
LE_SKI_TARGETS_UP	-1.6121535	0.08344543
IKEDA_MIR133_TARGETS_UP	-1.612018	0.08331448
PID_S1P_S1P2_PATHWAY	-1.6118301	0.083226316
CAIRO_HEPATOBLASTOMA_CLASSES_DN	-1.6117711	0.08307885
MCBRYAN_PUBERTAL_BREAST_6_7WK_UP	-1.6117525	0.082883574
LABBE_TGFB1_TARGETS_UP	-1.6114901	0.08286257
DAVICIONI_MOLECULAR_ARMS_VS_ERMS_DN	-1.6114236	0.082706586

ZHANG_PROLIFERATING_VS_QUIESCENT	-1.6093625	0.08432884
REACTOME_ACYL_CHAIN_REMODELLING_OF_PC	-1.608907	0.084475435
LIU_PROSTATE_CANCER_DN	-1.6086923	0.08447756
MARCHINI_TRABECTEDIN_RESISTANCE_DN	-1.6084971	0.084401205
SIMBULAN_UV_RESPONSE_NORMAL_DN	-1.608219	0.08446351
HARRIS_BRAIN_CANCER_PROGENITORS	-1.6076007	0.08478958
REACTOME_GPCR_LIGAND_BINDING	-1.606955	0.0850103
BURTON_ADIPOGENESIS_7	-1.6062096	0.08544527
BOQUEST_STEM_CELL_UP	-1.6060672	0.085356325
PID_THROMBIN_PAR1_PATHWAY	-1.6060222	0.085177265
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN	-1.6052961	0.085537605
RUIZ_TNC_TARGETS_UP	-1.6050491	0.085491255
SENESE_HDAC1_TARGETS_DN	-1.6049458	0.08536464
RUAN_RESPONSE_TO_TROGLITAZONE_DN	-1.6048473	0.08526549
WOTTON_RUNX_TARGETS_DN	-1.6044608	0.085385025
REACTOME_CGMP_EFFECTS	-1.6042494	0.08533217
WATANABE_ULCERATIVE_COLITIS_WITH_CANCER_UP	-1.604219	0.08513964
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN	-1.6039965	0.0851602
DANG_MYC_TARGETS_DN	-1.603996	0.08495598
MIKKELSEN_MEF_LCP_WITH_H3K4ME3	-1.6035608	0.085099325
KIM_WT1_TARGETS_12HR_UP	-1.6032554	0.0851744
CERVERA_SDHB_TARGETS_1_UP	-1.6023918	0.08566825
MCBRYAN_PUBERTAL_BREAST_5_6WK_DN	-1.6013634	0.086306095
DELASERNA_MYOD_TARGETS_DN	-1.600928	0.08651358
BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_DN	-1.6008728	0.08633854
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	-1.6000036	0.086854726
BAELDE_DIABETIC_NEPHROPATHY_UP	-1.5991951	0.08724359
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_UP	-1.599035	0.08720692
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP	-1.5986624	0.08724324
KEGG_RENAL_CELL_CARCINOMA	-1.5982677	0.08734851
AMIT_SERUM_RESPONSE_20_MCF10A	-1.597988	0.08736738
HAN_JNK_SINGALING_DN	-1.5978334	0.087302856
SAGIV_CD24_TARGETS_DN	-1.5974864	0.087407105
HOUSTIS_ROS	-1.5974652	0.087220296
PEDRIOLI_MIR31_TARGETS_DN	-1.5972672	0.08716737
VANHARANTA_UTERINE_FIBROID_DN	-1.5969505	0.087272994
GAJATE_RESPONSE_TO_TRABECTEDIN_UP	-1.5968246	0.087196626
HUMMERICH_SKIN_CANCER_PROGRESSION_DN	-1.596732	0.08705086
GERHOLD_ADIPOGENESIS_UP	-1.5967215	0.086861275
NABA_CORE_MATRISOME	-1.5964824	0.0868885
BALDWIN_PRKCI_TARGETS_UP	-1.5963607	0.08679235
GENTILE_UV_RESPONSE_CLUSTER_D6	-1.5957273	0.08717983
HUANG_FOXA2_TARGETS_DN	-1.5956968	0.08701385
REACTOME_ACTIVATED_TLR4_SIGNALLING	-1.5956799	0.0868213
BAELDE_DIABETIC_NEPHROPATHY_DN	-1.5955131	0.08678229
WIEDERSCHAIN_TARGETS_OF_BMI1_AND_PCGF2	-1.5951388	0.08693232
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_DN	-1.5945144	0.08724784
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	-1.5943525	0.08715363
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_DN	-1.5942969	0.08700426
KAAB_HEART_ATRIUM_VS_VENTRICLE_UP	-1.5940459	0.08706674
KYNG_DNA_DAMAGE_DN	-1.5939493	0.08693577
WILCOX_RESPONSE_TO_PROGESTERONE_DN	-1.5935597	0.08705009
LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	-1.5932063	0.08718059
KEGG_ARGININE_AND_PROLINE_METABOLISM	-1.5927956	0.08731621
BIOCARTA_P53HYPOXIA_PATHWAY	-1.5927594	0.08715328
URS_ADIPOCYTE_DIFFERENTIATION_DN	-1.592741	0.086978614
LUI_THYROID_CANCER_CLUSTER_2	-1.592679	0.08683239
LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES	-1.5925331	0.08678628
VERNOCHET_ADIPOGENESIS	-1.5920804	0.087024376
BERENJENO_TRANSFORMED_BY_RHOA_DN	-1.5919138	0.08696629
ONDER_CDH1_SIGNALING_VIA_CTNNB1	-1.591806	0.08687716
MANTOVANI_NFKB_TARGETS_UP	-1.5917011	0.08675475
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP	-1.5916796	0.0865851
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_1	-1.5914954	0.08656395
MIKKELSEN_ES_HCP_WITH_H3_UNMETHYLATED	-1.5909232	0.086827606
REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	-1.59025	0.08724277
REACTOME_OPIOID_SIGNALLING	-1.5901778	0.08710928
NABA_ECM_GLYCOPROTEINS	-1.5896275	0.087389655
REACTOME_INWARDLY_RECTIFYING_K_CHANNELS	-1.5895164	0.08731158
LEE_NEURAL_CREST_STEM_CELL_UP	-1.5888302	0.08765914
MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP	-1.5887387	0.08756246
WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN	-1.5886121	0.08749677
AMIT_EGF_RESPONSE_60_HELA	-1.5884938	0.08743667
UEDA_CENTRAL_CLOCK	-1.5879171	0.087647654
XU_GH1_EXOGENOUS_TARGETS_UP	-1.5871218	0.08818402
UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN	-1.5865059	0.08853167
BRIDEAU_IMPRINTED_GENES	-1.5864549	0.08836649
SHEN_SMARCA2_TARGETS_DN	-1.5862415	0.08837584
PID_INTEGRIN_A9B1_PATHWAY	-1.5862372	0.0881958
DEBOSSCHER_NFKB_TARGETS_REPRESSED_BY_GLUCOCORTICOIDS	-1.5856787	0.088456914

KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	-1.5853366	0.08855244
HUMMERICH_MALIGNANT_SKIN_TUMOR_DN	-1.5853044	0.088391915
MALONEY_RESPONSE_TO_17AAG_UP	-1.5852275	0.08826527
LU_AGING_BRAIN_DN	-1.5847819	0.08851484
DELACROIX_RAR_TARGETS_DN	-1.5834174	0.08949886
BIOCARTA_NGF_PATHWAY	-1.5833852	0.08934054
KEGG_TGF_BETA_SIGNALING_PATHWAY	-1.5830783	0.08940642
FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_UP	-1.5830095	0.08927523
TOMLINS_PROSTATE_CANCER_DN	-1.5829076	0.08916637
DELYS_THYROID_CANCER_DN	-1.5827781	0.089085005
MIKKELSEN_NPC_LCP_WITH_H3K4ME3	-1.5824375	0.08923819
KHETCHOUMIAN_TRIM24_TARGETS_UP	-1.5822107	0.089237265
SENESE_HDAC1_AND_HDAC2_TARGETS_DN	-1.5821612	0.08908887
REACTOME_MUSCLE_CONTRACTION	-1.5820345	0.08901737
HAN_SATB1_TARGETS_DN	-1.5815297	0.08923712
WEST_ADRENOCORTICAL_TUMOR_MARKERS_DN	-1.5813217	0.08923606
REACTOME_REGULATION_OF_HYPOXIA_INDUCIBLE_FACTOR_HIF_BY_OXYGEN	-1.5811887	0.08917328
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_DN	-1.5811882	0.08899349
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP	-1.5811251	0.08888509
HOQUE_METHYLATED_IN_CANCER	-1.5809454	0.08887815
PID_ATF2_PATHWAY	-1.5807076	0.08894761
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM4	-1.5804325	0.0890483
GALINDO_IMMUNE_RESPONSE_TO_ENTEROTOXIN	-1.5800512	0.08922506
REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PROSTACYCLIN_RECEPTOR	-1.5796143	0.08935066
HINATA_NFKB_TARGETS_FIBROBLAST_UP	-1.5795392	0.08924371
KEGG_RENIN_ANGIOTENSIN_SYSTEM	-1.5795226	0.08907989
GHANDHI_DIRECT_IRRADIATION_UP	-1.5783875	0.08989861
BIOCARTA_NOS1_PATHWAY	-1.578126	0.08996095
GRADE_COLON_AND_RECTAL_CANCER_DN	-1.5780418	0.089856915
SCHRAETS_MLL_TARGETS_UP	-1.5772396	0.090407625
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN	-1.5771084	0.09035474
NAKAMURA_ADIPOGENESIS_EARLY_DN	-1.5768374	0.0903813
REACTOME_HDL_MEDIATED_LIPID_TRANSPORT	-1.5752221	0.0915633
PETROVA_PROX1_TARGETS_DN	-1.5745323	0.09198144
GESERICK_TERT_TARGETS_DN	-1.5735027	0.09258178
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_UP	-1.5730397	0.0927604
NIELSEN_SCHWANNOMA_DN	-1.572965	0.092654966
LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN	-1.5728273	0.09258216
ROZANOV_MMP14_TARGETS_DN	-1.5726256	0.09256584
TSENG_ADIPOGENIC_POTENTIAL_UP	-1.5723294	0.092656426
NIELSEN_LIPOSARCOMA_UP	-1.5722195	0.09259031
WONG_ENDMETRIUM_CANCER_DN	-1.5720284	0.092553735
HUMMERICH_BENIGN_SKIN_TUMOR_DN	-1.5709064	0.09333786
GUO_HEX_TARGETS_UP	-1.5705788	0.09347147
KYNG_DNA_DAMAGE_BY_4NQO_OR_GAMMA_RADIATION	-1.5705076	0.09336741
SMITH_TERT_TARGETS_DN	-1.5703081	0.093364075
ST_INTEGRIN_SIGNALING_PATHWAY	-1.5698369	0.09363636
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP	-1.5693492	0.09384735
KIM_WT1_TARGETS_UP	-1.5690991	0.09389251
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP	-1.5687898	0.09396704
SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP	-1.568765	0.09379877
BOUDOUKHA_BOUND_BY_IGF2BP2	-1.568638	0.09372834
PID_INTEGRIN3_PATHWAY	-1.5683509	0.09385366
LIN_NPAS4_TARGETS_DN	-1.56802	0.0939048
PID_FRA_PATHWAY	-1.567805	0.09391558
LIU_IL13_MEMORY_MODEL_UP	-1.5676502	0.093877755
HU_ANGIOGENESIS_UP	-1.567584	0.09376705
REACTOME_SIGNALING_BY_PDGF	-1.567364	0.09377925
PID_ARF6_PATHWAY	-1.567283	0.093658604
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP	-1.5663633	0.09424369
HOOI_ST7_TARGETS_UP	-1.5661073	0.094283834
REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	-1.565246	0.09493362
DURAND_STROMA_NS_UP	-1.5651263	0.09485172
SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_DN	-1.5646204	0.095154494
LINDGREN_BLADDER_CANCER_CLUSTER_2B	-1.564515	0.09507035
WESTON_VEGFA_TARGETS_12HR	-1.5644082	0.09497583
AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP	-1.5643635	0.09481965
WEINMANN_ADAPTATION_TO_HYPOXIA_DN	-1.5640689	0.094884224
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_DN	-1.5638651	0.09488176
WIERENGA_STAT5A_TARGETS_GROUP1	-1.5631413	0.09532731
MULLIGHAN_MLL_SIGNATURE_1_DN	-1.563125	0.09516945
HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENESIS	-1.5630897	0.095059134
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP	-1.5629008	0.09506066
LI_WILMS_TUMOR	-1.5628914	0.094902456
BURTON_ADIPOGENESIS_8	-1.562736	0.09487083
KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	-1.5627042	0.094718024
MIKKELSEN_MCV6_HCP_WITH_H3K27ME3	-1.5624636	0.09472369
PID_SYNDECAN_2_PATHWAY	-1.5623127	0.094714746
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_UP	-1.5622195	0.094599165
REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION	-1.5621148	0.09453417

PARENT_MTOR_SIGNALING_DN	-1.5620579	0.0944054
PID_NFAT_TFPATHWAY	-1.5619211	0.09434553
KANG_AR_TARGETS_DN	-1.5617317	0.09435785
BOYLAN_MULTIPLE_MYELOMA_D_UP	-1.5616881	0.09422385
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	-1.56144	0.094352156
KUNINGER_IGF1_VS_PDGFB_TARGETS_DN	-1.5611176	0.09452528
SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER	-1.560841	0.09460288
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN	-1.5601264	0.09499952
LEIN_PONS_MARKERS	-1.5594497	0.0954318
ENK_UV_RESPONSE_EPIDERMIS_DN	-1.5593656	0.09535518
HATADA_METHYLATED_IN_LUNG_CANCER_UP	-1.5593622	0.09519654
MIKKELSEN_ES_LCP_WITH_H3K4ME3	-1.5589321	0.09541919
HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_DN	-1.5588816	0.095293365
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_DN	-1.5587465	0.095262975
BOQUEST_STEM_CELL_DN	-1.5584636	0.09535003
ODONNELL_METASTASIS_UP	-1.5583016	0.09530419
REACTOME_BIOLOGICAL_OXIDATIONS	-1.5581957	0.095250905
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP	-1.5579914	0.09524573
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B	-1.5575725	0.09546366
CORRE_MULTIPLE_MYELOMA_DN	-1.557386	0.095487185
BIOCARTA_GCR_PATHWAY	-1.557343	0.09536673
NGUYEN_NOTCH1_TARGETS_DN	-1.5566754	0.095814064
WESTON_VEGFA_TARGETS	-1.5565288	0.095785774
REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE_TYPE	-1.5558156	0.09628057
KEGG_PHENYLALANINE_METABOLISM	-1.5556611	0.09625593
RIZ_ERYTHROID_DIFFERENTIATION_6HR	-1.5556402	0.09610379
RICKMAN_HEAD_AND_NECK_CANCER_F	-1.5552361	0.09633196
KEGG_RETINOL_METABOLISM	-1.5545399	0.09680422
SILIGAN_BOUND_BY_EWS_FLT1_FUSION	-1.554516	0.09666375
HUANG_FOXA2_TARGETS_UP	-1.5542332	0.0966867
LEE_LIVER_CANCER_CIPROFIBRATE_UP	-1.5540342	0.09669693
BIOCARTA_IL1R_PATHWAY	-1.553206	0.097325586
WOO_LIVER_CANCER_RECURRENCE_UP	-1.5530605	0.097262576
PID_ARF6_TRAFFICKING_PATHWAY	-1.5527256	0.097405605
CHICAS_RB1_TARGETS_CONFLUENT	-1.5525342	0.09740705
DORN_ADENOVIRUS_INFECTION_12HR_UP	-1.5524173	0.09734637
BIOCARTA_VEGF_PATHWAY	-1.5522989	0.09728114
REACTOME_AMINE_LIGAND_BINDING_RECEPTORS	-1.5517216	0.097621605
ZHANG_TARGETS_OF_EWSR1_FLI1_FUSION	-1.5511287	0.09801256
ROY_WOUND_BLOOD_VESSEL_UP	-1.5510052	0.09796461
POS_HISTAMINE_RESPONSE_NETWORK	-1.5501409	0.09861659
LEE_LIVER_CANCER_HEPATOBLAST	-1.549627	0.09894966
KIM_ALL_DISORDERS_CALB1_CORR_DN	-1.5494252	0.09894173
BIOCARTA_CYTOKINE_PATHWAY	-1.5491881	0.09900801
DELASERNA_MYOD_TARGETS_UP	-1.5491606	0.09887873
WU_ALZHEIMER_DISEASE_DN	-1.5488647	0.09896421
GRADE_COLON_VS_RECTAL_CANCER_UP	-1.5485556	0.09910008
FRIDMAN_IMMORTALIZATION_DN	-1.5470127	0.10030256
IIZUKA_LIVER_CANCER_PROGRESSION_G2_G3_UP	-1.5469561	0.100196205
LI_CISPLATIN_RESISTANCE_UP	-1.5469021	0.10008018
RIGGI_EWING_SARCOMA_PROGENITOR_UP	-1.5467086	0.10008369
CHANDRAN_METASTASIS_DN	-1.5466425	0.09998388
KEGG_MTOR_SIGNALING_PATHWAY	-1.5459533	0.10040197
WINNEPENNINCKX_MELANOMA_METASTASIS_DN	-1.5452616	0.100893386
SCHRAMM_INHBA_TARGETS_DN	-1.545115	0.10086314
KATSANOU_ELAVL1_TARGETS_UP	-1.545034	0.10076462
YAGI_AML_WITH_INV_16_TRANSLOCATION	-1.5449228	0.100706376
HUI_MAPK14_TARGETS_UP	-1.5447781	0.100673355
BIOCARTA_IL6_PATHWAY	-1.5446829	0.100618295
PID_INTEGRIN1_PATHWAY	-1.5442823	0.100803964
DITTMER_PTHLH_TARGETS_DN	-1.5437143	0.10118233
PID_SYNDECAN_4_PATHWAY	-1.5436373	0.101093136
MAHAJAN_RESPONSE_TO_IL1A_UP	-1.5432948	0.10128681
REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_RECEPTOR	-1.5429404	0.101430744
KEGG_AXON_GUIDANCE	-1.5428717	0.10131631
KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	-1.5425731	0.101433806
REACTOME_TOLL_RECEPTOR_CASCADES	-1.54225	0.10149227
HOELZEL_NF1_TARGETS_UP	-1.5418519	0.10171015
ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_UP	-1.5417074	0.10166721
PID_INTEGRIN2_PATHWAY	-1.5412987	0.10190103
PID_IL8_CXCR1_PATHWAY	-1.5411233	0.10188876
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN	-1.5409367	0.10186549
PID_PTP1B_PATHWAY	-1.5407051	0.10190296
GUILLAUMOND_KLF10_TARGETS_DN	-1.5406266	0.101828285
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	-1.5404768	0.10182086
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_DN	-1.5401813	0.10200121
VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN	-1.5401396	0.10186734
XU_HGF_SIGNALING_NOT_VIA_AKT1_48HR_UP	-1.5397676	0.10206228
BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_UP	-1.5392128	0.10245238
GYORFFY_MITOXANTRONE_RESISTANCE	-1.5389513	0.10254035

KATSANOU_ELAVL1_TARGETS_DN	-1.5381775	0.103032276
STAMBOLSKY_RESPONSE_TO_VITAMIN_D3_UP	-1.5381238	0.10292283
SANA_TNF_SIGNALING_DN	-1.5378022	0.103013866
REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON_LIKE_PEPTIDE1	-1.5377313	0.10292132
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_5	-1.5376152	0.10286478
SCHURINGA_STAT5A_TARGETS_UP	-1.5375055	0.10279103
REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS	-1.5370992	0.10295193
IKEDA_MIR1_TARGETS_UP	-1.5370946	0.10279441
GOUYER_TATI_TARGETS_DN	-1.5368199	0.102882
KEGG_VEGF_SIGNALING_PATHWAY	-1.5366547	0.10289731
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP	-1.5364847	0.10288798
CHANG_CORE_SERUM_RESPONSE_DN	-1.5361143	0.103028
UDAYAKUMAR_MED1_TARGETS_DN	-1.5358926	0.10304599
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_DN	-1.5357736	0.10297148
BIOCARTA_LAIR_PATHWAY	-1.5351756	0.10335709
ZHENG_IL22_SIGNALING_UP	-1.5350552	0.103340805
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP	-1.5348059	0.103413
REACTOME_METABOLISM_OF_CARBOHYDRATES	-1.5345389	0.10353034
CERVERA_SDHB_TARGETS_2	-1.5342532	0.10362936
PID_RHODOPSIN_PATHWAY	-1.5340805	0.103598244
PID_SHP2_PATHWAY	-1.533765	0.10375839
LINDSTEDT_DENDRITIC_CELL_MATURATION_D	-1.5335962	0.103755735
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_UP	-1.5334495	0.10373123
BURTON_ADIPOGENESIS_PEAK_AT_0HR	-1.533337	0.103659704
JEON_SMAD6_TARGETS_UP	-1.5328226	0.10395074
WESTON_VEGFA_TARGETS_6HR	-1.5327588	0.103836216
REACTOME_HEMOSTASIS	-1.5327164	0.1037226
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREEN_UP	-1.5326134	0.10364958
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP	-1.5325476	0.103564754
MARCHINI_TRABECTEDIN_RESISTANCE_UP	-1.5323403	0.103600115
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINDED_IN_ERYTHROCYTE_UP	-1.5316094	0.104124516
WANG_LSD1_TARGETS_DN	-1.5315993	0.10397795
GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	-1.5315607	0.103860095
BRUECKNER_TARGETS_OF_MIRLET7A3_DN	-1.530548	0.10463105
STREICHER_LSM1_TARGETS_DN	-1.5305396	0.104480974
GHANDHI_BYSTANDER_IRRADIATION_UP	-1.5304819	0.10438734
SENESE_HDAC1_AND_HDAC2_TARGETS_UP	-1.5303962	0.104309626
REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	-1.530256	0.104283236
JOSEPH_RESPONSE_TO_SODIUM_BUTYRATE_UP	-1.5300508	0.104336314
KASLER_HDAC7_TARGETS_2_DN	-1.5292099	0.10496156
WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_DN	-1.5290151	0.10499507
STEGER_ADIPOGENESIS_DN	-1.5286431	0.105171956
PLASARI_NFIC_TARGETS_BASAL_DN	-1.5286112	0.105049215
KANG_IMMORTALIZED_BY_TERT_UP	-1.5279107	0.10556063
BIOCARTA_AGR_PATHWAY	-1.527892	0.1054131
DELACROIX_RAR_BOUND_ES	-1.5278434	0.10530183
PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP	-1.5276212	0.105334915
PID_AVB3_OPN_PATHWAY	-1.5270184	0.10575271
LIEN_BREAST_CARCINOMA_METAPLASTIC	-1.5268093	0.105778605
REACTOME_COLLAGEN_FORMATION	-1.5264179	0.10601221
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	-1.5263793	0.10590334
WESTON_VEGFA_TARGETS_3HR	-1.5262274	0.1059094
SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_2	-1.5259001	0.10605899
AMIT_EGF_RESPONSE_240_MCF10A	-1.5255573	0.10620098
SABATES_COLORECTAL_ADENOMA_DN	-1.525205	0.10633884
MILI_PSEUDOPODIA	-1.5251805	0.1062169
NAKAYAMA_FGF2_TARGETS	-1.5249398	0.106266655
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2	-1.5248699	0.106172085
ABE_VEGFA_TARGETS	-1.5244988	0.1063607
RIGGI_EWING_SARCOMA_PROGENITOR_DN	-1.5242845	0.106419034
KANG_GIST_WITH_PDGFRA_UP	-1.5237379	0.106738195
SASSON_RESPONSE_TO_FORSKOLIN_UP	-1.5232764	0.10697336
BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_DN	-1.5232381	0.10683551
AMIT_EGF_RESPONSE_480_MCF10A	-1.5232034	0.10673053
REACTOME_POTASSIUM_CHANNELS	-1.5231231	0.10667614
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_HSC_UP	-1.5229414	0.10667993
MARKEY_RB1_CHRONIC_LOF_DN	-1.5229234	0.1065475
BOYAULT_LIVER_CANCER_SUBCLASS_G3_DN	-1.522386	0.10694317
VECCHI_GASTRIC_CANCER_EARLY_DN	-1.5222242	0.10692493
SPIRA_SMOKERS_LUNG_CANCER_UP	-1.5216361	0.10727595
JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_DN	-1.5215994	0.10716593
NEWMAN_ERCC6_TARGETS_DN	-1.5213324	0.10725483
VANDESLUIS_NORMAL_EMBRYOS_DN	-1.5211179	0.10729062
BROWNE_HCMV_INFECTION_12HR_DN	-1.5209125	0.10732615
JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_DN	-1.520142	0.10793432
LI_CISPLATIN_RESISTANCE_DN	-1.5200142	0.10786778
BURTON_ADIPOGENESIS_5	-1.5198207	0.1078796
BILD_HRAS_ONCOGENIC_SIGNATURE	-1.519791	0.107750826
RAO_BOUND_BY_SALL4_ISOFORM_A	-1.5195125	0.10784507
LEE_AGING_CEREBELLUM_DN	-1.5187175	0.108405575

REACTOME_ACTIVATION_OF_GENES_BY_ATF4	-1.5184884	0.10848162
REACTOME_PERK_REGULATED_GENE_EXPRESSION	-1.5183115	0.10849511
GENTILE_UV_RESPONSE_CLUSTER_D7	-1.5177461	0.10885485
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A4	-1.517704	0.10875096
GU_PDEF_TARGETS_UP	-1.5173789	0.10889381
TSUNODA_CISPLATIN_RESISTANCE_UP	-1.5173737	0.10875508
VALK_AML_CLUSTER_10	-1.5172571	0.10871812
HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_DN	-1.5171382	0.10870234
SENESE_HDAC3_TARGETS_UP	-1.5167212	0.108913824
REACTOME_GLYCOSAMINOGLYCAN_METABOLISM	-1.5164326	0.10903313
REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS	-1.5156624	0.109656565
GERHOLD_ADIPOGENESIS_DN	-1.5153401	0.10980476
FRIDMAN_SENESCENCE_UP	-1.5143281	0.11062755
REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	-1.5141625	0.110634856
VALK_AML_CLUSTER_9	-1.5139453	0.11071123
SERVITJA_ISLET_HNF1A_TARGETS_UP	-1.5129291	0.111477934
BIOCARTA_NFAT_PATHWAY	-1.5127306	0.11150231
KOBAYASHI_EGFR_SIGNALING_6HR_DN	-1.5125031	0.11155006
REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION	-1.5122031	0.111666225
DEMAGALHAES_AGING_UP	-1.5120038	0.11167135
WANG_CLASSIC_ADIPOGENIC_TARGETS_OF_PPARG	-1.5115	0.11198696
REACTOME_SIGNALING_BY_HIPPO	-1.5111619	0.112198345
MCDOWELL_ACUTE_LUNG_INJURY_DN	-1.5110456	0.112157695
PID_AMB2_NEUTROPHILS_PATHWAY	-1.5109328	0.112133436
REACTOME_TIE2_SIGNALING	-1.5106281	0.11227442
REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	-1.5102122	0.112530015
OSADA_ASCL1_TARGETS_UP	-1.5102059	0.11238759
KUNINGER_IGF1_VS_PDGFB_TARGETS_UP	-1.5099664	0.11246909
WANG_TNF_TARGETS	-1.5099449	0.11234146
BIOCARTA_PDGF_PATHWAY	-1.5096874	0.11245006
MEDINA_SMARCA4_TARGETS	-1.5093197	0.11265857
REACTOME_CA_DEPENDENT_EVENTS	-1.5085828	0.11322339
NAKAMURA_ADIPOGENESIS_LATE_DN	-1.5084673	0.11317397
BIOCARTA_EDG1_PATHWAY	-1.5084614	0.11303091
PETRETTO_CARDIAC_HYPERTROPHY	-1.5079612	0.113313615
BUCKANOVICH_T_LYMPHOCYTE_HOMING_ON_TUMOR_DN	-1.5076177	0.11351102
PARENT_MTOR_SIGNALING_UP	-1.5069048	0.114034764
JOHNSTONE_PARVB_TARGETS_3_UP	-1.5064329	0.11437927
ONGUSAHA_TP53_TARGETS	-1.5058578	0.11473688
NELSON_RESPONSE_TO_ANDROGEN_UP	-1.5057602	0.11466477
BOYAULT_LIVER_CANCER_SUBCLASS_G56_DN	-1.5057409	0.114539094
REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM	-1.5054824	0.11461517
REACTOME_ACTIVATED_NOTCH1_TRANSMITS_SIGNAL_TO_THE_NUCLEUS	-1.5053054	0.11463807
MONNIER_POSTRADIATION_TUMOR_ESCAPE_DN	-1.5050937	0.11468069
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP	-1.504658	0.11495963
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_DN	-1.5042553	0.11519444
KEGG_PYRUVATE_METABOLISM	-1.503931	0.11536011
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	-1.5037364	0.11541847
PID_ER_NONGENOMIC_PATHWAY	-1.5035361	0.11546003
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_DN	-1.5032938	0.11553629
GOLDRATH_IMMUNE_MEMORY	-1.503147	0.11549338
WINTER_HYPOXIA_UP	-1.5030329	0.115441576
MILI_PSEUDOPODIA_CHEMOTAXIS_DN	-1.5027026	0.11561207
KAYO_AGING_MUSCLE_UP	-1.501706	0.116427094
MIKKELSEN_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	-1.5016978	0.11629486
KAYO_AGING_MUSCLE_DN	-1.501478	0.1163767
LEI_HOXC8_TARGETS_DN	-1.5014623	0.11623645
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN	-1.5009735	0.11655279
KEGG_DILATED_CARDIOMYOPATHY	-1.4997407	0.117647186
VERHAAK_GLIOBLASTOMA_MESENCHYMAL	-1.4995219	0.11767836
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_DN	-1.499298	0.11773258
MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH	-1.4984816	0.118345186
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_UP	-1.4984407	0.11822459
KEGG_PRION_DISEASES	-1.4979812	0.1185443
BIOCARTA_EGF_PATHWAY	-1.4976841	0.11869633
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR	-1.4976795	0.11854624
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_UP	-1.4973925	0.11865539
NABA_PROTEOGLYCANS	-1.4969927	0.11885789
KEGG_PATHWAYS_IN_CANCER	-1.4969798	0.11872236
ISSAEVA_MLL2_TARGETS	-1.4969237	0.118610896
KEGG_STARCH_AND_SUCROSE_METABOLISM	-1.4968591	0.11853184
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP	-1.4968543	0.118384354
ODONNELL_TFRC_TARGETS_UP	-1.4964101	0.11865117
KEGG_MELANOMA	-1.4962007	0.11870951
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	-1.4951161	0.119659245
WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_UP	-1.4950196	0.119599044
RODWELL_AGING_KIDNEY_NO_BLOOD_UP	-1.4942787	0.12017038
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_DN	-1.4940301	0.120300554
PID_S1P_S1P3_PATHWAY	-1.4937763	0.12040921
SASSON_RESPONSE_TO_GONADOTROPHINS_UP	-1.4932027	0.120787226

MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP	-1.4923191	0.12151908
OXFORD_RALA_OR_RALB_TARGETS_DN	-1.4922951	0.12140312
WIERENGA_STAT5A_TARGETS_GROUP2	-1.492291	0.12125735
WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_DN	-1.4920466	0.12134806
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_UP	-1.4914175	0.121864304
NADERI_BREAST_CANCER_PROGNOSIS_DN	-1.4912114	0.12192138
NABA_BASEMENT_MEMBRANES	-1.4911032	0.12186715
TSENG_IRS1_TARGETS_UP	-1.4908137	0.12200742
VERHAAK_AML_WITH_NPM1_MUTATED_UP	-1.4897369	0.12292593
REACTOME_PLATELET_SENSITIZATION_BY_LDL	-1.4896624	0.12285636
HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	-1.489609	0.122741535
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16	-1.488762	0.12350274
REACTOME_CHYLOMICRON_MEDIATED_LIPID_TRANSPORT	-1.488024	0.12407929
CHEN_ETV5_TARGETS_SERTOLI	-1.4875789	0.12437782
BIOCARTA_TPO_PATHWAY	-1.4873672	0.12439864
BROWNE_HCMV_INFECTION_20HR_DN	-1.4872196	0.12439963
OLSSON_E2F3_TARGETS_UP	-1.4867798	0.12468807
NOUSHMEHR_GBM_SILENCED_BY_METHYLATION	-1.4867183	0.12458624
HAMAI_APOPTOSIS_VIA_TRAIL_DN	-1.4863245	0.12478341
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_UP	-1.4860756	0.124894455
THUM_SYSTOLIC_HEART_FAILURE_UP	-1.4858966	0.12492622
MASRI_RESISTANCE_TO_TAMOXIFEN_AND_AROMATASE_INHIBITORS_DN	-1.4851614	0.12553097
DE_YY1_TARGETS_UP	-1.4849831	0.1255889
RAMASWAMY_METASTASIS_DN	-1.4840357	0.12636475
CAIRO_LIVER_DEVELOPMENT_UP	-1.4837775	0.12647696
JIANG_AGING_CEREBRAL_CORTEX_UP	-1.4836298	0.12647727
COULOUARN_TEMPORAL_TGFB1_SIGNATURE_DN	-1.483623	0.12632516
DAZARD_RESPONSE_TO_UV_SCC_UP	-1.4830158	0.12676042
LEE_LIVER_CANCER_DENA_UP	-1.482967	0.1266444
REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	-1.482712	0.12675641
ROPERO_HDAC2_TARGETS	-1.4822252	0.12715235
VERRECCHIA_RESPONSE_TO_TGFB1_C1	-1.4817868	0.12742054
ST_ERK1_ERK2_MAPK_PATHWAY	-1.4815649	0.12748548
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_UP	-1.4802274	0.12871589
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_DN	-1.480073	0.12871924
MIKKELSEN_IPS_LCP_WITH_H3K4ME3	-1.4799056	0.12873545
BIOCARTA_SPPA_PATHWAY	-1.4794574	0.1290087
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_DN	-1.4793876	0.12894443
SIMBULAN_PARP1_TARGETS_UP	-1.4792339	0.12893593
BONOME_OVARIAN_CANCER_SURVIVAL_OPTIMAL_DEBULKING	-1.4789103	0.12910408
ABE_VEGFA_TARGETS_2HR	-1.4788235	0.12901035
KEGG_GLYCEROLIPID_METABOLISM	-1.4787077	0.12899281
ZHAN_MULTIPLE_MYELOMA_MF_UP	-1.4786829	0.1288573
GAZDA_DIAMOND_BLACKFAN_ANEMIA_MYELOID_UP	-1.4784341	0.12894845
QI_HYPOXIA_TARGETS_OF_HIF1A_AND_FOXA2	-1.4782497	0.12898943
KAAB_FAILED_HEART_ATRIUM_DN	-1.4780636	0.12904243
MADAN_DPPA4_TARGETS	-1.4779838	0.12894922
DING_LUNG_CANCER_MUTATED_SIGNIFICANTLY	-1.4774942	0.1292961
YAMASHITA_LIVER_CANCER_STEM_CELL_DN	-1.477214	0.12942888
ABE_VEGFA_TARGETS_30MIN	-1.4771501	0.12931904
TSAI_RESPONSE_TO_RADIATION_THERAPY	-1.4766895	0.12965126
PID_TOLL_ENDOGENOUS_PATHWAY	-1.4763023	0.1299113
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_DN	-1.4759444	0.13013649
ROME_INSULIN_TARGETS_IN_MUSCLE_UP	-1.4757231	0.13023368
MCGOWAN_RSP6_TARGETS_UP	-1.475427	0.13039334
PID_INTEGRIN_A4B1_PATHWAY	-1.4753373	0.13032573
FOURNIER_ACINAR_DEVELOPMENT_EARLY_UP	-1.475116	0.13038905
JEPSEN_SMRT_TARGETS	-1.4749007	0.13045661
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN	-1.4742936	0.13087238
ABBUD_LIF_SIGNALING_1_UP	-1.4734819	0.13156374
KARLSSON_TGFB1_TARGETS_DN	-1.4730093	0.1319107
LEE_CALORIE_RESTRICTION_NEOCORTEX_DN	-1.472753	0.13201512
KEGG_LONG_TERM_DEPRESSION	-1.4725999	0.13205077
PID_SYNDECAN_3_PATHWAY	-1.4725647	0.13193403
HELLER_HDAC_TARGETS_UP	-1.4724286	0.13194433
PID_RXR_VDR_PATHWAY	-1.4724107	0.13181487
REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACTIVATION	-1.472007	0.13207825
BIOCARTA_IGF1_PATHWAY	-1.4715533	0.1323459
SIMBULAN_UV_RESPONSE_IMMORTALIZED_DN	-1.4712627	0.13247675
SHEPARD_CRUSH_AND_BURN_MUTANT_UP	-1.4710721	0.13249776
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	-1.4704174	0.13301139
KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY	-1.4702481	0.13303605
BIDUS_METASTASIS_DN	-1.4700925	0.13304974
IVANOVA_HEMATOPOIESIS_STEM_CELL	-1.4698308	0.13318688
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN	-1.4695752	0.133308
MULLIGHAN_MLL_SIGNATURE_2_DN	-1.4692254	0.13348174
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_UP	-1.469194	0.1333606
ALONSO_METASTASIS_DN	-1.4689226	0.13350774
LIEN_BREAST_CARCINOMA_METAPLASTIC_VS_DUCTAL_UP	-1.4689045	0.13337623
TERAMOTO_OPN_TARGETS_CLUSTER_6	-1.4687654	0.13336599

CHO_NR4A1_TARGETS	-1.4685956	0.13336787
BIOCARTA_ECM_PATHWAY	-1.4680492	0.13382421
DELACROIX_RAR_TARGETS_UP	-1.4679749	0.13376588
BIOCARTA_KERATINOCYTE_PATHWAY	-1.4677116	0.13387352
INGRAM_SHH_TARGETS_DN	-1.4668633	0.1345737
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_2_DN	-1.466542	0.1347478
MARTINEZ_RB1_TARGETS_DN	-1.4664092	0.13473451
FIGUEROA_AML_METHYLATION_CLUSTER_1_UP	-1.4662505	0.13473907
WENG_POR_DOSAGE	-1.4656535	0.1351918
WOO_LIVER_CANCER_RECURRENCE_DN	-1.4649068	0.1358313
KIM_GLIS2_TARGETS_UP	-1.4645143	0.13607585
MEISSNER_NPC_HCP_WITH_H3K4ME3_AND_H3K27ME3	-1.4644989	0.13594241
REACTOME_AXON_GUIDANCE	-1.4643425	0.13593622
REACTOME_SIGNALING_BY_FGFR	-1.4641713	0.13594265
TARTE_PLASMA_CELL_VS_PLASMABLAST_UP	-1.4641529	0.13580242
OHGUCHI_LIVER_HNF4A_TARGETS_DN	-1.4640123	0.13580593
REACTOME_FRS2_MEDIATED_CASCADE	-1.4628948	0.1367797
REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS	-1.4625448	0.13701178
KYNG_RESPONSE_TO_H2O2	-1.4625205	0.13688353
OSADA_ASCL1_TARGETS_DN	-1.4623593	0.13689984
HOSHIDA_LIVER_CANCER_SURVIVAL_DN	-1.4623051	0.13679993
GENTILE_UV_RESPONSE_CLUSTER_D1	-1.4621559	0.13682622
LAIHO_COLORECTAL_CANCER_SERRATED_UP	-1.4618772	0.1370148
XU_RESPONSE_TO_TRETINOIN_AND_NSC682994_UP	-1.4618342	0.13691571
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	-1.4616421	0.1369644
LEIN_ASTROCYTE_MARKERS	-1.4616174	0.13684255
KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION	-1.461085	0.13722175
MCCABE_HOXC6_TARGETS_CANCER_UP	-1.4606622	0.13756615
JOHNSTONE_PARVB_TARGETS_1_DN	-1.4605937	0.13746868
BIOCARTA_MET_PATHWAY	-1.4597903	0.13817257
BIOCARTA_AMI_PATHWAY	-1.459743	0.13805245
LEE_LIVER_CANCER_ACOX1_UP	-1.4594547	0.13823724
MIKKELSEN_NPC_HCP_WITH_H3K27ME3	-1.4591495	0.13840106
GOZGIT_ESR1_TARGETS_UP	-1.4590579	0.13832468
ZHOU_INFLAMMATORY_RESPONSE_LPS_UP	-1.4590496	0.13817799
SESTO_RESPONSE_TO_UV_C6	-1.4585091	0.13858196
FULCHER_INFLAMMATORY_RESPONSE_LECTIN_VS_LPS_UP	-1.4584169	0.13851786
KEGG_ABC_TRANSPORTERS	-1.4583957	0.13839194
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN	-1.4578242	0.13885018
RORIE_TARGETS_OF_EWSR1_FLI1_FUSION_UP	-1.4577096	0.13881788
PECE_MAMMARY_STEM_CELL_UP	-1.45729	0.13909511
BROWNE_HCMV_INFECTION_14HR_DN	-1.4572157	0.13901179
ABE_INNER_EAR	-1.4569002	0.13917741
PID_ERBB1_DOWNSTREAM_PATHWAY	-1.4543366	0.14176397
BIOCARTA_STEM_PATHWAY	-1.4542146	0.14176987
BIOCARTA_ERK_PATHWAY	-1.4541833	0.14164975
SUBTIL_PROGESTIN_TARGETS	-1.4536608	0.14208592
BASAKI_YBX1_TARGETS_DN	-1.4534845	0.14212552
PID_FAK_PATHWAY	-1.4528718	0.1426759
TENEDINI_MEGAKARYOCYTE_MARKERS	-1.4527165	0.14267926
GROSS_ELK3_TARGETS_UP	-1.4521081	0.1431728
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	-1.4520733	0.14306666
MARTINEZ_RESPONSE_TO_TRABECTEDIN_UP	-1.4520022	0.14298888
NIELSEN_LEIOMYOSARCOMA_CNN1_UP	-1.4515921	0.14324215
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP	-1.4512328	0.14345105
TAKAO_RESPONSE_TO_UVB_RADIATION_DN	-1.4509066	0.14360745
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_D	-1.4506052	0.14377846
SESTO_RESPONSE_TO_UV_C3	-1.4504261	0.14379016
LABBE_WNT3A_TARGETS_DN	-1.4503752	0.14368205
KEGG_TYPE_II_DIABETES_MELLITUS	-1.450327	0.14358708
CROONQUIST_IL6_DEPRIVATION_UP	-1.4502933	0.14346631
ZIRN_TRETINOIN_RESPONSE_WT1_UP	-1.4498067	0.14380354
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_DN	-1.4497912	0.14367235
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN	-1.4495037	0.14385289
ONDER_CDH1_TARGETS_1_UP	-1.4493369	0.1438391
CROMER_TUMORIGENESIS_UP	-1.4493272	0.14369643
LIU_LIVER_CANCER	-1.4493039	0.14356028
REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE	-1.4485233	0.14420316
REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_METABOLISM	-1.4478695	0.14467494
ROLEF_GLIS3_TARGETS	-1.4478557	0.14454247
REACTOME_SMOOTH_MUSCLE_CONTRACTION	-1.4476044	0.14464155
LEE_AGING_MUSCLE_DN	-1.4474006	0.1447011
WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER	-1.4472936	0.14465192
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_UP	-1.4472383	0.1445642
HUMMERICH_SKIN_CANCER_PROGRESSION_UP	-1.4470754	0.14456894
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_DN	-1.446925	0.1445909
ZHONG_RESPONSE_TO_AZACITIDINE_AND_TSA_UP	-1.4469025	0.14445856
HAN_SATB1_TARGETS_UP	-1.44686	0.1443414
GAUSSMANN_MLL_AF4_FUSION_TARGETS_G_UP	-1.4468572	0.14419149
HOELZEL_NF1_TARGETS_DN	-1.4468386	0.14405541

GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_GREY_UP	-1.4464386	0.14435172
REACTOME_ENOS_ACTIVATION_AND_REGULATION	-1.4459896	0.14466082
JACKSON_DNMT1_TARGETS_UP	-1.445621	0.14490116
DAZARD_RESPONSE_TO_UV_NHEK_UP	-1.4455454	0.14483115
GENTILE_UV_HIGH_DOSE_UP	-1.4454808	0.14474303
SHIN_B_CELL_LYMPHOMA_CLUSTER_5	-1.4453973	0.1446976
BIOCARTA_ALK_PATHWAY	-1.4445578	0.14544356
KEGG_GNRH_SIGNALING_PATHWAY	-1.4442286	0.14565007
ST_WNT_BETA_CATENIN_PATHWAY	-1.4438775	0.14586434
CAIRO_LIVER_DEVELOPMENT_DN	-1.4438037	0.14578377
LABBE_TGFB1_TARGETS_DN	-1.4437425	0.1457036
HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN	-1.443679	0.14561297
CHENG_RESPONSE_TO_NICKEL_ACETATE	-1.4433339	0.14584151
REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_ACTIVATED_RECEPTORS_PARS	-1.4432886	0.14575197
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_DN	-1.4428419	0.146044
PID_IL8_CXCR2_PATHWAY	-1.4428396	0.14589696
ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_UP	-1.4421916	0.14646584
CARD_MIR302A_TARGETS	-1.4414613	0.14708592
WENG_POR_TARGETS_LIVER_UP	-1.4413766	0.14702891
WU_CELL_MIGRATION	-1.4413106	0.14694998
VANLOO_SP3_TARGETS_DN	-1.4412868	0.1468192
FERRARI_RESPONSE_TO_FENRETINIDE_UP	-1.4411705	0.14679417
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	-1.4409168	0.14688957
BIOCARTA_TFF_PATHWAY	-1.4408157	0.1468555
KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_METABOLISM	-1.4406542	0.14687127
GRABARCZYK_BCL11B_TARGETS_UP	-1.4406307	0.14674097
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	-1.4404672	0.146773
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP	-1.4395871	0.14756033
REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS	-1.4395539	0.14743745
PUIFFE_INVASION_INHIBITED_BY_ASCITES_DN	-1.4394995	0.14735179
NIKOLSKY_BREAST_CANCER_7P22_AMPLICON	-1.4394817	0.14722879
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_DN	-1.4394115	0.14716277
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	-1.4393177	0.14712211
DAZARD_UV_RESPONSE_CLUSTER_G28	-1.4391892	0.14713988
RAGHAVACHARI_PLATELET_SPECIFIC_GENES	-1.4390063	0.14718904
LI_ADIPOGENESIS_BY_ACTIVATED_PPARG	-1.4389583	0.14709829
BROCKE_APOPTOSIS_REVERSED_BY_IL6	-1.438215	0.14776479
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_DN	-1.4382052	0.14762762
REACTOME_NEURONAL_SYSTEM	-1.4381391	0.14754935
ROZANOV_MMP14_TARGETS_UP	-1.4378853	0.14765152
KEGG_ETHER_LIPID_METABOLISM	-1.4373205	0.14815328
REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	-1.4372829	0.1480285
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP	-1.4372556	0.14791322
STEGER_ADIPOGENESIS_UP	-1.436722	0.14831305
KOYAMA_SEMA3B_TARGETS_UP	-1.4365629	0.14832135
DORN_ADENOVIRUS_INFECTION_24HR_DN	-1.4364129	0.14833902
REACTOME_A_TETRASACCHARIDE_LINKER_SEQUENCE_IS_REQUIRED_FOR_GAG_SYNTHESIS	-1.4351909	0.14955156
GAVIN_FOXP3_TARGETS_CLUSTER_P4	-1.435134	0.14945002
WANG_ESOPHAGUS_CANCER_VS_NORMAL_DN	-1.4350667	0.14936744
IKEDA_MIR30_TARGETS_UP	-1.4349351	0.14934553
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN	-1.434759	0.14939944
VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN	-1.4346504	0.14935502
GOTZMANN_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	-1.4344122	0.14943728
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP	-1.4337281	0.1500086
PID_AR_NONGENOMIC_PATHWAY	-1.433707	0.1498844
MANN_RESPONSE_TO_AMIFOSTINE_UP	-1.4332498	0.15024288
MULLIGHAN_NPM1_SIGNATURE_3_DN	-1.4331506	0.1501809
LEE_LIVER_CANCER_E2F1_UP	-1.4331352	0.15005282
HOWLIN_CITED1_TARGETS_1_DN	-1.433099	0.14996079
THUM_MIR21_TARGETS_HEART_DISEASE_UP	-1.4324484	0.15052056
KEGG_STEROID_HORMONE_BIOSYNTHESIS	-1.4324353	0.15038423
BIOCARTA_GSK3_PATHWAY	-1.4323809	0.15028448
DASU_IL6_SIGNALING_UP	-1.4314911	0.1511144
REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_ADRENALINE_NORADRENALINE	-1.4314811	0.15097223
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_UP	-1.4303067	0.15204875
CASTELLANO_NRAS_TARGETS_UP	-1.4291176	0.1531492
SASSON_RESPONSE_TO_GONADOTROPHINS_DN	-1.4287778	0.15342028
FIGUEROA_AML_METHYLATION_CLUSTER_5_DN	-1.4283785	0.15371892
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	-1.4283493	0.15360266
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP	-1.4281908	0.15364826
BIOCARTA_INSULIN_PATHWAY	-1.4279387	0.15376826
ZHOU_TNF_SIGNALING_4HR	-1.4277717	0.15379083
LEIN_MIDBRAIN_MARKERS	-1.4271296	0.15436189
DAVICIONI_PAX_FOXO1_SIGNATURE_IN_ARMS_DN	-1.4266313	0.15476535
DORN_ADENOVIRUS_INFECTION_48HR_DN	-1.4263331	0.15495251
BURTON_ADIPOGENESIS_10	-1.4249818	0.15623002
NIELSEN_LEIOMYOSARCOMA_CNN1_DN	-1.4243703	0.15672919
INGA_TP53_TARGETS	-1.4225347	0.15846968
HOOI_ST7_TARGETS_DN	-1.4215132	0.15941285
KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	-1.4212086	0.15957652

SMID_BREAST_CANCER_LUMINAL_A_UP	-1.4207767	0.15984364
MIKKELSEN_IPS_ICP_WITH_H3K4ME3_AND_H327ME3	-1.4205712	0.15992345
NUTT_GBM_VS_AO_GLIOMA_UP	-1.4202898	0.16008331
TAVAZOIE_METASTASIS	-1.4201168	0.160147
BIOCARTA_CCR3_PATHWAY	-1.4198129	0.16031154
SATO_SILENCED_BY_METHYLATION_IN_PANCREATIC_CANCER_1	-1.4195487	0.160499
MARIADASON_REGULATED_BY_HISTONE_ACETYLATION_UP	-1.419486	0.16040657
KANG_AR_TARGETS_UP	-1.4193175	0.16044211
PAL_PRMT5_TARGETS_DN	-1.4192073	0.1603957
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_DN	-1.418987	0.16049579
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_DN	-1.4181479	0.16118258
ZEMBUTSU_SENSITIVITY_TO_MITOMYCIN	-1.4180484	0.16112432
REACTOME_COMPLEMENT_CASCADE	-1.4177092	0.1613362
REACTOME_SEMAPHORIN_INTERACTIONS	-1.4176106	0.16129805
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_DN	-1.4172676	0.1615285
KRIEG_HYPOXIA_VIA_KDM3A	-1.4172051	0.16144595
KEGG_INSULIN_SIGNALING_PATHWAY	-1.4170123	0.1614895
GILDEA_METASTASIS	-1.4168868	0.16149525
WATTEL_AUTONOMOUS_THYROID_ADENOMA_DN	-1.4167209	0.16155206
KEGG_REGULATION_OF_ACTIN_CYTOSKELETON	-1.415861	0.16232666
HORIUCHI_WTAP_TARGETS_UP	-1.4147947	0.16328423
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN	-1.4146242	0.1633134
ONKEN_UVEAL_MELANOMA_DN	-1.4146098	0.16318442
SEIDEN_ONCOGENESIS_BY_MET	-1.4145149	0.16313052
REACTOME_EGFR_DOWNREGULATION	-1.4135771	0.16400667
REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT	-1.4134405	0.16399081
KIM_ALL_DISORDERS_OLIGODENDROCYTE_NUMBER_CORR_DN	-1.4125428	0.16486065
REACTOME_SHC_MEDIATED_CASCADE	-1.4124056	0.1648478
WANG_HCP_PROSTATE_CANCER	-1.4122198	0.16493253
DARWICHE_PAPILLOMA_RISK_HIGH_DN	-1.4119931	0.16500914
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN	-1.4119576	0.16488999
ZIRN_TRETINOIN_RESPONSE_UP	-1.4117302	0.16498435
REACTOME_GLYCOLYSIS	-1.4112718	0.16533954
BOYAULT_LIVER_CANCER_SUBCLASS_G2	-1.4108171	0.16571474
VALK_AML_CLUSTER_13	-1.4104937	0.1659038
CHESLER_BRAIN_HIGHEST_EXPRESSION	-1.4103819	0.16587098
PID_HDAC_CLASSIII_PATHWAY	-1.4100292	0.1661332
PID_REG_GR_PATHWAY	-1.41002	0.16598822
MA_PITUITARY_FETAL_VS_ADULT_UP	-1.4098874	0.16599484
REACTOME_G_ALPHA_I_SIGNALLING_EVENTS	-1.4097222	0.16605519
LENAOUR_DENDRITIC_CELL_MATURATION_UP	-1.4093765	0.16625588
KEGG_JAK_STAT_SIGNALING_PATHWAY	-1.4088519	0.16669631
PHONG_TNF_RESPONSE_NOT_VIA_P38	-1.4088253	0.16656765
CHIANG_LIVER_CANCER_SUBCLASS_UNANNOTATED_UP	-1.4086034	0.16666646
LIU_VAV3_PROSTATE_CARCINOGENESIS_UP	-1.4085224	0.16659218
TOOKER_GEMCITABINE_RESISTANCE_DN	-1.4084524	0.16652425
GRAHAM_CML_QUIESCENT_VS_NORMAL_DIVIDING_UP	-1.4081503	0.16667815
POMEROY_MEDULLOBLASTOMA_PROGNOSIS_UP	-1.4080235	0.16666442
ENGELMANN_CANCER_PROGENITORS_UP	-1.4080181	0.1665145
MEISSNER_NPC_HCP_WITH_H3_UNMETHYLATED	-1.4070017	0.16752881
SEKI_INFLAMMATORY_RESPONSE_LPS_UP	-1.406443	0.16798982
VALK_AML_WITH_EVI1	-1.406249	0.16804947
KIM_MYC_AMPLIFICATION_TARGETS_UP	-1.4057059	0.16850871
CHEBOTAEV_GR_TARGETS_UP	-1.4051421	0.16900851
XU_GH1_EXOGENOUS_TARGETS_DN	-1.4051274	0.16888116
KAAB_FAILED_HEART_ATRIUM_UP	-1.4050106	0.16885509
PASINI_SUZ12_TARGETS_UP	-1.404814	0.16890053
BROWNE_HCMV_INFECTION_10HR_UP	-1.4046112	0.16897173
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN	-1.4045376	0.16889265
CHIBA_RESPONSE_TO_TSA	-1.4035734	0.1697762
TAVOR_CEBPA_TARGETS_UP	-1.4035547	0.16963068
TIAN_TNF_SIGNALING_VIA_NFKB	-1.4033943	0.16965967
BIOCARTA_HDAC_PATHWAY	-1.4031569	0.16976883
ZWANG_CLASS_1_TRANSIENTLY_INDUCED_BY_EGF	-1.4031552	0.16961573
BREDEMEYER_RAG_SIGNALING_NOT_VIA_ATM_DN	-1.4030446	0.16958867
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_UV_IN_OLD	-1.402962	0.16952722
CHANG_IMMORTALIZED_BY_HPV31_UP	-1.4019295	0.17052956
BIOCARTA_CTCF_PATHWAY	-1.401249	0.17110136
CHYLA_CBFA2T3_TARGETS_UP	-1.4012146	0.1709888
ROSS_LEUKEMIA_WITH_MLL_FUSIONS	-1.40111	0.17095082
BROWNE_HCMV_INFECTION_1HR_UP	-1.4008497	0.17108352
STAEGE_EWING_FAMILY_TUMOR	-1.4004539	0.17136478
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_DN	-1.4001664	0.17150335
WOOD_EBV_EBNA1_TARGETS_UP	-1.3998629	0.17170477
REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR	-1.3995202	0.17195585
REACTOME_L1CAM_INTERACTIONS	-1.3993899	0.17195685
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN	-1.3987045	0.17255257
LENAOUR_DENDRITIC_CELL_MATURATION_DN	-1.3984025	0.17272677
FONTAINE_FOLLICULAR_THYROID_ADENOMA_DN	-1.3983916	0.1725862
REACTOME_ACTIVATED_POINT_MUTANTS_OF_FGFR2	-1.3981382	0.17272395

MCCLUNG_COCAIN_REWARD_4WK	-1.3976233	0.17314658
PLASARI_TGFB1_TARGETS_10HR_DN	-1.3974445	0.1731912
SASSON_RESPONSE_TO_FORSKOLIN_DN	-1.3963933	0.17423825
BIOCARTA_INFLAM_PATHWAY	-1.396098	0.17447037
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_DN	-1.3960775	0.1743391
ROSS_ACUTE_MYELOID_LEUKEMIA_CBF	-1.3954751	0.17488578
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_DN	-1.3948077	0.17546804
LINDVALL_IMMORTALIZED_BY_TERT_UP	-1.3946352	0.1755032
HEIDENBLAD_AMPLICON_12P11_12_UP	-1.3944592	0.17553696
GENTILE_UV_RESPONSE_CLUSTER_D9	-1.3942636	0.17561156
VALK_AML_CLUSTER_4	-1.3940992	0.17566128
ALCALAY_AML_BY_NPM1_LOCALIZATION_UP	-1.3939354	0.17568949
NAKAMURA_METASTASIS	-1.3937901	0.1756925
SUZUKI_RESPONSE_TO_TSA	-1.393544	0.1757928
ONDER_CDH1_TARGETS_3_UP	-1.3931917	0.17604993
KAYO_CALORIE_RESTRICTION_MUSCLE_DN	-1.3931241	0.17596595
PHONG_TNF_RESPONSE_VIA_P38_COMPLETE	-1.3929118	0.17603573
DURCHDEWALD_SKIN_CARCINOGENESIS_UP	-1.3928599	0.17595026
PARK_APL_PATHOGENESIS_DN	-1.3927951	0.17587997
REACTOME_GABA_B_RECEPTOR_ACTIVATION	-1.3925953	0.17597036
ANASTASSIOU_CANCER_MESENCHYMAL_TRANSITION_SIGNATURE	-1.3924637	0.17595965
PID_AVB3_INTEGRIN_PATHWAY	-1.3924028	0.17585522
KOKKINAKIS_METHIONINE_DEPRIVATION_48HR_UP	-1.3922628	0.17586976
ST_G_ALPHA_S_PATHWAY	-1.3920563	0.17594516
RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN	-1.3919728	0.17588276
BRUNO_HEMATOPOIESIS	-1.3915962	0.1761747
KEGG_TASTE_TRANSDUCTION	-1.3913974	0.17624964
DAWSON_METHYLATED_IN_LYMPHOMA_TCL1	-1.3913394	0.17615752
REACTOME_IL1_SIGNALING	-1.3902285	0.17721763
ASTON_MAJOR_DEPRESSIVE_DISORDER_UP	-1.3899046	0.17739832
BILANGES_SERUM_SENSITIVE_GENES	-1.389648	0.17753865
MEISSNER_NPC_HCP_WITH_H3K4ME2_AND_H3K27ME3	-1.389236	0.1778302
CHIBA_RESPONSE_TO_TSA_DN	-1.3887241	0.17823243
PID_VEGFR1_2_PATHWAY	-1.3886561	0.17815584
ZEMBUTSU_SENSITIVITY_TO_CYCLOPHOSPHAMIDE	-1.3886187	0.17804202
DUTERTRE_ESTRADIOL_RESPONSE_24HR_DN	-1.388315	0.17822392
BIOCARTA_NTHI_PATHWAY	-1.3881023	0.17831455
REACTOME_XENOBIOTICS	-1.3878596	0.17843911
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN	-1.3873836	0.17877981
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_UP	-1.3872317	0.17880106
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	-1.3870642	0.1787981
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_DN	-1.3867714	0.17899464
HADDAD_T_LYMPHOCYTE_AND_NK_PROGENITOR_UP	-1.3867239	0.17889455
HELLER_SILENCED_BY_METHYLATION_DN	-1.3864338	0.17905249
AZARE_STAT3_TARGETS	-1.3863946	0.17892973
HINATA_NFKB_TARGETS_KERATINOCYTE_UP	-1.3861117	0.17910329
BIOCARTA_CALCINEURIN_PATHWAY	-1.3851658	0.18002279
REACTOME_OLFACTORY_SIGNALING_PATHWAY	-1.385163	0.17987356
VERHAAK_GLIOBLASTOMA_CLASSICAL	-1.3847058	0.18024503
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_D7_DN	-1.3840088	0.18090726
TIEN_INTESTINE_PROBIOTICS_24HR_DN	-1.3836627	0.18113677
WARTERS_IR_RESPONSE_5GY	-1.3835427	0.18113576
WATANABE_RECTAL_CANCER_RADIOTHERAPY_RESPONSIVE_DN	-1.3826168	0.18202417
REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	-1.3816509	0.18297207
KEGG_BETA_ALANINE_METABOLISM	-1.3804781	0.18416843
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_4	-1.380285	0.18423116
VALK_AML_WITH_FLT3_ITD	-1.3800315	0.18434267
REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VASCULAR_WALL	-1.3795623	0.18472189
KANNAN_TP53_TARGETS_UP	-1.3794354	0.1846986
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_DN	-1.3792115	0.18479288
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_DN	-1.3789463	0.1849414
SEKI_INFLAMMATORY_RESPONSE_LPS_DN	-1.3788733	0.18487392
DACOSTA_UV_RESPONSE_VIA_ERCC3_TTD_DN	-1.3783343	0.1853233
CHESLER_BRAIN_HIGHEST_GENETIC_VARIANCE	-1.3778139	0.18578826
MOOTHA_PGC	-1.3775271	0.18594553
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_UP	-1.3771154	0.18629748
REACTOME_SIGNALING_BY_FGFR_IN_DISEASE	-1.3769642	0.18630306
GENTILE_UV_RESPONSE_CLUSTER_D8	-1.3767972	0.18632898
REACTOME_HS_GAG_BIOSYNTHESIS	-1.3760908	0.18699346
VALK_AML_CLUSTER_15	-1.3756231	0.18733422
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_DN	-1.3744233	0.18852891
KEGG_OLFACTORY_TRANSDUCTION	-1.3743771	0.18842591
HAHTOLA_CTCL_CUTANEOUS	-1.3736227	0.18909031
IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	-1.3733431	0.18922462
OHGUCHI_LIVER_HNF4A_TARGETS_UP	-1.3729073	0.18952571
PID_TCPTP_PATHWAY	-1.37276	0.18956193
MATSUDA_NATURAL_KILLER_DIFFERENTIATION	-1.3726797	0.18949644
XU_HGF_TARGETS_REPRESSED_BY_AKT1_DN	-1.3724469	0.18961117
NATSUME_RESPONSE_TO_INTERFERON_BETA_DN	-1.3724085	0.18949464
PID_RAS_PATHWAY	-1.3723229	0.1894143

REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PLASMA_MEMBRANE	-1.3723123	0.1892678
PID_LYMPH_ANGIOGENESIS_PATHWAY	-1.3719326	0.18952735
REACTOME_GLUCONEOGENESIS	-1.3703494	0.19117194
YIH_RESPONSE_TO_ARSENITE_C4	-1.3701584	0.19123518
WANG_RESPONSE_TO_BEXAROTENE_DN	-1.3697001	0.19160622
HASLINGER_B_CLL_WITH_11Q23_DELETION	-1.3696449	0.19150169
AMIT_EGF_RESPONSE_480_HELA	-1.3696419	0.19134845
HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP	-1.3692942	0.19156866
SCIAN_INVERSED_TARGETS_OF_TP53_AND_TP73_DN	-1.3687253	0.19209829
HUTTMANN_B_CLL_POOR_SURVIVAL_UP	-1.367789	0.19304988
LEIN_OLIGODENDROCYTE_MARKERS	-1.367719	0.19297113
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	-1.3675385	0.1930511
RIGGINS_TAMOXIFEN_RESISTANCE_UP	-1.3672411	0.19323663
MITSIADES_RESPONSE_TO_APLIDIN_UP	-1.3671799	0.19315746
WANG_LSD1_TARGETS_UP	-1.3669974	0.19321415
VANDESLUIS_COMMD1_TARGETS_GROUP_4_UP	-1.3669227	0.19316304
HOWLIN_CITED1_TARGETS_1_UP	-1.3667961	0.19316971
SHI_SPARC_TARGETS_UP	-1.3665519	0.1933065
GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_UP	-1.3663617	0.19339989
LEE_AGING_NEOCORTEX_DN	-1.3662393	0.19338924
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_UP	-1.3660772	0.1934055
HEDENFALK_BREAST_CANCER_BRACX_UP	-1.3655478	0.19392419
STAMBOLSKY_TARGETS_OF_MUTATED_TP53_UP	-1.3650961	0.19429922
REACTOME_NETRIN1_SIGNALING	-1.3646866	0.19465089
KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_PYLORI_INFECTION	-1.3643085	0.19496079
KUUSELO_PANCREATIC_CANCER_19Q13_AMPLIFICATION	-1.3642957	0.1948154
SCHURINGA_STAT5A_TARGETS_DN	-1.3640851	0.19489668
RIZ_ERYTHROID_DIFFERENTIATION_12HR	-1.3639913	0.1948445
DARWICHE_SKIN_TUMOR_PROMOTER_UP	-1.3637171	0.19502257
KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY	-1.3632171	0.19540821
JIANG_AGING_HYPOTHALAMUS_UP	-1.3630841	0.19536702
REACTOME_MYOGENESIS	-1.3625082	0.19588667
CHANGOLKAR_H2AFY_TARGETS_DN	-1.3623432	0.19591887
TING_SILENCED_BY_DICER	-1.3621002	0.19602188
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLACK_UP	-1.3617909	0.19619788
BOGNI_TREATMENT_RELATED_MYELOID_LEUKEMIA_UP	-1.3617759	0.19605106
CHIANG_LIVER_CANCER_SUBCLASS_POLYSOMY7_DN	-1.3614054	0.19635585
GRANDVAUX_IRF3_TARGETS_DN	-1.3609058	0.19678034
GRAHAM_CML_QUIESCENT_VS_CML_DIVIDING_UP	-1.3608683	0.19666046
BOYLAN_MULTIPLE_MYELOMA_C_UP	-1.3606502	0.19678813
REACTOME_GAP_JUNCTION_TRAFFICKING	-1.3605211	0.19679001
BOCHKIS_FOXA2_TARGETS	-1.359664	0.19764882
SMID_BREAST_CANCER_NORMAL_LIKE_UP	-1.3595451	0.19763121
CHIARETTI_T_ALL_REFRACTORY_TO_THERAPY	-1.35934	0.1977056
SWEET_KRAS_TARGETS_DN	-1.3590107	0.19792552
DAIRKEE_TERT_TARGETS_DN	-1.3588277	0.19796415
WIERENGA_STAT5A_TARGETS_DN	-1.358408	0.19833098
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_DN	-1.3577033	0.19902256
LIU_SOX4_TARGETS_UP	-1.3575089	0.19910502
TAKADA_GASTRIC_CANCER_COPY_NUMBER_DN	-1.3573424	0.1991329
PEDERSEN_METASTASIS_BY_ERBB2_ISOFORM_3	-1.3572711	0.19905877
RAO_BOUND_BY_SALL4	-1.356338	0.20006737
SENESE_HDAC2_TARGETS_UP	-1.3562243	0.20006233
CHIANG_LIVER_CANCER_SUBCLASS_INTERFERON_UP	-1.355912	0.2002516
MIKKELSEN_ES_ICP_WITH_H3K27ME3	-1.3558894	0.20011967
REACTOME_HS_GAG_DEGRADATION	-1.355663	0.2002244
DORN_ADENOVIRUS_INFECTION_32HR_DN	-1.3555026	0.20025271
REACTOME_SIGNAL_TRANSDUCTION_BY_L1	-1.3547773	0.20092838
RICKMAN_TUMOR_DIFFERENTIATED_MODERATELY_VS_POORLY_UP	-1.354714	0.20083104
GENTILE_UV_HIGH_DOSE_DN	-1.3546944	0.20069192
SMIRNOV_RESPONSE_TO_IR_2HR_UP	-1.3538535	0.2014843
STOSSI_RESPONSE_TO_ESTRADIOL	-1.353587	0.20161524
REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY_ACID_OXIDATION_IN_MUSCLE	-1.3533121	0.20177782
VALK_AML_WITH_CEBPA	-1.3530618	0.20191766
APPEL_IMATINIB_RESPONSE	-1.3525485	0.2024126
MILI_PSEUDOPODIA_CHEMOTAXIS_UP	-1.3523691	0.20247827
AKL_HTLV1_INFECTION_UP	-1.3515081	0.20333773
REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM	-1.3513181	0.20338447
BORLAK_LIVER_CANCER_EGF_UP	-1.3511161	0.20344482
REACTOME_G_ALPHA1213_SIGNALLING_EVENTS	-1.3508296	0.20359482
PID_RET_PATHWAY	-1.3505157	0.20382316
JI_CARCINOGENESIS_BY_KRAS_AND_STK11_DN	-1.3502953	0.20390062
PID_REELIN_PATHWAY	-1.3502814	0.2037544
KRIGE_AMINO_ACID_DEPRIVATION	-1.3481061	0.20615497
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_4	-1.3477514	0.20641148
REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON_GLUTAMATE_BINDING	-1.3471773	0.2069271
KEGG_HISTIDINE_METABOLISM	-1.3469111	0.20706311
RASHI_RESPONSE_TO_IONIZING_RADIATION_5	-1.3466265	0.20727755
LU_TUMOR_ENDOTHELIAL_MARKERS_UP	-1.3461902	0.2076353
KUMAR_AUTOPHAGY_NETWORK	-1.3460864	0.20758983

AMUNDSON_GAMMA_RADIATION_RESISTANCE	-1.3457648	0.20780455
BOYAULT_LIVER_CANCER_SUBCLASS_G1_DN	-1.3457618	0.20764492
GRADE_COLON_VS_RECTAL_CANCER_DN	-1.3453717	0.20793733
CHEOK_RESPONSE_TO_HD_MTX_UP	-1.3453313	0.20781913
AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_DN	-1.345189	0.20784171
GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_DN	-1.3446152	0.20835237
LIAN_LIPA_TARGETS_6M	-1.344141	0.20875607
BIOCARTA_EIF4_PATHWAY	-1.3440282	0.20874012
REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	-1.3440089	0.20860156
REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS	-1.343983	0.20847672
BANDRES_RESPONSE_TO_CARMUSTIN_MGMT_48HR_DN	-1.343881	0.20843819
FONTAINE_PAPILLARY_THYROID_CARCINOMA_DN	-1.3432288	0.20911874
REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALLING	-1.3430651	0.20917371
AMUNDSON_RESPONSE_TO_ARSENITE	-1.3425211	0.20964569
KYNG_DNA_DAMAGE_BY_GAMMA_AND_UV_RADIATION	-1.3421737	0.20984969
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	-1.3414949	0.21049573
CASORELLI_APL_SECONDARY_VS_DE_NOVO_UP	-1.3414919	0.2103362
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_11	-1.3409799	0.210792
MEISSNER_BRAIN_HCP_WITH_H3K27ME3	-1.3409512	0.21066052
TERAMOTO_OPN_TARGETS_CLUSTER_7	-1.3408784	0.21058263
GEISS_RESPONSE_TO_DSRNA_UP	-1.3406576	0.21068096
REACTOME_PLC_BETA_MEDIATED_EVENTS	-1.340413	0.21082276
MATZUK_SPERMATOGONIA	-1.3401171	0.21104212
LOPEZ_MBD_TARGETS_IMPRINTED_AND_X_LINKED	-1.3399012	0.2111614
KANG_CISPLATIN_RESISTANCE_UP	-1.3396208	0.2113458
PUIFFE_INVASION_INHIBITED_BY_ASCITES_UP	-1.3394499	0.2113786
MORI_SMALL_PRE_BII_LYMPHOCYTE_UP	-1.3390361	0.21171468
REACTOME_REGULATION_OF_WATER_BALANCE_BY_RENAL_AQUAPORINS	-1.33899	0.21160954
REACTOME_ACYL_CHAIN_REMODELLING_OF_PE	-1.3386161	0.21189013
WANG_SMARCE1_TARGETS_DN	-1.338436	0.21192281
KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPTION	-1.3381842	0.21207313
TAVOR_CEBPA_TARGETS_DN	-1.3381548	0.2119467
PID_EPHB_FWD_PATHWAY	-1.3380287	0.21192111
LIU_BREAST_CANCER	-1.3380207	0.21177137
REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	-1.337951	0.21168949
TIEN_INTESTINE_PROBIOTICS_2HR_DN	-1.3373536	0.21222867
KEGG_DORSO_VENTRAL_AXIS_FORMATION	-1.3371446	0.2123182
AKL_HTLV1_INFECTION_DN	-1.3370148	0.21230589
MOHANKUMAR_TLX1_TARGETS_DN	-1.3367912	0.21239795
DUAN_PRDM5_TARGETS	-1.336482	0.21264498
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_YELLOW_UP	-1.3362609	0.21272065
VERRECCHIA_RESPONSE_TO_TGFB1_C2	-1.3357162	0.21319038
FORTSCHEGGER_PHF8_TARGETS_UP	-1.3355371	0.21323042
MATZUK_IMPLANTATION_AND_UTERINE	-1.3355082	0.2130977
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_DUCTAL_NORMAL_DN	-1.3353249	0.21315326
SERVITJA_LIVER_HNF1A_TARGETS_DN	-1.3350044	0.21337186
MAHADEVAN_IMATINIB_RESISTANCE_UP	-1.3348855	0.21336044
TURASHVILI_BREAST_DUCTAL_CARCINOMA_VS_LOBULAR_NORMAL_DN	-1.3342972	0.21389827
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP	-1.334297	0.21373709
BORCZUK_MALIGNANT_MESOTHELIOMA_DN	-1.3340212	0.21391489
REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	-1.3336359	0.21424821
LEE_NEURAL_CREST_STEM_CELL_DN	-1.3335488	0.21419346
LEE_CALORIE_RESTRICTION_NEOCORTEX_UP	-1.3322108	0.21556632
ZHAN_MULTIPLE_MYELOMA_MS_UP	-1.3319659	0.21568733
REACTOME_SIGNALING_BY_EGFR_IN_CANCER	-1.3310401	0.21660808
DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN	-1.3306719	0.21690826
DURCHDEWALD_SKIN_CARCINOGENESIS_DN	-1.3298855	0.21765743
FUJII_YBX1_TARGETS_UP	-1.3296869	0.21773195
FARMER_BREAST_CANCER_CLUSTER_4	-1.3296863	0.21757378
BONCI_TARGETS_OF_MIR15A_AND_MIR16_1	-1.3288838	0.21835893
KANG_DOXORUBICIN_RESISTANCE_DN	-1.3287225	0.21838428
GEORGANTAS_HSC_MARKERS	-1.328647	0.2183191
SINGH_NFE2L2_TARGETS	-1.328612	0.21818677
RUTELLA_RESPONSE_TO_HGF_UP	-1.3284137	0.2182596
LEE_LIVER_CANCER_MYC_TGFA_UP	-1.3283399	0.21820395
REACTOME_PI_3K_CASCADE	-1.3280079	0.21847363
REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTERGRINS_	-1.3279189	0.21842209
HALMOS_CEBPA_TARGETS_DN	-1.326218	0.2204482
BIOCARTA_COMP_PATHWAY	-1.3259828	0.22058165
THEILGAARD_NEUTROPHIL_AT_SKIN_WOUND_UP	-1.3259369	0.22047132
SMITH_TERT_TARGETS_UP	-1.3258505	0.22041047
KIM_PTEN_TARGETS_UP	-1.3257742	0.22031818
MCBRYAN_PUBERTAL_BREAST_5_6WK_UP	-1.3250493	0.22104678
SETLUR_PROSTATE_CANCER_TMPRSS2_ERG_FUSION_DN	-1.3248044	0.22118169
ZWANG_EGF_INTERVAL_UP	-1.3245158	0.22137119
SERVITJA_LIVER_HNF1A_TARGETS_UP	-1.3240585	0.22179613
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	-1.3238763	0.22187889
WILLERT_WNT_SIGNALING	-1.3235517	0.22211917
CASORELLI_ACUTE_PROMYELOCYTIC_LEUKEMIA_UP	-1.3234329	0.22209933
KAMIKUBO_MYELOID_CEBPA_NETWORK	-1.3229792	0.22248547

APPIERTO_RESPONSE_TO_FENRETINIDE_UP	-1.3229461	0.2223586
PID_NETRIN_PATHWAY	-1.3225669	0.22266477
CHEN_PDGF_TARGETS	-1.3222686	0.22289038
BIOCARTA_EPO_PATHWAY	-1.3220693	0.22296317
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_4NM_UP	-1.3216938	0.22329953
BIOCARTA_CREB_PATHWAY	-1.321561	0.22330208
RICKMAN_HEAD_AND_NECK_CANCER_E	-1.3215299	0.22318375
SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_RHO_GTPASES	-1.3213108	0.2233081
ZHAN_MULTIPLE_MYELOMA_CD1_UP	-1.3211521	0.22331925
BRUECKNER_TARGETS_OF_MIRLET7A3_UP	-1.3208811	0.2234699
MARZEC_IL2_SIGNALING_DN	-1.320496	0.22375026
PID_HEDGEHOG_2PATHWAY	-1.3203204	0.22378956
BOYLAN_MULTIPLE_MYELOMA_PCA3_DN	-1.3202214	0.22373912
RADMACHER_AML_PROGNOSIS	-1.3186901	0.22547364
RODRIGUES_THYROID_CARCINOMA_DN	-1.3184189	0.22562726
REACTOME_UNFOLDED_PROTEIN_RESPONSE	-1.317732	0.22626394
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_NOT_BY_GAMMA_IN_OLD	-1.3171866	0.22678915
ASTON_MAJOR_DEPRESSIVE_DISORDER_DN	-1.3171359	0.22669478
ABBUD_LIF_SIGNALING_1_DN	-1.3171052	0.22656114
GNATENKO_PLATELET_SIGNATURE	-1.3170286	0.2264875
MCCLUNG_CREB1_TARGETS_DN	-1.3168881	0.22650886
JAATINEN_HEMATOPOIETIC_STEM_CELL_UP	-1.3166705	0.22662127
VERHAAK_GLIOBLASTOMA_NEURAL	-1.3166308	0.22649476
REACTOME_INHIBITION_OF_VOLTAGE_GATED_CA2_CHANNELS_VIA_GBETA_GAMMA_SUBUNITS	-1.3163304	0.22669962
KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIOMYOPATHY_ARVC	-1.3163092	0.22656891
NADLER_OBESITY_UP	-1.316251	0.22648111
GRUETZMANN_PANCREATIC_CANCER_UP	-1.3159802	0.22664689
AMUNDSON_POOR_SURVIVAL_AFTER_GAMMA_RADIATION_8G	-1.3156598	0.22688895
ASGHARZADEH_NEUROBLASTOMA_POOR_SURVIVAL_DN	-1.31551	0.22691219
TSUNODA_CISPLATIN_RESISTANCE_DN	-1.3152449	0.22705252
MCMURRAY_TP53_HRAS_COOPERATION_RESPONSE_DN	-1.3151859	0.22695172
PID_MYC_REPRESS_PATHWAY	-1.3151313	0.22686732
MIKKELSEN_NPC_ICP_WITH_H3K4ME3	-1.3143659	0.22759156
NAKAMURA_METASTASIS_MODEL_DN	-1.3142943	0.22751711
FOSTER_KDM1A_TARGETS_UP	-1.3137548	0.22799163
GAVIN_FOXP3_TARGETS_CLUSTER_P3	-1.313456	0.22823147
POMEROY_MEDULLOBLASTOMA_DESMOPLASIC_VS_CLASSIC_UP	-1.3129873	0.22864248
KIM_WT1_TARGETS_12HR_DN	-1.3128614	0.22862041
LUI_THYROID_CANCER_CLUSTER_1	-1.312837	0.22848466
REACTOME_STRIATED_MUSCLE_CONTRACTION	-1.31199	0.22936922
GAVIN_FOXP3_TARGETS_CLUSTER_P7	-1.3115641	0.22970699
NADLER_HYPERGLYCEMIA_AT_OBESITY	-1.3113098	0.22982326
KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	-1.3109217	0.23010243
ZHAN_LATE_DIFFERENTIATION_GENES_UP	-1.310622	0.23030892
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	-1.3105801	0.23019129
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PI3KGAMMA	-1.3105608	0.23005442
TIEN_INTESTINE_PROBIOTICS_6HR_DN	-1.3103634	0.23013721
HE_PTEN_TARGETS_UP	-1.3102853	0.23007168
REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES	-1.3097765	0.23051803
HAN_JNK_SINGALING_UP	-1.309641	0.23052242
HUPER_BREAST_BASAL_VS_LUMINAL_UP	-1.3088441	0.23133284
ZHAN_MULTIPLE_MYELOMA_CD1_VS_CD2_UP	-1.3087999	0.23123369
MIKKELSEN_MEF_ICP_WITH_H3K27ME3	-1.3085188	0.23142573
REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL	-1.3084309	0.23136328
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA1_UP	-1.3081546	0.23155956
NIKOLSKY_BREAST_CANCER_15Q26_AMPLICON	-1.3076457	0.23207119
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_GRANULOCYTE_UP	-1.3075367	0.2320415
ROYLANCE_BREAST_CANCER_16Q_COPY_NUMBER_DN	-1.3075219	0.23189573
ALTEMEIER_RESPONSE_TO_LPS_WITH_MECHANICAL_VENTILATION	-1.307034	0.23233743
DAZARD_UV_RESPONSE_CLUSTER_G4	-1.3066152	0.2327258
ALONSO_METASTASIS_NEURAL_UP	-1.3063391	0.23290665
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6	-1.3057793	0.23347725
GHO_ATF5_TARGETS_DN	-1.3057628	0.23333484
ACEVEDO_LIVER_CANCER_WITH_H3K9ME3_UP	-1.3053129	0.23374465
MURAKAMI_UV_RESPONSE_6HR_DN	-1.3052497	0.2336724
MIKKELSEN_ES_ICP_WITH_H3K4ME3_AND_H3K27ME3	-1.3051647	0.2336028
MOOTHA_FFA_OXYDATION	-1.3046696	0.23401436
REACTOME_DAG_AND_IP3_SIGNALING	-1.303871	0.23485678
BANDRES_RESPONSE_TO_CARMUSTIN_WITHOUT_MGMT_48HR_UP	-1.3034456	0.23519771
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_DN	-1.3032143	0.23532465
WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_TBH	-1.3030412	0.23535934
PID_FCER1_PATHWAY	-1.3028296	0.23543668
SENESE_HDAC1_TARGETS_UP	-1.3021182	0.23608571
STEARMAN_LUNG_CANCER_EARLY_VS_LATE_UP	-1.3018095	0.23628108
REACTOME_DARPP_32_EVENTS	-1.3018003	0.2361261
REACTOME_KERATAN_SULFATE_BIOSYNTHESIS	-1.3014498	0.23640169
WANG_BARRETTS_ESOPHAGUS_AND_ESOPHAGUS_CANCER_UP	-1.301192	0.23655757
DARWICHE_SQUAMOUS_CELL_CARCINOMA_DN	-1.3010303	0.23658502
WANG_ESOPHAGUS_CANCER_VS_NORMAL_UP	-1.3009374	0.23654024
BOYLAN_MULTIPLE_MYELOMA_C_DN	-1.3008882	0.2364233

YAGI_AML_FAB_MARKERS	-1.3007	0.23651177
WANG_PROSTATE_CANCER_ANDROGEN_INDEPENDENT	-1.300024	0.23714437
MIKKELSEN_MEF_HCP_WITH_H3K27ME3	-1.299911	0.23712127
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_2_UP	-1.2998585	0.23701803
BROWN_MYELOID_CELL_DEVELOPMENT_UP	-1.2992525	0.23760308
BILBAN_B_CLL_LPL_DN	-1.2991841	0.23750827
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_UP	-1.2989348	0.23763254
SAMOLS_TARGETS_OF_KHSV_MIRNAS_DN	-1.2984548	0.23808452
PEREZ_TP63_TARGETS	-1.2979941	0.23845333
FOSTER_TOLERANT_MACROPHAGE_DN	-1.2977133	0.23867881
KEGG_FRUCTOSE_AND_MANNOSE_METABOLISM	-1.2973715	0.23894344
LIN_MELANOMA_COPY_NUMBER_DN	-1.2963852	0.23995735
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM3	-1.2963226	0.23986472
ZHAN_V1_LATE_DIFFERENTIATION_GENES_UP	-1.2959096	0.24020785
MCLACHLAN_DENTAL_CARIES_DN	-1.2957617	0.24022478
DARWICHE_PAPILLOMA_RISK_LOW_DN	-1.2954679	0.2404276
LABBE_WNT3A_TARGETS_UP	-1.2954651	0.24026538
REACTOME_INNATE_IMMUNE_SYSTEM	-1.2953572	0.24024186
MACLACHLAN_BRCA1_TARGETS_UP	-1.2951827	0.24031128
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_SCP2_QTL_TRANS	-1.2948468	0.24059865
MEISSNER_NPC_HCP_WITH_H3K27ME3	-1.2948011	0.24049719
BIOCARTA_VIP_PATHWAY	-1.2946234	0.24053578
VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1	-1.293829	0.24135603
BIOCARTA_PAR1_PATHWAY	-1.2938098	0.24121977
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_8D_UP	-1.293573	0.24138233
KEEN_RESPONSE_TO_ROSIGLITAZONE_UP	-1.2934204	0.24138358
DE_YY1_TARGETS_DN	-1.2928343	0.24189611
REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	-1.292624	0.24199794
REACTOME_SPHINGOLIPID_METABOLISM	-1.2921441	0.24244605
TERAO_AOX4_TARGETS_SKIN_DN	-1.2911899	0.24345568
GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_UP	-1.2907702	0.24384087
RHEIN_ALL_GLUCOCORTICOID_THERAPY_UP	-1.2897921	0.24486792
KIM_WT1_TARGETS_8HR_DN	-1.2896333	0.24490607
REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AND_ACTIVATION_OF_IKKS_COMPLEX	-1.289584	0.2447846
KEGG_O_GLYCAN_BIOSYNTHESIS	-1.2890577	0.2452671
CUI_TCF21_TARGETS_UP	-1.2884506	0.24586841
ALONSO_METASTASIS_UP	-1.2881986	0.2460414
YANG_BCL3_TARGETS_UP	-1.288163	0.24592476
KEGG_CITRATE_CYCLE_TCA_CYCLE	-1.288157	0.24576455
AMUNDSON_GENOTOXIC_SIGNATURE	-1.2880282	0.24575068
REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EGFR	-1.2873319	0.24650557
ST_ADRENERGIC	-1.2868303	0.24694525
BURTON_ADIPOGENESIS_PEAK_AT_8HR	-1.2864912	0.24722072
BIOCARTA_FMLP_PATHWAY	-1.2864566	0.24710506
SMIRNOV_RESPONSE_TO_IR_6HR_UP	-1.2857015	0.24795294
KORKOLA_EMBRYONIC_CARCINOMA_VS_SEMINOMA_UP	-1.2856028	0.24791877
VALK_AML_CLUSTER_1	-1.2855868	0.24777678
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_DN	-1.2854912	0.24772112
DELYS_THYROID_CANCER_UP	-1.2851715	0.24795301
REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUT_GROWTH	-1.2846897	0.24837804
RUTELLA_RESPONSE_TO_HGF_DN	-1.2838848	0.24927731
REACTOME_CIRCADIAN_CLOCK	-1.2835383	0.24952525
BIOCARTA_TOB1_PATHWAY	-1.2833959	0.2495349
PID_INTEGRIN_CS_PATHWAY	-1.2830276	0.24982852
NGUYEN_NOTCH1_TARGETS_UP	-1.2825217	0.24996057
CHYLA_CBFA2T3_TARGETS_DN	-1.2824643	0.24986063
PID_TAP63_PATHWAY	-1.282377	0.24979225
REACTOME_PYRUVATE_METABOLISM	-1.2823195	0.2496838
PID_ERBB2_ERBB3_PATHWAY	-1.2821099	0.24979305
HEIDENBLAD_AMPLICON_8Q24_DN	-1.2819248	0.24987537
HALLMARK_HYPOXIA	-1.9343209	0.003701389
HALLMARK_MYOGENESIS	-1.7780789	0.030785104
HALLMARK_ADIPOGENESIS	-1.7773302	0.021206735
HALLMARK_UV_RESPONSE_DN	-1.7757165	0.01590505
HALLMARK_FATTY_ACID_METABOLISM	-1.719178	0.033246625
HALLMARK_XENOBIOTIC_METABOLISM	-1.7137014	0.030426538
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	-1.7132801	0.026491283
HALLMARK_ANGIOGENESIS	-1.702123	0.025130853
HALLMARK_TNFA_SIGNALING_VIA_NFKB	-1.6591991	0.036616076
HALLMARK_COAGULATION	-1.6064554	0.05989403
HALLMARK_KRAS_SIGNALING_UP	-1.6062607	0.054449115
HALLMARK_TGF_BETA_SIGNALING	-1.5910093	0.057661135
HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY	-1.5740298	0.0669248
HALLMARK_APICAL_JUNCTION	-1.5653186	0.0669838
HALLMARK_UV_RESPONSE_UP	-1.5192941	0.092645
HALLMARK_P53_PATHWAY	-1.5043527	0.09847649
HALLMARK_APOPTOSIS	-1.4894328	0.10333147
HALLMARK_BILE_ACID_METABOLISM	-1.4288287	0.14927363
HALLMARK_ANDROGEN_RESPONSE	-1.3609293	0.2074296
HALLMARK_INFLAMMATORY_RESPONSE	-1.342231	0.21801771

HALLMARK_IL2_STAT5_SIGNALING	-1.3420238	0.20780745
HALLMARK_COMPLEMENT	-1.3364533	0.20447488
HALLMARK_IL6_JAK_STAT3_SIGNALING	-1.3350543	0.19702226
HALLMARK_CHOLESTEROL_HOMEOSTASIS	-1.3317618	0.19267765
HALLMARK_HEDGEHOG_SIGNALING	-1.3313283	0.18551552
TGFB_UP.V1_UP	-1.8268613	0.009263304
CRX_DN.V1_DN	-1.8217821	0.005095938
MTOR_UP.V1_DN	-1.7907284	0.009296646
CYCLIN_D1_UP.V1_UP	-1.7732236	0.008353441
ESC_J1_UP_EARLY.V1_DN	-1.7624305	0.008562529
AKT_UP.V1_DN	-1.7476299	0.010188025
PTEN_DN.V2_UP	-1.745519	0.008732594
KRAS.600.LUNG.BREAST_UP.V1_UP	-1.7122351	0.013088155
CAHOY_ASTROGLIAL	-1.7090718	0.012415528
KRAS.LUNG.BREAST_UP.V1_UP	-1.6859276	0.018834494
MEK_UP.V1_UP	-1.6842037	0.017516976
LEF1_UP.V1_UP	-1.673107	0.019857487
AKT_UP_MTOR_DN.V1_DN	-1.6721607	0.018459989
RELA_DN.V1_UP	-1.6684818	0.018073844
ATF2_UP.V1_DN	-1.6601474	0.019265994
ATM_DN.V1_UP	-1.6601069	0.018061869
ATF2_S_UP.V1_DN	-1.6564953	0.018120518
KRAS.AMP.LUNG_UP.V1_DN	-1.6546428	0.017522685
PKCA_DN.V1_DN	-1.6537142	0.0168676
KRAS.KIDNEY_UP.V1_DN	-1.6479995	0.01778069
KRAS.DF.V1_UP	-1.6426239	0.017833982
ESC_V6.5_UP_EARLY.V1_DN	-1.6338704	0.018843627
EGFR_UP.V1_UP	-1.6282543	0.01933659
KRAS.BREAST_UP.V1_UP	-1.627373	0.018710835
ALK_DN.V1_UP	-1.6248406	0.018354585
BMI1_DN.V1_UP	-1.6108145	0.021532347
VEGF_A_UP.V1_UP	-1.6038153	0.023506911
CYCLIN_D1_KE_.V1_UP	-1.6036391	0.022667378
PRC2_EZH2_UP.V1_DN	-1.6032836	0.021885743
E2F1_UP.V1_DN	-1.601312	0.021464644
NOTCH_DN.V1_DN	-1.6012347	0.020772235
PKCA_DN.V1_UP	-1.6002493	0.020292206
WNT_UP.V1_DN	-1.5877999	0.023557385
ESC_J1_UP_LATE.V1_DN	-1.5775135	0.027111558
MEL18_DN.V1_UP	-1.5751077	0.02707183
KRAS.600_UP.V1_UP	-1.5618716	0.031388488
STK33_UP	-1.5596714	0.031151647
KRAS.300_UP.V1_UP	-1.559405	0.030442383
RB_DN.V1_DN	-1.5544622	0.032088082
RAF_UP.V1_UP	-1.5516919	0.032294344
KRAS.LUNG_UP.V1_UP	-1.536515	0.03716733
IL15_UP.V1_UP	-1.5328391	0.038074896
BMI1_DN_MEL18_DN.V1_UP	-1.5323112	0.037235677
IL21_UP.V1_UP	-1.5193882	0.042287037
ATM_DN.V1_DN	-1.5185689	0.041583657
CTIP_DN.V1_UP	-1.5119797	0.043615833
SNF5_DN.V1_DN	-1.5105157	0.043463834
STK33_NOMO_UP	-1.5090694	0.0432868
CSR_EARLY_UP.V1_UP	-1.5088903	0.04244557
PTEN_DN.V1_UP	-1.5084474	0.041804865
KRAS.AMP.LUNG_UP.V1_UP	-1.5033997	0.042792767
KRAS.50_UP.V1_UP	-1.4986008	0.043812793
TBK1.DF_UP	-1.4982817	0.043206304
CSR_LATE_UP.V1_DN	-1.4975197	0.042693242
IL2_UP.V1_UP	-1.4966111	0.042385228
ESC_J1_UP_LATE.V1_UP	-1.4909562	0.044671167
ESC_V6.5_UP_LATE.V1_UP	-1.4883786	0.04511435
PDGF_UP.V1_UP	-1.4815412	0.047764532
P53_DN.V2_UP	-1.4804716	0.047568623
ESC_V6.5_UP_LATE.V1_DN	-1.4800539	0.047038127
CYCLIN_D1_KE_.V1_DN	-1.4713784	0.050715912
P53_DN.V2_DN	-1.4700928	0.050410625
NFE2L2.V2	-1.4676938	0.050629158
CRX_NRL_DN.V1_DN	-1.4664907	0.050547596
BCAT.100_UP.V1_UP	-1.4658259	0.05011536
KRAS.KIDNEY_UP.V1_UP	-1.4601307	0.05209845
IL15_UP.V1_DN	-1.4483613	0.058418106
JNK_DN.V1_UP	-1.4479736	0.05782024
IL21_UP.V1_DN	-1.4467633	0.0576999
STK33_SKM_UP	-1.442272	0.05923689
GCNP_SHH_UP_LATE.V1_DN	-1.4355478	0.062101174
JAK2_DN.V1_UP	-1.4317498	0.06306798
CAHOY_ASTROCYTIC	-1.42725	0.064839184
TGFB_UP.V1_DN	-1.4239416	0.066072546
PIGF_UP.V1_DN	-1.4144247	0.07103832

JNK_DN.V1_DN	-1.4136763	0.070551634
YAP1_UP	-1.4100733	0.07181478
P53_DN.V1_DN	-1.408519	0.07251913
AKT_UP_MTOR_DN.V1_UP	-1.4056826	0.07330879
HINATA_NFKB_IMMU_INF	-1.403357	0.073716
RAPA_EARLY_UP.V1_UP	-1.4014564	0.074136265
NRL_DN.V1_DN	-1.3989422	0.07465095
ERB2_UP.V1_UP	-1.3964726	0.075306535
PDGF_ERK_DN.V1_DN	-1.395334	0.075022735
CAMP_UP.V1_DN	-1.3938423	0.075010724
KRAS.600_UP.V1_DN	-1.3922087	0.07510615
KRAS.PROSTATE_UP.V1_DN	-1.3917236	0.07450809
BMI1_DN_MEL18_DN.V1_DN	-1.3820562	0.0795335
CYCLIN_D1_UP.V1_DN	-1.3791398	0.080847405
PRC1_BMI_UP.V1_DN	-1.374955	0.08268621
BRCA1_DN.V1_UP	-1.373256	0.08290526
PRC2_SUZ12_UP.V1_DN	-1.3708302	0.08374393
BMI1_DN.V1_DN	-1.3700331	0.08377621
KRAS.BREAST_UP.V1_DN	-1.366522	0.08515464
MEL18_DN.V1_DN	-1.3638823	0.0858852
CORDENONSI_YAP_CONSERVED_SIGNATURE	-1.3632689	0.08523645
PRC2_EDD_UP.V1_DN	-1.3570739	0.08837596
CTIP_DN.V1_DN	-1.355971	0.08813166
ESC_J1_UP_EARLY.V1_UP	-1.3534361	0.08908413
PIGF_UP.V1_UP	-1.3515033	0.08941969
WNT_UP.V1_UP	-1.3408884	0.09601914
IL2_UP.V1_DN	-1.340166	0.09569191
NOTCH_DN.V1_UP	-1.3276929	0.10388186
CAHOY_NEURONAL	-1.3261712	0.103940204
GCNP_SHH_UP_EARLY.V1_DN	-1.3167297	0.10957599
KRAS.600.LUNG.BREAST_UP.V1_DN	-1.2958099	0.12521744
LTE2_UP.V1_UP	-1.2924247	0.12694329
PDGF_UP.V1_DN	-1.2894893	0.12822148
MTOR_UP.N4.V1_UP	-1.2884619	0.12785977
CSR_EARLY_UP.V1_DN	-1.2860137	0.12932147
DCA_UP.V1_UP	-1.2782655	0.13476583
KRAS.DF.V1_DN	-1.2753756	0.13610324
KRAS.PROSTATE_UP.V1_UP	-1.2689539	0.14053084
KRAS.LUNG.BREAST_UP.V1_DN	-1.2587007	0.14880796
RPS14_DN.V1_UP	-1.2556431	0.15034056
MYC_UP.V1_DN	-1.241939	0.16152655
RELA_DN.V1_DN	-1.2407694	0.16135472
PTEN_DN.V1_DN	-1.2384492	0.16220689
SIRNA_EIF4GI_DN	-1.2378436	0.16145933
P53_DN.V1_UP	-1.232148	0.16616315
BCAT_BILD_ET_AL_UP	-1.2281852	0.16830087
RB_P130_DN.V1_DN	-1.2268049	0.16840138
ESC_V6.5_UP_EARLY.V1_UP	-1.217638	0.17670724
HOXA9_DN.V1_UP	-1.2162886	0.17665441
SRC_UP.V1_UP	-1.2149576	0.17688736
PRC1_BMI_UP.V1_UP	-1.1981442	0.19313115
EIF4E_DN	-1.1957916	0.19418514
CRX_NRL_DN.V1_UP	-1.1952938	0.1933734
ATF2_S_UP.V1_UP	-1.191374	0.19656081
TBK1.DN.48HRS_UP	-1.1899884	0.19663556
ATF2_UP.V1_UP	-1.1786774	0.20787215
NRL_DN.V1_UP	-1.1701384	0.21569331
SNF5_DN.V1_UP	-1.1674505	0.21706183
PDGF_ERK_DN.V1_UP	-1.1668618	0.21606396
KRAS.50_UP.V1_DN	-1.1586858	0.22366121

Table S2. Genesets enriched in *VEGFA* high tertile

GENESET NAME	NES	FDR q-val
REACTOME_REGULATION_OF_HYPOXIA_INDUCIBLE_FACTOR_HIF_BY_OXYGEN	-1.992098	0.15175419
WINTER_HYPOXIA_UP	-1.8602291	0.24096495
SCHLOSSER_MYC_TARGETS_AND_SERUM_RESPONSE_DN	-1.8425405	0.2441887
FOURNIER_ACINAR_DEVELOPMENT_LATE_2	-1.8419722	0.20522834
SCHLOSSER_MYC_TARGETS_REPRESSED_BY_SERUM	-1.8325429	0.20214497
DORMOY_ELAVL1_TARGETS	-1.8256477	0.19533291
CHANG_CORE_SERUM_RESPONSE_UP	-1.8128043	0.20793365
CHIBA_RESPONSE_TO_TSA_DN	-1.8080091	0.19996026
ZAMORA_NOS2_TARGETS_UP	-1.8076842	0.18221508
WEST_ADRENOCORTICAL_TUMOR_UP	-1.7857813	0.22334862
SHEDDEN_LUNG_CANCER_POOR_SURVIVAL_A6	-1.7824106	0.2140969
BORCZUK_MALIGNANT_MESOTHELIOMA_UP	-1.7733139	0.22375771
RHODES_CANCER_META_SIGNATURE	-1.7670153	0.22738065
REACTOME_CELL_CYCLE_CHECKPOINTS	-1.7650546	0.21836789
BERENJENO_TRANSFORMED_BY_RHOA_UP	-1.7530313	0.24173841
RIZ_ERYTHROID_DIFFERENTIATION	-1.7510055	0.23390341
REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO_CYTOPLASM	-1.7468853	0.23327804
SU_TESTIS	-1.7397757	0.24085407
VECCHI_GASTRIC_CANCER_EARLY_UP	-1.7346729	0.24386929
BASAKI_YBX1_TARGETS_UP	-1.7346237	0.23281164
ABRAMSON_INTERACT_WITH_AIRE	-1.728713	0.23990063
REACTOME_GLYCOLYSIS	-1.7256763	0.23886934
REACTOME_CELL_CYCLE	-1.7254876	0.22979905
KARLSSON_TGFB1_TARGETS_UP	-1.7243869	0.22352988
GRADE_COLON_AND_RECTAL_CANCER_UP	-1.7195935	0.22860678
MENSE_HYPOXIA_UP	-1.7193012	0.22118297
REACTOME_REGULATION_OF_GLUCOKINASE_BY_GLUCOKINASE_REGULATORY_PROTEIN	-1.7175274	0.21761332
KORKOLA_CORRELATED_WITH_POU5F1	-1.7136095	0.22093949
SARRIO_EPITHELIAL_MESENCHYMAL_TRANSITION_UP	-1.7110211	0.21973358
CHAUHAN_RESPONSE_TO_METHOXYESTRADIOL_UP	-1.7084105	0.21942142
REACTOME_CELL_CYCLE_MITOTIC	-1.7075816	0.21500744
LINDGREN_BLADDER_CANCER_CLUSTER_3_UP	-1.7073891	0.20914684
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_UP	-1.7070042	0.20449515
REACTOME_MITOTIC_M_M_G1_PHASES	-1.7064015	0.2002027
REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOMES	-1.7056215	0.19638959
REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS_INTO_THE_HOST_NUCLEUS	-1.7054071	0.19174013
LEE_LIVER_CANCER_SURVIVAL_DN	-1.7033445	0.1911836
KAUFFMANN_DNA_REPLICATION_GENES	-1.7017217	0.18989645
VANTVEER_BREAST_CANCER_METASTASIS_DN	-1.7000599	0.18836664
BIDUS_METASTASIS_UP	-1.6999578	0.18412614
GOBERT_OLIGODENDROCYTE_DIFFERENTIATION_UP	-1.6980256	0.1839228
ZHANG_TLX_TARGETS_36HR_DN	-1.6961782	0.18346182
KEGG_SPLICEOSOME	-1.6931655	0.18552475
GRAESSMANN_RESPONSE_TO_MC_AND_SERUM_DEPRIVATION_DN	-1.6927384	0.18216638
VALK_AML_CLUSTER_7	-1.6914332	0.18115152
REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAINING_PRE_MRNA	-1.6907225	0.17876679
PID_HIF1A_PATHWAY	-1.690402	0.17569818
REACTOME_M_G1_TRANSITION	-1.689165	0.17428744
WANG_RESPONSE_TO_GSK3_INHIBITOR_SB216763_DN	-1.6889716	0.17116772
BOYAULT_LIVER_CANCER_SUBCLASS_G3_UP	-1.6886466	0.16862836
SLEBOS_HEAD_AND_NECK_CANCER_WITH_HPV_UP	-1.6880437	0.16672195
KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM	-1.6875666	0.16449226
REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM_AN_INTRONLESS_TRANSCRIPT	-1.6866041	0.16314511
GINESTIER_BREAST_CANCER_20Q13_AMPLIFICATION_DN	-1.6848832	0.16366582
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_MODERATELY_DN	-1.6844889	0.16157511
REACTOME_DNA_REPLICATION	-1.683555	0.16012368
REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN_THE_TERMINATION_REGION_	-1.6828911	0.15848471
BENPORATH_PROLIFERATION	-1.6801671	0.16088296
REACTOME_FANCONI_ANEMIA_PATHWAY	-1.6801438	0.15832232
REACTOME_MRNA_PROCESSING	-1.6795821	0.15656309
BENPORATH_ES_CORE_NINE_CORRELATED	-1.6784647	0.15614259
MORI_IMMATURE_B_LYMPHOCYTE_DN	-1.6774533	0.15558217
LIAO_METASTASIS	-1.6769913	0.15411587
ZHANG_TLX_TARGETS_60HR_DN	-1.6760685	0.15352894
WHITFIELD_CELL_CYCLE_G1_S	-1.6744667	0.15390643
KRIEG_HYPOXIA_VIA_KDM3A	-1.6738366	0.1526888
REACTOME_CHROMOSOME_MAINTENANCE	-1.6737826	0.15058193
REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_PROTEINS	-1.6735831	0.14877583
ODONNELL_TFRC_TARGETS_DN	-1.6735204	0.14678611
WHITFIELD_CELL_CYCLE_S	-1.6687254	0.15206851
KEGG_ONE_CARBON_POOL_BY_FOLATE	-1.6663598	0.15386002
REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS_AND_COMPLEXES	-1.6657605	0.15274128
REACTOME_TRANSCRIPTION	-1.6656411	0.15088092
ZHANG_BREAST_CANCER_PROGENITORS_UP	-1.6628035	0.15353605
OUELLET_OVARIAN_CANCER_INVASIVE_VS_LMP_UP	-1.662685	0.1517047
DELPUECH_FOXO3_TARGETS_DN	-1.662669	0.14978702
KEGG_HOMOLOGOUS_RECOMBINATION	-1.660598	0.15117382
REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A	-1.6603549	0.14976428
MITSIADES_RESPONSE_TO_APLIDIN_DN	-1.6579252	0.15171236
WONG_EMBRYONIC_STEM_CELL_CORE	-1.657859	0.14995314
MANALO_HYPOXIA_DN	-1.6569762	0.14952219
PID_AURORA_B_PATHWAY	-1.6565171	0.1485491
HOFFMANN_LARGE_TO_SMALL_PRE_BII_LYMPHOCYTE_UP	-1.6542556	0.15093392
FURUKAWA_DUSP6_TARGETS_PCI35_DN	-1.6540877	0.14937548
GINESTIER_BREAST_CANCER_ZNF217_AMPLIFIED_DN	-1.6519612	0.15118827
KAUFFMANN_MELANOMA_RELAPSE_UP	-1.6514062	0.1505308
TOYOTA_TARGETS_OF_MIR34B_AND_MIR34C	-1.6472623	0.15589587
NADERI_BREAST_CANCER_PROGNOSIS_UP	-1.6471357	0.15444884

GRADE_METASTASIS_DN	-1.6471082	0.15281008
WINNEPENNINCKX_MELANOMA_METASTASIS_UP	-1.6455221	0.15382092
EPPERT_PROGENITOR	-1.640971	0.16027701
BHATI_G2M_ARREST_BY_2METHOXYESTRADIOL_UP	-1.635542	0.16808373
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_UP	-1.6347209	0.16795897
REACTOME_G1_S_TRANSITION	-1.6343805	0.16669184
LEE_EARLY_T_LYMPHOCYTE_UP	-1.6338979	0.16593337
PID_ATR_PATHWAY	-1.6337888	0.16447753
MORI_LARGE_PRE_BII_LYMPHOCYTE_UP	-1.6322043	0.16571441
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_UP	-1.6309459	0.16622935
REACTOME_NEP_NS2_INTERACTS_WITH_THE_CELLULAR_EXPORT_MACHINERY	-1.6305529	0.16538805
KAUFFMANN_DNA_REPAIR_GENES	-1.6302354	0.16435865
REACTOME_MITOTIC_PROMETAPHASE	-1.6288185	0.1650327
RUIZ_TNC_TARGETS_DN	-1.6280658	0.16475888
STANELLE_E2F1_TARGETS	-1.6280206	0.16324419
SMITH_TERT_TARGETS_UP	-1.6268743	0.1636044
REACTOME_MITOTIC_G2_G2_M_PHASES	-1.6251175	0.16505349
GEORGES_CELL_CYCLE_MIR192_TARGETS	-1.6242036	0.16512945
YUAN_ZNF143_PARTNERS	-1.6241395	0.16378337
REACTOME_KINESINS	-1.6232445	0.16380697
REACTOME_MRNA_3_END_PROCESSING	-1.6219792	0.1644601
DANG_REGULATED_BY_MYC_UP	-1.6212804	0.1643235
DOANE_BREAST_CANCER_CLASSES_DN	-1.6200864	0.1647658
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_DN	-1.6199242	0.16357465
KEGG_CELL_CYCLE	-1.6183794	0.16468439
NIKOLSKY_BREAST_CANCER_8Q23_Q24_AMPLICON	-1.6182566	0.16344488
MUELLER_COMMON_TARGETS_OF_AML_FUSIONS_DN	-1.6164446	0.1651721
PENG_GLUTAMINE_DEPRIVATION_DN	-1.6163756	0.16387397
BIOCARTA_G2_PATHWAY	-1.6158491	0.16340224
REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_CYCLIN_B	-1.6156418	0.16228834
HAHTOLA_MYCOSIS_FUNGOIDES_UP	-1.6150782	0.16169876
REACTOME_MITOTIC_G1_G1_S_PHASES	-1.615022	0.1604446
KOBAYASHI_EGFR_SIGNALING_24HR_DN	-1.6146802	0.15972869
REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX	-1.6141256	0.15936004
PENG_LEUCINE_DEPRIVATION_DN	-1.6140403	0.15821199
NGO_MALIGNANT_GLIOMA_1P_LOH	-1.6138633	0.1571644
WAKASUGI_HAVE_ZNF143_BINDING_SITES	-1.6134956	0.15661311
MARTINEZ_RESPONSE_TO_TRABECTEDIN_DN	-1.6130326	0.15621108
SHEPARD_CRUSH_AND_BURN_MUTANT_DN	-1.6115589	0.1574932
KEGG_BASAL_TRANSCRIPTION_FACTORS	-1.6109065	0.15715349
SONG_TARGETS_OF_IE86_CMV_PROTEIN	-1.6088951	0.15925983
MISSIAGLIA_REGULATED_BY_METHYLATION_DN	-1.6077152	0.15983817
REACTOME_MRNA_SPLICING	-1.6076022	0.15879615
REACTOME_TRANSCRIPTIONAL_ACTIVITY_OF_SMAD2_SMAD3_SMAD4_HETEROTRIMER	-1.6064762	0.15936036
BENPORATH_ES_2	-1.6064495	0.15818974
HU_ANGIOGENESIS_DN	-1.6054612	0.15869164
MUELLER_PLURINET	-1.6043282	0.15934817
FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_UP	-1.6042379	0.15829976
PUJANA_XPRSS_INT_NETWORK	-1.6032546	0.15871522
KIM_WT1_TARGETS_DN	-1.6031314	0.15776876
VERNELL_RETINOBLASTOMA_PATHWAY_UP	-1.6030675	0.15676092
REACTOME_G2_M_CHECKPOINTS	-1.6020985	0.15723136
TIEN_INTESTINE_PROBIOTICS_24HR_UP	-1.6000394	0.15930872
PID_P53_REGULATION_PATHWAY	-1.5990673	0.15967286
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_DN	-1.5987145	0.15917258
BLUM_RESPONSE_TO_SALIRASIB_DN	-1.5952458	0.1641535
FUJII_YBX1_TARGETS_DN	-1.5943611	0.16439967
MARKEY_RB1_ACUTE_LOF_UP	-1.5932975	0.1650879
REACTOME_METABOLISM_OF_NON_CODING_RNA	-1.5931674	0.16419514
VANTVEER_BREAST_CANCER_ESR1_DN	-1.5900904	0.16852312
PUJANA_BRCA_CENTERED_NETWORK	-1.5899993	0.16753809
LEONARD_HYPOXIA	-1.5896846	0.1668683
REACTOME_S_PHASE	-1.5893276	0.16640233
PYEON_HPV_POSITIVE_TUMORS_UP	-1.5890535	0.16572997
RAMASWAMY_METASTASIS_UP	-1.5887909	0.16523398
HU_GENOTOXIC_DAMAGE_4HR	-1.5844682	0.17142238
WHITEFORD_PEDIATRIC_CANCER_MARKERS	-1.5843512	0.17053364
TOMIDA_METASTASIS_DN	-1.5840212	0.17001373
CHICAS_RB1_TARGETS_LOW_SERUM	-1.5833598	0.17013626
SCHUHMACHER_MYC_TARGETS_UP	-1.5829746	0.16968699
YANG_BREAST_CANCER_ESR1_BULK_DN	-1.5825608	0.16921358
FIRESTEIN_CTNNB1_PATHWAY	-1.5807706	0.17104031
GARCIA_TARGETS_OF_FLI1_AND_DAX1_DN	-1.5800741	0.17108908
REACTOME_TELOMERE_MAINTENANCE	-1.5800488	0.17008388
STEIN_ESRRA_TARGETS_RESPONSIVE_TO_ESTROGEN_DN	-1.5797786	0.16950467
CHEMNITZ_RESPONSE_TO_PROSTAGLANDIN_E2_UP	-1.579516	0.16883695
RHODES_UNDIFFERENTIATED_CANCER	-1.5790429	0.16854113
SMITH_LIVER_CANCER	-1.579035	0.16755067
FARDIN_HYPOXIA_11	-1.5790323	0.16656415
REACTOME_ACTIVATION_OF_GENES_BY_ATF4	-1.5788072	0.16589898
MOLENAAR_TARGETS_OF_CCND1_AND_CDK4_DN	-1.5782138	0.16579218
REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS	-1.5762703	0.16801113
SESTO_RESPONSE_TO_UV_C1	-1.5756549	0.16789788
ZHANG_TLX_TARGETS_DN	-1.5755657	0.16707094
AMIT_SERUM_RESPONSE_480_MCF10A	-1.5751086	0.16695186
SIMBULAN_PARP1_TARGETS_DN	-1.574796	0.16643913
WHITFIELD_CELL_CYCLE_G2_M	-1.5737758	0.16735135
PID_FANCONI_PATHWAY	-1.573389	0.16709724
SENGUPTA_NASOPHARYNGEAL_CARCINOMA_UP	-1.5733384	0.16623692
BENPORATH_ES_1	-1.5733174	0.16535817

REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE_CHECKPOINT_COMPONENTS	-1.5719701	0.16659893
CHANG_CYCLING_GENES	-1.5716141	0.16623226
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_6HR	-1.5715729	0.1653871
NIELSEN_LIPOSARCOMA_DN	-1.57129	0.1648962
SHEPARD_BMYB_TARGETS	-1.5699023	0.16622594
PUJANA_BREAST_CANCER_WITH_BRCA1_MUTATED_UP	-1.5693951	0.1662001
CROONQUIST_NRAS_SIGNALING_DN	-1.5689816	0.16588698
BIOCARTA_ATRBRCA_PATHWAY	-1.5686605	0.16559152
REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_COMPLEX	-1.5675495	0.1663134
QI_HYPOXIA	-1.5672412	0.16589661
BOYAULT_LIVER_CANCER_SUBCLASS_G23_UP	-1.5666295	0.165882
SUNG_METASTASIS_STROMA_DN	-1.566507	0.16521084
PID_E2F_PATHWAY	-1.5661094	0.16493465
KANG_FLUOROURACIL_RESISTANCE_DN	-1.5643716	0.1670379
REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING_NUCLEOSOMES_AT_THE_CENTROMERE	-1.5639998	0.16677037
OXFORD_RALA_OR_RALB_TARGETS_UP	-1.5638263	0.16624062
KONG_E2F3_TARGETS	-1.563233	0.16648528
CROONQUIST_IL6_DEPRIVATION_DN	-1.5631058	0.16585372
NAKAMURA_CANCER_MICROENVIRONMENT_DN	-1.5626523	0.16570048
TARTE_PLASMA_CELL_VS_PLASMABLAST_DN	-1.5625372	0.16503562
ZHAN_MULTIPLE_MYELOMA_SUBGROUPS	-1.5619972	0.16503699
SMID_BREAST_CANCER_RELAPSE_IN_BONE_DN	-1.5613464	0.16528895
REACTOME_SYNTHESIS_OF_DNA	-1.5611132	0.16480997
REACTOME_MEIOSIS	-1.5608542	0.16435264
REACTOME_PERK_REGULATED_GENE_EXPRESSION	-1.5602849	0.16449624
REACTOME_SIGNALING_BY_HIPPO	-1.5591296	0.16536395
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_UP	-1.5581107	0.1661781
PRAMOONJAGO_SOX4_TARGETS_UP	-1.5576438	0.16608267
REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR_OF_REPLICATION_INDEPENDENT_DOUBLE_STRAND_BREAKS	-1.5574464	0.16560377
IWANAGA_E2F1_TARGETS_INDUCED_BY_SERUM	-1.556275	0.16662988
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_DN	-1.5556213	0.1669882
REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE_MRNA	-1.5554304	0.16650805
WEST_ADRENOCORTICAL_TUMOR_MARKERS_UP	-1.5553923	0.16580825
LI_WILMS_TUMOR_ANAPLASTIC_UP	-1.5543692	0.1665625
PEART_HDAC_PROLIFERATION_CLUSTER_DN	-1.553795	0.16664942
BOYAULT_LIVER_CANCER_SUBCLASS_G123_UP	-1.5532304	0.16672078
ZHAN_MULTIPLE_MYELOMA_PR_UP	-1.5525037	0.16711697
BURTON_ADIPOGENESIS_PEAK_AT_16HR	-1.55139	0.16807666
KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_NEOLACTO_SERIES	-1.5498782	0.16952436
GAVIN_FOXP3_TARGETS_CLUSTER_P6	-1.5494441	0.16945718
HORIUCHI_WTAP_TARGETS_DN	-1.5487746	0.16988666
PID_PLK1_PATHWAY	-1.5483071	0.1698491
CHEN_HOXA5_TARGETS_9HR_UP	-1.5477772	0.16997384
KAMMINGA_EZH2_TARGETS	-1.5474226	0.16977538
CHEN_ETV5_TARGETS_TESTIS	-1.5470489	0.16960448
TOMIDA_METASTASIS_UP	-1.5467411	0.16934194
FRASOR_RESPONSE_TO_SERM_OR_FULVESTRANT_DN	-1.5464422	0.16902614
REN_BOUND_BY_E2F	-1.5460086	0.16892892
ZWANG_EGF_INTERVAL_UP	-1.5457035	0.1686638
STONER_ESOPHAGEAL_CARCINOGENESIS_UP	-1.5429437	0.1720166
GENTILE_RESPONSE_CLUSTER_D3	-1.5427736	0.17154235
WELCSH_BRCA1_TARGETS_DN	-1.542494	0.1712434
REACTOME_RNA_POL_I_RNA_POL_III_AND_MITOCHONDRIAL_TRANSCRIPTION	-1.5420065	0.17125595
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_DN	-1.541868	0.17074196
BHATTACHARYA_EMBRYONIC_STEM_CELL	-1.541372	0.1707365
REACTOME_MEIOTIC_RECOMBINATION	-1.5407544	0.17101797
SOTIRIOU_BREAST_CANCER_GRADE_1_VS_3_UP	-1.5401002	0.17130916
JIANG_HYPOXIA_VIA_VHL	-1.5397294	0.17121461
ZHOU_CELL_CYCLE_GENES_IN_IR_RESPONSE_24HR	-1.5388961	0.17192215
REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE	-1.5385085	0.17187108
PID_BARD1_PATHWAY	-1.5384858	0.1712086
CAFFAREL_RESPONSE_TO_THC_24HR_5_DN	-1.5380585	0.17115185
MULLIGAN_NTF3_SIGNALING_VIA_INSR_AND_IGF1R_UP	-1.5375448	0.17133018
GRAHAM_CML_DIVIDING_VS_NORMAL_QUIESCENT_UP	-1.536621	0.17199428
FOURNIER_ACINAR_DEVELOPMENT_LATE_DN	-1.5363482	0.17169182
TERAMOTO_OPN_TARGETS_CLUSTER_7	-1.5358213	0.17177226
LY_AGING_OLD_DN	-1.5357184	0.17121793
TANG_SENESCENCE_TP53_TARGETS_DN	-1.5356054	0.17067577
XU_HGF_SIGNALING_NOT_VIA_AKT1_48HR_DN	-1.5339952	0.17220709
ODONNELL_TARGETS_OF_MYC_AND_TFRC_DN	-1.5339605	0.17155054
REACTOME_EXTENSION_OF_TELOMERES	-1.5333421	0.17182374
ZHENG_GLIOBLASTOMA_PLASTICITY_UP	-1.532588	0.1722537
PUJANA_BRCA2_PCC_NETWORK	-1.5323033	0.1719752
ROSTY_CERVICAL_CANCER_PROLIFERATION_CLUSTER	-1.5323027	0.17129813
REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE	-1.532029	0.170983
IIZUKA_LIVER_CANCER_PROGRESSION_G1_G2_DN	-1.5312673	0.17140736
XU_HGF_TARGETS_INDUCED_BY_AKT1_48HR_DN	-1.5312183	0.17080139
UDAYAKUMAR_MED1_TARGETS_UP	-1.5311596	0.17021944
DORN_ADENOVIRUS_INFECTION_12HR_DN	-1.5298859	0.17134635
LE_EGR2_TARGETS_UP	-1.529745	0.17092
DAZARD_UV_RESPONSE_CLUSTER_G2	-1.5296445	0.17044437
DANG_MYC_TARGETS_UP	-1.5294043	0.17015404
WU_APOPTOSIS_BY_CDKN1A_VIA_TP53	-1.5276759	0.1720475
FEVR_CTNNB1_TARGETS_DN	-1.5262167	0.17360228
WHITFIELD_CELL_CYCLE_G2	-1.5262148	0.17294717
REACTOME_RNA_POL_I_TRANSCRIPTION	-1.5260155	0.17252849
NIKOLSKY_BREAST_CANCER_6P24_P22_AMPLICON	-1.5257934	0.17223123
SMID_BREAST_CANCER_RELAPSE_IN_BRAIN_UP	-1.5255109	0.17202619
REACTOME_DNA_STRAND_ELONGATION	-1.5254335	0.1714895
SHEPARD_BMYB_MORPHOLINO_DN	-1.5252254	0.1711711

KEGG_DNA_REPLICATION	-1.5227515	0.17449692
YAMAZAKI_TCEB3_TARGETS_DN	-1.5227098	0.17393972
YIH_RESPONSE_TO_ARSENITE_C4	-1.5226806	0.17337096
DEN_INTERACT_WITH_LCA5	-1.5196743	0.17745726
BURTON_ADIPOGENESIS_3	-1.5196698	0.17681709
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_UP	-1.5185305	0.17790501
REACTOME_MEIOTIC_SYNAPSIS	-1.5175426	0.17863737
PID_MYC_PATHWAY	-1.5170239	0.1787104
NAKAMURA_TUMOR_ZONE_PERIPHERAL_VS_CENTRAL_UP	-1.5167829	0.1784333
AMIT_SERUM_RESPONSE_120_MCF10A	-1.5154618	0.17974123
SPIRA_SMOKERS_LUNG_CANCER_DN	-1.5150768	0.17969447
KIM_MYCL1_AMPLIFICATION_TARGETS_DN	-1.5148727	0.17937928
CAFFAREL_RESPONSE_TO_THC_24HR_5_UP	-1.5136397	0.18068124
SHIPP_DLBCL_VS_FOLLICULAR_LYMPHOMA_UP	-1.5136259	0.18006302
CHOW_RASSF1_TARGETS_UP	-1.513303	0.1798793
CHANDRAN_METASTASIS_UP	-1.5124723	0.18049586
REACTOME_G0_AND_EARLY_G1	-1.5116556	0.181237
GENTILE_UV_RESPONSE_CLUSTER_D4	-1.5114816	0.18092015
PID_ATM_PATHWAY	-1.5114379	0.18037972
YU_MYC_TARGETS_UP	-1.5113616	0.17986983
ONDER_CDH1_TARGETS_1_DN	-1.5107675	0.18012798
GRAHAM_NORMAL_QUIESCENT_VS_NORMAL_DIVIDING_DN	-1.5106637	0.17965487
KIM_HYPOXIA	-1.5068113	0.18496963
FERRANDO_HOX11_NEIGHBORS	-1.5051081	0.18690068
GRAHAM_CML_QUIESCENT_VS_NORMAL_QUIESCENT_UP	-1.5046791	0.18692732
DING_LUNG_CANCER_EXPRESSION_BY_COPY_NUMBER	-1.5040187	0.18730432
HEDENFALK_BREAST_CANCER_BRCA1_VS_BRCA2	-1.503088	0.18811944
AKL_HTLV1_INFECTION_UP	-1.5012492	0.19036333
PURBEY_TARGETS_OF_CTBP1_AND_SATB1_UP	-1.4989086	0.19350502
LANDIS_ERBB2_BREAST_PRENEOPLASTIC_UP	-1.4975704	0.19507132
REACTOME_RNA_POL_II_TRANSCRIPTION	-1.4960893	0.19683361
WILCOX_RESPONSE_TO_PROGESTERONE_UP	-1.4959176	0.19648369
SABATES_COLORECTAL_ADENOMA_UP	-1.4955621	0.19635016
REACTOME_REGULATORY_RNA_PATHWAYS	-1.4946551	0.19708925
PID_MYC_ACTIV_PATHWAY	-1.4939388	0.19766468
REACTOME_MICRORNA_MIRNA_BIOGENESIS	-1.4938315	0.19717932
VANTVEER_BREAST_CANCER_POOR_PROGNOSIS	-1.4929174	0.1979612
PID_AURORA_A_PATHWAY	-1.492501	0.19801365
CROONQUIST_NRAS_VS_STROMAL_STIMULATION_DN	-1.4923496	0.19764505
JI_RESPONSE_TO_FSH_DN	-1.4922303	0.19719386
KANG_DOXORUBICIN_RESISTANCE_UP	-1.4918222	0.19719651
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_UP	-1.4901114	0.19931918
MEINHOLD_OVARIAN_CANCER_LOW_GRADE_DN	-1.4898854	0.19905025
CUI_GLUCOSE_DEPRIVATION	-1.4883394	0.20080309
REACTOME_HIV_LIFE_CYCLE	-1.4873822	0.20162031
REACTOME_DNA_REPAIR	-1.4872034	0.20126705
OLSSON_E2F3_TARGETS_DN	-1.4863805	0.20203315
MORI_PRE_BI_LYMPHOCYTE_UP	-1.4862452	0.2015782
ISHIDA_E2F_TARGETS	-1.4835317	0.20536703
WU_HBX_TARGETS_2_DN	-1.4834472	0.2048249
QI_HYPOXIA_TARGETS_OF_HIF1A_AND_FOXA2	-1.4818519	0.20674369
CAFFAREL_RESPONSE_TO_THC_DN	-1.4809637	0.20748563
SESTO_RESPONSE_TO_UV_C3	-1.4800824	0.20833124
SCIBETTA_KDM5B_TARGETS_DN	-1.4792341	0.209124
PETROVA_PROX1_TARGETS_UP	-1.4787617	0.20937532
DUTERTRE_ESTRADIOL_RESPONSE_24HR_UP	-1.4769064	0.21181749
REICHERT_MITOSIS_LIN9_TARGETS	-1.4759378	0.21285048
WHITFIELD_CELL_CYCLE_LITERATURE	-1.4743432	0.21494402
MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_DN	-1.4740589	0.21483831
MEISSNER_BRAIN_HCP_WITH_H3_UNMETHYLATED	-1.4739852	0.21428831
PID_HIF2PATHWAY	-1.4733762	0.21468583
PUJANA_BREAST_CANCER_LIT_INT_NETWORK	-1.4699026	0.21991499
YANG_BREAST_CANCER_ESR1_LASER_DN	-1.468906	0.22101864
REACTOME_CONVERSION_FROM_APC_C_CDC20_TO_APC_C_CDH1_IN_LATE_ANAPHASE	-1.4688956	0.22037931
GHO_ATF5_TARGETS_DN	-1.4681103	0.22108378
PID_MTOR_4PATHWAY	-1.4655005	0.22521472
CROMER_METASTASIS_DN	-1.4634619	0.22813638
REACTOME_APOPTOTIC_EXECUTION_PHASE	-1.4634271	0.22751848
REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_MITOTIC_PROTEINS	-1.46203	0.22926502
HEIDENBLAD_AMPLICON_8Q24_UP	-1.4613885	0.22970018
JEON_SMAD6_TARGETS_DN	-1.4599204	0.23154463
REACTOME_PHOSPHORYLATION_OF_THE_APC_C	-1.459785	0.23111285
REACTOME_ORC1_REMOVAL_FROM_CHROMATIN	-1.458519	0.23267843
BURTON_ADIPOGENESIS_PEAK_AT_24HR	-1.4582341	0.23244156
REACTOME_DOUBLE_STRAND_BREAK_REPAIR	-1.4567097	0.23451656
YANG_BREAST_CANCER_ESR1_DN	-1.4564614	0.234268
MATZUK_SPERMATOCYTE	-1.4553223	0.23568343
JOHNSTONE_PARVB_TARGETS_2_DN	-1.454672	0.23619334
PENG_RAPAMYCIN_RESPONSE_DN	-1.4536752	0.23726685
KRIGE_AMINO_ACID_DEPRIVATION	-1.4523585	0.23882625
MARIADASON_RESPONSE_TO_BUTYRATE_SULINDAC_4	-1.4523437	0.2381656
CHIN_BREAST_CANCER_COPY_NUMBER_UP	-1.4522085	0.23768723
LINDGREN_BLADDER_CANCER_CLUSTER_1_DN	-1.45195	0.2374837
SMID_BREAST_CANCER_LUMINAL_A_DN	-1.4517406	0.23721771
LU_TUMOR_ANGIOGENESIS_UP	-1.4516915	0.23665132
KEGG_BASE_EXCISION_REPAIR	-1.4516908	0.23598658
FIGUEROA_AML_METHYLATION_CLUSTER_2_UP	-1.4491377	0.23969227
HESS_TARGETS_OF_HOXA9_AND_MEIS1_UP	-1.4488539	0.23953965
REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_REGULATES_TRANSCRIPTION	-1.448561	0.23938696
MATZUK_MEIOTIC_AND_DNA_REPAIR	-1.4466381	0.24213476

REACTOME_TRANSCRIPTION_COUPLED_NER_TC_NER	-1.446309	0.24201095
ELVIDGE_HIF1A_TARGETS_DN	-1.4455565	0.24272929
REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION	-1.4449135	0.24323092
PID_PI3KCI_AKT_PATHWAY	-1.4448769	0.24262011
MENSSEN_MYC_TARGETS	-1.4436105	0.24429522
KEGG_MISMATCH_REPAIR	-1.4429702	0.24476427
REACTOME_AMINO_ACID_SYNTHESIS_AND_INTERCONVERSION_TRANSAMINATION	-1.4427787	0.24443886
DOANE_BREAST_CANCER_ESR1_DN	-1.4424251	0.2443242
GAZIN_EPIGENETIC_SILENCING_BY_KRAS	-1.4405731	0.24702765
GREENBAUM_E2A_TARGETS_UP	-1.4395119	0.24823758
UEDA_PERIFERAL_CLOCK	-1.4392681	0.24803141
KAPOSI_LIVER_CANCER_MET_UP	-1.4390097	0.24784781
KENNY_CTNNB1_TARGETS_UP	-1.4383125	0.24847035
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_14	-1.4381198	0.2481428
REACTOME_BASIGIN_INTERACTIONS	-1.4370369	0.24952668
PID_FOXO_PATHWAY	-1.4368865	0.24910866
JAEGER_METASTASIS_UP	-1.4368708	0.24846773
YU_BAP1_TARGETS	-1.4367682	0.24799475
BIOCARTA_ACTINY_PATHWAY	-1.4342463	0.24994634
CSR_EARLY_UP.V1_UP	-1.778913	0.026930494
RPS14_DN.V1_DN	-1.616988	0.13652802
GCNP_SHH_UP_LATE.V1_UP	-1.5740153	0.14860031
E2F1_UP.V1_UP	-1.5603833	0.13109927
GCNP_SHH_UP_EARLY.V1_UP	-1.5360478	0.13961783
SIRNA_EIF4GI_DN	-1.5286465	0.12640621
MTOR_UP.V1_UP	-1.5278184	0.10919107
PRC2_EZH2_UP.V1_UP	-1.5123637	0.11226115
CSR_LATE_UP.V1_UP	-1.496583	0.11820617
TBK1.DN.48HRS_UP	-1.4548373	0.1605833
PRC2_EED_UP.V1_DN	-1.4498048	0.15365516
HOXA9_DN.V1_DN	-1.4448105	0.14754823
AKT_UP.V1_UP	-1.4445903	0.13650045
KRAS.DF.V1_DN	-1.4204334	0.15955879
VEGF_A_UP.V1_DN	-1.4046097	0.17073005
SRC_UP.V1_DN	-1.4029921	0.16195261
RB_P107_DN.V1_UP	-1.3950583	0.16331598
ATF2_S_UP.V1_UP	-1.3431537	0.22962077
HALLMARK_MYC_TARGETS_V1	-1.7091912	0.08825651
HALLMARK_GLYCOLYSIS	-1.7054101	0.04642232
HALLMARK_E2F_TARGETS	-1.6513934	0.058375258
HALLMARK_G2M_CHECKPOINT	-1.6233176	0.059379343
HALLMARK_MITOTIC_SPINDLE	-1.6223651	0.047601152
HALLMARK_MYC_TARGETS_V2	-1.6140976	0.045118697
HALLMARK_SPERMATOGENESIS	-1.6038322	0.042395268
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	-1.5728132	0.052223798
HALLMARK_MTORC1_SIGNALING	-1.5488518	0.058601476

Table S3 Genesets enriched in *VEGFA* high *ANGPTL4* high tertile

GENESET NAME	NES	FDR q-val
PID_HIF2PATHWAY	-1.811154	0.238873
ELVIDGE_HYPOXIA_BY_DMOG_UP	-1.806168	0.240767
HIRSCH_CELLULAR_TRANSFORMATION_SIGNATURE_UP	-1.800771	0.243971
RICKMAN_TUMOR_DIFFERENTIATED_WELL_VS_POORLY_DN	-1.79809	0.242221
KIM_HYPOXIA	-1.797158	0.233925
PELLICCIOTTA_HDAC_IN_ANTIGEN_PRESENTATION_UP	-1.794306	0.231431
ELVIDGE_HYPOXIA_UP	-1.793161	0.224889
QI_HYPOXIA	-1.786008	0.235042
PID_HIF1_TFPATHWAY	-1.785188	0.228817
KANG_AR_TARGETS_DN	-1.782701	0.227144
PODAR_RESPONSE_TO_ADAPHOSTIN_UP	-1.779968	0.226127
ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN	-1.779936	0.218718
DITTMER_PTHLH_TARGETS_DN	-1.77378	0.226989
MAHADEVAN_RESPONSE_TO_MP470_DN	-1.771714	0.224788
MARTORIATI_MDM4_TARGETS_NEUROEPITHELIUM_UP	-1.765514	0.233951
ELVIDGE_HIF1A_TARGETS_DN	-1.764823	0.228395
GROSS_HIF1A_TARGETS_DN	-1.758559	0.237537
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_UP	-1.757936	0.23248
REACTOME_PYRIMIDINE_METABOLISM	-1.753255	0.237152
DAUER_STAT3_TARGETS_UP	-1.752495	0.232595
CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN	-1.750528	0.231796
LEONARD_HYPOXIA	-1.750389	0.226204
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_3D_DN	-1.747921	0.226675
GROSS_HYPOXIA_VIA_ELK3_ONLY_UP	-1.746167	0.225091
BIOCARTA_GCR_PATHWAY	-1.746016	0.220279
FARDIN_HYPOXIA_11	-1.745928	0.215425
PLASARI_TGFB1_TARGETS_10HR_UP	-1.743212	0.217042
CROONQUIST_STROMAL_STIMULATION_UP	-1.742853	0.213083
SEMENZA_HIF1_TARGETS	-1.734573	0.229189
KOBAYASHI_RESPONSE_TO_ROMIDEPSIN	-1.734571	0.224414
PID_UPA_UPAR_PATHWAY	-1.732858	0.224501
NAM_FXYD5_TARGETS_DN	-1.731743	0.222468
WANG_METHYLATED_IN_BREAST_CANCER	-1.731324	0.219126
PID_INTEGRIN3_PATHWAY	-1.728718	0.221438
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_UP	-1.725766	0.224562
AKL_HTLV1_INFECTION_UP	-1.72506	0.222085
BURTON_ADIPOGENESIS_PEAK_AT_2HR	-1.724443	0.219744
PID_FRA_PATHWAY	-1.722772	0.219341
JI_RESPONSE_TO_FSH_DN	-1.720696	0.220252
SANA_RESPONSE_TO_IFNG_DN	-1.718162	0.223146
SAGIV_CD24_TARGETS_DN	-1.718052	0.21966
CHEN_LUNG_CANCER_SURVIVAL	-1.716152	0.22002
MARCHINI_TRABECTEDIN_RESISTANCE_DN	-1.714682	0.219731
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	-1.71343	0.219017
PID_VEGFR1_PATHWAY	-1.711147	0.220278
GROSS_ELK3_TARGETS_DN	-1.709241	0.220602
DAZARD_RESPONSE_TO_UV_SCC_UP	-1.707366	0.222385
GROSS_HYPOXIA_VIA_ELK3_DN	-1.706984	0.220343
AZARE_STAT3_TARGETS	-1.706527	0.218031
ZHOU_TNF_SIGNALING_30MIN	-1.706312	0.215495
WOTTON_RUNX_TARGETS_UP	-1.705903	0.212959
PUIFFE_INVASION_INHIBITED_BY_ASCITES_DN	-1.704523	0.212905
KASLER_HDAC7_TARGETS_1_DN	-1.703264	0.212719
WATANABE_RECTAL_CANCER_RADIOTHERAPY_RESPONSIVE_DN	-1.697506	0.222888
KRIGE_AMINO_ACID_DEPRIVATION	-1.696857	0.221417
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_MONOCYTE_UP	-1.694007	0.224486
AMIT_EGF_RESPONSE_60_MCF10A	-1.692932	0.22388
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP	-1.69083	0.225703
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	-1.689415	0.226278
PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2	-1.689357	0.223728
HENDRICKS_SMARCA4_TARGETS_UP	-1.688643	0.222745
REACTOME_UNFOLDED_PROTEIN_RESPONSE	-1.685346	0.227808
REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DOLICHOL_LIPID_LINKED_OLIGOSACCHARIDE_LLO_AND_TRANSFER_TO_A_NASCENT_PROTEIN	-1.684594	0.226973
VERRECCHIA_EARLY_RESPONSE_TO_TGFB1	-1.683257	0.227604
MARTORIATI_MDM4_TARGETS_FETAL_LIVER_UP	-1.682513	0.22658
LIN_MELANOMA_COPY_NUMBER_DN	-1.682185	0.224685
GHANDHI_DIRECT_IRRADIATION_UP	-1.681181	0.224263
REACTOME_A_TETRASACCHARIDE_LINKER_SEQUENCE_IS_REQUIRED_FOR_GAG_SYNTHESIS	-1.67749	0.23052
HUMMERICH_SKIN_CANCER_PROGRESSION_UP	-1.676948	0.229138
WILSON_PROTEASES_AT_TUMOR_BONE_INTERFACE_UP	-1.676364	0.227894
SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER	-1.676138	0.22576
ROZANOV_MMP14_TARGETS_SUBSET	-1.673376	0.229423
SHEPARD_CRUSH_AND_BURN_MUTANT_UP	-1.672988	0.227687
REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION	-1.672964	0.225223
PID_SYNDECAN_2_PATHWAY	-1.671131	0.227248
SILIGAN_TARGETS_OF_EWS_FLI1_FUSION_DN	-1.670104	0.227116
MATTHEWS_AP1_TARGETS	-1.669819	0.225318
NAKAMURA_ADIPOGENESIS_EARLY_UP	-1.667806	0.227899
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	-1.667803	0.22555
TOOKER_GEMCITABINE_RESISTANCE_DN	-1.666829	0.225343

NIKOLSKY_BREAST_CANCER_8Q12_Q22_AMPLICON	-1.666008	0.224968
SESTO_RESPONSE_TO_UV_C6	-1.66372	0.22787
REACTOME_PERK_REGULATED_GENE_EXPRESSION	-1.66242	0.228624
WANG_SMARCE1_TARGETS_DN	-1.660794	0.230372
BIOCARTA_GSK3_PATHWAY	-1.659641	0.230735
XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR	-1.659189	0.229621
SMITH_TERT_TARGETS_UP	-1.656373	0.234067
PID_AP1_PATHWAY	-1.653227	0.239699
NAKAMURA_ADIPOGENESIS_LATE_DN	-1.652722	0.238569
VERRECCHIA_RESPONSE_TO_TGFB1_C1	-1.651594	0.238801
WILLERT_WNT_SIGNALING	-1.651256	0.237242
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_UP	-1.651244	0.235114
AMIT_EGF_RESPONSE_40_MCF10A	-1.647548	0.241294
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	-1.647239	0.239964
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP	-1.646703	0.239061
KIM_WT1_TARGETS_12HR_DN	-1.645148	0.240527
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	-1.644051	0.24125
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	-1.642824	0.241939
REACTOME_GLUCOSE_METABOLISM	-1.642635	0.240339
JIANG_TIP30_TARGETS_UP	-1.639845	0.244789
KIM_WT1_TARGETS_8HR_UP	-1.637772	0.24753
MIKKELSEN_MEF_LCP_WITH_H3K4ME3	-1.637095	0.247195
SEIDEN_ONCOGENESIS_BY_MET	-1.636223	0.247609
DALESSIO_TSA_RESPONSE	-1.635592	0.247009
KAN_RESPONSE_TO_ARSENIC_TRIOXIDE	-1.634894	0.246481
KYNG_ENVIRONMENTAL_STRESS_RESPONSE_UP	-1.634535	0.245321
CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	-1.632933	0.246934
CASTELLANO_NRAS_TARGETS_UP	-1.632723	0.245535
NAKAMURA_ADIPOGENESIS_EARLY_DN	-1.632051	0.245207
WANG_CLIM2_TARGETS_DN	-1.631979	0.243476
GHANDHI_BYSTANDER_IRRADIATION_UP	-1.63161	0.242326
PID_INTEGRIN5_PATHWAY	-1.629935	0.24451
DITTMER_PTHLH_TARGETS_UP	-1.629634	0.243412
JIANG_VHL_TARGETS	-1.629314	0.242473
MOOTHA_PGC	-1.629201	0.240913
DAZARD_RESPONSE_TO_UV_NHEK_UP	-1.627756	0.242379
PRAMOONJAGO_SOX4_TARGETS_UP	-1.627111	0.242071
BIOCARTA_CDMAC_PATHWAY	-1.625929	0.242997
WOOD_EBV_EBNA1_TARGETS_DN	-1.625801	0.241585
NABA_ECM_REGULATORS	-1.625416	0.240579
GERY_CEBP_TARGETS	-1.624289	0.241586
NAGASHIMA_NRG1_SIGNALING_UP	-1.624025	0.240374
AMIT_SERUM_RESPONSE_60_MCF10A	-1.622438	0.242456
HALMOS_CEBPA_TARGETS_UP	-1.622281	0.241059
MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP	-1.621987	0.240001
CROMER_TUMORIGENESIS_UP	-1.620458	0.241877
HERNANDEZ_MITOTIC_ARREST_BY_DOCETAXEL_1_DN	-1.619695	0.242059
REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFATE_METABOLISM	-1.619089	0.241813
HUANG_FOXA2_TARGETS_DN	-1.618361	0.241657
PYEON_CANCER_HEAD_AND_NECK_VS_CERVICAL_DN	-1.6182	0.240266
KIM_PTEN_TARGETS_UP	-1.617686	0.239836
HUANG_DASATINIB_RESISTANCE_UP	-1.615335	0.243379
GENTILE_UV_RESPONSE_CLUSTER_D6	-1.614715	0.243078
MCDOWELL_ACUTE_LUNG_INJURY_UP	-1.611458	0.249149
SWEET_KRAS_TARGETS_UP	-1.611384	0.247722
VERRECCHIA_DELAYED_RESPONSE_TO_TGFB1	-1.601154	0.249935
BROWNE_HCMV_INFECTION_16HR_DN	-1.601069	0.248596
WANG_CISPLATIN_RESPONSE_AND_XPC_DN	-1.600852	0.247614
BOUDOUKHA_BOUND_BY_IGF2BP2	-1.599835	0.248586
KRIEG_HYPOXIA_VIA_KDM3A	-1.599524	0.247854
BURTON_ADIPOGENESIS_9	-1.59901	0.247735
TAKAO_RESPONSE_TO_UVB_RADIATION_DN	-1.598815	0.246734
REACTOME_ACTIVATION_OF_GENES_BY_ATF4	-1.598211	0.246779
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	-1.597353	0.247361
SCHOEN_NFKB_SIGNALING	-1.596819	0.246808
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_DN	-1.595691	0.247939
WEINMANN_ADAPTATION_TO_HYPOXIA_DN	-1.595232	0.247665
BLALOCK_ALZHEIMERS_DISEASE_INCIPIENT_DN	-1.59517	0.246445
NEMETH_INFLAMMATORY_RESPONSE_LPS_UP	-1.594949	0.245545
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	-1.594588	0.245107
DAZARD_UV_RESPONSE_CLUSTER_G28	-1.594343	0.244181
ZWANG_CLASS_3_TRANSIENTLY_INDUCED_BY_EGF	-1.593621	0.244346
LINDVALL_IMMORTALIZED_BY_TERT_DN	-1.592545	0.245421
PID_TOLL_ENDOGENOUS_PATHWAY	-1.592309	0.244674
KEGG_ALANINE_ASPARTATE_AND_GLUTAMATE_METABOLISM	-1.591956	0.244102
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_UP	-1.590967	0.244709
QI_PLASMACYTOMA_DN	-1.590899	0.243542
WINZEN_DEGRADED_VIA_KHSRP	-1.590082	0.243958
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_DN	-1.59006	0.242724
GROSS_HYPOXIA_VIA_HIF1A_DN	-1.590015	0.241588
AZARE_NEOPLASTIC_TRANSFORMATION_BY_STAT3_UP	-1.589129	0.242405
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	-1.588023	0.243506

REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION	-1.587761	0.242957
TERAMOTO_OPN_TARGETS_CLUSTER_7	-1.586572	0.244381
SMIRNOV_RESPONSE_TO_IR_2HR_UP	-1.585994	0.244316
VERHAAK_GLIOBLASTOMA_MESENCHYMAL	-1.585822	0.243463
KIM_WT1_TARGETS_UP	-1.585816	0.242238
BIOCARTA_IL1R_PATHWAY	-1.582693	0.248076
MA_PITUITARY_FETAL_VS_ADULT_UP	-1.582506	0.247292
BIOCARTA_NTHI_PATHWAY	-1.582161	0.246771
PID_INTEGRIN1_PATHWAY	-1.581949	0.246152
TSUNODA_CISPLATIN_RESISTANCE_UP	-1.58134	0.24622
HOWLIN_PUBERTAL_MAMMARY_GLAND	-1.581188	0.245396
JEON_SMAD6_TARGETS_UP	-1.580268	0.24614
GENTILE_UV_HIGH_DOSE_UP	-1.57923	0.247239
REACTOME_PYRUVATE_METABOLISM	-1.578761	0.24723
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	-1.576951	0.249962
REACTOME_METABOLISM_OF_PROTEINS	-1.576468	0.249684
VERRECCHIA_RESPONSE_TO_TGFB1_C2	-1.576278	0.248933
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP	-1.576208	0.247906
BROWNE_HCMV_INFECTION_48HR_DN	-1.575462	0.24845
WANG_RESPONSE_TO_BEXAROTENE_DN	-1.575297	0.247632
NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_UP	-1.575201	0.246667
AMIT_EGF_RESPONSE_120_HELA	-1.574625	0.246921
GENTILE_UV_HIGH_DOSE_DN	-1.574316	0.246298
UEDA_CENTRAL_CLOCK	-1.57423	0.245387
SUH_COEXPRESSED_WITH_ID1_AND_ID2_UP	-1.573392	0.245938
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	-1.572949	0.245668
SESTO_RESPONSE_TO_UV_C3	-1.572622	0.245236
PEART_HDAC_PROLIFERATION_CLUSTER_UP	-1.572487	0.244476
INGA_TP53_TARGETS	-1.571044	0.246441
CSR_EARLY_UP.V1_UP	-1.785736	0.030531
SIRNA_EIF4GI_DN	-1.726126	0.041519
RB_DN.V1_DN	-1.716326	0.033475
PDGF_UP.V1_UP	-1.706604	0.029438
KRAS.DF.V1_UP	-1.665539	0.049377
EGFR_UP.V1_UP	-1.660951	0.043474
MTOR_UP.N4.V1_UP	-1.646406	0.046493
MEL18_DN.V1_UP	-1.641766	0.04441
BMI1_DN_MEL18_DN.V1_UP	-1.633553	0.044661
STK33_NOMO_UP	-1.624269	0.044039
TBK1.DF_UP	-1.623078	0.04078
BMI1_DN.V1_UP	-1.614035	0.041951
CAHOY_ASTROGLIAL	-1.600553	0.046407
ALK_DN.V1_UP	-1.583374	0.053814
STK33_UP	-1.550065	0.07565
KRAS.LUNG.BREAST_UP.V1_UP	-1.545011	0.076372
KRAS.600.LUNG.BREAST_UP.V1_UP	-1.532806	0.08308
HOXA9_DN.V1_DN	-1.530081	0.080906
LEF1_UP.V1_UP	-1.529117	0.077237
RB_P107_DN.V1_DN	-1.525352	0.077189
PTEN_DN.V2_UP	-1.520292	0.078124
ESC_V6.5_UP_EARLY.V1_DN	-1.517577	0.078173
ESC_V6.5_UP_LATE.V1_DN	-1.50074	0.087962
PIGF_UP.V1_UP	-1.498262	0.086186
IL15_UP.V1_UP	-1.496073	0.084635
MEK_UP.V1_UP	-1.487859	0.088206
ATF2_S_UP.V1_DN	-1.477446	0.094064
ESC_J1_UP_EARLY.V1_DN	-1.476992	0.091264
ATF2_UP.V1_DN	-1.466047	0.09872
TGFB_UP.V1_UP	-1.464846	0.096319
E2F1_UP.V1_DN	-1.446417	0.108925
ERB2_UP.V1_UP	-1.443488	0.108366
NRL_DN.V1_DN	-1.436932	0.1117
BCAT_BILD_ET_AL_DN	-1.433027	0.112451
ATM_DN.V1_UP	-1.421278	0.120314
AKT_UP_MTOR_DN.V1_DN	-1.411211	0.127254
CAHOY_ASTROCYTIC	-1.404445	0.131561
RAF_UP.V1_UP	-1.39782	0.135523
CYCLIN_D1_KE_.V1_UP	-1.397166	0.132823
ATF2_S_UP.V1_UP	-1.389184	0.138475
HINATA_NFKB_IMMU_INF	-1.38759	0.136337
CORDENONSI_YAP_CONSERVED_SIGNATURE	-1.37971	0.141934
CRX_DN.V1_DN	-1.359293	0.163639
JNK_DN.V1_UP	-1.358175	0.161408
P53_DN.V2_UP	-1.356281	0.160041
PRC2_EZH2_UP.V1_DN	-1.35617	0.156637
EIF4E_DN	-1.347626	0.164094
CTIP_DN.V1_UP	-1.342268	0.167885
RB_P130_DN.V1_DN	-1.336313	0.172933
STK33_SKM_UP	-1.332356	0.175161
KRAS.LUNG_UP.V1_UP	-1.32985	0.174539
RELA_DN.V1_UP	-1.328346	0.17368
AKT_UP_MTOR_DN.V1_UP	-1.326953	0.172328

TBK1.DN.48HRS_UP	-1.324225	0.172125
ESC_J1_UP_LATE.V1_UP	-1.323605	0.169746
VEGF_A_UP.V1_DN	-1.319332	0.172867
HOXA9_DN.V1_UP	-1.31807	0.171419
CYCLIN_D1_UP.V1_DN	-1.315227	0.17231
CRX_NRL_DN.V1_DN	-1.3073	0.179161
ESC_J1_UP_LATE.V1_DN	-1.303942	0.180387
PKCA_DN.V1_DN	-1.287897	0.199483
MTOR_UP.V1_UP	-1.286096	0.198148
TBK1.DF_DN	-1.281352	0.200934
P53_DN.V1_UP	-1.27955	0.20013
KRAS.PROSTATE_UP.V1_DN	-1.270423	0.209795
CYCLIN_D1_UP.V1_UP	-1.269589	0.207493
KRAS.BREAST_UP.V1_UP	-1.266572	0.208673
AKT_UP.V1_DN	-1.258184	0.217185
IL21_UP.V1_UP	-1.255436	0.217755
CAMP_UP.V1_DN	-1.254969	0.21533
TGFB_UP.V1_DN	-1.25291	0.215455
SNF5_DN.V1_DN	-1.251383	0.214541
IL2_UP.V1_UP	-1.245352	0.219787
PDGF_ERK_DN.V1_DN	-1.245306	0.216831
KRAS.600_UP.V1_UP	-1.24524	0.213968
SRC_UP.V1_DN	-1.24216	0.215232
KRAS.50_UP.V1_UP	-1.234205	0.22377
EIF4E_UP	-1.229649	0.227801
STK33_SKM_DN	-1.224801	0.232561
CSR_LATE_UP.V1_DN	-1.224555	0.22993
KRAS.300_UP.V1_UP	-1.221503	0.231309
YAP1_UP	-1.216989	0.236086
RPS14_DN.V1_UP	-1.213897	0.23763
KRAS.50_UP.V1_DN	-1.213507	0.235513
NFE2L2.V2	-1.208545	0.239413
KRAS.KIDNEY_UP.V1_DN	-1.206016	0.240305
PRC1_BMI_UP.V1_DN	-1.20335	0.241282
HALLMARK_HYPOXIA	-1.864924	0.03245
HALLMARK_GLYCOLYSIS	-1.792324	0.040907
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	-1.724908	0.058499
HALLMARK_MTORC1_SIGNALING	-1.686427	0.060807
HALLMARK_ANGIOGENESIS	-1.628105	0.096024
HALLMARK_UNFOLDED_PROTEIN_RESPONSE	-1.612943	0.094081
HALLMARK_PROTEIN_SECRETION	-1.605944	0.08554
HALLMARK_TNFA_SIGNALING_VIA_NFKB	-1.544121	0.127834
HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY	-1.532094	0.126472
HALLMARK_ADIPOGENESIS	-1.523917	0.122702
HALLMARK_P53_PATHWAY	-1.513178	0.12054
HALLMARK_CHOLESTEROL_HOMEOSTASIS	-1.513136	0.110495
HALLMARK_XENOBIOTIC_METABOLISM	-1.493636	0.119289
HALLMARK_UV_RESPONSE_UP	-1.445863	0.157744
HALLMARK_COAGULATION	-1.436924	0.158927
HALLMARK_APOPTOSIS	-1.432929	0.152092
HALLMARK_UV_RESPONSE_DN	-1.420904	0.153646
HALLMARK_INFLAMMATORY_RESPONSE	-1.406125	0.159011
HALLMARK_KRAS_SIGNALING_UP	-1.400521	0.157409
HALLMARK_FATTY_ACID_METABOLISM	-1.331599	0.219652

Table S4. Genesets enriched in *VEGFA* low *ANGPTL4* high tertile

GENESET NAME	NES	FDR q-val
GROSS_HIF1A_TARGETS_DN	-1.8443651	0.24109855
PID_PDGFRA_PATHWAY	-1.8424854	0.21224721
HSIAO_LIVER_SPECIFIC_GENES	-1.815934	0.24080268
REACTOME_PLATELET_HOMEOSTASIS	-1.8154833	0.21792485
PID_S1P_S1P3_PATHWAY	-1.8101345	0.21412712
BIOCARTA_PPARA_PATHWAY	-1.8013473	0.22404866
NIKOLSKY_BREAST_CANCER_20Q11_AMPLICON	-1.8003933	0.2095655
PID_ANGIOPOIETIN_RECEPTOR_PATHWAY	-1.7915208	0.21978052
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_DN	-1.7880073	0.21553473
REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM	-1.7835512	0.21410172
LEE_LIVER_CANCER	-1.782874	0.20313992
BIOCARTA_INTRINSIC_PATHWAY	-1.7790973	0.20180961
SU_LIVER	-1.7784125	0.1928648
REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOSOLIC_CA2_	-1.7778606	0.18470854
CHIANG_LIVER_CANCER_SUBCLASS_PROLIFERATION_DN	-1.7734149	0.1863303
REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE	-1.7715566	0.18242967
BURTON_ADIPOGENESIS_6	-1.7704753	0.17710276
BOYAULT_LIVER_CANCER_SUBCLASS_G3_DN	-1.7695391	0.17205001
REACTOME_DARPP_32_EVENTS	-1.7662141	0.17416325
TIAN_TNF_SIGNALING_NOT_VIA_NFKB	-1.7637495	0.17287476
ZHANG_TLX_TARGETS_UP	-1.7595502	0.17607504
ZHANG_TLX_TARGETS_36HR_UP	-1.759197	0.17038877
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_UP	-1.755325	0.17291203
BILANGES_SERUM_SENSITIVE_VIA_TSC1	-1.7528987	0.17324422
LEE_CALORIE_RESTRICTION_MUSCLE_UP	-1.7525083	0.16854538
MCBRYAN_PUBERTAL_BREAST_4_5WK_DN	-1.7524015	0.16340478
REACTOME_CGMP_EFFECTS	-1.7466819	0.16973634
REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION	-1.7457305	0.16623631
BIOCARTA_CXCR4_PATHWAY	-1.7435292	0.16588448
NAKAMURA_ADIPOGENESIS_EARLY_UP	-1.7428967	0.16247098
LEIN_ASTROCYTE_MARKERS	-1.742692	0.1583819
NAKAMURA_ADIPOGENESIS_LATE_UP	-1.7415421	0.15622047
IIZUKA_LIVER_CANCER_PROGRESSION_L1_G1_UP	-1.7411698	0.15303385
ADDYA_ERYTHROID_DIFFERENTIATION_BY_HEMIN	-1.7410276	0.14961527
SEMENZA_HIF1_TARGETS	-1.7395804	0.14835718
REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES	-1.7337732	0.15538155
PID_HIF1_TFPATHWAY	-1.7337731	0.15176801
SATO_SILENCED_BY_DEACETYLATION_IN_PANCREATIC_CANCER	-1.7325575	0.15056647
PID_S1P_S1P2_PATHWAY	-1.7315507	0.14928035
BIOCARTA_SHH_PATHWAY	-1.728913	0.15113701
KEGG_FATTY_ACID_METABOLISM	-1.7288942	0.14799671
REACTOME_INTEGRATION_OF_ENERGY_METABOLISM	-1.7251407	0.15141389
MANALO_HYPOXIA_UP	-1.7250444	0.14847776
CAIRO_HEPATOBLASTOMA_DN	-1.7206181	0.15313576
WEST_ADRENOCORTICAL_TUMOR_DN	-1.7203629	0.1505748
REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE	-1.7185144	0.15148672
BIOCARTA_GCR_PATHWAY	-1.716414	0.15232915
ZAMORA_NOS2_TARGETS_DN	-1.7135286	0.1553424
REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AGGREGATION	-1.7128474	0.15365966
KYNG_DNA_DAMAGE_BY_4NQO_OR_GAMMA_RADIATION	-1.7120118	0.15253718
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_UP	-1.712001	0.1498989
PID_S1P_S1P1_PATHWAY	-1.7118495	0.14768372
HOSHIDA_LIVER_CANCER_SUBCLASS_S3	-1.7108127	0.14683962
REACTOME_INTRINSIC_PATHWAY	-1.7103912	0.14515224
KEEN_RESPONSE_TO_ROSIGLITAZONE_UP	-1.7103399	0.14284939
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_DN	-1.7100817	0.1410894
PID_HNF3B_PATHWAY	-1.7096428	0.13961096
BIOCARTA_VEGF_PATHWAY	-1.7096175	0.13746619
SMITH_TERT_TARGETS_DN	-1.7092152	0.13595694
VARELA_ZMPSTE24_TARGETS_UP	-1.7056226	0.14042683
SCHRAETS_MLL_TARGETS_DN	-1.705307	0.13886839
REACTOME_G_ALPHA_S_SIGNALLING_EVENTS	-1.7047976	0.13767174
YAMASHITA_LIVER_CANCER_STEM_CELL_DN	-1.7016157	0.14125484
FALVELLA_SMOKERS_WITH_LUNG_CANCER	-1.7001617	0.14181004
MAGRANGEAS_MULTIPLE_MYELOMA_IGG_VS_IGA_UP	-1.6973886	0.14419752
GRUETZMANN_PANCREATIC_CANCER_DN	-1.6968478	0.1433853
BROWNE_HCMV_INFECTION_18HR_DN	-1.6936765	0.14672254
HUMMERICH_BENIGN_SKIN_TUMOR_DN	-1.6929384	0.14589882
MIKKELSEN_IPS_HCP_WITH_H3_UNMETHYLATED	-1.6918199	0.1458248
LEE_AGING_MUSCLE_UP	-1.6912856	0.14494304
REACTOME_REGULATION_OF_INSULIN_SECRETION	-1.6903385	0.14457637
HARRIS_HYPOXIA	-1.6895224	0.14424856
GUO_HEX_TARGETS_DN	-1.6880722	0.1447184
NOJIMA_SFRP2_TARGETS_UP	-1.6872749	0.14425838
HOUSTIS_ROS	-1.6853838	0.14566924

HUMMERICH_SKIN_CANCER_PROGRESSION_DN	-1.6852819	0.14406197
VARELA_ZMPSTE24_TARGETS_DN	-1.6846081	0.1435982
CADWELL_ATG16L1_TARGETS_UP	-1.6838205	0.14312707
REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TRANSPORT	-1.6836036	0.14176638
REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_MEMBRANE	-1.6824107	0.1423872
HOFFMANN_IMMATURE_TO_MATURE_B_LYMPHOCYTE_DN	-1.6820059	0.14156647
KEGG_COMPLEMENT_AND_COAGULATION_CASCADES	-1.6809171	0.1414096
REACTOME_ERK_MAPK_TARGETS	-1.6803166	0.14071354
ICHIBA_GRAFT_VERSUS_HOST_DISEASE_35D_DN	-1.6791589	0.14097899
AMIT_DELAYED_EARLY_GENES	-1.6786357	0.14045541
KINSEY_TARGETS_OF_EWSR1_FLII_FUSION_DN	-1.6767671	0.14177366
MALONEY_RESPONSE_TO_17AAG_UP	-1.6715306	0.14939612
PANGAS_TUMOR_SUPPRESSION_BY_SMAD1_AND_SMAD5_UP	-1.6702702	0.14984325
NING_CHRONIC_OBSTRUCTIVE_PULMONARY_DISEASE_UP	-1.6692346	0.15009302
NADLER_OBESITY_DN	-1.6686621	0.14935122
RUAN_RESPONSE_TO_TNF_DN	-1.6682756	0.14859696
THEODOROU_MAMMARY_TUMORIGENESIS	-1.6680368	0.14759004
BURTON_ADIPOGENESIS_PEAK_AT_2HR	-1.6669847	0.14788249
GESERICK_TERT_TARGETS_DN	-1.6667778	0.1468144
LANDIS_ERBB2_BREAST_TUMORS_324_DN	-1.6664814	0.14596027
BONOME_OVARIAN_CANCER_SURVIVAL_SUBOPTIMAL_DEBULKING	-1.665529	0.1463038
KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY	-1.6646074	0.14638214
IIZUKA_LIVER_CANCER_PROGRESSION_G2_G3_UP	-1.6639743	0.14611787
CAVARD_LIVER_CANCER_MALIGNANT_VS_BENIGN	-1.6637378	0.14509852
REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEINS	-1.6622057	0.14651571
LIM_MAMMARY_STEM_CELL_UP	-1.6611812	0.14699878
IWANAGA_CARCINOGENESIS_BY_KRAS_PTEN_DN	-1.6611301	0.1457324
LEE_LIVER_CANCER_MYC_E2F1_DN	-1.6610217	0.14455155
LEE_LIVER_CANCER_SURVIVAL_UP	-1.6595428	0.1457332
URS_ADIPOCYTE_DIFFERENTIATION_UP	-1.6594226	0.14463934
WENG_POR_TARGETS_GLOBAL_DN	-1.65868	0.14433974
MCDOWELL_ACUTE_LUNG_INJURY_DN	-1.6582246	0.14369057
ELVIDGE_HYPOXIA_UP	-1.6577232	0.14335124
WOO_LIVER_CANCER_RECURRENCE_DN	-1.6575474	0.14246172
SHETH_LIVER_CANCER_VS_TXNIP_LOSS_PAM4	-1.6565411	0.14317273
KYNG_DNA_DAMAGE_BY_4NQO	-1.6558181	0.142898
SWEET_LUNG_CANCER_KRAS_DN	-1.6548936	0.14298148
KEGG_TRYPTOPHAN_METABOLISM	-1.6546041	0.14221287
JOHANSSON_BRAIN_CANCER_EARLY_VS_LATE_DN	-1.6545696	0.14109632
REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	-1.6541651	0.14052577
AMIT_SERUM_RESPONSE_20_MCF10A	-1.6534387	0.14054468
ZHU_CMV_ALL_DN	-1.6528848	0.14031494
ACEVEDO_LIVER_TUMOR_VS_NORMAL_ADJACENT_TISSUE_DN	-1.6519612	0.14080854
KEGG_PPAR_SIGNALING_PATHWAY	-1.6518086	0.13986413
BURTON_ADIPOGENESIS_9	-1.6511246	0.13999568
WANG_ADIPOGENIC_GENES_REPRESSED_BY_SIRT1	-1.6500152	0.14038204
DAUER_STAT3_TARGETS_UP	-1.6498827	0.13948432
KEGG_TYROSINE_METABOLISM	-1.6497152	0.13863501
CROONQUIST_STROMAL_STIMULATION_UP	-1.6497084	0.13757508
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_DN	-1.6492859	0.13702868
YAMAZAKI_TCEB3_TARGETS_UP	-1.6484696	0.1371008
REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION	-1.6467127	0.1388094
LA_MEN1_TARGETS	-1.6464779	0.13808997
ZHU_CMV_8_HR_DN	-1.6456665	0.13833176
LEE_LIVER_CANCER_DENA_DN	-1.6453758	0.13781151
WESTON_VEGFA_TARGETS_6HR	-1.645268	0.13694139
BIOCARTA_CK1_PATHWAY	-1.644308	0.13759896
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_DN	-1.6431736	0.13837215
VALK_AML_CLUSTER_13	-1.642939	0.13779394
WANG_CISPLATIN_RESPONSE_AND_XPC_DN	-1.6419053	0.13831355
DURAND_STROMA_S_UP	-1.6412948	0.13829635
ZHENG_GLIOBLASTOMA_PLASTICITY_DN	-1.6397364	0.13957529
XU_HGF_SIGNALING_NOT_VIA_AKT1_6HR	-1.6383979	0.14071311
TSENG_IRS1_TARGETS_DN	-1.6370507	0.1421439
REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS	-1.636107	0.1426178
GERHOLD_ADIPOGENESIS_UP	-1.6360432	0.14173311
MOREAUX_B_LYMPHOCYTE_MATURATION_BY_TACI_UP	-1.6359878	0.1408514
GENTILE_UV_LOW_DOSE_DN	-1.6346426	0.1418428
ACEVEDO_LIVER_CANCER_DN	-1.6344997	0.14112523
CONCANNON_APOPTOSIS_BY_EPOXOMICIN_UP	-1.6343921	0.14040932
KIM_HYPOXIA	-1.6339701	0.14010331
DAZARD_UV_RESPONSE_CLUSTER_G4	-1.6330912	0.14055015
PID_IL6_7_PATHWAY	-1.6322366	0.14096427
LEIN_PONS_MARKERS	-1.6321876	0.14010583
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_UP	-1.6320487	0.1394315
KEGG_GLYCEROLIPID_METABOLISM	-1.6299546	0.14164512
ROME_INSULIN_TARGETS_IN_MUSCLE_UP	-1.6298825	0.14094035

ELVIDGE_HYPOXIA_BY_DMOG_UP	-1.629581	0.140597
REACTOME_LIPOPROTEIN_METABOLISM	-1.6294917	0.1398153
NAGASHIMA_EGF_SIGNALING_UP	-1.629454	0.139011
LINDGREN_BLADDER_CANCER_HIGH_RECURRENCE	-1.6283514	0.13977273
KIM_GERMINAL_CENTER_T_HELPER_DN	-1.6283087	0.13896634
KAAB_HEART_ATRIUM_VS_VENTRICLE_UP	-1.6273807	0.13979062
LI_CISPLATIN_RESISTANCE_DN	-1.6271983	0.13917314
GRADE_COLON_VS_RECTAL_CANCER_UP	-1.6271667	0.13838488
BIOCARTA_NGF_PATHWAY	-1.6270982	0.13761507
PID_ER_NONGENOMIC_PATHWAY	-1.6269178	0.13705887
PID_ARF6_PATHWAY	-1.6266935	0.13660227
MOOTHA_FFA_OXYDATION	-1.6263806	0.13618828
LEE_LIVER_CANCER_CIPROFIBRATE_UP	-1.6263208	0.13552015
ELVIDGE_HIF1A_AND_HIF2A_TARGETS_DN	-1.6257651	0.13560008
BROWNE_HCMV_INFECTION_30MIN_UP	-1.6255178	0.13516112
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_DN	-1.6246325	0.13560958
FARDIN_HYPOXIA_11	-1.6241081	0.13554502
PID_RXR_VDR_PATHWAY	-1.6236587	0.13547191
KEGG_FOCAL_ADHESION	-1.6230894	0.13554154
WESTON_VEGFA_TARGETS	-1.6230761	0.13479427
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_UP	-1.6225034	0.13491629
REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION	-1.6222895	0.13444327
BURTON_ADIPOGENESIS_PEAK_AT_0HR	-1.6222466	0.13374154
REACTOME_TRIGLYCERIDE_BIOSYNTHESIS	-1.6219878	0.13334823
KEGG_PHENYLALANINE_METABOLISM	-1.6219265	0.1327202
BIOCARTA_CARDIACEGF_PATHWAY	-1.6216944	0.1322937
REACTOME_BIOLOGICAL_OXIDATIONS	-1.6216598	0.13160634
REACTOME_AMINE_LIGAND_BINDING_RECEPTORS	-1.6211325	0.1317096
BIOCARTA_P53HYPOXIA_PATHWAY	-1.6210742	0.13109528
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_DN	-1.6196795	0.13220294
MARCHINI_TRABECTEDIN_RESISTANCE_UP	-1.6194019	0.1318747
FRIDMAN_IMMORTALIZATION_DN	-1.6192354	0.13137725
PID_VEGFR1_PATHWAY	-1.6189893	0.13105312
LEE_LIVER_CANCER_ACOX1_DN	-1.6189315	0.13044624
MATZUK_CENTRAL_FOR_FEMALE_FERTILITY	-1.6187798	0.12998553
BERTUCCI_MEDULLARY_VS_DUCTAL_BREAST_CANCER_DN	-1.6183858	0.12982988
MOOTHA_GLYCOGEN_METABOLISM	-1.6170697	0.13092999
REACTOME_HDL_MEDIATED_LIPID_TRANSPORT	-1.616586	0.13098854
RAMASWAMY_METASTASIS_DN	-1.616	0.13116588
WANG_MLL_TARGETS	-1.6159687	0.13051887
REACTOME_DEVELOPMENTAL_BIOLOGY	-1.6134101	0.13342907
ZHU_CMV_24_HR_DN	-1.6133771	0.13278754
CORRE_MULTIPLE_MYELOMA_UP	-1.6132168	0.13236359
SEKI_INFLAMMATORY_RESPONSE_LPS_DN	-1.6127813	0.13217682
LEE_LIVER_CANCER_MYC_DN	-1.612451	0.1319975
REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS	-1.6105727	0.13398421
BROWNE_HCMV_INFECTION_48HR_DN	-1.6103003	0.13382266
KEGG_PRION_DISEASES	-1.6095951	0.13422598
WINTER_HYPOXIA_METAGENE	-1.6095706	0.13361926
HOSHIDA_LIVER_CANCER_SURVIVAL_DN	-1.6092379	0.13341667
REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIPTION_FACTOR_ACTIVATION	-1.60912	0.13295937
BURTON_ADIPOGENESIS_7	-1.6090901	0.13236561
REN_ALVEOLAR_RHABDOMYOSARCOMA_DN	-1.6089213	0.13200435
BIOCARTA_AMI_PATHWAY	-1.608809	0.13159141
ELVIDGE_HIF1A_TARGETS_DN	-1.608773	0.13103865
BURTON_ADIPOGENESIS_1	-1.6078436	0.13176012
PID_TCR_CALCIUM_PATHWAY	-1.6076267	0.13142076
MIKKELSEN_ES_HCP_WITH_H3K27ME3	-1.607153	0.1314549
HOEGERKORP_CD44_TARGETS_DIRECT_UP	-1.6067181	0.13141985
BIOCARTA_NFAT_PATHWAY	-1.606462	0.13118128
LIU_LIVER_CANCER	-1.6060839	0.13108462
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_1	-1.6044279	0.13271075
BAELDE_DIABETIC_NEPHROPATHY_UP	-1.6037526	0.13313103
BIOCARTA_SPRY_PATHWAY	-1.6026592	0.13413735
VALK_AML_CLUSTER_12	-1.6023442	0.13395955
RUIZ_TNC_TARGETS_UP	-1.6022915	0.13349195
GYORFFY_DOXORUBICIN_RESISTANCE	-1.6018674	0.1334764
REACTOME_GLUCOSE_METABOLISM	-1.6004782	0.13483818
BURTON_ADIPOGENESIS_4	-1.600286	0.1346326
REACTOME_SMOOTH_MUSCLE_CONTRACTION	-1.6002812	0.13404211
NABA_ECM_GLYCOPROTEINS	-1.6001047	0.13369842
KAAB_HEART_ATRIUM_VS_VENTRICLE_DN	-1.5981022	0.13593139
TOMLINS_PROSTATE_CANCER_DN	-1.5976022	0.13600221
IGLESIAS_E2F_TARGETS_UP	-1.5969251	0.136398
RODRIGUES_NTN1_AND_DCC_TARGETS	-1.5969167	0.13581613
DELACROIX_RARG_BOUND_MEF	-1.5966308	0.13567342
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_UP	-1.5963725	0.13540226

MCDOWELL_ACUTE_LUNG_INJURY_UP	-1.5961334	0.13509181
NIELSEN_MALIGNAT_FIBROUS_HISTIOCYTOMA_UP	-1.5957248	0.13500133
DORSAM_HOXA9_TARGETS_DN	-1.5952985	0.13504837
REACTOME_RIP_MEDIATED_NFKB_ACTIVATION_VIA_DAI	-1.5952498	0.13459247
BOGNI_TREATMENT_RELATED_MYELOID_LEUKEMIA_UP	-1.5952176	0.13406354
KANG_IMMORTALIZED_BY_TERT_DN	-1.5950872	0.13366112
GRADE_COLON_CANCER_DN	-1.5941255	0.13448095
LEIN_MIDBRAIN_MARKERS	-1.5940363	0.13404845
KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450	-1.5937943	0.13384257
REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS	-1.5937114	0.13337755
KEGG_ARACHIDONIC_ACID_METABOLISM	-1.5924696	0.13455744
GUENTHER_GROWTH_SPHERICAL_VS_ADHERENT_DN	-1.5923439	0.13415466
KEGG_GLYCEROPHOSPHOLIPID_METABOLISM	-1.5922172	0.13379848
HAN_JNK_SINGALING_DN	-1.5917736	0.1338426
CAIRO_LIVER_DEVELOPMENT_DN	-1.5916898	0.13340989
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_RED_DN	-1.5907828	0.13399282
ZHANG_TLX_TARGETS_60HR_UP	-1.5907154	0.13355799
MIKKELSEN_NPC_LCP_WITH_H3K4ME3	-1.5905654	0.13317092
REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INACTIVATION	-1.5902851	0.13297321
WAMUNYOKOLI_OVARIAN_CANCER_GRADES_1_2_DN	-1.5902456	0.13251221
KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION	-1.5893582	0.13329549
CAIRO_HEPATOBLASTOMA_CLASSES_DN	-1.5885566	0.13385524
KEGG_GLYCOLYSIS_GLUCONEOGENESIS	-1.5881442	0.13389117
REACTOME_MUSCLE_CONTRACTION	-1.5872471	0.13470516
MIKKELSEN_IPS_WITH_HCP_H3K27ME3	-1.5866657	0.13489069
PLASARI_TGFB1_TARGETS_1HR_UP	-1.5848737	0.13672997
REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS	-1.584761	0.13633867
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_UP	-1.5842723	0.13645351
ZHU_SKIL_TARGETS_UP	-1.584118	0.13619973
VART_KSHV_INFECTION_ANGIOGENIC_MARKERS_UP	-1.5838943	0.13598792
LANDIS_ERBB2_BREAST_TUMORS_65_DN	-1.5838739	0.1354999
MIYAGAWA_TARGETS_OF_EWSR1_ETS_FUSIONS_DN	-1.583825	0.13507453
MCGOWAN_RSP6_TARGETS_UP	-1.5827004	0.1360738
LANDIS_BREAST_CANCER_PROGRESSION_DN	-1.5811641	0.1378581
MOREAUX_MULTIPLE_MYELOMA_BY_TACI_UP	-1.5804185	0.13847442
SANA_TNF_SIGNALING_DN	-1.5803602	0.13802567
BURTON_ADIPOGENESIS_5	-1.5793453	0.13907534
ST_WNT_BETA_CATENIN_PATHWAY	-1.5785574	0.13967031
DELYS_THYROID_CANCER_DN	-1.5783647	0.13944258
HUNSBERGER_EXERCISE_REGULATED_GENES	-1.5782006	0.13917765
REACTOME_ACTIVATED_TLR4_SIGNALLING	-1.5781562	0.13872539
KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS	-1.578036	0.13841082
LEE_LIVER_CANCER_MYC_TGFA_DN	-1.5776654	0.13846579
URS_ADIPOCYTE_DIFFERENTIATION_DN	-1.5764875	0.139624
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_KRAS_CDC25_DN	-1.5760328	0.13976008
GUILLAUMOND_KLF10_TARGETS_DN	-1.5758514	0.13951106
REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE	-1.575508	0.13946828
PID_INTEGRIN_A9B1_PATHWAY	-1.5753376	0.1391711
ODONNELL_METASTASIS_UP	-1.5751237	0.13893051
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_BLUE_DN	-1.5748165	0.13894972
KEGG_DRUG_METABOLISM_CYTOCHROME_P450	-1.5746228	0.13874851
BIDUS_METASTASIS_DN	-1.5745444	0.13843349
BROWNE_HCMV_INFECTION_24HR_DN	-1.574398	0.13813035
LE_EGR2_TARGETS_DN	-1.5739294	0.13828173
REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSPORT	-1.5734714	0.13838165
BIOCARTA_MET_PATHWAY	-1.5728328	0.13881224
RAY_TUMORIGENESIS_BY_ERBB2_CDC25A_DN	-1.5725735	0.13871355
BOQUEST_STEM_CELL_DN	-1.5720127	0.13898133
WESTON_VEGFA_TARGETS_12HR	-1.5719184	0.13864508
ROZANOV_MMP14_TARGETS_SUBSET	-1.5711981	0.13921806
WANG_NEOPLASTIC_TRANSFORMATION_BY_CCND1_MYC	-1.5710232	0.13903637
LEE_LIVER_CANCER_E2F1_DN	-1.5707972	0.13885133
INGRAM_SHH_TARGETS_UP	-1.5703725	0.13896869
REACTOME_SYNTHESIS_OF_PA	-1.570212	0.13868453
KERLEY_RESPONSE_TO_CISPLATIN_UP	-1.5700097	0.13851473
LIN_TUMOR_ESCAPE_FROM_IMMUNE_ATTACK	-1.5699791	0.13810095
BIOCARTA_ECM_PATHWAY	-1.5697423	0.13793384
VERRECCHIA_EARLY_RESPONSE_TO_TGFB1	-1.5697407	0.1374786
PID_AR_NONGENOMIC_PATHWAY	-1.5692298	0.13766256
REACTOME_TRIF_MEDIATED_TLR3_SIGNALING	-1.5682485	0.13834238
VERNOCHET_ADIPOGENESIS	-1.5676008	0.13872747
XU_GH1_EXOGENOUS_TARGETS_UP	-1.5675374	0.13836223
WEST_ADRENOCORTICAL_TUMOR_MARKERS_DN	-1.5665388	0.1393949
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_UP	-1.5664389	0.1390739
KATSANOU_ELAVL1_TARGETS_UP	-1.5647728	0.14081602
ONDER_CDH1_TARGETS_2_UP	-1.564679	0.14049749
SCHLESINGER_H3K27ME3_IN_NORMAL_AND_METHYLATED_IN_CANCER	-1.5637643	0.14129312

LIU_SMARCA4_TARGETS	-1.5632027	0.14163527
KYNG_RESPONSE_TO_H2O2	-1.5630581	0.14133283
REACTOME_THROMBIN_SIGNALLING_THROUGH_PROTEINASE_ACTIVATED_RECEPTORS_PARS	-1.5627922	0.141224
LANDIS_ERBB2_BREAST_PRENEOPLASTIC_DN	-1.5615206	0.14264202
SWEET_KRAS_TARGETS_UP	-1.5615095	0.14220864
MCBRYAN_PUBERTAL_BREAST_6_7WK_UP	-1.5606099	0.143001
BRACHAT_RESPONSE_TO_CISPLATIN	-1.5605367	0.1426432
ALONSO_METASTASIS_DN	-1.5601096	0.14277747
ACEVEDO_FGFR1_TARGETS_IN_PROSTATE_CANCER_MODEL_DN	-1.5585372	0.14433642
BIOCARTA_IL6_PATHWAY	-1.5583447	0.14417487
MIKKELSEN_MEF_LCP_WITH_H3K4ME3	-1.558153	0.14395972
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_SCP2_QTL_TRANS	-1.5577526	0.14401534
KONDO_EZH2_TARGETS	-1.557216	0.14422756
BOQUEST_STEM_CELL_UP	-1.5568504	0.1443018
REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTERGRINS_	-1.5566782	0.14403519
KAYO_CALORIE_RESTRICTION_MUSCLE_UP	-1.5564446	0.14395852
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_DN	-1.5561872	0.14389995
CEBALLOS_TARGETS_OF_TP53_AND_MYC_UP	-1.5552213	0.14477262
BASSO_HAIRY_CELL_LEUKEMIA_UP	-1.5552188	0.14433524
MAHAJAN_RESPONSE_TO_IL1A_DN	-1.5533799	0.14639936
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_UP	-1.5532107	0.146197
WANG_LSD1_TARGETS_DN	-1.5531672	0.1458042
KEGG_PYRUVATE_METABOLISM	-1.5528139	0.1458293
RICKMAN_HEAD_AND_NECK_CANCER_F	-1.5527221	0.14552464
IZADPANAH_STEM_CELL_ADIPOSE_VS_BONE_DN	-1.5520476	0.1459883
WAMUNYOKOLI_OVARIAN_CANCER_LMP_DN	-1.5515813	0.14615951
LINDVALL_IMMORTALIZED_BY_TERT_DN	-1.5512973	0.14616938
REACTOME_NETRIN1_SIGNALING	-1.55116	0.14590639
NAKAJIMA_MAST_CELL	-1.5505525	0.14635319
MIKKELSEN_ES_LCP_WITH_H3K4ME3	-1.5484159	0.14887954
TSENG_ADIPOGENIC_POTENTIAL_DN	-1.5474167	0.14968204
KEGG_ALPHA_LINOLENIC_ACID_METABOLISM	-1.5473927	0.1492902
WONG_ENDMETRIUM_CANCER_DN	-1.5467988	0.14967972
PID_INTEGRIN2_PATHWAY	-1.5465823	0.14953011
KEGG_RETINOL_METABOLISM	-1.5461878	0.14962287
WEINMANN_ADAPTATION_TO_HYPOXIA_UP	-1.5459125	0.14958048
BERENJENO_TRANSFORMED_BY_RHOA_FOREVER_UP	-1.5458833	0.14919029
RUAN_RESPONSE_TO_TNF_TROGLITAZONE_UP	-1.5455608	0.14918812
CHEN_LVAD_SUPPORT_OF_FAILING_HEART_DN	-1.5455474	0.1487904
HU_ANGIOGENESIS_UP	-1.544874	0.1493297
KEEN_RESPONSE_TO_ROSIGLITAZONE_DN	-1.5447769	0.149031
MCBRYAN_PUBERTAL_BREAST_3_4WK_DN	-1.5446045	0.14883257
REACTOME_COMPLEMENT_CASCADE	-1.5444819	0.14860359
REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING	-1.5444645	0.14820163
KANG_GLIS3_TARGETS	-1.5443436	0.14793979
MCBRYAN_PUBERTAL_BREAST_5_6WK_DN	-1.5438105	0.14834668
REACTOME_OPIOID_SIGNALLING	-1.5436695	0.14812559
BROWNE_HCMV_INFECTION_2HR_UP	-1.5434234	0.14806801
DUNNE_TARGETS_OF_AML1_MTG8_FUSION_DN	-1.5432388	0.14795883
REACTOME_SIGNAL_AMPLIFICATION	-1.5425242	0.14849526
REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS	-1.5423622	0.1483198
VERRECCHIA_RESPONSE_TO_TGFB1_C1	-1.5423076	0.14799514
RASHI_RESPONSE_TO_IONIZING_RADIATION_1	-1.5422555	0.14765641
GROSS_ELK3_TARGETS_DN	-1.5419627	0.147708
NABA_CORE_MATRISOME	-1.5419347	0.14735016
GOLUB_ALL_VS_AML_DN	-1.5412475	0.1479846
MCBRYAN_PUBERTAL_TGFB1_TARGETS_UP	-1.5390368	0.15075263
LINDGREN_BLADDER_CANCER_CLUSTER_2B	-1.5388962	0.15057957
BIOCARTA_RHO_PATHWAY	-1.538772	0.15034418
TERAMOTO_OPN_TARGETS_CLUSTER_6	-1.5385537	0.15026678
BROWNE_HCMV_INFECTION_16HR_DN	-1.5381105	0.1504018
STEGER_ADIPOGENESIS_DN	-1.5380135	0.15012537
KHETCHOUMIAN_TRIM24_TARGETS_UP	-1.5374302	0.15046915
MATZUK_SPERMATOGONIA	-1.5370431	0.15055113
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	-1.5370406	0.15015417
BURTON_ADIPOGENESIS_10	-1.5367703	0.15011555
REACTOME_TOLL_RECEPTOR_CASCADES	-1.536285	0.1504036
MARCHINI_TRABECTEDIN_RESISTANCE_DN	-1.5354394	0.15117478
PILON_KLF1_TARGETS_UP	-1.5353363	0.15088089
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_DN	-1.5350591	0.15091027
SCHLESINGER_METHYLATED_DE_NOVO_IN_CANCER	-1.5342964	0.15144579
CHENG_RESPONSE_TO_NICKEL_ACETATE	-1.5342377	0.15116057
PID_PTP1B_PATHWAY	-1.5336947	0.15144482
SCHAEFFER_PROSTATE_DEVELOPMENT_6HR_UP	-1.5334879	0.15131398
SHIPP_DLBCL_CURED_VS_FATAL_UP	-1.5325474	0.15219374
CHARAFE_BREAST_CANCER_BASAL_VS_MESENCHYMAL_DN	-1.5321258	0.15242578
WATANABE_ULCERATIVE_COLITIS_WITH_CANCER_UP	-1.5318248	0.15245238

KUNINGER_IGF1_VS_PDGFB_TARGETS_DN	-1.5317309	0.15215935
ZHANG_TARGETS_OF_EWSR1_FLI1_FUSION	-1.5304023	0.15372775
PID_SYNDECAN_4_PATHWAY	-1.5300125	0.15383518
PETRETTO_CARDIAC_HYPERTROPHY	-1.5298415	0.1537098
AMIT_EGF_RESPONSE_40_HELA	-1.5292132	0.15419398
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_DN	-1.5291519	0.15387355
HATADA_METHYLATED_IN_LUNG_CANCER_UP	-1.528255	0.15476054
ABRAHAM_ALPC_VS_MULTIPLE_MYELOMA_UP	-1.5278554	0.15498604
REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_IGF_ACTIVITY_BY_INSULIN_LIKE_GROWTH_FACTOR_BINDING_PROTEINS_IGFBPS	-1.5274984	0.15514088
AMIT_SERUM_RESPONSE_40_MCF10A	-1.526809	0.1557526
REACTOME_ACYL_CHAIN_REMODELLING_OF_PC	-1.5256443	0.15696019
SASSON_RESPONSE_TO_FORSKOLIN_UP	-1.5254489	0.15685771
ONDER_CDH1_SIGNALING_VIA_CTNNB1	-1.5247412	0.15746634
SERVITJA_ISLET_HNF1A_TARGETS_UP	-1.5246806	0.15715905
WESTON_VEGFA_TARGETS_3HR	-1.5245123	0.15698834
VANDESLUIS_NORMAL_EMBRYOS_DN	-1.5244424	0.15669027
ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS	-1.5242459	0.1565731
CHIBA_RESPONSE_TO_TSA_UP	-1.5237724	0.15686305
PICCALUGA_ANGIOIMMUNOBLASTIC_LYMPHOMA_UP	-1.5232515	0.1571909
KOKKINAKIS_METHIONINE_DEPRIVATION_96HR_UP	-1.5231986	0.1568523
BERENJENO_TRANSFORMED_BY_RHOA_REVERSIBLY_DN	-1.5231019	0.15658896
LEE_METASTASIS_AND_ALTERNATIVE_SPLICING_UP	-1.5225958	0.15694818
DAVICIONI_TARGETS_OF_PAX_FOXO1_FUSIONS_UP	-1.5224668	0.15674289
SCHURINGA_STAT5A_TARGETS_UP	-1.5216086	0.15756378
BERENJENO_TRANSFORMED_BY_RHOA_DN	-1.5208905	0.1581103
SASAI_RESISTANCE_TO_NEOPLASTIC_TRANSFROMATION	-1.5208418	0.15780134
KARLSSON_TGFB1_TARGETS_DN	-1.5206484	0.15769526
PID_HIF2PATHWAY	-1.5196334	0.15861708
MAHADEVAN_RESPONSE_TO_MP470_DN	-1.5195425	0.15839723
HOSHIDA_LIVER_CANCER_LATE_RECURRENCE_DN	-1.5187643	0.15910594
WARTERS_IR_RESPONSE_5GY	-1.518587	0.15899254
BIOCARTA_IGF1MTOR_PATHWAY	-1.5185297	0.15868773
JEPSEN_SMRT_TARGETS	-1.5179387	0.15910295
WANG_IMMORTALIZED_BY_HOXA9_AND_MEIS1_DN	-1.5178539	0.15885252
HILLION_HMGA1B_TARGETS	-1.5174487	0.15905622
CHARAFE_BREAST_CANCER_LUMINAL_VS_MESENCHYMAL_DN	-1.5174017	0.15878305
REACTOME_ENDOGENOUS_STEROLS	-1.5173644	0.15848736
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_0	-1.5164993	0.1593061
VANHARANTA_UTERINE_FIBROID_WITH_7Q_DELETION_DN	-1.5161694	0.15935452
KOHOUTEK_CCNT2_TARGETS	-1.516047	0.1591442
LIEN_BREAST_CARCINOMA_METAPLASTIC	-1.5156584	0.1592772
GROSS_HYPOXIA_VIA_ELK3_AND_HIF1A_UP	-1.5153879	0.15929201
DARWICHE_PAPILLOMA_RISK_HIGH_DN	-1.515312	0.15901342
RAO_BOUND_BY_SALL4_ISOFORM_A	-1.5151751	0.15881653
ST_GRANULE_CELL_SURVIVAL_PATHWAY	-1.5150617	0.15857588
ACOSTA_PROLIFERATION_INDEPENDENT_MYC_TARGETS_DN	-1.514808	0.15857665
LEIN_CHOROID_PLEXUS_MARKERS	-1.5137918	0.1596375
MARKEY_RB1_CHRONIC_LOF_DN	-1.5137526	0.15932193
BOYAULT_LIVER_CANCER_SUBCLASS_G123_DN	-1.5136112	0.15911083
MATTHEWS_AP1_TARGETS	-1.5132239	0.15932484
GERY_CEBP_TARGETS	-1.5130686	0.15917903
LIU_PROSTATE_CANCER_DN	-1.5126212	0.15945378
BURTON_ADIPOGENESIS_2	-1.5124491	0.15932673
MIKKELSEN_MCV6_HCP_WITH_H3K27ME3	-1.5119076	0.15974581
REACTOME_ADP_SIGNALLING_THROUGH_P2RY12	-1.5115622	0.15987714
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_REJECTED_VS_OK_DN	-1.5114777	0.15967052
HAHTOLA_MYCOSIS_FUNGOIDES_CD4_UP	-1.5114771	0.15931252
SUH_COEXPRESSED_WITH_ID1_AND_ID2_UP	-1.5112964	0.15922736
SCHURINGA_STAT5A_TARGETS_DN	-1.5108078	0.15951738
LU_AGING_BRAIN_UP	-1.5105631	0.15945439
GENTILE_UV_RESPONSE_CLUSTER_D6	-1.5104545	0.15921885
BERTUCCI_INVASIVE_CARCINOMA_DUCTAL_VS_LOBULAR_DN	-1.5102012	0.1592513
EHLERS_ANEUPLOIDY_UP	-1.5095217	0.15987536
ABBUD_LIF_SIGNALING_1_UP	-1.5094453	0.15965652
LIU_BREAST_CANCER	-1.5093019	0.15949973
REACTOME_PLATELET_SENSITIZATION_BY_LDL	-1.5087316	0.1599801
ZHOU_TNF_SIGNALING_30MIN	-1.5086995	0.15966791
PID_GLYPICAN_1PATHWAY	-1.5084796	0.15962058
WOTTON_RUNX_TARGETS_UP	-1.508433	0.15933901
GROSS_HYPOXIA_VIA_ELK3_ONLY_UP	-1.5080868	0.15945065
RUAN_RESPONSE_TO_TROGLITAZONE_UP	-1.5076791	0.15970983
REACTOME_NEGATIVE_REGULATION_OF_FGFR_SIGNALING	-1.506922	0.16034645
LIM_MAMMARY_LUMINAL_MATURE_DN	-1.5065182	0.16063188
PID_LYSOPHOSPHOLIPID_PATHWAY	-1.5060083	0.16102539
DORSEY_GAB2_TARGETS	-1.5059296	0.16075785
NAKAMURA_ADIPOGENESIS_EARLY_DN	-1.5057869	0.16064101
REACTOME_G_PROTEIN_ACTIVATION	-1.5050644	0.16126238

VECCHI_GASTRIC_CANCER_EARLY_DN	-1.5042851	0.1620051
DAVICIONI_MOLECULAR_ARMS_VS_ERMS_DN	-1.5038972	0.16217753
MOROSETTI_FACIOSCAPULOHUMERAL_MUSCULAR_DISTROPHY_UP	-1.5020267	0.16443568
LIU_VAV3_PROSTATE_CARCINOGENESIS_UP	-1.50164	0.16465111
REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS	-1.5013618	0.16469736
BIOCARTA_IGF1_PATHWAY	-1.4998142	0.16655928
OSWALD_HEMATOPOIETIC_STEM_CELL_IN_COLLAGEN_GEL_UP	-1.4995713	0.16649519
REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS	-1.4995452	0.16617753
REACTOME_HEMOSTASIS	-1.4991678	0.16637023
COATES_MACROPHAGE_M1_VS_M2_DN	-1.4984705	0.16694337
LABBE_TGFB1_TARGETS_UP	-1.4981222	0.16709745
WINNEPENNINCKX_MELANOMA_METASTASIS_DN	-1.4980752	0.16680099
PEDRIOLI_MIR31_TARGETS_DN	-1.4979409	0.16663232
PID_AP1_PATHWAY	-1.4977416	0.16657263
LEIN_LOCALIZED_TO_PROXIMAL_DENDRITES	-1.4974496	0.16668259
LEE_NEURAL_CREST_STEM_CELL_UP	-1.4973013	0.16656259
ZHANG_ANTIVIRAL_RESPONSE_TO_RIBAVIRIN_DN	-1.4968745	0.16691093
BIOCARTA_TPO_PATHWAY	-1.4968271	0.16662145
DANG_REGULATED_BY_MYC_DN	-1.4965509	0.16662121
MCGARVEY_SILENCED_BY_METHYLATION_IN_COLON_CANCER	-1.4962537	0.16664055
WOOD_EBV_EBNA1_TARGETS_DN	-1.49613	0.16644835
REACTOME_PI_3K_CASCADE	-1.4956654	0.16679163
LEIN_MEDULLA_MARKERS	-1.4956117	0.16650835
MULLIGHAN_MLL_SIGNATURE_1_DN	-1.4953362	0.16656025
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1B	-1.4950273	0.16666226
SHEPARD_CRUSH_AND_BURN_MUTANT_UP	-1.494802	0.16663626
NAKAMURA_ADIPOGENESIS_LATE_DN	-1.4943517	0.1669479
REACTOME_PLATELET_AGGREGATION_PLUG_FORMATION	-1.4940503	0.16708691
GUO_HEX_TARGETS_UP	-1.4938079	0.16707292
REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON_LIKE_PEPTIDE1	-1.4935818	0.16708039
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_ERYTHROCYTE_UP	-1.4935526	0.16678913
MENSE_HYPOXIA_UP	-1.493323	0.16677924
SABATES_COLORECTAL_ADENOMA_DN	-1.4929856	0.1668987
REACTOME_ACTIVATED_POINT_MUTANTS_OF_FGFR2	-1.4921104	0.16773304
JIANG_HYPOXIA_NORMAL	-1.4920653	0.16744861
FERRANDO_LYL1_NEIGHBORS	-1.4920461	0.16713135
KASLER_HDAC7_TARGETS_1_DN	-1.4913753	0.1676558
BIOCARTA_CCR5_PATHWAY	-1.4912069	0.16753693
KEGG_HISTIDINE_METABOLISM	-1.4911919	0.16722342
BONOME_OVARIAN_CANCER_POOR_SURVIVAL_UP	-1.4906105	0.16774844
NABA_BASEMENT_MEMBRANES	-1.4905102	0.16755414
HUANG_DASATINIB_RESISTANCE_UP	-1.4903963	0.16739719
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_5	-1.4902729	0.16719179
SCHAEFFER_PROSTATE_DEVELOPMENT_48HR_DN	-1.4893761	0.16808626
KEGG_ABC_TRANSPORTERS	-1.4893055	0.16783898
VALK_AML_CLUSTER_10	-1.4892309	0.16761807
KEGG_MTOR_SIGNALING_PATHWAY	-1.4891069	0.16745445
REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATHWAY	-1.4889338	0.16735944
REACTOME_DIABETES_PATHWAYS	-1.4886601	0.16738534
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_DN	-1.4881625	0.16788255
BUCKANOVICH_T_LYMPHOCYTE_HOMING_ON_TUMOR_DN	-1.4877201	0.16821465
REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_ADRENALINE_NORADRENALINE	-1.48651	0.1694795
PID_UPA_UPAR_PATHWAY	-1.4855082	0.1705304
BIOCARTA_COMP_PATHWAY	-1.4842293	0.17194894
JI_CARCINOGENESIS_BY_KRAS_AND_STK11_DN	-1.4841739	0.17172007
NAKAYAMA_FGF2_TARGETS	-1.4837276	0.1720512
SCHUETZ_BREAST_CANCER_DUCTAL_INVASIVE_UP	-1.4827515	0.17301506
UZONYI_RESPONSE_TO_LEUKOTRIENE_AND_THROMBIN	-1.4826471	0.1727934
WU_SILENCED_BY_METHYLATION_IN_BLADDER_CANCER	-1.4823973	0.17284031
BIOCARTA_MYOSIN_PATHWAY	-1.4817071	0.17346194
AFFAR_YY1_TARGETS_UP	-1.4816759	0.1731894
KEGG_ARGININE_AND_PROLINE_METABOLISM	-1.479737	0.1757802
REACTOME_OLFACTORY_SIGNALING_PATHWAY	-1.4790385	0.17645274
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_2NM_UP	-1.4782988	0.17722464
LABBE_TARGETS_OF_TGFB1_AND_WNT3A_UP	-1.4779372	0.17739527
WU_ALZHEIMER_DISEASE_DN	-1.4777204	0.17736034
ONGUSAHA_TP53_TARGETS	-1.476855	0.17820583
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_UP	-1.4763404	0.1787283
HOFMANN_MYELODYSPLASTIC_SYNDROM_LOW_RISK_UP	-1.4759581	0.17901164
WANG_SMARCE1_TARGETS_UP	-1.4758271	0.17894424
COWLING_MYCN_TARGETS	-1.475197	0.17956255
CHANG_CORE_SERUM_RESPONSE_DN	-1.4750751	0.17943506
KEGG_TGF_BETA_SIGNALING_PATHWAY	-1.4750453	0.17914905
THUM_MIR21_TARGETS_HEART_DISEASE_UP	-1.4746376	0.17939462
WANG_CLASSIC_ADIPOGENIC_TARGETS_OF_PPARG	-1.4742765	0.17963399
LINDVALL_IMMORTALIZED_BY_TERT_UP	-1.4733381	0.18065177
REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA_PKC_AND_MAPK	-1.4732687	0.18041216

CHO_NR4A1_TARGETS	-1.4731236	0.18030262
REACTOME_GPCR_LIGAND_BINDING	-1.4722823	0.1810424
KANG_AR_TARGETS_DN	-1.4721868	0.1808399
EBAUER_MYOGENIC_TARGETS_OF_PAX3_FOXO1_FUSION	-1.4720685	0.18065938
REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS	-1.471972	0.18046133
COULOUARN_TEMPORAL_TGFB1_SIGNATURE_DN	-1.4715925	0.18071203
NABA_SECRETED_FACTORS	-1.4714047	0.18062504
NIKOLSKY_BREAST_CANCER_11Q12_Q14_AMPLICON	-1.4704419	0.18173909
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_DN	-1.4703492	0.1815718
PLASARI_NFIC_TARGETS_BASAL_DN	-1.4699014	0.18193014
BIOCARTA_LAIR_PATHWAY	-1.4696497	0.18200581
PID_ENDOTHELIN_PATHWAY	-1.4694722	0.18190923
BONOME_OVARIAN_CANCER_SURVIVAL_OPTIMAL_DEBULKING	-1.4694005	0.18170226
BIOCARTA_GSK3_PATHWAY	-1.4690522	0.18185028
VECCHI_GASTRIC_CANCER_ADVANCED_VS_EARLY_UP	-1.4689924	0.18160643
GROSS_HYPOXIA_VIA_HIF1A_DN	-1.4687873	0.18159673
LENAOUR_DENDRITIC_CELL_MATURATION_UP	-1.4686137	0.1815102
TAKAO_RESPONSE_TO_UVB_RADIATION_DN	-1.4682856	0.18174326
AMIT_EGF_RESPONSE_60_MCF10A	-1.46824	0.18147336
HILLION_HMGA1_TARGETS	-1.4680673	0.18141012
TSAI_RESPONSE_TO_RADIATION_THERAPY	-1.4675533	0.18185073
SHEDDEN_LUNG_CANCER_GOOD_SURVIVAL_A4	-1.4674242	0.18171561
IWANAGA_CARCINOGENESIS_BY_KRAS_DN	-1.4672256	0.18170317
VANHARANTA_UTERINE_FIBROID_DN	-1.4670628	0.18156467
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_DN	-1.4666862	0.18176046
CLASPER_LYMPHATIC_VESSELS_DURING_METASTASIS_DN	-1.4664646	0.18175381
JAZAERI_BREAST_CANCER_BRCA1_VS_BRCA2_DN	-1.4663318	0.18166281
PID_HDAC_CLASSIII_PATHWAY	-1.4658905	0.18200712
PEPPER_CHRONIC_LYMPHOCYTIC_LEUKEMIA_UP	-1.4658653	0.18172027
GAUSSMANN_MLL_AF4_FUSION_TARGETS_F_UP	-1.4652818	0.18219493
KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATION	-1.4651812	0.18200976
REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM	-1.4651446	0.18173955
ZHOU_INFLAMMATORY_RESPONSE_FIMA_UP	-1.4649801	0.18166047
CHIBA_RESPONSE_TO_TSA	-1.4647642	0.1816353
THUM_SYSTOLIC_HEART_FAILURE_UP	-1.464485	0.18175955
DEMAGALHAES_AGING_UP	-1.463801	0.1824699
RUAN_RESPONSE_TO_TROGLITAZONE_DN	-1.4636666	0.18236427
PARENT_MTOR_SIGNALING_UP	-1.4635808	0.18215755
BEGUM_TARGETS_OF_PAX3_FOXO1_FUSION_UP	-1.463494	0.18194743
BIOCARTA_NOS1_PATHWAY	-1.4629128	0.1824575
KEGG_CARDIAC_MUSCLE_CONTRACTION	-1.4623442	0.1829893
PID_LYMPH_ANGIOGENESIS_PATHWAY	-1.4620036	0.1831212
KONDO_PROSTATE_CANCER_WITH_H3K27ME3	-1.4614294	0.18359095
WANG_PROSTATE_CANCER_ANDROGEN_INDEPENDENT	-1.4614211	0.18328981
QI_HYPOXIA	-1.4612684	0.18321177
TERAO_AOX4_TARGETS_HG_UP	-1.4603301	0.18413508
PID_TOLL_ENDOGENOUS_PATHWAY	-1.4600395	0.18419692
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINDED_IN_ERYTHROCYTE_UP	-1.45935	0.18484227
JIANG_AGING_HYPOTHALAMUS_DN	-1.4584585	0.18581298
GROSS_ELK3_TARGETS_UP	-1.4583074	0.18569659
ZIRN_TRETINOIN_RESPONSE_UP	-1.4578174	0.18617015
PID_ARF6_TRAFFICKING_PATHWAY	-1.4573916	0.18647541
REACTOME_ACTIVATED_AMPK_STIMULATES_FATTY_ACID_OXIDATION_IN_MUSCLE	-1.4573753	0.18618488
VALK_AML_WITH_EVI1	-1.4570777	0.18625107
CHIARADONNA_NEOPLASTIC_TRANSFORMATION_CDC25_UP	-1.4569801	0.18607935
HUMMERICH_MALIGNANT_SKIN_TUMOR_DN	-1.4569337	0.18582521
KEGG_ECM_RECEPTOR_INTERACTION	-1.4563253	0.18634161
AMIT_EGF_RESPONSE_40_MCF10A	-1.4558122	0.18667369
REACTOME_SIGNALING_BY_PDGF	-1.4549185	0.18768422
COLIN_PILOCYTIC_ASTROCYTOMA_VS_GLIOBLASTOMA_UP	-1.454317	0.1882245
BERENJENO_ROCK_SIGNALING_NOT_VIA_RHOA_DN	-1.4539458	0.18849486
KEGG_STEROID_HORMONE_BIOSYNTHESIS	-1.4538527	0.18832639
IIZUKA_LIVER_CANCER_PROGRESSION_L0_L1_DN	-1.4538037	0.18807617
GAUSSMANN_MLL_AF4_FUSION_TARGETS_E_DN	-1.4537699	0.18780951
MILI_PSEUDOPODIA	-1.4534899	0.18790062
SUZUKI_RESPONSE_TO_TSA_AND_DECITABINE_1A	-1.4529196	0.18841521
SCHRAETS_MLL_TARGETS_UP	-1.4527229	0.18840176
TERAO_AOX4_TARGETS_SKIN_DN	-1.4526981	0.18814853
NIELSEN_LEIOMYOSARCOMA_CNN1_UP	-1.4526073	0.18798223
DACOSTA_ERCC3_ALLELE_XPCS_VS_TTD_DN	-1.4522299	0.18826231
CROONQUIST_IL6_DEPRIVATION_UP	-1.450486	0.19042787
CHEN_ETV5_TARGETS_SERTOLI	-1.4504126	0.1902086
CHUANG_OXIDATIVE_STRESS_RESPONSE_UP	-1.4502896	0.19010955
UDAYAKUMAR_MED1_TARGETS_DN	-1.4499114	0.19034871
YANG_MUC2_TARGETS_DUODENUM_6MO_DN	-1.4498632	0.1901
KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION	-1.4496586	0.19010183
KEGG_CALCIUM_SIGNALING_PATHWAY	-1.4492781	0.19031477

BAELDE_DIABETIC_NEPHROPATHY_DN	-1.4490701	0.19033417
SHEN_SMARCA2_TARGETS_DN	-1.4487497	0.19050714
PURBEY_TARGETS_OF_CTBP1_NOT_SATB1_UP	-1.4481177	0.19114506
NIELSEN_GIST_AND_SYNOVIAL_SARCOMA_DN	-1.4480429	0.19094706
CHEBOTAEV_GR_TARGETS_UP	-1.4480329	0.19065237
LEE_CALORIE_RESTRICTION_NEOCORTEX_DN	-1.4475913	0.1910021
BIOCARTA_IL10_PATHWAY	-1.4474539	0.19089133
REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PROSTACYCLIN_RECEPTOR	-1.447433	0.19059789
TANG_SENESCENCE_TP53_TARGETS_UP	-1.4463217	0.19185437
NAKAYAMA_SOFT_TISSUE_TUMORS_PCA2_DN	-1.4459875	0.19203837
CHANDRAN_METASTASIS_DN	-1.4458776	0.19189936
ABE_VEGFA_TARGETS	-1.4456531	0.19190331
SCHWAB_TARGETS_OF_BMYB_POLYMORPHIC_VARIANTS_DN	-1.4450623	0.19247745
SCHRAMM_INHBA_TARGETS_DN	-1.4449036	0.19237712
ROSS_AML_OF_FAB_M7_TYPE	-1.4447751	0.1922359
PETRETTO_HEART_MASS_QTL_CIS_UP	-1.4447626	0.19196537
DELACROIX_RAR_TARGETS_DN	-1.4443446	0.19229639
LINDGREN_BLADDER_CANCER_CLUSTER_2A_DN	-1.4443316	0.19201311
KEGG_ETHER_LIPID_METABOLISM	-1.4438932	0.1923342
SCHOEN_NFKB_SIGNALING	-1.4438889	0.19203618
ROSS_AML_WITH_MLL_FUSIONS	-1.4438174	0.19185738
BOCHKIS_FOXA2_TARGETS	-1.4436356	0.19187933
KANG_GIST_WITH_PDGFRA_UP	-1.4433966	0.19190507
HAMAI_APOPTOSIS_VIA_TRAIL_DN	-1.4431832	0.1919089
LI_WILMS_TUMOR_VS_FETAL_KIDNEY_1_UP	-1.4431697	0.19162199
MISHRA_CARCINOMA_ASSOCIATED_FIBROBLAST_UP	-1.4413211	0.19403006
WATTEL_AUTONOMOUS_THYROID_ADENOMA_DN	-1.4409511	0.19422115
KASLER_HDAC7_TARGETS_2_DN	-1.4403763	0.19477569
LI_WILMS_TUMOR	-1.439776	0.19527625
MEISSNER_NPC_HCP_WITH_H3K4ME2	-1.4397695	0.1949788
IVANOVA_HEMATOPOIESIS_STEM_CELL_LONG_TERM	-1.4396633	0.19481592
KEGG_GLYCOSAMINOGLYCAN_DEGRADATION	-1.4395795	0.1946574
FLOTHO_PEDIATRIC_ALL_THERAPY_RESPONSE_UP	-1.4395465	0.19439496
HUI_MAPK14_TARGETS_UP	-1.4395323	0.19412392
SIMBULAN_UV_RESPONSE_NORMAL_DN	-1.438877	0.19481227
KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM	-1.4388386	0.19456884
KAAB_FAILED_HEART_ATRIUM_DN	-1.4387895	0.19435954
PLASARI_TGFB1_TARGETS_10HR_UP	-1.4378705	0.19544591
WILCOX_RESPONSE_TO_PROGESTERONE_DN	-1.4377643	0.1952805
PID_RET_PATHWAY	-1.4377111	0.19506025
SUNG_METASTASIS_STROMA_UP	-1.4369406	0.19587684
BIOCARTA_EPO_PATHWAY	-1.4361088	0.19679064
PLASARI_TGFB1_SIGNALING_VIA_NFIC_1HR_UP	-1.4354584	0.1974337
VANDESLUIS_COMMD1_TARGETS_GROUP_3_DN	-1.435413	0.19720943
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_UP	-1.4353822	0.19695944
KEGG_LINOLEIC_ACID_METABOLISM	-1.4350624	0.19713604
BORCZUK_MALIGNANT_MESOTHELIOMA_DN	-1.434911	0.19706102
PODAR_RESPONSE_TO_ADAPHOSTIN_UP	-1.4347472	0.19699238
WELCH_GATA1_TARGETS	-1.4346507	0.19680934
SMID_BREAST_CANCER_LUMINAL_A_UP	-1.4344913	0.196713
ROY_WOUND_BLOOD_VESSEL_UP	-1.434485	0.19642517
PID_INTEGRIN3_PATHWAY	-1.434353	0.19630644
LI_ADIPOGENESIS_BY_ACTIVATED_PPARG	-1.4342364	0.19617496
ZIRN_TRETINOIN_RESPONSE_WT1_UP	-1.4337585	0.19659287
CHICAS_RB1_TARGETS_CONFLUENT	-1.4331663	0.19715713
SASSON_RESPONSE_TO_GONADOTROPHINS_UP	-1.4331446	0.19690363
VERHAAK_AML_WITH_NPM1_MUTATED_UP	-1.4330997	0.19666947
GARGALOVIC_RESPONSE_TO_OXIDIZED_PHOSPHOLIPIDS_TURQUOISE_UP	-1.4330946	0.19638716
JOHNSTONE_PARVB_TARGETS_1_DN	-1.4325387	0.19694954
SIMBULAN_PARP1_TARGETS_UP	-1.4323831	0.19686107
REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS	-1.4318652	0.19723104
REACTOME_METABOLISM_OF_VITAMINS_AND_COFACTORS	-1.4318033	0.19702554
VALK_AML_CLUSTER_9	-1.43163	0.19699477
MIDORIKAWA_AMPLIFIED_IN_LIVER_CANCER	-1.4314469	0.19695637
KAN_RESPONSE_TO_ARSENIC_TRIOXIDE	-1.430702	0.1978332
SENESE_HDAC1_AND_HDAC2_TARGETS_DN	-1.4303364	0.19805747
KEGG_PEROXISOME	-1.4300123	0.19823647
EBAUER_TARGETS_OF_PAX3_FOXO1_FUSION_UP	-1.4298548	0.19814937
PID_TCPTP_PATHWAY	-1.42965	0.19815741
REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	-1.4295766	0.19798258
MILI_PSEUDOPODIA_CHEMOTAXIS_UP	-1.4292731	0.19807227
MORI_SMALL_PRE_BII_LYMPHOCYTE_UP	-1.4285789	0.19880356
REACTOME_ADP_SIGNALLING_THROUGH_P2RY1	-1.42848	0.19864954
REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE	-1.4274144	0.19986384
ZHAN_MULTIPLE_MYELOMA_MS_UP	-1.4274054	0.1995904
STEGER_ADIPOGENESIS_UP	-1.4271488	0.19967914
MIKKELSEN_IPS_LCP_WITH_H3K4ME3	-1.4271162	0.19943358

BIOCARTA_PDGF_PATHWAY	-1.426232	0.20040438
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_8	-1.4255567	0.20105661
KEGG_CITRATE_CYCLE_TCA_CYCLE	-1.4251095	0.20143615
PETROVA_ENDOTHELIUM_LYMPHATIC_VS_BLOOD_DN	-1.4249998	0.20131917
NADLER_OBESITY_UP	-1.4245999	0.20156088
LINDSTEDT_DENDRITIC_CELL_MATURATION_D	-1.4241593	0.20190383
VALK_AML_CLUSTER_4	-1.423938	0.2019141
YOSHIMURA_MAPK8_TARGETS_DN	-1.423804	0.20183639
DELACROIX_RAR_TARGETS_UP	-1.4235138	0.20195597
IVANOVA_HEMATOPOIESIS_STEM_CELL	-1.4234648	0.20174049
DELASERNA_MYOD_TARGETS_DN	-1.4219904	0.20358597
WANG_METHYLATED_IN_BREAST_CANCER	-1.4219207	0.20339635
BRUINS_UVC_RESPONSE_VIA_TP53_GROUP_B	-1.4218388	0.20322289
NAGASHIMA_NRG1_SIGNALING_UP	-1.4215868	0.20333007
HARRIS_BRAIN_CANCER_PROGENITORS	-1.4215561	0.20307614
RAGHAVACHARI_PLATELET_SPECIFIC_GENES	-1.4214307	0.20299302
REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS	-1.4212862	0.2029024
KEGG_PROPANOATE_METABOLISM	-1.4210626	0.20287788
WEINMANN_ADAPTATION_TO_HYPOXIA_DN	-1.4204874	0.20345117
HANN_RESISTANCE_TO_BCL2_INHIBITOR_UP	-1.4200547	0.20376436
KEGG_TYPE_II_DIABETES_MELLITUS	-1.4198513	0.20374309
PID_VEGFR1_2_PATHWAY	-1.4196421	0.20380087
KIM_GLIS2_TARGETS_UP	-1.419547	0.20365906
HU_GENOTOXIN_ACTION_DIRECT_VS_INDIRECT_4HR	-1.4191856	0.20394225
MOOTHA_GLUCONEOGENESIS	-1.4189646	0.20397648
RIGGI_EWING_SARCOMA_PROGENITOR_UP	-1.4184613	0.204396
NABA_PROTEOGLYCANS	-1.4184068	0.20417531
DAIRKEE_TERT_TARGETS_DN	-1.4179101	0.2046058
PID_INTEGRIN1_PATHWAY	-1.4179065	0.20433667
LEE_LIVER_CANCER_CIPROFIBRATE_DN	-1.4177885	0.20418514
HOWLIN_PUBERTAL_MAMMARY_GLAND	-1.4174865	0.20436752
ZHAN_LATE_DIFFERENTIATION_GENES_UP	-1.4161109	0.20603096
JIANG_AGING_HYPOTHALAMUS_UP	-1.4160318	0.20585708
JECHLINGER_EPITHELIAL_TO_MESENCHYMAL_TRANSITION_UP	-1.4156909	0.20610614
BONCI_TARGETS_OF_MIR15A_AND_MIR16_1	-1.4150935	0.20667684
HOOI_ST7_TARGETS_UP	-1.4149348	0.20661724
YAO_HOXA10_TARGETS_VIA_PROGESTERONE_DN	-1.4146905	0.20668477
KYNG_DNA_DAMAGE_DN	-1.4146607	0.20646228
GAJATE_RESPONSE_TO_TRABECTEDIN_UP	-1.414505	0.20638911
JUBAN_TARGETS_OF_SPI1_AND_FLI1_UP	-1.4142932	0.20645775
GOLDRATH_IMMUNE_MEMORY	-1.4139351	0.20671189
MARIADASON_REGULATED_BY_HISTONE_ACETYLATION_UP	-1.4136553	0.20682485
SCHLINGEMANN_SKIN_CARCINOGENESIS_TPA_UP	-1.4131478	0.20729038
DAVIES_MULTIPLE_MYELOMA_VS_MGUS_DN	-1.4131358	0.20702392
PETROVA_PROX1_TARGETS_DN	-1.4124811	0.20770632
BALDWIN_PRKCI_TARGETS_UP	-1.411583	0.20869943
WIERENGA_STAT5A_TARGETS_DN	-1.4111174	0.20910434
KEGG_DILATED_CARDIOMYOPATHY	-1.4105995	0.20959678
GERHOLD_ADIPOGENESIS_DN	-1.4102563	0.2097887
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_2	-1.4099501	0.2099488
SCHAEFFER_PROSTATE_DEVELOPMENT_12HR_DN	-1.4092064	0.21069671
BRUECKNER_TARGETS_OF_MIRLET7A3_DN	-1.4087957	0.21102314
ZHAN_MULTIPLE_MYELOMA_DN	-1.4083813	0.21134113
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_16	-1.4083374	0.21112557
STARK_HYPPOCAMPUS_22Q11_DELETION_DN	-1.4079471	0.21136889
SMID_BREAST_CANCER_RELAPSE_IN_LUNG_DN	-1.4076096	0.2115597
HOELZEL_NF1_TARGETS_DN	-1.4075804	0.21131316
BOQUEST_STEM_CELL_CULTURED_VS_FRESH_DN	-1.4074341	0.2112449
DARWICHE_PAPILLOMA_RISK_LOW_DN	-1.4070747	0.2115162
TAVOR_CEBPA_TARGETS_DN	-1.4066244	0.2119045
REACTOME_SIGNALING_BY_FGFR	-1.4063133	0.21209212
CHEMELLO_SOLEUS_VS_EDL_MYOFIBERS_DN	-1.4061726	0.21203816
CORRE_MULTIPLE_MYELOMA_DN	-1.4060603	0.21193483
VERHAAK_GLIOBLASTOMA_MESENCHYMAL	-1.4054903	0.2124665
GRADE_COLON_AND_RECTAL_CANCER_DN	-1.404603	0.21348614
EPPERT_CE_HSC_LSC	-1.4044944	0.21337251
REACTOME_PEROXISOMAL_LIPID_METABOLISM	-1.4041605	0.21358107
MODY_HIPPOCAMPUS_POSTNATAL	-1.4039855	0.21356817
KYNG_DNA_DAMAGE_BY_GAMMA_RADIATION	-1.4039733	0.21329564
VILIMAS_NOTCH1_TARGETS_DN	-1.403409	0.2138728
RUTELLA_RESPONSE_TO_CSF2RB_AND_IL4_DN	-1.4034039	0.21360528
MACLACHLAN_BRCA1_TARGETS_UP	-1.4033408	0.21342316
BIOCARTA_ALK_PATHWAY	-1.4030517	0.21355908
REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION	-1.4026622	0.21381949
NABA_ECM_AFFILIATED	-1.4024167	0.21391796
HERNANDEZ_ABERRANT_MITOSIS_BY_DOCETACEL_4NM_UP	-1.4023681	0.21369044
SMID_BREAST_CANCER_NORMAL_LIKE_UP	-1.4023496	0.21344072

BROWNE_HCMV_INFECTION_12HR_DN	-1.4021366	0.21346025
COATES_MACROPHAGE_M1_VS_M2_UP	-1.4020408	0.21333703
SASSON_RESPONSE_TO_GONADOTROPHINS_DN	-1.4016436	0.21361953
TARTE_PLASMA_CELL_VS_PLASMABLAST_UP	-1.4013101	0.21381359
WENG_POR_TARGETS_LIVER_DN	-1.4012331	0.21364962
PAPASPYRIDONOS_UNSTABLE_ATEROSCLEROTIC_PLAQUE_UP	-1.4012066	0.21340883
REACTOME_PHOSPHOLIPID_METABOLISM	-1.4007914	0.21375065
POS_HISTAMINE_RESPONSE_NETWORK	-1.4005312	0.21385957
PASINI_SUZ12_TARGETS_DN	-1.4003923	0.21379577
REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS	-1.4000275	0.21402855
ROZANOV_MMP14_TARGETS_UP	-1.3996351	0.21433643
REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS	-1.3993126	0.21451838
PID_SHP2_PATHWAY	-1.3975267	0.2168342
KEGG_RENIN_ANGIOTENSIN_SYSTEM	-1.397123	0.21716973
OLSSON_E2F3_TARGETS_UP	-1.3970997	0.21693671
LU_AGING_BRAIN_DN	-1.3969226	0.21689333
HENDRICKS_SMARCA4_TARGETS_UP	-1.3962094	0.21776329
MOOTHA_PGC	-1.3959209	0.21785752
RIGGI_EWING_SARCOMA_PROGENITOR_DN	-1.3958066	0.21776178
AMIT_EGF_RESPONSE_120_HELA	-1.3955127	0.21788555
REACTOME_INNATE_IMMUNE_SYSTEM	-1.3949338	0.21853393
BIOCARTA_ACTINY_PATHWAY	-1.394885	0.21834892
BIOCARTA_AGR_PATHWAY	-1.394773	0.2182559
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_GRANULOCYTE_UP	-1.3942112	0.2188285
HELLER_HDAC_TARGETS_SILENCED_BY_METHYLATION_UP	-1.393719	0.21928258
LIN_NPAS4_TARGETS_DN	-1.3936143	0.21915773
AMIT_EGF_RESPONSE_240_HELA	-1.3935688	0.21894585
REACTOME_CHYLOMICRON_MEDIATED_LIPID_TRANSPORT	-1.3933803	0.21895602
ODONNELL_TFRC_TARGETS_UP	-1.3927214	0.21965048
TORCHIA_TARGETS_OF_EWSR1_FLI1_FUSION_TOP20_DN	-1.3926492	0.21947333
REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLC_BETA	-1.392538	0.21935141
SASSON_RESPONSE_TO_FORSKOLIN_DN	-1.3921262	0.21967334
RUTELLA_RESPONSE_TO_HGF_VS_CSF2RB_AND_IL4_UP	-1.3919173	0.21970487
DURAND_STROMA_NS_UP	-1.3917471	0.21965747
LAIHO_COLORECTAL_CANCER_SERRATED_UP	-1.3917464	0.21938595
REACTOME_GLUTAMATE_NEUROTRANSMITTER_RELEASE_CYCLE	-1.3911337	0.22003151
REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION	-1.3909024	0.2201041
MIKKELSEN_NPC_ICP_WITH_H3K4ME3	-1.390845	0.21990994
REACTOME_SEMAPHORIN_INTERACTIONS	-1.3900051	0.2208649
REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR	-1.3899926	0.22061576
BIOCARTA_HDAC_PATHWAY	-1.3896849	0.22079267
DELACROIX_RAR_BOUND_ES	-1.3889672	0.22162656
BIOCARTA_MCALPAIN_PATHWAY	-1.3885266	0.22202106
DELASERNA_MYOD_TARGETS_UP	-1.3879005	0.22264072
REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_FORMATION_AND_ARYLSULFATASE_ACTIVATION	-1.3877956	0.22254308
POMEROY_MEDULLOBLASTOMA_PROGNOSIS_UP	-1.3874397	0.2228268
PID_S1P_META_PATHWAY	-1.3872745	0.2228169
BIOCARTA_EGF_PATHWAY	-1.386783	0.22331345
JOHNSTONE_PARVB_TARGETS_3_UP	-1.3864111	0.22357991
BYSTRYKH_HEMATOPOIESIS_STEM_CELL_QTL_CIS	-1.3863038	0.2234492
BIOCARTA_INTEGRIN_PATHWAY	-1.3861333	0.22343616
SERVITJA_LIVER_HNF1A_TARGETS_DN	-1.3861244	0.22317548
LOPEZ_TRANSLATION_VIA_FN1_SIGNALING	-1.385807	0.22338285
HELLEBREKERS_SILENCED_DURING_TUMOR_ANGIOGENESIS	-1.3857749	0.22315252
GROSS_HYPOXIA_VIA_ELK3_DN	-1.3852235	0.2237143
RODWELL_AGING_KIDNEY_NO_BLOOD_UP	-1.3850284	0.22371934
JAZAG_TGFB1_SIGNALING_VIA_SMAD4_DN	-1.3846086	0.22404376
PEDERSEN_TARGETS_OF_611CTF_ISOFORM_OF_ERBB2	-1.3843702	0.22409527
BIOCARTA_GPCR_PATHWAY	-1.3843124	0.22390786
MEISSNER_NPC_ICP_WITH_H3_UNMETHYLATED	-1.3843056	0.22365361
SARTIPY_NORMAL_AT_INSULIN_RESISTANCE_DN	-1.3842294	0.22350095
SMIRNOV_CIRCULATING_ENDOTHELIOCYTES_IN_CANCER_UP	-1.3841357	0.22337657
KAYO_CALORIE_RESTRICTION_MUSCLE_DN	-1.3841233	0.22311975
KEGG_GAP_JUNCTION	-1.3838047	0.22330366
MULLIGHAN_NPM1_SIGNATURE_3_DN	-1.3836609	0.22327302
REACTOME_SULFUR_AMINO_ACID_METABOLISM	-1.3828962	0.22413547
RASHI_RESPONSE_TO_IONIZING_RADIATION_5	-1.3826021	0.2243189
LEE_LIVER_CANCER_ACOX1_UP	-1.3821148	0.2247731
MA_MYELOID_DIFFERENTIATION_UP	-1.3819329	0.22476776
PROVENZANI_METASTASIS_UP	-1.3812095	0.22551468
DAVICIONI_RHABDOMYOSARCOMA_PAX_FOXO1_FUSION_UP	-1.3806701	0.22609447
ONDER_CDH1_TARGETS_3_UP	-1.3802291	0.22647305
VANLOO_SP3_TARGETS_DN	-1.3797815	0.22686961
NUTT_GBM_VS_AO_GLIOMA_UP	-1.3797156	0.2266628
NATSUME_RESPONSE_TO_INTERFERON_BETA_DN	-1.3796664	0.22646528
KEGG_AXON_GUIDANCE	-1.3794754	0.22649069
MEISSNER_BRAIN_HCP_WITH_H3_UNMETHYLATED	-1.3791714	0.22671045

NEWMAN_ERCC6_TARGETS_DN	-1.3786287	0.22724113
PID_AMB2_NEUTROPHILS_PATHWAY	-1.3772153	0.22902118
SAGIV_CD24_TARGETS_DN	-1.3771974	0.22879113
KEGG_MAPK_SIGNALING_PATHWAY	-1.3770708	0.22874165
REACTOME_SIGNALING_BY_BMP	-1.3770298	0.22855994
CERVERA_SDHB_TARGETS_1_UP	-1.3762788	0.22941068
FLECHNER_BIOPSY_KIDNEY_TRANSPLANT_OK_VS_DONOR_UP	-1.3758761	0.22970888
KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION	-1.3755305	0.2299092
VALK_AML_WITH_CEBPA	-1.3752257	0.23012285
LIAN_LIPA_TARGETS_6M	-1.3744837	0.23090248
BOUDOUKHA_BOUND_BY_IGF2BP2	-1.3740854	0.23119932
HALMOS_CEBPA_TARGETS_UP	-1.3740109	0.23103021
SENESE_HDAC2_TARGETS_DN	-1.3737928	0.23106441
LE_SKI_TARGETS_UP	-1.3736427	0.23097906
ALONSO_METASTASIS_NEURAL_UP	-1.3734728	0.23096825
GNATENKO_PLATELET_SIGNATURE	-1.3732688	0.2310275
SHI_SPARC_TARGETS_UP	-1.3732291	0.2308163
LEE_AGING_MUSCLE_DN	-1.3730612	0.23080473
WOOD_EBV_EBNA1_TARGETS_UP	-1.3728321	0.2308652
FERREIRA_EWINGS_SARCOMA_UNSTABLE_VS_STABLE_DN	-1.3726386	0.23088089
LIAN_LIPA_TARGETS_3M	-1.3722371	0.23121221
YANG_MUC2_TARGETS_DUODENUM_3MO_DN	-1.372187	0.2310041
SHIN_B_CELL_LYMPHOMA_CLUSTER_7	-1.3718145	0.2312225
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_UP	-1.3710185	0.23210081
TONKS_TARGETS_OF_RUNX1_RUNX1T1_FUSION_SUSTAINED_IN_MONOCYTE_UP	-1.3704368	0.23268996
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_10D_DN	-1.3703268	0.23261113
BURTON_ADIPOGENESIS_8	-1.3703086	0.23237728
TAKEDA_TARGETS_OF_NUP98_HOXA9_FUSION_6HR_DN	-1.3698506	0.23280513
ZHAN_MULTIPLE_MYELOMA_MF_UP	-1.3694143	0.23311338
UEDA_CENTRAL_CLOCK	-1.3693619	0.23290761
BIOCARTA_GATA3_PATHWAY	-1.3691845	0.232915
YAO_TEMPORAL_RESPONSE_TO_PROGESTERONE_CLUSTER_6	-1.3691729	0.2326697
ABE_INNER_EAR	-1.3689784	0.2326942
BRACHAT_RESPONSE_TO_METHOTREXATE_UP	-1.3688642	0.23259065
KIM_WT1_TARGETS_8HR_UP	-1.3684195	0.23298177
RODRIGUES_THYROID_CARCINOMA_ANAPLASTIC_DN	-1.3682926	0.23290212
QI_PLASMACYTOMA_DN	-1.3674443	0.23397791
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_UP	-1.3665729	0.23500295
REACTOME_INTEGRIN_ALPHAIIB_BETA3_SIGNALING	-1.3663933	0.23499411
REACTOME_INWARDLY_RECTIFYING_K_CHANNELS	-1.365823	0.23556083
NAKAMURA_METASTASIS_MODEL_UP	-1.3656297	0.23557785
BIOCARTA_IL3_PATHWAY	-1.365614	0.23534106
YORDY_RECIPROCAL_REGULATION_BY_ETS1_AND_SP100_DN	-1.3651221	0.23577012
MANTOVANI_VIRAL_GPCR_SIGNALING_UP	-1.3649989	0.23568307
LEE_LIVER_CANCER_DENA_UP	-1.3649639	0.23546715
BIOCARTA_CTCF_PATHWAY	-1.3649604	0.23520905
GENTILE_UV_RESPONSE_CLUSTER_D7	-1.3645773	0.23557375
KEGG_BASAL_CELL_CARCINOMA	-1.3638179	0.23643558
PARK_TRETINOIN_RESPONSE_AND_RARA_PLZF_FUSION	-1.3633716	0.23679715
MCCLUNG_CREB1_TARGETS_DN	-1.362732	0.23750088
KIM_WT1_TARGETS_12HR_UP	-1.3626114	0.23741713
MAHADEVAN_GIST_MORPHOLOGICAL_SWITCH	-1.3624622	0.23738135
ROSS_ACUTE_MYELOID_LEUKEMIA_CBF	-1.3622626	0.23742516
BIOCARTA_INSULIN_PATHWAY	-1.3620931	0.23742437
ST_INTEGRIN_SIGNALING_PATHWAY	-1.3620899	0.23716523
LEE_AGING_CEREBELLUM_DN	-1.3618692	0.2372249
AMIT_SERUM_RESPONSE_60_MCF10A	-1.36185	0.2369928
WEIGEL_OXIDATIVE_STRESS_BY_HNE_AND_TBH	-1.361391	0.23742262
BIOCARTA_SPPA_PATHWAY	-1.3612214	0.2373914
REACTOME_AQUAPORIN_MEDIATED_TRANSPORT	-1.361198	0.23716603
GAUSSMANN_MLL_AF4_FUSION_TARGETS_A_UP	-1.360404	0.23809607
ONKEN_UVEAL_MELANOMA_DN	-1.3600646	0.23833834
PID_REELIN_PATHWAY	-1.3597558	0.2385241
HESS_TARGETS_OF_HOXA9_AND_MEIS1_DN	-1.3594282	0.23877703
HOQUE_METHYLATED_IN_CANCER	-1.359398	0.23856002
BROWNE_HCMV_INFECTION_14HR_DN	-1.3592408	0.23849808
KAMIKUBO_MYELOID_CEBPA_NETWORK	-1.3589468	0.23865317
REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP_RECEPTOR	-1.3586698	0.23879027
CHIANG_LIVER_CANCER_SUBCLASS_CTNNB1_DN	-1.3585922	0.23865534
MULLIGHAN_MLL_SIGNATURE_2_DN	-1.357467	0.23997279
SARTIPY_BLUNTED_BY_INSULIN_RESISTANCE_DN	-1.3573335	0.23990631
REACTOME_KERATAN_SULFATE_BIOSYNTHESIS	-1.3571812	0.23986864
REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION	-1.3571527	0.23966654
BACOLOD_RESISTANCE_TO_ALKYLATING_AGENTS_UP	-1.3567934	0.23996672
HAHTOLA_MYCOSIS_FUNGOIDES_SKIN_UP	-1.3567033	0.23983115
BOYLAN_MULTIPLE_MYELOMA_PCA3_DN	-1.3564949	0.23983693
REACTOME_METABOLISM_OF_CARBOHYDRATES	-1.3562444	0.23996069

MILI_PSEUDOPODIA_CHEMOTAXIS_DN	-1.3544565	0.24237962
CASORELLI_APL_SECONDARY_VS_DE_NOVO_UP	-1.3540021	0.2428607
BEIER_GLIOMA_STEM_CELL_DN	-1.353912	0.24271773
CHESLER_BRAIN_HIGHEST_GENETIC_VARIANCE	-1.3538148	0.2425962
KEGG_OLFACTORY_TRANSDUCTION	-1.3536482	0.24258253
CHYLA_CBFA2T3_TARGETS_UP	-1.353514	0.24253343
HAN_SATB1_TARGETS_DN	-1.3534747	0.24232927
REACTOME_ACYL_CHAIN_REMODELLING_OF_PE	-1.3533539	0.24223271
GALINDO_IMMUNE_RESPONSE_TO_ENTEROTOXIN	-1.3524704	0.24325024
BIOCARTA_PAR1_PATHWAY	-1.3521739	0.24340834
PLASARI_TGFB1_SIGNALING_VIA_NFIC_10HR_UP	-1.3520753	0.24329615
APPEL_IMATINIB_RESPONSE	-1.3512409	0.2442561
MAHAJAN_RESPONSE_TO_IL1A_UP	-1.3505567	0.24501899
ONDER_CDH1_TARGETS_1_UP	-1.3504063	0.24498917
BROWNE_HCMV_INFECTION_20HR_DN	-1.3496858	0.24573381
LEE_AGING_NEOCORTEX_DN	-1.349534	0.24569568
SA_TRKA_RECEPTOR	-1.3493639	0.24566306
PIEPOLI_LGI1_TARGETS_UP	-1.3491185	0.24579231
YAUCH_HEDGEHOG_SIGNALING_PARACRINE_UP	-1.3487152	0.24612558
GRAESSMANN_APOPTOSIS_BY_SERUM_DEPRIVATION_DN	-1.3482667	0.246503
REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM	-1.3481568	0.24641833
PID_AVB3_OPN_PATHWAY	-1.3476205	0.24692026
NOUSHMEHR_GBM_SILENCED_BY_METHYLATION	-1.346992	0.24756421
FOSTER_KDM1A_TARGETS_UP	-1.346807	0.24758576
HASLINGER_B_CLL_WITH_MUTATED_VH_GENES	-1.3467934	0.24734628
ACEVEDO_NORMAL_TISSUE_ADJACENT_TO_LIVER_TUMOR_UP	-1.3464895	0.24753551
DALESSIO_TSA_RESPONSE	-1.3462682	0.24759774
MELLMAN_TUT1_TARGETS_DN	-1.3459736	0.24776892
KEGG_BETA_ALANINE_METABOLISM	-1.3455297	0.24817929
NABA_ECM_REGULATORS	-1.3451369	0.24854529
ACEVEDO_LIVER_CANCER_WITH_H3K27ME3_UP	-1.3451025	0.24833022
TRAYNOR_RETT_SYNDROM_UP	-1.3450598	0.24815044
KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM	-1.3447763	0.24829163
GOUYER_TATI_TARGETS_DN	-1.343895	0.24933411
CRX_DN.V1_DN	-1.7350211	0.06942698
MTOR_UP.V1_DN	-1.6825097	0.08201503
TGFB_UP.V1_UP	-1.6818198	0.05543168
PKCA_DN.V1_UP	-1.6660329	0.05254351
AKT_UP.V1_DN	-1.642436	0.0635
CAHOY_ASTROGLIAL	-1.6250536	0.06972968
KRAS.AMP.LUNG_UP.V1_DN	-1.6074493	0.07493567
E2F1_UP.V1_DN	-1.6045095	0.06901259
KRAS.600.LUNG.BREAST_UP.V1_UP	-1.5288396	0.15869235
ATM_DN.V1_UP	-1.5172858	0.16605628
JNK_DN.V1_DN	-1.5166101	0.15181544
BCAT.100_UP.V1_UP	-1.5100213	0.15069985
PTEN_DN.V2_UP	-1.5078735	0.1426367
IL2_UP.V1_DN	-1.5006279	0.14213516
AKT_UP_MTOR_DN.V1_DN	-1.4988804	0.1346569
WNT_UP.V1_DN	-1.4973423	0.12853783
NOTCH_DN.V1_DN	-1.49338	0.12554894
IL15_UP.V1_DN	-1.4900988	0.12315715
ESC_J1_UP_LATE.V1_DN	-1.4755226	0.13486645
CTIP_DN.V1_UP	-1.4697733	0.1355276
PKCA_DN.V1_DN	-1.469457	0.12950712
P53_DN.V1_DN	-1.4658664	0.12836105
LEF1_UP.V1_UP	-1.4602654	0.1296367
MEK_UP.V1_UP	-1.4553083	0.13057612
KRAS.KIDNEY_UP.V1_DN	-1.4545137	0.12608986
CYCLIN_D1_UP.V1_UP	-1.4471699	0.12973988
KRAS.300_UP.V1_UP	-1.4386575	0.13532494
ATF2_UP.V1_DN	-1.4371502	0.13245636
IL21_UP.V1_DN	-1.4347256	0.13087845
CSR_LATE_UP.V1_DN	-1.4288423	0.13320816
ATF2_S_UP.V1_DN	-1.4260631	0.13213645
PTEN_DN.V1_UP	-1.4238199	0.13039511
SNF5_DN.V1_DN	-1.4179019	0.13382533
KRAS.600_UP.V1_UP	-1.4125656	0.1364924
NFE2L2.V2	-1.4121625	0.1329603
KRAS.LUNG.BREAST_UP.V1_UP	-1.40353	0.13943826
JAK2_DN.V1_UP	-1.3952366	0.14667855
KRAS.BREAST_UP.V1_DN	-1.3950573	0.1430682
ALK_DN.V1_UP	-1.3911577	0.14417669
KRAS.PROSTATE_UP.V1_UP	-1.3809389	0.15376666
KRAS.BREAST_UP.V1_UP	-1.3780402	0.15297423
ESC_J1_UP_EARLY.V1_DN	-1.377274	0.15040855
KRAS.DF.V1_UP	-1.3762187	0.14815712

KRAS.50_UP.V1_UP	-1.3750936	0.14628437
P53_DN.V2_DN	-1.3700521	0.14971359
ESC_V6.5_UP_EARLY.V1_DN	-1.3679935	0.14923322
BMI1_DN.V1_UP	-1.3589884	0.15645759
ESC_V6.5_UP_LATE.V1_UP	-1.3558766	0.15637203
ESC_J1_UP_LATE.V1_UP	-1.353297	0.15666541
RAF_UP.V1_UP	-1.3522632	0.1546138
SRC_UP.V1_UP	-1.3515477	0.15240669
VEGF_A_UP.V1_UP	-1.3497983	0.15188543
BMI1_DN_MEL18_DN.V1_DN	-1.3483734	0.15063354
NOTCH_DN.V1_UP	-1.335841	0.16195089
BMI1_DN.V1_DN	-1.3338896	0.16145979
IL21_UP.V1_UP	-1.3329918	0.15968436
KRAS.KIDNEY_UP.V1_UP	-1.3276392	0.163363
RELA_DN.V1_UP	-1.326157	0.1625269
PIGF_UP.V1_DN	-1.3255825	0.16066264
RAPA_EARLY_UP.V1_UP	-1.3166031	0.16971102
WNT_UP.V1_UP	-1.3131326	0.1713998
CYCLIN_D1_KE_.V1_DN	-1.308175	0.17444482
KRAS.LUNG_UP.V1_UP	-1.282725	0.20699593
NRL_DN.V1_DN	-1.2819195	0.20481926
GLI1_UP.V1_UP	-1.2813271	0.20250192
CYCLIN_D1_KE_.V1_UP	-1.2803239	0.20086113
PRC2_EZH2_UP.V1_DN	-1.278751	0.19980413
MEL18_DN.V1_UP	-1.2768205	0.19939587
PRC2_EED_UP.V1_UP	-1.273807	0.20069681
JNK_DN.V1_UP	-1.2732956	0.19852148
PDGF_UP.V1_UP	-1.271692	0.19766079
KRAS.AMP.LUNG_UP.V1_UP	-1.2704285	0.19639398
CRX_NRL_DN.V1_DN	-1.2689673	0.19549988
ATM_DN.V1_DN	-1.2661846	0.19658415
CSR_EARLY_UP.V1_DN	-1.2658079	0.1942995
IL15_UP.V1_UP	-1.2610772	0.19768488
PRC1_BMI_UP.V1_DN	-1.2480775	0.21171434
BMI1_DN_MEL18_DN.V1_UP	-1.2449237	0.21279511
ESC_V6.5_UP_LATE.V1_DN	-1.2443691	0.21074864
BRCA1_DN.V1_DN	-1.243352	0.20936434
IL2_UP.V1_UP	-1.2427052	0.20756154
CAHOY_ASTROCYTIC	-1.2375094	0.21190163
LTE2_UP.V1_UP	-1.2369107	0.21004015
AKT_UP_MTOR_DN.V1_UP	-1.2365422	0.20795628
YAP1_UP	-1.2333227	0.20922264
KRAS.600.LUNG.BREAST_UP.V1_DN	-1.2272022	0.21469782
BRCA1_DN.V1_UP	-1.2219046	0.21836372
GCNP_SHH_UP_LATE.V1_DN	-1.2173313	0.22171183
TGFB_UP.V1_DN	-1.213078	0.2253584
STK33_UP	-1.2121315	0.22405198
CYCLIN_D1_UP.V1_DN	-1.2059959	0.23064941
KRAS.LUNG.BREAST_UP.V1_DN	-1.2059004	0.22822031
EGFR_UP.V1_UP	-1.1976947	0.23612998
TBK1.DF_UP	-1.1927353	0.240033
RB_DN.V1_DN	-1.1896583	0.24135733
STK33_SKM_UP	-1.1813788	0.24782002
PTEN_DN.V2_DN	-1.178629	0.24891411
RELA_DN.V1_DN	-1.1785723	0.24645613
CAMP_UP.V1_DN	-1.1773233	0.24546011
ESC_J1_UP_EARLY.V1_UP	-1.1753533	0.2456882
PIGF_UP.V1_UP	-1.1716478	0.24861006
HALLMARK_ADIPOGENESIS	-1.8095831	0.01792035
HALLMARK_XENOBIOTIC_METABOLISM	-1.7684536	0.0185771
HALLMARK_FATTY_ACID_METABOLISM	-1.7180953	0.02246274
HALLMARK_HYPOXIA	-1.6526405	0.03961282
HALLMARK_MYOGENESIS	-1.6453276	0.03503998
HALLMARK_UV_RESPONSE_DN	-1.5724976	0.07721684
HALLMARK_REACTIVE_OXIGEN_SPECIES_PATHWAY	-1.5664216	0.07013124
HALLMARK_EPITHELIAL_MESENCHYMAL_TRANSITION	-1.5346494	0.08758862
HALLMARK_ANGIOGENESIS	-1.5290772	0.08300371
HALLMARK_COAGULATION	-1.5008595	0.10015855
HALLMARK_KRAS_SIGNALING_UP	-1.4480565	0.1417481
HALLMARK_APICAL_JUNCTION	-1.4407843	0.13995437
HALLMARK_BILE_ACID_METABOLISM	-1.4364169	0.13348778
HALLMARK_PANCREAS_BETA_CELLS	-1.3653072	0.20173047
HALLMARK_TNFA_SIGNALING_VIA_NFKB	-1.343455	0.21645644
HALLMARK_UV_RESPONSE_UP	-1.3250334	0.2260359
HALLMARK_APOPTOSIS	-1.3164364	0.22339101
HALLMARK_P53_PATHWAY	-1.3106899	0.21902713
HALLMARK_HEME_METABOLISM	-1.2986828	0.22079004

HALLMARK_TGF_BETA_SIGNALING	-1.2741126	0.23411074
HALLMARK_CHOLESTEROL_HOMEOSTASIS	-1.2662278	0.23204537
HALLMARK_IL2_STAT5_SIGNALING	-1.2423098	0.24907301