

**Table S4.** Canonical Pathways gene-set analysis of the GWAS meta-analysis of cocaine dependence

#MEAN\_SAMPLE\_SIZE=6154

#TOTAL\_GENES=18068

#ALPHA=0.05

#FWER\_PERM=10000

#FWER\_THRESH\_ALPHA=4.3E-05

#CONDITIONED\_INTERNAL=genesize,log\_genesize,genedensity,log\_genedensity,samplesize,log\_samplesize,inverse\_mac,log\_inverse\_mac

SET	NGENES	BETA	BETA_STD	SE	P	P_CORR	FULL_NAME
BIOCARTA_TNFR2_PATHWAY	17	0.637	0.0195	0.195	5.39E-04	0.4129	BIOCARTA_TNFR2_PATHWAY
REACTOME_APC_C_CDC20_M...	18	0.59	0.0186	0.186	7.48E-04	0.5118	REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_F_CYCLIN_B
REACTOME_APC_CDC20_MED...	20	0.502	0.0167	0.171	1.64E-03	0.7701	REACTOME_APC_CDC20_MEDIATED_DEGRADATION_OF_NEK2A
PID_CONE_PATHWAY	20	0.484	0.0161	0.167	1.85E-03	0.8057	PID_CONE_PATHWAY
REACTOME_PERK_REGULATE...	26	0.38	0.0144	0.132	1.99E-03	0.8285	REACTOME_PERK_REGULATED_GENE_EXPRESSION
REACTOME_PHOSPHORYLATI...	16	0.575	0.0171	0.208	2.78E-03	0.9078	REACTOME_PHOSPHORYLATION_OF_THE_APC_C
REACTOME_TCR_SIGNALING	47	0.295	0.015	0.108	3.15E-03	0.9302	REACTOME_TCR_SIGNALING
KEGG_NON_HOMOLOGOUS_EN...	13	0.651	0.0174	0.243	3.69E-03	0.9553	KEGG_NON_HOMOLOGOUS_END_JOINING
KEGG_ANTIGEN_PROCESSIN...	75	0.265	0.017	0.101	4.49E-03	0.9734	KEGG_ANTIGEN_PROCESSING_AND_PRESENTATION
KEGG_PRION_DISEASES	33	0.394	0.0168	0.151	4.59E-03	0.9751	KEGG_PRION_DISEASES
REACTOME_XENOBIOTICS	15	0.636	0.0183	0.248	5.19E-03	0.9839	REACTOME_XENOBIOTICS
KEGG_ADIPOCYTOKINE_SIG...	64	0.233	0.0138	0.0912	5.36E-03	0.9852	KEGG_ADIPOCYTOKINE_SIGNALING_PATHWAY
REACTOME_CONVERSION_FR...	15	0.505	0.0146	0.2	5.71E-03	0.9886	REACTOME_CONVERSION_FROM_APC_C_CDC20_TO_APC_C_CDH1_IN_LATE_ANAPHASE
BIOCARTA_CD40_PATHWAY	13	0.507	0.0136	0.207	7.09E-03	0.9942	BIOCARTA_CD40_PATHWAY
REACTOME_INHIBITION_OF...	17	0.452	0.0139	0.184	7.12E-03	0.9942	REACTOME_INHIBITION_OF_THE_PROTEOLYTIC_ACTIVITY_OF_APC_C_REQUIRED_FOR_THE_ONSET_OF_ANAPHASE_BY_MITOTIC_SPINDLE_CHECKPOINT_COMPONENTS
PID_NFKAPPAB_ATYPICAL_...	17	0.439	0.0134	0.18	7.42E-03	0.9946	PID_NFKAPPAB_ATYPICAL_PATHWAY

BIOCARTA_CYTOKINE_PATHWAY	21	0.44	0.015	0.182	7.77E-03	0.996	BIOCARTA_CYTOKINE_PATHWAY
PID_IL1_PATHWAY	32	0.324	0.0136	0.134	7.93E-03	0.9965	PID_IL1_PATHWAY
BIOCARTA_CARDIACEGF_PA...	18	0.459	0.0145	0.192	8.50E-03	0.9972	BIOCARTA_CARDIACEGF_PATHWAY
							REACTOME_SYNTHESIS_OF_PIPS_AT_THE_EARLY_ENDOS
REACTOME_SYNTHESIS_OF_...	11	0.612	0.0151	0.257	8.62E-03	0.9974	OME_MEMBRANE
KEGG_HEMATOPOIETIC_CEL...	78	0.21	0.0138	0.0911	0.010546	0.9996	KEGG_HEMATOPOIETIC_CELL_LINEAGE
REACTOME_DOWNSTREAM_TC...	31	0.3	0.0124	0.136	0.013808	0.9999	REACTOME_DOWNSTREAM_TCR_SIGNALING
							REACTOME_NFKB_IS_ACTIVATED_AND_SIGNALS_SURVIV
REACTOME_NFKB_IS_ACTIV...	9	0.512	0.0114	0.23	0.013196	0.9999	AL
REACTOME_METABOLISM_OF...	200	0.116	0.0121	0.0506	0.011068	0.9999	REACTOME_METABOLISM_OF_MRNA
							REACTOME_REGULATION_OF_MRNA_STABILITY_BY_PRO
REACTOME_REGULATION_OF...	79	0.18	0.0119	0.0822	0.014197	0.9999	TEINS_THAT_BIND_AU_RICH_ELEMENTS
KEGG_GLYCOLYSIS_GLUCON...	59	0.0241	0.00137	0.108	0.41185	1	KEGG_GLYCOLYSIS_GLUONEOGENESIS
KEGG_CITRATE_CYCLE_TCA...	28	0.0578	0.00227	0.15	0.35044	1	KEGG_CITRATE_CYCLE_TCA_CYCLE
KEGG_PENTOSE_PHOSPHATE...	23	0.112	0.00401	0.153	0.23063	1	KEGG_PENTOSE_PHOSPHATE_PATHWAY
							KEGG_PENTOSE_AND_GLUCURONATE_INTERCONVERSI
KEGG_PENTOSE_AND_GLUCU...	28	-0.0805	-0.00317	0.189	0.66523	1	NS
KEGG_FRUCTOSE_AND_MANN...	32	0.121	0.00507	0.134	0.18378	1	KEGG_FRUCTOSE_AND_MANNOSE_METABOLISM
KEGG_GALACTOSE_METABOLISM	25	0.101	0.00374	0.169	0.2754	1	KEGG_GALACTOSE_METABOLISM
KEGG_ASCORBATE_AND_ALD...	25	0.132	0.00491	0.226	0.27932	1	KEGG_ASCORBATE_AND_ALDARATE_METABOLISM
KEGG_FATTY_ACID_METABO...	41	0.157	0.00747	0.117	0.089715	1	KEGG_FATTY_ACID_METABOLISM
KEGG_STEROID_BIOSYNTHESIS	15	0.125	0.00361	0.211	0.27612	1	KEGG_STEROID_BIOSYNTHESIS
KEGG_PRIMARY_BILE_ACID...	16	-0.0855	-0.00254	0.182	0.68109	1	KEGG_PRIMARY_BILE_ACID_BIOSYNTHESIS
KEGG_STEROID_HORMONE_B...	54	-0.00739	-0.000403	0.123	0.52399	1	KEGG_STEROID_HORMONE_BIOSYNTHESIS
KEGG_OXIDATIVE_PHOSPHO...	112	0.0337	0.00264	0.0665	0.30623	1	KEGG_OXIDATIVE_PHOSPHORYLATION
KEGG_PURINE_METABOLISM	151	-0.0284	-0.00259	0.0609	0.67958	1	KEGG_PURINE_METABOLISM
KEGG_PYRIMIDINE_METABO...	92	-0.133	-0.0095	0.0758	0.96078	1	KEGG_PYRIMIDINE_METABOLISM
							KEGG_ALANINE_ASPARTATE_AND_Glutamate_Metabo
KEGG_ALANINE_ASPARTATE...	31	-0.126	-0.0052	0.134	0.82576	1	LISM
KEGG_GLYCINE_SERINE_AN...	28	0.0119	0.000469	0.143	0.46683	1	KEGG_GLYCINE_SERINE_AND_THREONINE_METABOLISM
KEGG_CYSTEINE_AND_METH...	33	-0.0375	-0.0016	0.125	0.61774	1	KEGG_CYSTEINE_AND_METHIONINE_METABOLISM

KEGG_VALINE_LEUCINE_AN...	43	0.0169	0.000823	0.11	0.43878	1	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_DEGRADATIO N
KEGG_VALINE_LEUCINE_AN...	10	-0.535	-0.0126	0.221	0.99235	1	KEGG_VALINE_LEUCINE_AND_ISOLEUCINE_BIOSYNTHESIS
KEGG_LYSINE_DEGRADATION	42	0.178	0.00856	0.109	0.051943	1	KEGG_LYSINE_DEGRADATION
KEGG_ARGININE_AND_PROL...	47	0.0087	0.000443	0.103	0.46634	1	KEGG_ARGININE_AND_PROLINE_METABOLISM
KEGG_HISTIDINE_METABOLISM	27	0.0732	0.00283	0.153	0.31629	1	KEGG_HISTIDINE_METABOLISM
KEGG_TYROSINE_METABOLISM	40	0.0559	0.00263	0.13	0.33367	1	KEGG_TYROSINE_METABOLISM
KEGG_PHENYLALANINE_MET...	16	-0.139	-0.00415	0.188	0.77133	1	KEGG_PHENYLALANINE_METABOLISM
KEGG_TRYPTOPHAN_METABO...	37	0.125	0.00564	0.118	0.14528	1	KEGG_TRYPTOPHAN_METABOLISM
KEGG_BETA_ALANINE_META...	21	0.202	0.0069	0.175	0.12318	1	KEGG_BETA_ALANINE_METABOLISM
KEGG_TAURINE_AND_HYPOT...	10	0.157	0.00369	0.227	0.24494	1	KEGG_TAURINE_AND_HYPOTAURINE_METABOLISM
KEGG_SELENOAMINO_ACID_...	26	-0.175	-0.00665	0.15	0.87874	1	KEGG_SELENOAMINO_ACID_METABOLISM
KEGG_GLUTATHIONE_METAB...	47	0.0194	0.00099	0.115	0.43268	1	KEGG_GLUTATHIONE_METABOLISM
KEGG_STARCH_AND_SUCROS...	52	0.188	0.0101	0.124	0.064749	1	KEGG_STARCH_AND_SUCROSE_METABOLISM
KEGG_N_GLYCAN_BIOSYNTH...	44	-0.133	-0.00656	0.113	0.88169	1	KEGG_N_GLYCAN_BIOSYNTHESIS
KEGG_OTHER_GLYCAN_DEGR...	16	0.268	0.00797	0.168	0.054908	1	KEGG_OTHER_GLYCAN_DEGRADATION
KEGG_O_GLYCAN_BIOSYNTH...	28	-0.101	-0.00399	0.16	0.73685	1	KEGG_O_GLYCAN_BIOSYNTHESIS
KEGG_AMINO_SUGAR_AND_N...	42	0.113	0.00547	0.111	0.15348	1	KEGG_AMINO_SUGAR_AND_NUCLEOTIDE_SUGAR_META BOLISM
KEGG_GLYCOSAMINOGLYCAN...	20	-0.0363	-0.00121	0.168	0.58537	1	KEGG_GLYCOSAMINOGLYCAN_DEGRADATION
KEGG_GLYCOSAMINOGLYCAN...	21	-0.12	-0.00408	0.154	0.78169	1	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_CHONDROI TIN_SULFATE
KEGG_GLYCOSAMINOGLYCAN...	15	-0.0122	-0.000352	0.187	0.52609	1	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_KERATAN_ SULFATE
KEGG_GLYCOSAMINOGLYCAN...	25	0.0815	0.00303	0.167	0.31292	1	KEGG_GLYCOSAMINOGLYCAN_BIOSYNTHESIS_HEPARAN_ SULFATE
KEGG_GLYCEROLIPID_META...	46	-0.0972	-0.0049	0.124	0.78374	1	KEGG_GLYCEROLIPID_METABOLISM
KEGG_INOSITOL_PHOSPHAT...	53	-0.0594	-0.00321	0.101	0.72149	1	KEGG_INOSITOL_PHOSPHATE_METABOLISM
KEGG_GLYCOSYLPHOSPHATI...	24	0.162	0.00591	0.135	0.11453	1	KEGG_GLYCOSYLPHOSPHATIDYLINOSITOL_GPI_ANCHOR_ BIOSYNTHESIS
KEGG_GLYCEROPHOSPHOLIP...	75	-0.0136	-0.000876	0.0834	0.56489	1	KEGG_GLYCEROPHOSPHOLIPID_METABOLISM
KEGG_ETHER_LIPID_METAB...	33	0.15	0.00641	0.122	0.10886	1	KEGG_ETHER_LIPID_METABOLISM

KEGG_ARACHIDONIC_ACID_...	58	0.0467	0.00264	0.1	0.3208	1	KEGG_ARACHIDONIC_ACID_METABOLISM
KEGG_LINOLEIC_ACID_MET...	29	0.153	0.00612	0.14	0.13817	1	KEGG_LINOLEIC_ACID_METABOLISM
KEGG_ALPHA_LINOLENIC_A...	19	0.149	0.00484	0.156	0.16924	1	KEGG_ALPHA_LINOLENIC_ACID_METABOLISM
KEGG_SPHINGOLIPID_META...	38	0.0348	0.0016	0.133	0.39694	1	KEGG_SPHINGOLIPID_METABOLISM
KEGG_GLYCOSPHINGOLIPID...	26	-0.0973	-0.00369	0.147	0.74562	1	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_LACTO_AND_NEOLACTO_SERIES
KEGG_GLYCOSPHINGOLIPID...	13	-0.0662	-0.00177	0.207	0.62559	1	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GLOBOSERIES
KEGG_GLYCOSPHINGOLIPID...	15	0.147	0.00423	0.202	0.2332	1	KEGG_GLYCOSPHINGOLIPID_BIOSYNTHESIS_GANGLIOSERIES
KEGG_PYRUVATE_METABOLISM	39	0.00666	0.000309	0.131	0.47974	1	KEGG_PYRUVATE_METABOLISM
KEGG_GLYOXYLATE_AND_DI...	16	-0.0888	-0.00264	0.191	0.679	1	KEGG_GLYOXYLATE_AND_DICARBOXYLATE_METABOLISM
KEGG_PROPANOATE_METABO...	32	0.0569	0.00239	0.142	0.34395	1	KEGG_PROPANOATE_METABOLISM
KEGG_BUTANOATE_METABOLISM	33	-0.0128	-0.000548	0.136	0.53764	1	KEGG_BUTANOATE_METABOLISM
KEGG_ONE_CARBON_POOL_B...	17	0.245	0.00751	0.188	0.09566	1	KEGG_ONE_CARBON_POOL_BY_FOLATE
KEGG_RIBOFLAVIN_METABO...	15	-0.0752	-0.00217	0.18	0.66168	1	KEGG_RIBOFLAVIN_METABOLISM
KEGG_NICOTINATE_AND_NI...	24	0.0778	0.00283	0.153	0.30549	1	KEGG_NICOTINATE_AND_NICOTINAMIDE_METABOLISM
KEGG_PANTOTHENATE_AND_...	16	-0.058	-0.00173	0.195	0.6169	1	KEGG_PANTOTHENATE_AND_COA_BIOSYNTHESIS
KEGG_FOLATE_BIOSYNTHESIS	11	-0.353	-0.00871	0.234	0.93408	1	KEGG_FOLATE_BIOSYNTHESIS
KEGG_RETINOL_METABOLISM	62	0.107	0.00625	0.123	0.19329	1	KEGG_RETINOL_METABOLISM
KEGG_PORPHYRIN_AND_CHL...	38	-0.0995	-0.00456	0.15	0.74691	1	KEGG_PORPHYRIN_AND_CHLOROPHYLL_METABOLISM
KEGG_TERPENOID_BACKBON...	15	-0.219	-0.0063	0.194	0.8706	1	KEGG_TERPENOID_BACKBONE_BIOSYNTHESIS
KEGG_LIMONENE_AND_PINE...	10	0.239	0.00562	0.248	0.16739	1	KEGG_LIMONENE_AND_PINENE_DEGRADATION
KEGG_NITROGEN_METABOLISM	21	0.0806	0.00275	0.173	0.3209	1	KEGG_NITROGEN_METABOLISM
KEGG_SULFUR_METABOLISM	12	0.29	0.00746	0.214	0.088186	1	KEGG_SULFUR_METABOLISM
KEGG_AMINOACYL_TRNA_BI...	41	-0.252	-0.012	0.113	0.98729	1	KEGG_AMINOACYL_TRNA_BIOSYNTHESIS
KEGG_METABOLISM_OF_XEN...	69	0.0273	0.00168	0.123	0.41211	1	KEGG_METABOLISM_OF_XENOBIOTICS_BY_CYTOCHROME_P450
KEGG_DRUG_METABOLISM_C...	69	0.186	0.0114	0.121	0.062929	1	KEGG_DRUG_METABOLISM_CYTOCHROME_P450
KEGG_DRUG_METABOLISM_O...	50	0.0363	0.00191	0.132	0.39145	1	KEGG_DRUG_METABOLISM_OTHER_ENZYMES

KEGG_BIOSYNTHESIS_OF_U...	22	0.255	0.00888	0.175	0.072311	1	KEGG_BIOSYNTHESIS_OF_UNSATURATED_FATTY_ACIDS
KEGG_ABC_TRANSPORTERS	42	-0.0337	-0.00162	0.126	0.60544	1	KEGG_ABC_TRANSPORTERS
KEGG_RIBOSOME	81	0.107	0.00715	0.0783	0.085868	1	KEGG_RIBOSOME
KEGG_RNA_DEGRADATION	56	0.101	0.00559	0.0926	0.13864	1	KEGG_RNA_DEGRADATION
KEGG_RNA_POLYMERASE	27	-0.0643	-0.00248	0.126	0.69449	1	KEGG_RNA_POLYMERASE
KEGG_BASAL_TRANSCRIPTI...	31	0.0461	0.00191	0.133	0.36479	1	KEGG_BASAL_TRANSCRIPTION_FACTORS
KEGG_DNA_REPLICATION	33	-0.0759	-0.00324	0.123	0.73167	1	KEGG_DNA_REPLICATION
KEGG_SPLICEOSOME	121	0.125	0.0102	0.068	0.033306	1	KEGG_SPLICEOSOME
KEGG_PROTEASOME	44	0.061	0.00301	0.113	0.29529	1	KEGG_PROTEASOME
KEGG_PROTEIN_EXPORT	23	-0.13	-0.00463	0.15	0.80614	1	KEGG_PROTEIN_EXPORT
KEGG_PPAR_SIGNALING_PA...	67	0.0697	0.00424	0.0893	0.21741	1	KEGG_PPAR_SIGNALING_PATHWAY
KEGG_BASE_EXCISION_REPAIR	32	-0.135	-0.00567	0.136	0.8395	1	KEGG_BASE_EXCISION_REPAIR
KEGG_NUCLEOTIDE_EXCISI...	40	-0.243	-0.0114	0.113	0.98422	1	KEGG_NUCLEOTIDE_EXCISION_REPAIR
KEGG_MISMATCH_REPAIR	22	-0.317	-0.0111	0.147	0.98427	1	KEGG_MISMATCH_REPAIR
KEGG_HOMOLOGOUS_RECOMB...	27	-0.0434	-0.00168	0.15	0.61407	1	KEGG_HOMOLOGOUS_RECOMBINATION
KEGG_MAPK_SIGNALING_PA...	256	-0.0367	-0.00433	0.0482	0.77643	1	KEGG_MAPK_SIGNALING_PATHWAY
KEGG_ERBB_SIGNALING_PA...	84	0.117	0.00795	0.0858	0.086698	1	KEGG_ERBB_SIGNALING_PATHWAY
KEGG_CALCIUM_SIGNALING...	167	0.0443	0.00424	0.0649	0.24753	1	KEGG_CALCIUM_SIGNALING_PATHWAY
KEGG_CYTOKINE_CYTOKINE...	246	0.026	0.00302	0.0554	0.31921	1	KEGG_CYTOKINE_CYTOKINE_RECEPTOR_INTERACTION
KEGG_CHEMOKINE_SIGNALI...	179	0.0662	0.00656	0.06	0.13481	1	KEGG_CHEMOKINE_SIGNALING_PATHWAY
KEGG_PHOSPHATIDYLINOSI...	74	-0.0538	-0.00344	0.0923	0.72004	1	KEGG_PHOSPHATIDYLINOSITOL_SIGNALING_SYSTEM
KEGG_NEUROACTIVE_LIGAN...	252	0.058	0.0068	0.0541	0.14195	1	KEGG_NEUROACTIVE_LIGAND_RECEPTOR_INTERACTION
KEGG_CELL_CYCLE	120	0.0701	0.00569	0.0693	0.15585	1	KEGG_CELL_CYCLE
KEGG_OOCYTE_MEIOSIS	106	0.023	0.00176	0.0769	0.38239	1	KEGG_OOCYTE_MEIOSIS
KEGG_P53_SIGNALING_PAT...	66	0.000347	2.10E-05	0.0948	0.49854	1	KEGG_P53_SIGNALING_PATHWAY
KEGG_UBIQUITIN_MEDIATE...	125	0.0815	0.00675	0.0658	0.10795	1	KEGG_UBIQUITIN_MEDIATED_PROTEOLYSIS
KEGG_SNARE_INTERACTION...	36	0.113	0.00503	0.126	0.18565	1	T
KEGG_REGULATION_OF_AUT...	32	0.0528	0.00222	0.151	0.36338	1	KEGG_REGULATION_OF_AUTOPHAGY

KEGG_LYSOSOME	115	0.038	0.00302	0.0695	0.29253	1	KEGG_LYSOSOME
KEGG_ENDOCYTOSIS	177	0.0881	0.00867	0.0586	0.066336	1	KEGG_ENDOCYTOSIS
KEGG_PEROXISOME	76	-0.00493	-0.000319	0.0812	0.52422	1	KEGG_PEROXISOME
KEGG_MTOR_SIGNALING_PA...	49	0.0192	0.000997	0.108	0.42922	1	KEGG_MTOR_SIGNALING_PATHWAY
KEGG_APOPTOSIS	81	0.106	0.00709	0.0866	0.11027	1	KEGG_APOPTOSIS
KEGG_CARDIAC_MUSCLE_CO...	69	0.0352	0.00217	0.0897	0.34728	1	KEGG_CARDIAC_MUSCLE_CONTRACTION
KEGG_VASCULAR_SMOOTH_M...	112	-0.0231	-0.00182	0.0731	0.62413	1	KEGG_VASCULAR_SMOOTH_MUSCLE_CONTRACTION
KEGG_WNT_SIGNALING_PAT...	145	-0.13	-0.0116	0.0651	0.97739	1	KEGG_WNT_SIGNALING_PATHWAY
KEGG_DORSO_VENTRAL_AXI...	24	-0.0376	-0.00137	0.161	0.59229	1	KEGG_DORSO_VENTRAL_AXIS_FORMATION
KEGG_NOTCH_SIGNALING_P...	47	-0.154	-0.00787	0.106	0.92783	1	KEGG_NOTCH_SIGNALING_PATHWAY
KEGG_HEDGEHOG_SIGNALIN...	54	-0.0155	-0.000849	0.106	0.55822	1	KEGG_HEDGEHOG_SIGNALING_PATHWAY
KEGG_TGF_BETA_SIGNALIN...	85	-0.0896	-0.00613	0.0829	0.86001	1	KEGG_TGF_BETA_SIGNALING_PATHWAY
KEGG_AXON_GUIDANCE	122	0.0777	0.00636	0.0736	0.14554	1	KEGG_AXON_GUIDANCE
KEGG_VEGF_SIGNALING_PA...	76	0.0152	0.000981	0.0832	0.42769	1	KEGG_VEGF_SIGNALING_PATHWAY
KEGG_FOCAL_ADHESION	192	0.0119	0.00122	0.0567	0.41677	1	KEGG_FOCAL_ADHESION
KEGG_ECM_RECEPTOR_INTE...	82	0.00944	0.000634	0.0883	0.45745	1	KEGG_ECM_RECEPTOR_INTERACTION
KEGG_CELL_ADHESION_MOL...	123	-0.109	-0.00893	0.075	0.92605	1	KEGG_CELL_ADHESION_MOLECULES_CAMS
KEGG_ADHERENS_JUNCTION	72	-0.0993	-0.00625	0.095	0.85198	1	KEGG_ADHERENS_JUNCTION
KEGG_TIGHT_JUNCTION	130	-0.0316	-0.00267	0.0688	0.67708	1	KEGG_TIGHT_JUNCTION
KEGG_GAP_JUNCTION	86	-0.0643	-0.00442	0.0885	0.7661	1	KEGG_GAP_JUNCTION
KEGG_COMPLEMENT_AND_CO...	66	0.0464	0.0028	0.0992	0.31981	1	KEGG_COMPLEMENT_AND_COAGULATION_CASCADES
KEGG_RENIN_ANGIOTENSIN...	15	0.0447	0.00129	0.221	0.41969	1	KEGG_RENIN_ANGIOTENSIN_SYSTEM
KEGG_TOLL_LIKE_RECEPTO...	96	0.127	0.00921	0.0835	0.064599	1	KEGG_TOLL_LIKE_RECEPTOR_SIGNALING_PATHWAY
KEGG_NOD_LIKE_RECEPTOR...	57	0.151	0.00849	0.099	0.062992	1	KEGG_NOD_LIKE_RECEPTOR_SIGNALING_PATHWAY
KEGG_RIG_I_LIKE_RECEPT...	65	0.076	0.00455	0.1	0.22446	1	KEGG_RIG_I_LIKE_RECEPTOR_SIGNALING_PATHWAY
KEGG_CYTOSOLIC_DNA_SEN...	50	0.0826	0.00434	0.111	0.22845	1	KEGG_CYTOSOLIC_DNA_SENSING_PATHWAY
KEGG_JAK_STAT_SIGNALIN...	144	0.00882	0.000784	0.0686	0.44891	1	KEGG_JAK_STAT_SIGNALING_PATHWAY
KEGG_NATURAL_KILLER_CE...	126	0.0914	0.0076	0.0749	0.11131	1	KEGG_NATURAL_KILLER_CELL_MEDIATED_CYTOTOXICITY
KEGG_T_CELL_RECEPTOR_S...	105	0.11	0.00838	0.0761	0.0739	1	KEGG_T_CELL_RECEPTOR_SIGNALING_PATHWAY

KEGG_B_CELL_RECEPTOR_S...	72	0.0428	0.0027	0.0888	0.31507	1	KEGG_B_CELL_RECEPTOR_SIGNALING_PATHWAY
KEGG_FC_EPSILON_RI_SIG...	77	0.0226	0.00147	0.0838	0.39369	1	KEGG_FC_EPSILON_RI_SIGNALING_PATHWAY
KEGG_FC_GAMMA_R_MEDIAT...	92	-0.0202	-0.00144	0.0849	0.59398	1	KEGG_FC_GAMMA_R_MEDIATED_PHAGOCYTOSIS
KEGG_LEUKOCYTE_TRANSEN...	111	-0.0345	-0.0027	0.0743	0.67896	1	KEGG_LEUKOCYTE_TRANSENDOTHELIAL_MIGRATION KEGG_INTESTINAL_IMMUNE_NETWORK_FOR_IGA_PROD UCTION
KEGG_INTESTINAL_IMMUNE...	43	0.138	0.00675	0.128	0.14043	1	
KEGG_CIRCADIAN_RHYTHM_...	13	-0.458	-0.0123	0.216	0.98307	1	KEGG_CIRCADIAN_RHYTHM_MAMMAL
KEGG_LONG_TERM_POTENTI...	66	0.0107	0.000648	0.0927	0.45392	1	KEGG_LONG_TERM_POTENTIATION
KEGG_NEUROTROPHIN_SIGN...	120	0.0266	0.00216	0.0699	0.35161	1	KEGG_NEUROTROPHIN_SIGNALING_PATHWAY
KEGG_LONG_TERM_DEPRESSION	68	-0.0448	-0.00274	0.0931	0.68478	1	KEGG_LONG_TERM_DEPRESSION
KEGG_OLFACTORY_TRANSDU...	341	0.0417	0.00567	0.0593	0.24113	1	KEGG_OLFACTORY_TRANSDUCTION
KEGG_TASTE_TRANSDUCTION	48	-0.0674	-0.00347	0.124	0.70606	1	KEGG_TASTE_TRANSDUCTION
KEGG_REGULATION_OF_ACT...	199	-0.0909	-0.00949	0.0544	0.9526	1	KEGG_REGULATION_OF_ACTIN_CYTOSKELETON
KEGG_INSULIN_SIGNALING...	130	-0.0248	-0.0021	0.0655	0.64754	1	KEGG_INSULIN_SIGNALING_PATHWAY
KEGG_GNRH_SIGNALING_PA...	98	0.0132	0.000973	0.0787	0.43316	1	KEGG_GNRH_SIGNALING_PATHWAY KEGG_PROGESTERONE_MEDIATED_OOCYTE_MATURATIO N
KEGG_PROGESTERONE_MEDI...	79	-0.0046	-0.000303	0.0849	0.52159	1	
KEGG_MELANOGENESIS	99	-0.206	-0.0152	0.0781	0.99589	1	KEGG_MELANOGENESIS
KEGG_TYPE_II_DIABETES_...	46	0.194	0.00977	0.118	0.050119	1	KEGG_TYPE_II_DIABETES_MELLITUS
KEGG_TYPE_I_DIABETES_M...	39	0.297	0.0138	0.138	0.016043	1	KEGG_TYPE_I_DIABETES_MELLITUS
KEGG_MATURITY_ONSET_DI...	25	-0.12	-0.00447	0.159	0.77479	1	KEGG_MATURITY_ONSET_DIABETES_OF_THE_YOUNG KEGG_ALDOSTERONE_REGULATED_SODIUM_REABSORPT ION
KEGG_ALDOSTERONE_REGUL...	40	0.0199	0.000937	0.125	0.43658	1	
KEGG_VASOPRESSIN_REGUL...	42	-0.0635	-0.00306	0.122	0.69881	1	KEGG_VASOPRESSIN_REGULATED_WATER_REABSORPTIO N
KEGG_PROXIMAL_TUBULE_B...	21	0.199	0.00679	0.152	0.094634	1	KEGG_PROXIMAL_TUBULE_BICARBONATE_RECLAMATION
KEGG_ALZHEIMERS_DISEASE	153	0.061	0.00559	0.0587	0.14948	1	KEGG_ALZHEIMERS_DISEASE
KEGG_PARKINSONS_DISEASE	108	-0.0149	-0.00115	0.0672	0.58788	1	KEGG_PARKINSONS_DISEASE
KEGG_AMYOTROPHIC_LATER...	53	0.0912	0.00493	0.104	0.19075	1	KEGG_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS
KEGG_HUNTINGTONS_DISEASE	166	-0.07	-0.00668	0.0556	0.89567	1	KEGG_HUNTINGTONS_DISEASE

KEGG_VIBRIO_CHOLERAЕ_I...	51	-0.00916	-0.000486	0.113	0.53237	1	KEGG_VIBRIO_CHOLERAЕ_INFECTION
KEGG_EPITHELIAL_CELL_S...	65	0.117	0.00703	0.0925	0.10223	1	KEGG_EPITHELIAL_CELL_SIGNALING_IN_HELICOBACTER_P YLORI_INFECTION
KEGG_PATHOGENIC_ESCHER...	54	0.0251	0.00137	0.107	0.407	1	KEGG_PATHOGENIC_ESCHERICHIA_COLI_INFECTION
KEGG_LEISHMANIA_INFECTION	64	0.00757	0.00045	0.104	0.47095	1	KEGG_LEISHMANIA_INFECTION
KEGG_PATHWAYS_IN_CANCER	314	0.00192	0.00025	0.0449	0.48298	1	KEGG_PATHWAYS_IN_CANCER
KEGG_COLORECTAL_CANCER	61	-0.0778	-0.00451	0.1	0.78126	1	KEGG_COLORECTAL_CANCER
KEGG_RENAL_CELL_CARCINOMA	67	0.0161	0.000977	0.0948	0.43266	1	KEGG_RENAL_CELL_CARCINOMA
KEGG_PANCREATIC_CANCER	66	0.0193	0.00117	0.0956	0.41979	1	KEGG_PANCREATIC_CANCER
KEGG_ENDOMETRIAL_CANCER	50	-0.157	-0.00823	0.107	0.92858	1	KEGG_ENDOMETRIAL_CANCER
KEGG_GLIOMA	63	-0.0367	-0.00216	0.0953	0.6498	1	KEGG_GLIOMA
KEGG_PROSTATE_CANCER	85	-0.0584	-0.00399	0.0782	0.77217	1	KEGG_PROSTATE_CANCER
KEGG_THYROID_CANCER	29	-0.316	-0.0126	0.141	0.98752	1	KEGG_THYROID_CANCER
KEGG_BASAL_CELL_CARCINOMA	54	-0.3	-0.0164	0.106	0.99779	1	KEGG_BASAL_CELL_CARCINOMA
KEGG_MELANOMA	67	-0.17	-0.0103	0.0964	0.96072	1	KEGG_MELANOMA
KEGG_BLADDER_CANCER	40	-0.0387	-0.00182	0.123	0.62354	1	KEGG_BLADDER_CANCER
KEGG_CHRONIC_MYELOID_L...	71	-0.00264	-0.000165	0.0902	0.51168	1	KEGG_CHRONIC_MYELOID_LEUKEMIA
KEGG_ACUTE_MYELOID_LEU...	54	0.116	0.00635	0.106	0.13668	1	KEGG_ACUTE_MYELOID_LEUKEMIA
KEGG_SMALL_CELL_LUNG_C...	81	0.102	0.00683	0.087	0.12017	1	KEGG_SMALL_CELL_LUNG_CANCER
KEGG_NON_SMALL_CELL_LU...	53	-0.0986	-0.00533	0.105	0.82594	1	KEGG_NON_SMALL_CELL_LUNG_CANCER
KEGG_ASTHMA	25	0.0991	0.00369	0.163	0.27169	1	KEGG_ASTHMA
KEGG_AUTOIMMUNE_THYROI...	45	0.0433	0.00216	0.143	0.38132	1	KEGG_AUTOIMMUNE_THYROID_DISEASE
KEGG_SYSTEMIC_LUPUS_ER...	102	-0.0549	-0.00411	0.0902	0.72844	1	KEGG_SYSTEMIC_LUPUS_ERYTHEMATOSUS
KEGG_ALLOGRAFT_REJECTION	32	0.111	0.00466	0.152	0.23305	1	KEGG_ALLOGRAFT_REJECTION
KEGG_GRAFT_VERSUS_HOST...	33	0.117	0.00502	0.151	0.21901	1	KEGG_GRAFT_VERSUS_HOST_DISEASE
KEGG_PRIMARY_IMMUNODEF...	31	0.184	0.00762	0.145	0.10163	1	KEGG_PRIMARY_IMMUNODEFICIENCY
KEGG_HYPERTROPHIC_CARD...	80	-0.112	-0.00742	0.0874	0.8994	1	KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM KEGG_ARRHYTHMOGENIC_RIGHT_VENTRICULAR_CARDIO MYOPATHY_ARVC
KEGG_ARRHYTHMOGENIC_RI...	71	-0.0808	-0.00506	0.0993	0.79203	1	KEGG_DILATED_CARDIOMYOPATHY
KEGG_DILATED_CARDIOMYO...	86	-0.108	-0.00746	0.087	0.89338	1	KEGG_VIRAL_MYOCARDITIS
KEGG_VIRAL_MYOCARDITIS	64	-0.0834	-0.00495	0.107	0.78315	1	KEGG_VIRAL_MYOCARDITIS
BIOCARTA_RELA_PATHWAY	15	0.282	0.00811	0.174	0.052547	1	BIOCARTA_RELA_PATHWAY



BIOCARTA_NO1_PATHWAY	30	-0.0864	-0.00352	0.151	0.71655	1	BIOCARTA_NO1_PATHWAY
BIOCARTA_CSK_PATHWAY	23	-0.0801	-0.00286	0.16	0.69183	1	BIOCARTA_CSK_PATHWAY
BIOCARTA_SRCRPTP_PATHWAY	11	0.114	0.00282	0.193	0.27667	1	BIOCARTA_SRCRPTP_PATHWAY
BIOCARTA_AMI_PATHWAY	18	-0.232	-0.00731	0.184	0.89621	1	BIOCARTA_AMI_PATHWAY
BIOCARTA_GRANULOCYTES_...	14	-0.356	-0.0099	0.22	0.94734	1	BIOCARTA_GRANULOCYTES_PATHWAY
BIOCARTA_LYM_PATHWAY	11	-0.203	-0.005	0.271	0.77259	1	BIOCARTA_LYM_PATHWAY
BIOCARTA_ARAP_PATHWAY	17	-0.433	-0.0133	0.174	0.99363	1	BIOCARTA_ARAP_PATHWAY
BIOCARTA_AGR_PATHWAY	34	0.0404	0.00175	0.14	0.38625	1	BIOCARTA_AGR_PATHWAY
BIOCARTA_AKAP95_PATHWAY	12	0.155	0.004	0.235	0.25463	1	BIOCARTA_AKAP95_PATHWAY
BIOCARTA_AKT_PATHWAY	20	0.242	0.00806	0.162	0.067307	1	BIOCARTA_AKT_PATHWAY
BIOCARTA_ALK_PATHWAY	36	-0.154	-0.00685	0.133	0.87654	1	BIOCARTA_ALK_PATHWAY
BIOCARTA_AT1R_PATHWAY	32	0.0332	0.0014	0.136	0.40396	1	BIOCARTA_AT1R_PATHWAY
BIOCARTA_ACE2_PATHWAY	9	0.465	0.0104	0.288	0.05283	1	BIOCARTA_ACE2_PATHWAY
BIOCARTA_ASBCELL_PATHWAY	10	0.0847	0.00199	0.249	0.36666	1	BIOCARTA_ASBCELL_PATHWAY
BIOCARTA_DNAFRAGMENT_P...	10	-0.335	-0.00788	0.252	0.90813	1	BIOCARTA_DNAFRAGMENT_PATHWAY
BIOCARTA_CHEMICAL_PATHWAY	22	-0.0478	-0.00167	0.153	0.62227	1	BIOCARTA_CHEMICAL_PATHWAY
BIOCARTA_SPPA_PATHWAY	22	-0.423	-0.0148	0.168	0.99413	1	BIOCARTA_SPPA_PATHWAY
BIOCARTA_ATM_PATHWAY	20	0.0766	0.00255	0.195	0.34714	1	BIOCARTA_ATM_PATHWAY
BIOCARTA_AGPCR_PATHWAY	13	-0.185	-0.00495	0.213	0.80659	1	BIOCARTA_AGPCR_PATHWAY
BIOCARTA_BCELLSURVIVAL...	15	0.0484	0.00139	0.176	0.39134	1	BIOCARTA_BCELLSURVIVAL_PATHWAY
BIOCARTA_BLYMPHOCYTE_P...	10	-0.48	-0.0113	0.278	0.95808	1	BIOCARTA_BLYMPHOCYTE_PATHWAY
BIOCARTA_BCR_PATHWAY	32	0.1	0.00423	0.129	0.21773	1	BIOCARTA_BCR_PATHWAY
BIOCARTA_BIOPEPTIDES_P...	41	-0.0703	-0.00334	0.117	0.72521	1	BIOCARTA_BIOPEPTIDES_PATHWAY
BIOCARTA_NEUROTRANSMIT...	6	0.584	0.0106	0.306	0.028081	1	BIOCARTA_NEUROTRANSMITTERS_PATHWAY
BIOCARTA_RANKL_PATHWAY	14	0.0771	0.00214	0.199	0.34916	1	BIOCARTA_RANKL_PATHWAY
BIOCARTA_CACAM_PATHWAY	13	0.31	0.00832	0.218	0.077638	1	BIOCARTA_CACAM_PATHWAY
BIOCARTA_CDMAC_PATHWAY	16	0.128	0.0038	0.201	0.26213	1	BIOCARTA_CDMAC_PATHWAY
BIOCARTA_CARM_ER_PATHWAY	31	-0.226	-0.00937	0.119	0.97103	1	BIOCARTA_CARM_ER_PATHWAY
BIOCARTA_CASPASE_PATHWAY	22	-0.145	-0.00507	0.16	0.81815	1	BIOCARTA_CASPASE_PATHWAY
BIOCARTA_CBL_PATHWAY	12	-0.039	-0.001	0.249	0.56212	1	BIOCARTA_CBL_PATHWAY
BIOCARTA_CCR3_PATHWAY	22	-0.343	-0.012	0.172	0.97704	1	BIOCARTA_CCR3_PATHWAY
BIOCARTA_MCM_PATHWAY	18	0.191	0.00604	0.169	0.12894	1	BIOCARTA_MCM_PATHWAY
BIOCARTA_G1_PATHWAY	28	0.0262	0.00103	0.149	0.43013	1	BIOCARTA_G1_PATHWAY

BIOCARTA_G2_PATHWAY	24	0.0559	0.00204	0.159	0.36216	1	BIOCARTA_G2_PATHWAY
BIOCARTA_CELL2CELL_PATH...	14	0.0564	0.00157	0.212	0.39506	1	BIOCARTA_CELL2CELL_PATHWAY
BIOCARTA_LAIR_PATHWAY	17	-0.129	-0.00394	0.2	0.7399	1	BIOCARTA_LAIR_PATHWAY
BIOCARTA_CERAMIDE_PATHWAY	21	0.0532	0.00181	0.161	0.37053	1	BIOCARTA_CERAMIDE_PATHWAY
BIOCARTA_TID_PATHWAY	19	0.214	0.00695	0.17	0.10399	1	BIOCARTA_TID_PATHWAY
BIOCARTA_CLASSIC_PATHWAY	13	0.0937	0.00251	0.223	0.33703	1	BIOCARTA_CLASSIC_PATHWAY
BIOCARTA_COMP_PATHWAY	18	0.103	0.00324	0.197	0.30101	1	BIOCARTA_COMP_PATHWAY
BIOCARTA_VDR_PATHWAY	12	-0.0475	-0.00122	0.241	0.57807	1	BIOCARTA_VDR_PATHWAY
BIOCARTA_HDAC_PATHWAY	29	-0.24	-0.00959	0.156	0.93721	1	BIOCARTA_HDAC_PATHWAY
BIOCARTA_GCR_PATHWAY	19	-0.0844	-0.00273	0.174	0.68582	1	BIOCARTA_GCR_PATHWAY
BIOCARTA_CTCF_PATHWAY	23	0.0371	0.00132	0.162	0.40917	1	BIOCARTA_CTCF_PATHWAY
BIOCARTA_CTL_PATHWAY	15	-0.0224	-0.000645	0.22	0.5405	1	BIOCARTA_CTL_PATHWAY
BIOCARTA_CXCR4_PATHWAY	24	-0.15	-0.00548	0.151	0.83983	1	BIOCARTA_CXCR4_PATHWAY
BIOCARTA_CELLCYCLE_PATH...	23	0.334	0.0119	0.165	0.021578	1	BIOCARTA_CELLCYCLE_PATHWAY
BIOCARTA_CFTR_PATHWAY	12	-0.0734	-0.00189	0.242	0.61906	1	BIOCARTA_CFTR_PATHWAY
BIOCARTA_INFLAM_PATHWAY	27	0.2	0.00771	0.156	0.10063	1	BIOCARTA_INFLAM_PATHWAY
BIOCARTA_D4GDI_PATHWAY	13	0.378	0.0101	0.244	0.060967	1	BIOCARTA_D4GDI_PATHWAY
BIOCARTA_DC_PATHWAY	21	0.0575	0.00196	0.173	0.37004	1	BIOCARTA_DC_PATHWAY
BIOCARTA_P35ALZHEIMERS...	11	-0.079	-0.00195	0.239	0.62961	1	BIOCARTA_P35ALZHEIMERS_PATHWAY
BIOCARTA_RNA_PATHWAY	10	-0.0714	-0.00168	0.23	0.62167	1	BIOCARTA_RNA_PATHWAY
BIOCARTA_MTA3_PATHWAY	18	-0.412	-0.013	0.214	0.9732	1	BIOCARTA_MTA3_PATHWAY
BIOCARTA_SKP2E2F_PATHWAY	10	0.508	0.0119	0.258	0.024373	1	BIOCARTA_SKP2E2F_PATHWAY
BIOCARTA_CALCINEURIN_P...	18	0.148	0.00467	0.185	0.21169	1	BIOCARTA_CALCINEURIN_PATHWAY
BIOCARTA_EGF_PATHWAY	30	0.0732	0.00298	0.142	0.30338	1	BIOCARTA_EGF_PATHWAY
BIOCARTA_ETC_PATHWAY	9	0.0622	0.00139	0.239	0.39723	1	BIOCARTA_ETC_PATHWAY
BIOCARTA_NDKDYNAMIN_PA...	18	0.0629	0.00198	0.179	0.36245	1	BIOCARTA_NDKDYNAMIN_PATHWAY
BIOCARTA_EPHA4_PATHWAY	9	-0.474	-0.0106	0.281	0.95427	1	BIOCARTA_EPHA4_PATHWAY
BIOCARTA_EPO_PATHWAY	18	0.261	0.00823	0.16	0.051579	1	BIOCARTA_EPO_PATHWAY
BIOCARTA_ECM_PATHWAY	24	-0.301	-0.011	0.148	0.97932	1	BIOCARTA_ECM_PATHWAY
BIOCARTA_ERK_PATHWAY	27	-0.26	-0.01	0.145	0.9633	1	BIOCARTA_ERK_PATHWAY
BIOCARTA_ERYTH_PATHWAY	15	-0.0257	-0.00074	0.182	0.55596	1	BIOCARTA_ERYTH_PATHWAY
BIOCARTA_EPONFKB_PATHWAY	11	0.371	0.00916	0.225	0.049773	1	BIOCARTA_EPONFKB_PATHWAY
BIOCARTA{EIF_PATHWAY	14	-0.0795	-0.00221	0.188	0.66349	1	BIOCARTA{EIF_PATHWAY

BIOCARTA_EXTRINSIC_PATHWAY	13	-0.282	-0.00755	0.21	0.90988	1	BIOCARTA_EXTRINSIC_PATHWAY
BIOCARTA_FAS_PATHWAY	30	-0.0848	-0.00345	0.144	0.72213	1	BIOCARTA_FAS_PATHWAY
BIOCARTA_FCER1_PATHWAY	36	-0.01	-0.000447	0.125	0.53187	1	BIOCARTA_FCER1_PATHWAY
BIOCARTA_FEEDER_PATHWAY	9	-0.0473	-0.00105	0.241	0.57766	1	BIOCARTA_FEEDER_PATHWAY
BIOCARTA_FIBRINOLYSIS_PATHWAY	12	-0.149	-0.00384	0.221	0.74958	1	BIOCARTA_FIBRINOLYSIS_PATHWAY
BIOCARTA FMLP_PATHWAY	34	-0.206	-0.00894	0.132	0.94036	1	BIOCARTA FMLP_PATHWAY
BIOCARTA_FREE_PATHWAY	9	0.0919	0.00205	0.24	0.35124	1	BIOCARTA_FREE_PATHWAY
BIOCARTA_GABA_PATHWAY	9	-0.121	-0.0027	0.293	0.65991	1	BIOCARTA_GABA_PATHWAY
BIOCARTA_GATA3_PATHWAY	16	0.0752	0.00224	0.218	0.36478	1	BIOCARTA_GATA3_PATHWAY
BIOCARTA_GLYCOLYSIS_PATHWAY	9	-0.115	-0.00258	0.217	0.70279	1	BIOCARTA_GLYCOLYSIS_PATHWAY
BIOCARTA_SET_PATHWAY	11	0.171	0.00422	0.252	0.24853	1	BIOCARTA_SET_PATHWAY
BIOCARTA_GH_PATHWAY	28	0.0679	0.00267	0.136	0.30833	1	BIOCARTA_GH_PATHWAY
BIOCARTA_AHSP_PATHWAY	9	0.209	0.00467	0.212	0.16209	1	BIOCARTA_AHSP_PATHWAY
BIOCARTA_TCAPOPTOSIS_PATHWAY	11	-0.137	-0.00337	0.25	0.70773	1	BIOCARTA_TCAPOPTOSIS_PATHWAY
BIOCARTA_HIVNEF_PATHWAY	55	-0.15	-0.00828	0.107	0.91986	1	BIOCARTA_HIVNEF_PATHWAY
BIOCARTA_SALMONELLA_PATHWAY	13	-0.0397	-0.00107	0.205	0.57699	1	BIOCARTA_SALMONELLA_PATHWAY
BIOCARTA_MPR_PATHWAY	34	-0.119	-0.00517	0.133	0.81594	1	BIOCARTA_MPR_PATHWAY
BIOCARTA_HCMV_PATHWAY	17	-0.0285	-0.000875	0.189	0.56018	1	BIOCARTA_HCMV_PATHWAY
BIOCARTA_P53HYPOXIA_PATHWAY	21	-0.249	-0.00848	0.153	0.948	1	BIOCARTA_P53HYPOXIA_PATHWAY
BIOCARTA_HIF_PATHWAY	15	0.189	0.00544	0.185	0.15428	1	BIOCARTA_HIF_PATHWAY
BIOCARTA_IGF1_PATHWAY	20	-0.016	-0.000533	0.166	0.53857	1	BIOCARTA_IGF1_PATHWAY
BIOCARTA_IL17_PATHWAY	17	-0.141	-0.00432	0.204	0.75489	1	BIOCARTA_IL17_PATHWAY
BIOCARTA_IL2_PATHWAY	20	0.112	0.00372	0.171	0.25672	1	BIOCARTA_IL2_PATHWAY
BIOCARTA_IL3_PATHWAY	14	0.121	0.00337	0.193	0.26479	1	BIOCARTA_IL3_PATHWAY
BIOCARTA_IL4_PATHWAY	10	-0.0737	-0.00173	0.22	0.63124	1	BIOCARTA_IL4_PATHWAY
BIOCARTA_IL5_PATHWAY	9	0.0254	0.000567	0.27	0.46246	1	BIOCARTA_IL5_PATHWAY
BIOCARTA_IL6_PATHWAY	21	0.105	0.00356	0.162	0.25865	1	BIOCARTA_IL6_PATHWAY
BIOCARTA_IL10_PATHWAY	17	-0.218	-0.00669	0.216	0.84424	1	BIOCARTA_IL10_PATHWAY
BIOCARTA_IL12_PATHWAY	22	-0.158	-0.0055	0.177	0.81332	1	BIOCARTA_IL12_PATHWAY
BIOCARTA_IL2RB_PATHWAY	37	0.0868	0.00392	0.121	0.23726	1	BIOCARTA_IL2RB_PATHWAY
BIOCARTA_IL22BP_PATHWAY	16	0.179	0.00533	0.231	0.21859	1	BIOCARTA_IL22BP_PATHWAY
BIOCARTA_IL7_PATHWAY	16	0.121	0.00361	0.192	0.26348	1	BIOCARTA_IL7_PATHWAY
BIOCARTA_GSK3_PATHWAY	25	-0.161	-0.00598	0.143	0.86968	1	BIOCARTA_GSK3_PATHWAY

BIOCARTA_DEATH_PATHWAY	32	-0.013	-0.000545	0.136	0.53796	1	BIOCARTA_DEATH_PATHWAY
BIOCARTA_RACCYCD_PATHWAY	25	0.158	0.00586	0.144	0.13748	1	BIOCARTA_RACCYCD_PATHWAY
BIOCARTA_GLEEVEC_PATHWAY	23	-0.0233	-0.000832	0.16	0.55779	1	BIOCARTA_GLEEVEC_PATHWAY
BIOCARTA_INSULIN_PATHWAY	21	0.0328	0.00112	0.164	0.42087	1	BIOCARTA_INSULIN_PATHWAY
BIOCARTA_INTEGRIN_PATHWAY	38	-0.166	-0.0076	0.121	0.91523	1	BIOCARTA_INTEGRIN_PATHWAY
BIOCARTA_INTRINSIC_PAT...	19	-0.103	-0.00335	0.183	0.71429	1	BIOCARTA_INTRINSIC_PATHWAY
BIOCARTA_KERATINOCYTE_...	46	0.212	0.0107	0.121	0.039618	1	BIOCARTA_KERATINOCYTE_PATHWAY
BIOCARTA_TCRA_PATHWAY	12	-0.101	-0.0026	0.233	0.66757	1	BIOCARTA_TCRA_PATHWAY
BIOCARTA_LLECTIN_PATHWAY	12	0.00143	3.69E-05	0.225	0.49746	1	BIOCARTA_LLECTIN_PATHWAY
BIOCARTA_PYK2_PATHWAY	28	0.078	0.00307	0.136	0.28357	1	BIOCARTA_PYK2_PATHWAY
BIOCARTA_EGFR_SMRTE_PA...	11	0.401	0.00988	0.271	0.069518	1	BIOCARTA_EGFR_SMRTE_PATHWAY
BIOCARTA_MAPK_PATHWAY	84	0.00515	0.000351	0.0794	0.47412	1	BIOCARTA_MAPK_PATHWAY
BIOCARTA_MCALPAIN_PATHWAY	24	-0.162	-0.00589	0.159	0.84552	1	BIOCARTA_MCALPAIN_PATHWAY
BIOCARTA_PPARA_PATHWAY	56	0.0827	0.0046	0.105	0.21566	1	BIOCARTA_PPARA_PATHWAY
BIOCARTA_ETS_PATHWAY	18	0.15	0.00474	0.181	0.20359	1	BIOCARTA_ETS_PATHWAY
BIOCARTA_MONOCYTE_PATHWAY	11	-0.53	-0.0131	0.266	0.97676	1	BIOCARTA_MONOCYTE_PATHWAY
BIOCARTA_MTOR_PATHWAY	23	-0.0322	-0.00115	0.142	0.59007	1	BIOCARTA_MTOR_PATHWAY
BIOCARTA_IGF1R_PATHWAY	23	-0.123	-0.0044	0.152	0.79088	1	BIOCARTA_IGF1R_PATHWAY
BIOCARTA_PITX2_PATHWAY	14	-0.114	-0.00318	0.203	0.71337	1	BIOCARTA_PITX2_PATHWAY
BIOCARTA_NGF_PATHWAY	17	0.0725	0.00222	0.171	0.33576	1	BIOCARTA_NGF_PATHWAY
BIOCARTA_VIP_PATHWAY	26	0.084	0.00319	0.159	0.29856	1	BIOCARTA_VIP_PATHWAY
BIOCARTA_NFAT_PATHWAY	53	-0.153	-0.00825	0.107	0.92292	1	BIOCARTA_NFAT_PATHWAY
BIOCARTA_NTHI_PATHWAY	24	0.19	0.00692	0.158	0.11441	1	BIOCARTA_NTHI_PATHWAY
BIOCARTA_NFKB_PATHWAY	21	0.278	0.00946	0.157	0.038119	1	BIOCARTA_NFKB_PATHWAY
BIOCARTA_NOS1_PATHWAY	21	0.0767	0.00261	0.185	0.33887	1	BIOCARTA_NOS1_PATHWAY
BIOCARTA_NO2IL12_PATHWAY	16	-0.311	-0.00924	0.196	0.9434	1	BIOCARTA_NO2IL12_PATHWAY
BIOCARTA_RARRXR_PATHWAY	15	-0.0409	-0.00118	0.183	0.5886	1	BIOCARTA_RARRXR_PATHWAY
BIOCARTA_NUCLEARRS_PAT...	14	-0.098	-0.00273	0.199	0.68876	1	BIOCARTA_NUCLEARRS_PATHWAY
BIOCARTA_ARENRF2_PATHWAY	13	0.163	0.00438	0.214	0.22298	1	BIOCARTA_ARENRF2_PATHWAY
BIOCARTA_P38MAPK_PATHWAY	39	-0.0712	-0.0033	0.119	0.72599	1	BIOCARTA_P38MAPK_PATHWAY
BIOCARTA_P53_PATHWAY	16	0.187	0.00557	0.204	0.17951	1	BIOCARTA_P53_PATHWAY
BIOCARTA_PDGF_PATHWAY	30	0.052	0.00212	0.142	0.35724	1	BIOCARTA_PDGF_PATHWAY

BIOCARTA_CCR5_PATHWAY	17	0.0778	0.00239	0.185	0.33705	1	BIOCARTA_CCR5_PATHWAY
BIOCARTA_PTDINS_PATHWAY	22	0.0592	0.00206	0.144	0.34095	1	BIOCARTA_PTDINS_PATHWAY
BIOCARTA_PLCE_PATHWAY	12	-0.307	-0.0079	0.258	0.88299	1	BIOCARTA_PLCE_PATHWAY
BIOCARTA_EDG1_PATHWAY	26	-0.105	-0.004	0.148	0.76233	1	BIOCARTA_EDG1_PATHWAY
BIOCARTA_CDK5_PATHWAY	11	-0.398	-0.00983	0.235	0.95481	1	BIOCARTA_CDK5_PATHWAY
BIOCARTA_MYOSIN_PATHWAY	29	0.0768	0.00307	0.139	0.29025	1	BIOCARTA_MYOSIN_PATHWAY
BIOCARTA_PLATELETAPP_P...	11	-0.141	-0.00348	0.239	0.72259	1	BIOCARTA_PLATELETAPP_PATHWAY
BIOCARTA_PS1_PATHWAY	13	-0.244	-0.00654	0.221	0.86474	1	BIOCARTA_PS1_PATHWAY
BIOCARTA_PROTEASOME_PA...	26	0.105	0.00399	0.148	0.23872	1	BIOCARTA_PROTEASOME_PATHWAY
BIOCARTA_AKAPCENTROSOM...	15	0.0651	0.00188	0.197	0.37035	1	BIOCARTA_AKAPCENTROSOME_PATHWAY
BIOCARTA_PTEN_PATHWAY	18	-0.0716	-0.00226	0.162	0.67069	1	BIOCARTA_PTEN_PATHWAY
BIOCARTA_RAB_PATHWAY	11	-0.224	-0.00552	0.246	0.81819	1	BIOCARTA_RAB_PATHWAY
BIOCARTA_RAC1_PATHWAY	23	-0.24	-0.00855	0.159	0.93405	1	BIOCARTA_RAC1_PATHWAY
BIOCARTA_RAS_PATHWAY	21	0.109	0.00372	0.159	0.2462	1	BIOCARTA_RAS_PATHWAY
BIOCARTA_NKCELLS_PATHWAY	20	0.274	0.0091	0.186	0.07092	1	BIOCARTA_NKCELLS_PATHWAY
BIOCARTA_RB_PATHWAY	13	0.0693	0.00186	0.206	0.36835	1	BIOCARTA_RB_PATHWAY
BIOCARTA_CHREBP2_PATHWAY	41	-0.0819	-0.00389	0.115	0.76119	1	BIOCARTA_CHREBP2_PATHWAY
BIOCARTA_BAD_PATHWAY	25	0.0456	0.0017	0.153	0.3825	1	BIOCARTA_BAD_PATHWAY
BIOCARTA_CK1_PATHWAY	17	-0.182	-0.00559	0.193	0.82815	1	BIOCARTA_CK1_PATHWAY
BIOCARTA_EIF2_PATHWAY	10	0.256	0.00603	0.222	0.12441	1	BIOCARTA_EIF2_PATHWAY
BIOCARTA_EIF4_PATHWAY	24	-0.0788	-0.00287	0.146	0.70471	1	BIOCARTA_EIF4_PATHWAY
BIOCARTA_STEM_PATHWAY	15	0.0862	0.00248	0.196	0.3297	1	BIOCARTA_STEM_PATHWAY
BIOCARTA_P27_PATHWAY	13	0.269	0.0072	0.21	0.10057	1	BIOCARTA_P27_PATHWAY
BIOCARTA_PGC1A_PATHWAY	23	0.192	0.00683	0.166	0.12379	1	BIOCARTA_PGC1A_PATHWAY
BIOCARTA_PML_PATHWAY	17	-0.0122	-0.000375	0.173	0.52818	1	BIOCARTA_PML_PATHWAY
BIOCARTA_DREAM_PATHWAY	14	-0.0459	-0.00128	0.219	0.58295	1	BIOCARTA_DREAM_PATHWAY
BIOCARTA_LEPTIN_PATHWAY	11	-0.152	-0.00376	0.231	0.74577	1	BIOCARTA_LEPTIN_PATHWAY
BIOCARTA_RHO_PATHWAY	29	-0.131	-0.00524	0.143	0.81907	1	BIOCARTA_RHO_PATHWAY
BIOCARTA_AKAP13_PATHWAY	12	0.293	0.00756	0.247	0.11753	1	BIOCARTA_AKAP13_PATHWAY
BIOCARTA_ATRBRCA_PATHWAY	21	-0.166	-0.00564	0.175	0.82728	1	BIOCARTA_ATRBRCA_PATHWAY
BIOCARTA_HER2_PATHWAY	22	-0.205	-0.00714	0.155	0.90601	1	BIOCARTA_HER2_PATHWAY
BIOCARTA_ERK5_PATHWAY	18	0.0892	0.00282	0.159	0.28739	1	BIOCARTA_ERK5_PATHWAY
BIOCARTA_MAL_PATHWAY	19	-0.217	-0.00702	0.154	0.92058	1	BIOCARTA_MAL_PATHWAY

BIOCARTA_MEF2D_PATHWAY	20	-0.0852	-0.00283	0.188	0.67525	1	BIOCARTA_MEF2D_PATHWAY
BIOCARTA_MITOCHONDRIA_...	19	-0.0494	-0.0016	0.17	0.61429	1	BIOCARTA_MITOCHONDRIA_PATHWAY
BIOCARTA_ACH_PATHWAY	16	-0.0434	-0.00129	0.196	0.58768	1	BIOCARTA_ACH_PATHWAY
BIOCARTA_PARKIN_PATHWAY	12	0.133	0.00344	0.239	0.28873	1	BIOCARTA_PARKIN_PATHWAY
BIOCARTA_CDC42RAC_PATHWAY	16	-0.0274	-0.000816	0.185	0.55891	1	BIOCARTA_CDC42RAC_PATHWAY
BIOCARTA_RANMS_PATHWAY	10	0.0693	0.00163	0.305	0.41022	1	BIOCARTA_RANMS_PATHWAY
BIOCARTA_BARR_MAPK_PAT...	12	-0.312	-0.00804	0.216	0.92572	1	BIOCARTA_BARR_MAPK_PATHWAY
BIOCARTA_TOB1_PATHWAY	21	-0.201	-0.00685	0.177	0.87215	1	BIOCARTA_TOB1_PATHWAY
BIOCARTA_BARRESTIN_SRC...	15	-0.354	-0.0102	0.198	0.96334	1	BIOCARTA_BARRESTIN_SRC_PATHWAY
BIOCARTA_NKT_PATHWAY	27	-0.043	-0.00166	0.159	0.60632	1	BIOCARTA_NKT_PATHWAY
BIOCARTA_IL1R_PATHWAY	32	0.126	0.00529	0.132	0.1696	1	BIOCARTA_IL1R_PATHWAY
BIOCARTA_MET_PATHWAY	36	-0.0747	-0.00333	0.133	0.71208	1	BIOCARTA_MET_PATHWAY
BIOCARTA_GPCR_PATHWAY	32	-0.108	-0.00452	0.135	0.78748	1	BIOCARTA_GPCR_PATHWAY
BIOCARTA_IGF1MTOR_PATHWAY	19	0.0573	0.00186	0.172	0.3695	1	BIOCARTA_IGF1MTOR_PATHWAY
BIOCARTA_SODD_PATHWAY	10	-0.159	-0.00374	0.241	0.74483	1	BIOCARTA_SODD_PATHWAY
BIOCARTA_SHH_PATHWAY	16	0.133	0.00397	0.217	0.26966	1	BIOCARTA_SHH_PATHWAY
BIOCARTA_PTC1_PATHWAY	11	0.163	0.00403	0.217	0.22589	1	BIOCARTA_PTC1_PATHWAY
BIOCARTA_SPRY_PATHWAY	17	-0.0306	-0.000939	0.19	0.5642	1	BIOCARTA_SPRY_PATHWAY
BIOCARTA_BARRESTIN_PAT...	10	-0.0879	-0.00207	0.212	0.66068	1	BIOCARTA_BARRESTIN_PATHWAY
BIOCARTA_STATHMIN_PATHWAY	19	0.0969	0.00314	0.193	0.30813	1	BIOCARTA_STATHMIN_PATHWAY
BIOCARTA_HSP27_PATHWAY	15	-0.159	-0.00459	0.196	0.79242	1	BIOCARTA_HSP27_PATHWAY
BIOCARTA_TCR_PATHWAY	45	0.0416	0.00207	0.112	0.35475	1	BIOCARTA_TCR_PATHWAY
BIOCARTA_TCYTOTOXIC_PA...	14	-0.262	-0.00728	0.226	0.87605	1	BIOCARTA_TCYTOTOXIC_PATHWAY
BIOCARTA_THELPER_PATHWAY	14	-0.311	-0.00865	0.227	0.9149	1	BIOCARTA_THELPER_PATHWAY
BIOCARTA_TALL1_PATHWAY	15	0.212	0.0061	0.207	0.15358	1	BIOCARTA_TALL1_PATHWAY
BIOCARTA_TEL_PATHWAY	18	-0.154	-0.00487	0.187	0.79563	1	BIOCARTA_TEL_PATHWAY
BIOCARTA_TGFB_PATHWAY	19	-0.285	-0.00922	0.178	0.94488	1	BIOCARTA_TGFB_PATHWAY
BIOCARTA_TH1TH2_PATHWAY	17	-0.0553	-0.0017	0.189	0.61538	1	BIOCARTA_TH1TH2_PATHWAY
BIOCARTA_41BB_PATHWAY	17	0.359	0.011	0.181	0.023284	1	BIOCARTA_41BB_PATHWAY
BIOCARTA_KREB_PATHWAY	8	-0.0969	-0.00204	0.296	0.62826	1	BIOCARTA_KREB_PATHWAY
BIOCARTA_CTLA4_PATHWAY	20	-0.151	-0.00501	0.181	0.79694	1	BIOCARTA_CTLA4_PATHWAY
BIOCARTA_LONGEVITY_PAT...	15	0.0396	0.00114	0.183	0.41425	1	BIOCARTA_LONGEVITY_PATHWAY
BIOCARTA_SARS_PATHWAY	10	-0.0313	-0.000737	0.247	0.55039	1	BIOCARTA_SARS_PATHWAY

BIOCARTA_PAR1_PATHWAY	35	0.064	0.00281	0.129	0.31055	1	BIOCARTA_PAR1_PATHWAY
BIOCARTA_STRESS_PATHWAY	24	0.217	0.00789	0.147	0.069708	1	BIOCARTA_STRESS_PATHWAY
BIOCARTA_TNFR1_PATHWAY	29	-0.22	-0.00882	0.146	0.93469	1	BIOCARTA_TNFR1_PATHWAY
BIOCARTA_TOLL_PATHWAY	33	0.0768	0.00328	0.118	0.25698	1	BIOCARTA_TOLL_PATHWAY
BIOCARTA_TPO_PATHWAY	24	0.129	0.00471	0.147	0.18933	1	BIOCARTA_TPO_PATHWAY
BIOCARTA_CREB_PATHWAY	27	-0.00696	-0.000269	0.146	0.51901	1	BIOCARTA_CREB_PATHWAY
BIOCARTA_CARM1_PATHWAY	13	0.07	0.00188	0.212	0.37045	1	BIOCARTA_CARM1_PATHWAY
BIOCARTA_TFF_PATHWAY	21	-0.191	-0.0065	0.162	0.88102	1	BIOCARTA_TFF_PATHWAY
BIOCARTA_TRKA_PATHWAY	12	0.151	0.00389	0.185	0.20797	1	BIOCARTA_TRKA_PATHWAY
BIOCARTA_ARF_PATHWAY	17	-0.0177	-0.000542	0.181	0.5389	1	BIOCARTA_ARF_PATHWAY
BIOCARTA_UCALPAIN_PATHWAY	18	-0.149	-0.0047	0.176	0.80073	1	BIOCARTA_UCALPAIN_PATHWAY
BIOCARTA_VEGF_PATHWAY	27	0.228	0.0088	0.145	0.057763	1	BIOCARTA_VEGF_PATHWAY
BIOCARTA_VITCB_PATHWAY	9	0.651	0.0145	0.318	0.020267	1	BIOCARTA_VITCB_PATHWAY
BIOCARTA_WNT_PATHWAY	25	-0.338	-0.0126	0.156	0.98463	1	BIOCARTA_WNT_PATHWAY
BIOCARTA_ACTINY_PATHWAY	19	-0.0392	-0.00127	0.186	0.58326	1	BIOCARTA_ACTINY_PATHWAY
ST_INTERFERON_GAMMA_PA...	10	0.278	0.00654	0.244	0.12753	1	ST_INTERFERON_GAMMA_PATHWAY
ST_WNT_CA2_CYCLIC_GMP_...	20	0.095	0.00316	0.161	0.27753	1	ST_WNT_CA2_CYCLIC_GMP_PATHWAY
ST_DIFFERENTIATION_PAT...	41	-0.0363	-0.00173	0.115	0.62426	1	ST_DIFFERENTIATION_PATHWAY_IN_PC12_CELLS
ST_TUMOR_NECROSIS_FACT...	28	0.00865	0.00034	0.143	0.47586	1	ST_TUMOR_NECROSIS_FACTOR_PATHWAY
SA_B_CELL_RECEPTOR_COM...	22	0.0484	0.00169	0.157	0.37898	1	SA_B_CELL_RECEPTOR_COMPLEXES
ST_ERK1_ERK2_MAPK_PATHWAY	29	-0.0379	-0.00152	0.137	0.60915	1	ST_ERK1_ERK2_MAPK_PATHWAY
SIG_CD40PATHWAYMAP	33	-0.228	-0.00974	0.133	0.9564	1	SIG_CD40PATHWAYMAP
SIG_PIP3_SIGNALING_IN_...	63	0.0403	0.00238	0.0932	0.33273	1	SIG_PIP3_SIGNALING_IN_CARDIAC_MYOCYTES
SA_CASPASE_CASCADE	18	-0.0662	-0.00209	0.187	0.63852	1	SA_CASPASE_CASCADE
ST_GA12_PATHWAY	21	-0.126	-0.00429	0.161	0.78242	1	ST_GA12_PATHWAY
ST_G_ALPHA_S_PATHWAY	15	-0.171	-0.00493	0.166	0.84832	1	ST_G_ALPHA_S_PATHWAY
ST_G_ALPHA_I_PATHWAY	35	0.15	0.00657	0.125	0.11659	1	ST_G_ALPHA_I_PATHWAY
SIG_CHEMOTAXIS	40	0.00425	0.0002	0.117	0.48545	1	SIG_CHEMOTAXIS
ST_IL_13_PATHWAY	5	0.737	0.0123	0.365	0.021623	1	ST_IL_13_PATHWAY
ST_P38_MAPK_PATHWAY	35	0.0475	0.00209	0.126	0.35297	1	ST_P38_MAPK_PATHWAY
SIG_IL4RECEPTOR_IN_B_L...	27	-0.0688	-0.00266	0.139	0.68949	1	SIG_IL4RECEPTOR_IN_B_LYPHOCYTES
WNT_SIGNALING	86	-0.114	-0.00785	0.0875	0.90364	1	WNT_SIGNALING
ST_JAK_STAT_PATHWAY	9	0.218	0.00488	0.218	0.15832	1	ST_JAK_STAT_PATHWAY

SIG_REGULATION_OF_THE_...	31	-0.0628	-0.0026	0.13	0.68483	1	SIG_REGULATION_OF_THE_ACTIN_CYTOSKELETON_BY_R
ST_GRANULE_CELL_SURVIV...	26	-0.0364	-0.00138	0.15	0.59623	1	HO_GTPASES
ST_ADRENERGIC	33	-0.00202	-8.62E-05	0.137	0.50587	1	ST_GRANULE_CELL_SURVIVAL_PATHWAY
ST_INTEGRIN_SIGNALING_...	79	-0.0205	-0.00135	0.0834	0.5972	1	ST_ADRENERGIC
ST_GAQ_PATHWAY	26	0.0933	0.00354	0.152	0.26921	1	ST_INTEGRIN_SIGNALING_PATHWAY
ST_GA13_PATHWAY	35	-0.0752	-0.00331	0.134	0.7123	1	ST_GAQ_PATHWAY
ST_STAT3_PATHWAY	11	0.201	0.00495	0.23	0.19195	1	ST_GA13_PATHWAY
SA_FAS_SIGNALING	9	0.152	0.0034	0.248	0.26933	1	ST_STAT3_PATHWAY
SA_G1_AND_S_PHASES	15	-0.246	-0.00709	0.189	0.90382	1	SA_FAS_SIGNALING
							SA_G1_AND_S_PHASES
							SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCY
SIG_INSULIN_RECEPTOR_P...	48	-0.0448	-0.00231	0.114	0.65301	1	TES
ST_T_CELL_SIGNAL_TRANS...	44	0.0111	0.000545	0.115	0.46171	1	SIG_INSULIN_RECEPTOR_PATHWAY_IN_CARDIAC_MYOCY
ST_TYPE_I_INTERFERON_P...	9	0.234	0.00523	0.283	0.20341	1	ST_T_CELL_SIGNAL_TRANSDUCTION
ST_PAC1_RECEPTOR_PATHWAY	6	0.207	0.00377	0.299	0.24492	1	ST_TYPE_I_INTERFERON_PATHWAY
SIG_PIP3_SIGNALING_IN_...	34	-0.0618	-0.00268	0.135	0.67592	1	ST_PAC1_RECEPTOR_PATHWAY
SIG_BCR_SIGNALING_PATHWAY	44	-0.107	-0.00529	0.11	0.83583	1	SIG_PIP3_SIGNALING_IN_B_LYMPHOCYTES
SA_G2_AND_M_PHASES	8	0.399	0.00839	0.264	0.065209	1	SIG_BCR_SIGNALING_PATHWAY
ST_B_CELL_ANTIGEN_RECE...	39	-0.0378	-0.00175	0.114	0.62987	1	SA_G2_AND_M_PHASES
ST_INTERLEUKIN_4_PATHWAY	23	0.0797	0.00284	0.138	0.28198	1	ST_B_CELL_ANTIGEN_RECEPTOR
ST_WNT_BETA_CATENIN_PA...	34	-0.302	-0.0131	0.136	0.98697	1	ST_INTERLEUKIN_4_PATHWAY
SA_MMP_CYTOKINE_CONNEC...	15	-0.17	-0.00491	0.215	0.78655	1	ST_WNT_BETA_CATENIN_PATHWAY
ST_JNK_MAPK_PATHWAY	39	-0.0265	-0.00123	0.115	0.59118	1	SA_MMP_CYTOKINE_CONNECTION
SA_PROGRAMMED_CELL_DEATH	12	0.252	0.00649	0.226	0.13222	1	ST_JNK_MAPK_PATHWAY
ST_FAS_SIGNALING_PATHWAY	63	-0.16	-0.00944	0.099	0.94714	1	SA_PROGRAMMED_CELL_DEATH
ST_MYOCYTE_AD_PATHWAY	26	0.149	0.00566	0.144	0.15014	1	ST_FAS_SIGNALING_PATHWAY
SA_PTEN_PATHWAY	17	0.0952	0.00292	0.168	0.28519	1	ST_MYOCYTE_AD_PATHWAY
SA_REG_CASCADE_OF_CYCL...	13	0.141	0.00379	0.185	0.22249	1	SA_PTEN_PATHWAY
SA_TRKA_RECEPTOR	16	-0.0368	-0.00109	0.182	0.57994	1	SA_REG_CASCADE_OF_CYCLIN_EXPR
ST_PHOSPHOINOSITIDE_3_...	34	0.0804	0.00348	0.123	0.25597	1	SA_TRKA_RECEPTOR
PID_FANCONI_PATHWAY	46	-0.108	-0.00542	0.112	0.83152	1	ST_PHOSPHOINOSITIDE_3_KINASE_PATHWAY
PID_SMAD2_3NUCLEAR_PAT...	76	-0.0331	-0.00214	0.0913	0.6413	1	PID_FANCONI_PATHWAY
PID_FCER1_PATHWAY	58	0.0972	0.0055	0.0956	0.15468	1	PID_SMAD2_3NUCLEAR_PATHWAY
							PID_FCER1_PATHWAY



PID_ENDOTHELIN_PATHWAY	62	0.0244	0.00143	0.104	0.40763	1	PID_ENDOTHELIN_PATHWAY
PID_BCR_5PATHWAY	61	0.139	0.00807	0.0942	0.069748	1	PID_BCR_5PATHWAY
PID_PRL_SIGNALING_EVEN...	23	-0.148	-0.00529	0.154	0.83296	1	PID_PRL_SIGNALING_EVENTS_PATHWAY
PID_RHOA_PATHWAY	44	-0.0595	-0.00293	0.117	0.69438	1	PID_RHOA_PATHWAY
PID_ERBB4_PATHWAY	38	0.0464	0.00212	0.128	0.35873	1	PID_ERBB4_PATHWAY
PID_AURORA_B_PATHWAY	38	-0.0496	-0.00227	0.125	0.65407	1	PID_AURORA_B_PATHWAY
PID_LYSOPHOSPHOLIPID_P...	65	-0.0377	-0.00226	0.0954	0.6537	1	PID_LYSOPHOSPHOLIPID_PATHWAY
PID_INSULIN_PATHWAY	44	-0.114	-0.00559	0.118	0.83226	1	PID_INSULIN_PATHWAY
PID_NOTCH_PATHWAY	59	0.000627	3.58E-05	0.0966	0.49741	1	PID_NOTCH_PATHWAY
PID_INTEGRIN1_PATHWAY	64	-0.0278	-0.00165	0.107	0.60253	1	PID_INTEGRIN1_PATHWAY
PID_P73PATHWAY	78	-0.014	-0.000917	0.0816	0.56803	1	PID_P73PATHWAY
PID_P38_MKK3_6PATHWAY	26	0.232	0.00878	0.157	0.070419	1	PID_P38_MKK3_6PATHWAY
PID_GMCSF_PATHWAY	35	0.0244	0.00107	0.124	0.42196	1	PID_GMCSF_PATHWAY
PID_WNT_NONCANONICAL_P...	31	-0.0268	-0.00111	0.133	0.5796	1	PID_WNT_NONCANONICAL_PATHWAY
PID_IL4_2PATHWAY	57	0.0975	0.00547	0.103	0.17077	1	PID_IL4_2PATHWAY
PID_HDAC_CLASSII_PATHWAY	31	-0.0977	-0.00404	0.133	0.76933	1	PID_HDAC_CLASSII_PATHWAY
PID_BETA_CATENIN_DEG_P...	18	-0.338	-0.0107	0.173	0.97499	1	PID_BETA_CATENIN_DEG_PATHWAY
PID_HDAC_CLASSIII_PATHWAY	24	-0.146	-0.0053	0.157	0.82379	1	PID_HDAC_CLASSIII_PATHWAY
PID_GLYPICAN_1PATHWAY	27	-0.0825	-0.00319	0.151	0.70823	1	PID_GLYPICAN_1PATHWAY
PID_TCR_PATHWAY	61	0.153	0.00888	0.0908	0.045795	1	PID_TCR_PATHWAY
PID_IL27_PATHWAY	26	-0.144	-0.00545	0.153	0.82594	1	PID_IL27_PATHWAY
PID_NFKAPPAB_CANONICAL...	22	0.318	0.0111	0.161	0.024188	1	PID_NFKAPPAB_CANONICAL_PATHWAY
PID_E2F_PATHWAY	70	0.0423	0.00263	0.0921	0.32305	1	PID_E2F_PATHWAY
PID_ER_NONGENOMIC_PATHWAY	40	-0.207	-0.00974	0.113	0.96691	1	PID_ER_NONGENOMIC_PATHWAY
PID_DNA_PK_PATHWAY	16	0.299	0.00889	0.198	0.066146	1	PID_DNA_PK_PATHWAY
PID_HIF2PATHWAY	32	0.217	0.00914	0.133	0.051547	1	PID_HIF2PATHWAY
PID_CD40_PATHWAY	30	0.139	0.00564	0.145	0.17041	1	PID_CD40_PATHWAY
PID_ATR_PATHWAY	39	-0.148	-0.00686	0.116	0.89831	1	PID_ATR_PATHWAY
PID_INTEGRIN_CS_PATHWAY	26	-0.0338	-0.00128	0.155	0.58599	1	PID_INTEGRIN_CS_PATHWAY
PID_MET_PATHWAY	78	0.0685	0.00449	0.0839	0.20725	1	PID_MET_PATHWAY
PID_PTP1B_PATHWAY	52	0.0949	0.00508	0.108	0.19016	1	PID_PTP1B_PATHWAY
PID_INTEGRIN3_PATHWAY	40	0.2	0.00942	0.136	0.070219	1	PID_INTEGRIN3_PATHWAY

PID_IL12_2PATHWAY	61	-0.0706	-0.0041	0.104	0.7509	1	PID_IL12_2PATHWAY
PID_S1P_S1P3_PATHWAY	29	0.175	0.007	0.149	0.12095	1	PID_S1P_S1P3_PATHWAY
PID_LPA4_PATHWAY	14	-0.124	-0.00346	0.219	0.71486	1	PID_LPA4_PATHWAY
PID_AR_PATHWAY	58	-0.108	-0.0061	0.0988	0.86246	1	PID_AR_PATHWAY
PID_NFAT_TFPATHWAY	43	0.0633	0.00309	0.117	0.29346	1	PID_NFAT_TFPATHWAY
PID_EPHB_FWD_PATHWAY	39	-0.0154	-0.000715	0.118	0.55201	1	PID_EPHB_FWD_PATHWAY
PID_AVB3_OPN_PATHWAY	31	0.143	0.00593	0.138	0.14991	1	PID_AVB3_OPN_PATHWAY
PID_S1P_S1P4_PATHWAY	14	0.0754	0.0021	0.19	0.34617	1	PID_S1P_S1P4_PATHWAY
PID_FRA_PATHWAY	35	0.103	0.00453	0.126	0.20751	1	PID_FRA_PATHWAY
PID_MYC_ACTIV_PATHWAY	77	0.0172	0.00112	0.0886	0.42302	1	PID_MYC_ACTIV_PATHWAY
PID_ARF6_TRAFFICKING_P...	48	-0.14	-0.0072	0.115	0.88721	1	PID_ARF6_TRAFFICKING_PATHWAY
PID_RHOA_REG_PATHWAY	42	-0.0193	-0.000928	0.121	0.56335	1	PID_RHOA_REG_PATHWAY
PID_REELIN_PATHWAY	29	-0.136	-0.00544	0.145	0.82628	1	PID_REELIN_PATHWAY
PID_PS1_PATHWAY	45	-0.0343	-0.00171	0.114	0.61781	1	PID_PS1_PATHWAY
PID_ILK_PATHWAY	44	0.0621	0.00306	0.107	0.28094	1	PID_ILK_PATHWAY
PID_NECTIN_PATHWAY	30	-0.00211	-8.58E-05	0.14	0.506	1	PID_NECTIN_PATHWAY
PID_P38_ALPHA_BETA_PAT...	30	-0.00544	-0.000221	0.14	0.51553	1	PID_P38_ALPHA_BETA_PATHWAY
PID_WNT_SIGNALING_PATHWAY	26	-0.166	-0.0063	0.153	0.86175	1	PID_WNT_SIGNALING_PATHWAY
PID_TRAIL_PATHWAY	27	0.303	0.0117	0.154	0.024483	1	PID_TRAIL_PATHWAY
PID_CDC42_PATHWAY	69	-0.0874	-0.00539	0.0932	0.82575	1	PID_CDC42_PATHWAY
PID_RET_PATHWAY	39	-0.0277	-0.00128	0.124	0.58859	1	PID_RET_PATHWAY
PID_CDC42_REG_PATHWAY	25	0.185	0.00687	0.145	0.10064	1	PID_CDC42_REG_PATHWAY
PID_ATM_PATHWAY	33	0.106	0.00453	0.126	0.20041	1	PID_ATM_PATHWAY
PID_ARF6_PATHWAY	35	0.205	0.00901	0.136	0.065444	1	PID_ARF6_PATHWAY
PID_LKB1_PATHWAY	46	0.169	0.00849	0.109	0.06178	1	PID_LKB1_PATHWAY
PID_CD8_TCR_PATHWAY	52	0.142	0.00759	0.101	0.080892	1	PID_CD8_TCR_PATHWAY
PID_WNT_CANONICAL_PATHWAY	20	-0.475	-0.0158	0.157	0.99872	1	PID_WNT_CANONICAL_PATHWAY
PID_TCPTP_PATHWAY	43	-0.106	-0.00515	0.119	0.81231	1	PID_TCPTP_PATHWAY
PID_ANGIOPOIETIN_RECEP...	48	-0.086	-0.00443	0.108	0.78609	1	PID_ANGIOPOIETIN_RECEPTOR_PATHWAY
PID_FAS_PATHWAY	36	0.21	0.00937	0.137	0.061905	1	PID_FAS_PATHWAY
PID_CIRCADIAN_PATHWAY	15	-0.175	-0.00505	0.209	0.79965	1	PID_CIRCADIAN_PATHWAY
PID_TXA2PATHWAY	56	0.122	0.00681	0.107	0.12594	1	PID_TXA2PATHWAY

PID_SHP2_PATHWAY	57	0.0117	0.000655	0.102	0.45441	1	PID_SHP2_PATHWAY
PID_HDAC_CLASSI_PATHWAY	62	-0.0439	-0.00257	0.0939	0.67988	1	PID_HDAC_CLASSI_PATHWAY
PID_S1P_S1P1_PATHWAY	21	0.194	0.0066	0.16	0.11286	1	PID_S1P_S1P1_PATHWAY
PID_TELOMERASE_PATHWAY	66	0.143	0.00863	0.0969	0.069936	1	PID_TELOMERASE_PATHWAY
PID_HNF3B_PATHWAY	44	0.101	0.005	0.113	0.18563	1	PID_HNF3B_PATHWAY
PID_NETRIN_PATHWAY	32	-0.0171	-0.000721	0.135	0.55063	1	PID_NETRIN_PATHWAY
PID_NFAT_3PATHWAY	54	0.0784	0.00428	0.111	0.23997	1	PID_NFAT_3PATHWAY
PID_REG_GR_PATHWAY	81	0.0979	0.00654	0.0839	0.12165	1	PID_REG_GR_PATHWAY
PID_INTEGRIN_A9B1_PATHWAY	22	-0.0952	-0.00332	0.175	0.70647	1	PID_INTEGRIN_A9B1_PATHWAY
PID_ERB_GENOMIC_PATHWAY	14	0.0391	0.00109	0.206	0.42483	1	PID_ERB_GENOMIC_PATHWAY
PID_ARF6_DOWNSTREAM_PA...	15	0.00884	0.000255	0.213	0.48343	1	PID_ARF6_DOWNSTREAM_PATHWAY
PID_MTOR_4PATHWAY	68	0.0898	0.0055	0.087	0.15104	1	PID_MTOR_4PATHWAY
PID_IL2_1PATHWAY	54	-0.00103	-5.61E-05	0.106	0.50388	1	PID_IL2_1PATHWAY
PID_CXCR4_PATHWAY	99	0.0156	0.00115	0.0744	0.41687	1	PID_CXCR4_PATHWAY
PID_IGF1_PATHWAY	30	-0.237	-0.00965	0.135	0.96023	1	PID_IGF1_PATHWAY
PID_ERBB1_RECEPTOR_PRO...	35	-0.0412	-0.00181	0.117	0.63804	1	PID_ERBB1_RECEPTOR_PROXIMAL_PATHWAY
PID_TNF_PATHWAY	44	0.115	0.00568	0.108	0.14265	1	PID_TNF_PATHWAY
PID_PLK1_PATHWAY	44	-0.0314	-0.00155	0.105	0.61749	1	PID_PLK1_PATHWAY
PID_TCR_RAS_PATHWAY	13	-0.352	-0.00943	0.205	0.95687	1	PID_TCR_RAS_PATHWAY
PID_IL5_PATHWAY	14	-0.0282	-0.000785	0.213	0.55256	1	PID_IL5_PATHWAY
PID_FOXO_PATHWAY	48	0.227	0.0117	0.113	0.021816	1	PID_FOXO_PATHWAY
PID_VEGF_VEGFR_PATHWAY	9	0.239	0.00534	0.291	0.20584	1	PID_VEGF_VEGFR_PATHWAY
PID_THROMBIN_PAR4_PATHWAY	15	-0.0686	-0.00198	0.196	0.63664	1	PID_THROMBIN_PAR4_PATHWAY
PID_MYC_PATHWAY	25	-0.153	-0.00569	0.142	0.86025	1	PID_MYC_PATHWAY
PID_RANBP2_PATHWAY	11	-0.21	-0.00518	0.208	0.84421	1	PID_RANBP2_PATHWAY
PID_PI3KCI_PATHWAY	47	-0.171	-0.00869	0.108	0.94366	1	PID_PI3KCI_PATHWAY
PID_AJDISS_2PATHWAY	47	0.11	0.00559	0.128	0.19497	1	PID_AJDISS_2PATHWAY
PID_IL2_PI3K_PATHWAY	33	0.085	0.00363	0.118	0.23536	1	PID_IL2_PI3K_PATHWAY
PID_CERAMIDE_PATHWAY	46	-0.0221	-0.00111	0.108	0.581	1	PID_CERAMIDE_PATHWAY
PID_P53_DOWNSTREAM_PAT...	135	-0.0149	-0.00128	0.0655	0.58992	1	PID_P53_DOWNSTREAM_PATHWAY
PID_AR_TF_PATHWAY	50	-0.11	-0.00575	0.107	0.8475	1	PID_AR_TF_PATHWAY
PID_P75_NTR_PATHWAY	62	0.145	0.0085	0.0936	0.060258	1	PID_P75_NTR_PATHWAY
PID_S1P_META_PATHWAY	21	0.0902	0.00307	0.179	0.30749	1	PID_S1P_META_PATHWAY

PID_ECADHERIN_NASCENT_...	39	0.0415	0.00193	0.129	0.37347	1	PID_ECADHERIN_NASCENT_AJ_PATHWAY
PID_INTEGRIN4_PATHWAY	11	0.272	0.0067	0.261	0.14881	1	PID_INTEGRIN4_PATHWAY
PID_AMB2_NEUTROPHILS_P...	41	-0.218	-0.0104	0.119	0.96612	1	PID_AMB2_NEUTROPHILS_PATHWAY
PID_AVB3_INTEGRIN_PATHWAY	73	-0.077	-0.00488	0.0908	0.8017	1	PID_AVB3_INTEGRIN_PATHWAY
PID_IFNG_PATHWAY	40	-0.0201	-0.000945	0.115	0.56937	1	PID_IFNG_PATHWAY
PID_RXR_VDR_PATHWAY	26	0.106	0.00403	0.162	0.25593	1	PID_RXR_VDR_PATHWAY
PID_LIS1_PATHWAY	27	0.2	0.00774	0.146	0.085537	1	PID_LIS1_PATHWAY
PID_ERBB1_DOWNSTREAM_P...	103	-0.0484	-0.00364	0.0723	0.74833	1	PID_ERBB1_DOWNSTREAM_PATHWAY
PID_SYNDECAN_4_PATHWAY	32	-0.0416	-0.00175	0.138	0.61871	1	PID_SYNDECAN_4_PATHWAY
PID_ATF2_PATHWAY	59	-0.138	-0.00789	0.102	0.91164	1	PID_ATF2_PATHWAY
PID_AP1_PATHWAY	69	-0.0592	-0.00365	0.0944	0.73474	1	PID_AP1_PATHWAY
PID_INTEGRIN2_PATHWAY	27	-0.139	-0.00536	0.162	0.80341	1	PID_INTEGRIN2_PATHWAY
PID_UPA_UPAR_PATHWAY	42	0.00832	0.0004	0.133	0.475	1	PID_UPA_UPAR_PATHWAY
PID_ERBB2_ERBB3_PATHWAY	44	-0.0283	-0.0014	0.109	0.60252	1	PID_ERBB2_ERBB3_PATHWAY
PID_FOXM1_PATHWAY	40	0.0173	0.000815	0.119	0.44183	1	PID_FOXM1_PATHWAY
PID_EPHA_FWDPATHWAY	34	0.24	0.0104	0.138	0.040945	1	PID_EPHA_FWDPATHWAY
PID_HIF1A_PATHWAY	18	0.0905	0.00286	0.189	0.31589	1	PID_HIF1A_PATHWAY
PID_BMP_PATHWAY	40	-0.0342	-0.00161	0.13	0.60359	1	PID_BMP_PATHWAY
PID_IL3_PATHWAY	25	0.0484	0.0018	0.144	0.36797	1	PID_IL3_PATHWAY
PID_IL6_7_PATHWAY	45	-0.0164	-0.000818	0.111	0.55863	1	PID_IL6_7_PATHWAY
PID_ECADHERIN_KERATINO...	21	0.0485	0.00165	0.162	0.38214	1	PID_ECADHERIN_KERATINOCYTE_PATHWAY
PID_ALK1_PATHWAY	26	-0.0533	-0.00202	0.142	0.64663	1	PID_ALK1_PATHWAY
PID_PDGFRB_PATHWAY	127	-0.0034	-0.000284	0.0677	0.52005	1	PID_PDGFRB_PATHWAY
PID_TRKR_PATHWAY	61	0.162	0.0094	0.0923	0.039544	1	PID_TRKR_PATHWAY
PID_TCR_JNK_PATHWAY	14	0.209	0.00583	0.196	0.14203	1	PID_TCR_JNK_PATHWAY
PID_NEPHRIN_NEPH1_PATHWAY	31	0.0792	0.00328	0.132	0.27363	1	PID_NEPHRIN_NEPH1_PATHWAY
PID_CMYB_PATHWAY	80	-0.0143	-0.00095	0.0856	0.56637	1	PID_CMYB_PATHWAY
PID_IL23_PATHWAY	37	-0.00916	-0.000414	0.137	0.52658	1	PID_IL23_PATHWAY
PID_HIV_NEF_PATHWAY	35	-0.0953	-0.00419	0.127	0.77327	1	PID_HIV_NEF_PATHWAY
PID_SYNDECAN_1_PATHWAY	43	0.0677	0.0033	0.123	0.29157	1	PID_SYNDECAN_1_PATHWAY
PID_P38_MK2_PATHWAY	21	-0.114	-0.0039	0.158	0.7656	1	PID_P38_MK2_PATHWAY
PID_ERA_GENOMIC_PATHWAY	63	-0.0198	-0.00116	0.0958	0.58171	1	PID_ERA_GENOMIC_PATHWAY
PID_ERBB_NETWORK_PATHWAY	15	0.274	0.0079	0.217	0.10338	1	PID_ERBB_NETWORK_PATHWAY

PID_ALK2_PATHWAY	11	0.146	0.00361	0.277	0.29842	1	PID_ALK2_PATHWAY
PID_RHODOPSIN_PATHWAY	22	0.0796	0.00277	0.144	0.28967	1	PID_RHODOPSIN_PATHWAY
PID_PDGFRA_PATHWAY	21	0.115	0.00393	0.151	0.22152	1	PID_PDGFRA_PATHWAY
PID_RETINOIC_ACID_PATHWAY	30	0.00807	0.000329	0.152	0.47888	1	PID_RETINOIC_ACID_PATHWAY
PID_P38_GAMMA_DELTA_PA...	11	-0.199	-0.0049	0.234	0.802	1	PID_P38_GAMMA_DELTA_PATHWAY
PID_IL8_CXCR2_PATHWAY	34	0.0364	0.00158	0.133	0.39209	1	PID_IL8_CXCR2_PATHWAY
PID_HEDGEHOG_2PATHWAY	22	0.243	0.00849	0.168	0.07338	1	PID_HEDGEHOG_2PATHWAY
PID_INTEGRIN5_PATHWAY	17	0.135	0.00414	0.197	0.24651	1	PID_INTEGRIN5_PATHWAY
PID_AR_NONGENOMIC_PATHWAY	30	-0.209	-0.00849	0.122	0.95625	1	PID_AR_NONGENOMIC_PATHWAY
PID_ERBB1_INTERNALIZAT...	40	-0.028	-0.00132	0.12	0.59258	1	PID_ERBB1_INTERNALIZATION_PATHWAY
PID_HEDGEHOG_GLI_PATHWAY	47	0.0286	0.00146	0.112	0.39899	1	PID_HEDGEHOG_GLI_PATHWAY
PID_CASPASE_PATHWAY	51	-0.0508	-0.0027	0.106	0.68485	1	PID_CASPASE_PATHWAY
PID_CXCR3_PATHWAY	42	-0.171	-0.00823	0.113	0.9348	1	PID_CXCR3_PATHWAY
PID_BETA_CATENIN_NUC_P...	74	-0.0421	-0.00269	0.0954	0.67043	1	PID_BETA_CATENIN_NUC_PATHWAY
PID_VEGFR1_PATHWAY	26	0.0774	0.00293	0.154	0.30759	1	PID_VEGFR1_PATHWAY
PID_SMAD2_3PATHWAY	17	-0.154	-0.00472	0.187	0.79454	1	PID_SMAD2_3PATHWAY
PID_P38_ALPHA_BETA_DOW...	37	-0.0728	-0.00329	0.123	0.72343	1	PID_P38_ALPHA_BETA_DOWNSTREAM_PATHWAY
PID_KIT_PATHWAY	52	0.0327	0.00175	0.109	0.38234	1	PID_KIT_PATHWAY
PID_ECADHERIN_STABILIZ...	42	-0.0199	-0.000957	0.121	0.56504	1	PID_ECADHERIN_STABILIZATION_PATHWAY
PID_EPO_PATHWAY	32	0.0971	0.00408	0.132	0.23029	1	PID_EPO_PATHWAY
PID_IL2_STAT5_PATHWAY	28	0.177	0.00698	0.135	0.093632	1	PID_IL2_STAT5_PATHWAY
PID_TCR_CALCIIUM_PATHWAY	28	0.0264	0.00104	0.156	0.43282	1	PID_TCR_CALCIIUM_PATHWAY
PID_DELTA_NP63_PATHWAY	46	0.00196	9.87E-05	0.109	0.49283	1	PID_DELTA_NP63_PATHWAY
PID_VEGFR1_2_PATHWAY	69	-0.117	-0.00719	0.0946	0.89095	1	PID_VEGFR1_2_PATHWAY
PID_THROMBIN_PAR1_PATHWAY	43	-0.0309	-0.00151	0.118	0.60296	1	PID_THROMBIN_PAR1_PATHWAY
PID_A6B1_A6B4_INTEGRIN...	46	0.135	0.00683	0.118	0.12619	1	PID_A6B1_A6B4_INTEGRIN_PATHWAY
PID_SYNDECAN_2_PATHWAY	32	0.0842	0.00354	0.139	0.27197	1	PID_SYNDECAN_2_PATHWAY
PID_RAC1_REG_PATHWAY	36	0.22	0.00983	0.136	0.052377	1	PID_RAC1_REG_PATHWAY
PID_AURORA_A_PATHWAY	31	-0.0837	-0.00347	0.128	0.74284	1	PID_AURORA_A_PATHWAY
PID_ARF_3PATHWAY	19	-0.244	-0.00791	0.157	0.93968	1	PID_ARF_3PATHWAY
PID_INSULIN_GLUCOSE_PA...	26	-0.124	-0.00471	0.15	0.79565	1	PID_INSULIN_GLUCOSE_PATHWAY
PID_PI3KCI_AKT_PATHWAY	34	0.071	0.00308	0.125	0.28575	1	PID_PI3KCI_AKT_PATHWAY

PID_SYNDECAN_3_PATHWAY	16	0.0773	0.0023	0.181	0.33441	1	PID_SYNDECAN_3_PATHWAY
PID_IL8_CXCR1_PATHWAY	28	0.149	0.00586	0.146	0.15415	1	PID_IL8_CXCR1_PATHWAY
PID_MYC_REPRESS_PATHWAY	61	0.0527	0.00306	0.0958	0.29108	1	PID_MYC_REPRESS_PATHWAY
PID_HIF1_TFPATHWAY	65	0.135	0.00809	0.101	0.091182	1	PID_HIF1_TFPATHWAY
PID_TAP63_PATHWAY	54	0.0367	0.002	0.101	0.3583	1	PID_TAP63_PATHWAY
PID_EPHRINB_REV_PATHWAY	29	0.241	0.00966	0.154	0.058863	1	PID_EPHRINB_REV_PATHWAY
PID_BARD1_PATHWAY	29	0.0827	0.00331	0.143	0.28165	1	PID_BARD1_PATHWAY
PID_P53_REGULATION_PATHWAY	56	-0.0188	-0.00105	0.0972	0.5768	1	PID_P53_REGULATION_PATHWAY
PID_TOLL_ENDOGENOUS_PATHWAY	22	0.105	0.00367	0.162	0.25778	1	PID_TOLL_ENDOGENOUS_PATHWAY
PID_NCADHERIN_PATHWAY	33	0.219	0.00937	0.132	0.04834	1	PID_NCADHERIN_PATHWAY
PID_ANTHRAX_PATHWAY	17	0.0534	0.00164	0.203	0.39654	1	PID_ANTHRAX_PATHWAY
PID_S1P_S1P2_PATHWAY	23	0.168	0.00598	0.168	0.15887	1	PID_S1P_S1P2_PATHWAY
PID_RAS_PATHWAY	29	-0.222	-0.00889	0.129	0.95697	1	PID_RAS_PATHWAY
PID_MAPK_TRK_PATHWAY	33	-0.145	-0.00619	0.125	0.87706	1	PID_MAPK_TRK_PATHWAY
PID_PI3K_PLC_TRK_PATHWAY	36	-0.0312	-0.00139	0.115	0.60702	1	PID_PI3K_PLC_TRK_PATHWAY
PID_CD8_TCR_DOWNSTREAM_PATHWAY	61	-0.0844	-0.0049	0.107	0.78573	1	PID_CD8_TCR_DOWNSTREAM_PATHWAY
PID_EPHA2_FWD_PATHWAY	19	0.116	0.00375	0.172	0.2499	1	PID_EPHA2_FWD_PATHWAY
PID_LYMPH_ANGIOGENESIS_PATHWAY	24	-0.0121	-0.000442	0.149	0.53246	1	PID_LYMPH_ANGIOGENESIS_PATHWAY
PID_ALPHA_SYNUCLEIN_PATHWAY	32	-0.0882	-0.00371	0.148	0.72386	1	PID_ALPHA_SYNUCLEIN_PATHWAY
PID_FGF_PATHWAY	54	0.00392	0.000214	0.105	0.48503	1	PID_FGF_PATHWAY
PID_INTEGRIN_A4B1_PATHWAY	33	-0.132	-0.00562	0.131	0.84191	1	PID_INTEGRIN_A4B1_PATHWAY
PID_RAC1_PATHWAY	52	-0.229	-0.0123	0.112	0.97929	1	PID_RAC1_PATHWAY
PID_RB_1PATHWAY	60	-0.00588	-0.000338	0.0988	0.52372	1	PID_RB_1PATHWAY
PID_FAK_PATHWAY	57	-0.0525	-0.00294	0.101	0.69896	1	PID_FAK_PATHWAY
PID_HNF3A_PATHWAY	43	-0.0635	-0.00309	0.125	0.69405	1	PID_HNF3A_PATHWAY
PID_TGFBR_PATHWAY	54	-0.107	-0.00584	0.0999	0.85787	1	PID_TGFBR_PATHWAY
PID_HES_HEY_PATHWAY	45	-0.132	-0.00659	0.121	0.86282	1	PID_HES_HEY_PATHWAY
PID_IL12_STAT4_PATHWAY	32	0.0941	0.00396	0.155	0.27201	1	PID_IL12_STAT4_PATHWAY
REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS	13	0.0184	0.000494	0.209	0.46485	1	REACTOME_GLYCOGEN_BREAKDOWN_GLYCOGENOLYSIS
REACTOME_TRANSLATION	135	0.0432	0.00372	0.059	0.2319	1	REACTOME_TRANSLATION
REACTOME_PYRIMIDINE_CATABOLISM	12	0.00114	2.94E-05	0.246	0.49815	1	REACTOME_PYRIMIDINE_CATABOLISM

REACTOME_RNA_POL_III_T...	23	-0.103	-0.00368	0.141	0.76814	1	REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_F ROM_TYPE_2_PROMOTER
REACTOME_PYRUVATE_META...	37	0.022	0.000996	0.122	0.42833	1	REACTOME_PYRUVATE_METABOLISM_AND_CITRIC_ACID _TCA_CYCLE
REACTOME_EXTRINSIC_PAT...	13	0.178	0.00478	0.225	0.21404	1	REACTOME_EXTRINSIC_PATHWAY_FOR_APOPTOSIS
REACTOME_PTM_GAMMA_CAR...	21	-0.0608	-0.00207	0.141	0.66633	1	REACTOME_PTM_GAMMA_CARBOXYLATION_HYPUSINE_ FORMATION_AND_ARYLSULFATASE_ACTIVATION
REACTOME_APOPTOTIC_CLE...	34	-0.307	-0.0133	0.131	0.9905	1	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELLULAR_PROT EINS
REACTOME_RNA_POL_I_TRA...	19	-0.377	-0.0122	0.155	0.99244	1	REACTOME_RNA_POL_I_TRANSCRIPTION_TERMINATION REACTOME_FORMATION_OF_THE_TERNARY_COMPLEX_ AND_SUBSEQUENTLY_THE_43S_COMPLEX
REACTOME_FORMATION_OF_...	43	0.137	0.00669	0.101	0.087098	1	REACTOME_ACTIVATION_OF_THE_PRE_REPLICATIVE_CO MPLEX
REACTOME_ACTIVATION_OF...	27	-0.035	-0.00135	0.128	0.60772	1	
REACTOME_PROCESSING_OF...	13	0.0357	0.000957	0.16	0.41193	1	REACTOME_PROCESSING_OF_INTRONLESS_PRE_MRNAS
REACTOME_GAP_JUNCTION_...	10	0.0586	0.00138	0.239	0.40324	1	REACTOME_GAP_JUNCTION_DEGRADATION
REACTOME_BASE_EXCISION...	19	-0.049	-0.00159	0.158	0.62145	1	REACTOME_BASE_EXCISION_REPAIR
REACTOME_BILE_ACID_AND...	27	-0.297	-0.0115	0.138	0.98442	1	REACTOME_BILE_ACID_AND_BILE_SALT_METABOLISM REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS _VIA_7ALPHA_HYDROXYCHOLESTEROL
REACTOME_SYNTHESIS_OF_...	15	-0.0892	-0.00257	0.179	0.69074	1	
REACTOME_RECYCLING_OF_...	11	-0.498	-0.0123	0.198	0.99399	1	REACTOME_RECYCLING_OF_BILE_ACIDS_AND_SALTS
REACTOME_SIGNALING_BY_...	100	-0.0389	-0.00288	0.0796	0.68727	1	REACTOME_SIGNALING_BY_RHO_GTPASES
REACTOME_SIGNALING_BY_WNT	61	0.0254	0.00147	0.0942	0.39393	1	REACTOME_SIGNALING_BY_WNT
REACTOME_METABOLISM_OF...	46	-0.0165	-0.000831	0.105	0.56262	1	REACTOME_METABOLISM_OF_NON_CODING_RNA REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS _VIA_24_HYDROXYCHOLESTEROL
REACTOME_SYNTHESIS_OF_...	10	-0.208	-0.0049	0.235	0.81234	1	
REACTOME_SYNTHESIS_OF_...	19	-0.137	-0.00445	0.167	0.79491	1	REACTOME_SYNTHESIS_OF_BILE_ACIDS_AND_BILE_SALTS

REACTOME_METABOLISM_OF...	35	-0.0287	-0.00126	0.128	0.58895	1	REACTOME_METABOLISM_OF_STEROID_HORMONES_AND_VITAMINS_A_AND_D
REACTOME_ANDROGEN_BIOS...	10	-0.156	-0.00368	0.227	0.75492	1	REACTOME_ANDROGEN_BIOSYNTHESIS
REACTOME_SIGNALLING_BY...	201	0.0587	0.00616	0.0544	0.14033	1	REACTOME_SIGNALLING_BY_NGF
REACTOME_CTNNB1_PHOSPH...	15	-0.144	-0.00414	0.188	0.77791	1	REACTOME_CTNNB1_PHOSPHORYLATION_CASCADE
REACTOME_INSULIN_RECEP...	22	0.041	0.00143	0.168	0.40373	1	REACTOME_INSULIN_RECEPTOR_RECYCLING
REACTOME_COPI_MEDIATED...	10	-0.00984	-0.000231	0.202	0.51938	1	REACTOME_COPI_MEDIATED_TRANSPORT
REACTOME_NEF_MEDIATED_...	8	-0.43	-0.00905	0.253	0.95527	1	REACTOME_NEF_MEDIATED_DOWNREGULATION_OF_MHC_CLASS_I_COMPLEX_CELL_SURFACE_EXPRESSION
REACTOME_SIGNALING_BY_...	74	0.0314	0.00201	0.0895	0.36283	1	REACTOME_SIGNALING_BY_SCF_KIT
REACTOME_DEVELOPMENTAL...	366	-0.013	-0.00183	0.0404	0.62624	1	REACTOME_DEVELOPMENTAL_BIOLOGY
REACTOME_CROSS_PRESENT...	44	0.0561	0.00277	0.112	0.30815	1	REACTOME_CROSS_PRESENTATION_OF_SOLUBLE_EXOGENOUS_ANTIGENS_ENDOSOMES
REACTOME_SIGNALING_BY_...	17	-0.0217	-0.000665	0.164	0.5526	1	REACTOME_SIGNALING_BY_NODAL
REACTOME_DAG_AND_IP3_S...	31	0.148	0.00614	0.146	0.15534	1	REACTOME_DAG_AND_IP3_SIGNALING
REACTOME_SPRY_REGULATI...	13	-0.112	-0.003	0.217	0.69694	1	REACTOME_SPRY_REGULATION_OF_FGF_SIGNALING
REACTOME_TCA_CYCLE_AND...	111	0.0035	0.000273	0.0661	0.47891	1	REACTOME_TCA_CYCLE_AND_RESPIRATORY_ELECTRON_TRANSPORT
REACTOME_BMAL1_CLOCK_N...	35	-0.107	-0.0047	0.13	0.79397	1	REACTOME_BMAL1_CLOCK_NPAS2_ACTIVATES_CIRCADIAN_EXPRESSION
REACTOME_ANTIGEN_PROCE...	68	0.0854	0.00523	0.0953	0.18517	1	REACTOME_ANTIGEN_PROCESSING_CROSS_PRESENTATION
REACTOME_GROWTH_HORMON...	23	-0.178	-0.00635	0.172	0.84936	1	REACTOME_GROWTH_HORMONE_RECEPTOR_SIGNALING
REACTOME_TRIF_MEDIATED...	67	0.0443	0.00269	0.091	0.31334	1	REACTOME_TRIF_MEDIATED_TLR3_SIGNALING
REACTOME_CELL_CELL_COM...	115	-0.108	-0.00863	0.0757	0.92408	1	REACTOME_CELL_CELL_COMMUNICATION
REACTOME_ABCA_TRANSPOR...	16	-0.298	-0.00886	0.176	0.95524	1	REACTOME_ABCA_TRANSPORTERS_IN_LIPID_HOMEOSTASIS
REACTOME_ENDOSOMAL_VAC...	8	0.0313	0.000659	0.369	0.46619	1	REACTOME_ENDOSOMAL_VACUOLAR_PATHWAY





REACTOME_CELL_CYCLE	373	0.0477	0.00678	0.0392	0.11207	1	REACTOME_CELL_CYCLE
REACTOME_SIGNALING_BY_...	85	0.0959	0.00656	0.0795	0.11399	1	REACTOME_SIGNALING_BY_ERBB4
REACTOME_ORC1_REMOVAL_...	64	0.0993	0.0059	0.0908	0.13715	1	REACTOME_ORC1_REMOVAL_FROM_CHROMATIN
REACTOME_O_LINKED_GLYC...	52	-0.14	-0.00752	0.109	0.90169	1	REACTOME_O_LINKED_GLYCOSYLATION_OF_MUCINS
REACTOME_SULFUR_AMINO_...	24	-0.0109	-0.000396	0.14	0.53097	1	REACTOME_SULFUR_AMINO_ACID_METABOLISM
REACTOME_DOWNREGULATIO...	11	0.294	0.00725	0.216	0.086926	1	REACTOME_DOWNREGULATION_OF_ERBB2_ERBB3_SIGN ALING
REACTOME_ANTIVIRAL_MEC...	65	-0.0168	-0.00101	0.0891	0.57496	1	REACTOME_ANTIVIRAL_MECHANISM_BY_IFN_STIMULAT ED_GENES
REACTOME_PROLACTIN_REC...	13	-0.225	-0.00603	0.232	0.83428	1	REACTOME_PROLACTIN_RECEPTOR_SIGNALING
REACTOME_SIGNALING_BY_...	96	0.0683	0.00497	0.0775	0.18909	1	REACTOME_SIGNALING_BY_ERBB2
REACTOME_SPHINGOLIPID_...	30	-0.046	-0.00187	0.157	0.61482	1	REACTOME_SPHINGOLIPID_DE_NOVO_BIOSYNTHESIS
REACTOME_TERMINATION_O...	21	-0.0939	-0.0032	0.171	0.70816	1	REACTOME_TERMINATION_OF_O_GLYCAN_BIOSYNTHESI S
REACTOME_DEFENSINS	35	-0.103	-0.00451	0.172	0.72463	1	REACTOME_DEFENSINS
REACTOME_SIGNALING_BY_...	17	0.0101	0.00031	0.153	0.47362	1	REACTOME_SIGNALING_BY_CONSTITUTIVELY_ACTIVE_EG FR
REACTOME_GRB2_EVENTS_I...	22	-0.166	-0.00581	0.165	0.8438	1	REACTOME_GRB2_EVENTS_IN_ERBB2_SIGNALING
REACTOME_SIGNALING_BY_...	103	0.111	0.00838	0.074	0.066414	1	REACTOME_SIGNALING_BY_EGFR_IN_CANCER
REACTOME_MEMBRANE_BIND...	9	0.178	0.00396	0.241	0.23058	1	REACTOME_MEMBRANE_BINDING_AND_TARGETTING_O F_GAG_PROTEINS
REACTOME_BETA_DEFENSINS	27	-0.179	-0.0069	0.195	0.82006	1	REACTOME_BETA_DEFENSINS
REACTOME_SRP_DEPENDENT...	101	0.064	0.00477	0.0699	0.17981	1	REACTOME_SRP_DEPENDENT_COTRANSLATIONAL_PROT EIN_TARGETING_TO_MEMBRANE
REACTOME_PI3K_EVENTS_I...	35	0.225	0.0099	0.126	0.036886	1	REACTOME_PI3K_EVENTS_IN_ERBB4_SIGNALING
REACTOME_SHC1_EVENTS_I...	20	-0.116	-0.00387	0.163	0.76299	1	REACTOME_SHC1_EVENTS_IN_ERBB4_SIGNALING
REACTOME_PI3K_EVENTS_I...	41	0.135	0.00644	0.117	0.12393	1	REACTOME_PI3K_EVENTS_IN_ERBB2_SIGNALING
REACTOME_NUCLEAR_SIGNA...	37	0.128	0.00577	0.134	0.1698	1	REACTOME_NUCLEAR_SIGNALING_BY_ERBB4
REACTOME_GLYCOPHINGOL...	32	-0.0164	-0.000691	0.134	0.54892	1	REACTOME_GLYCOPHINGOLIPID_METABOLISM
REACTOME_PPARA_ACTIVAT...	101	0.0719	0.00536	0.0729	0.162	1	REACTOME_PPARA_ACTIVATES_GENE_EXPRESSION

REACTOME_ASSOCIATION_O...	13	0.0482	0.00129	0.205	0.40729	1	REACTOME_ASSOCIATION_OF_LICENSEING_FACTORS_WITH_THE_PRE_REPLICATIVE_COMPLEX
REACTOME_RIP_MEDIATED_...	17	0.172	0.00527	0.181	0.17116	1	REACTOME_RIP_MEDIATED_NFKB_ACTIVATION_VIA_DAI
REACTOME_PRE_NOTCH_TRA...	26	-0.0978	-0.00371	0.149	0.74486	1	REACTOME_PRE_NOTCH_TRANSCRIPTION_AND_TRANSLATION
REACTOME_DEGRADATION_O...	27	0.226	0.00874	0.162	0.081726	1	REACTOME_DEGRADATION_OF_THE_EXTRACELLULAR_MATRIX
REACTOME_MITOCHONDRIAL...	45	0.0636	0.00317	0.104	0.26975	1	REACTOME_MITOCHONDRIAL_PROTEIN_IMPORT
REACTOME_SIGNALING_BY_...	19	-0.249	-0.00806	0.189	0.90564	1	REACTOME_SIGNALING_BY_HIPPO
REACTOME_ACTIVATED_NOT...	26	0.172	0.00651	0.14	0.10966	1	REACTOME_ACTIVATED_NOTCH1_TRANSMITS_SIGNAL_TO_THE_NUCLEUS
REACTOME_TRAFFICKING_A...	10	0.107	0.00252	0.208	0.30339	1	REACTOME_TRAFFICKING_AND_PROCESSING_OF_ENDOSOMAL_TLR
REACTOME_SIGNALING_BY_...	12	0.0464	0.0012	0.2	0.40814	1	REACTOME_SIGNALING_BY_NOTCH4
REACTOME_DOWNSTREAM_SI...	89	0.102	0.00715	0.0767	0.0915	1	REACTOME_DOWNSTREAM_SIGNALING_EVENTS_OF_B_CELL_RECEPTOR_BCR
REACTOME_ACTIVATION_OF...	59	0.15	0.00856	0.0958	0.058617	1	REACTOME_ACTIVATION_OF_NF_KAPPAB_IN_B_CELLS
REACTOME_RORA_ACTIVATE...	23	-0.0169	-0.000604	0.158	0.54269	1	REACTOME_RORA_ACTIVATES_CIRCADIAN_EXPRESSION
REACTOME_ANTIGEN_ACTIV...	27	0.158	0.0061	0.139	0.12782	1	REACTOME_ANTIGEN_ACTIVATES_B_CELL_RECEPTOR_LEADING_TO_GENERATION_OF_SECOND_MESSENGERS
REACTOME_REGULATION_OF...	13	-0.295	-0.00792	0.221	0.90916	1	REACTOME_REGULATION_OF_COMPLEMENT_CASCADE
REACTOME_YAP1_AND_WWTR...	23	0.176	0.00627	0.176	0.15822	1	REACTOME_YAP1_AND_WWTR1_TAZ_STIMULATED_GENE_EXPRESSION
REACTOME_SIGNALING_BY_...	12	-0.0212	-0.000546	0.197	0.54281	1	REACTOME_SIGNALING_BY_NOTCH2
REACTOME_PRE_NOTCH_EXP...	41	-0.109	-0.00517	0.12	0.81643	1	REACTOME_PRE_NOTCH_EXPRESSION_AND_PROCESSING
REACTOME_SIGNALING_BY_...	116	0.115	0.00922	0.0672	0.043028	1	REACTOME_SIGNALING_BY_THE_B_CELL_RECEPTOR_BCR

REACTOME_EXTRACELLULAR...	83	0.16	0.0108	0.0922	0.041782	1	REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION
REACTOME_NOTCH1_INTRAC...	40	-0.0285	-0.00134	0.132	0.58539	1	REACTOME_NOTCH1_INTRACELLULAR_DOMAIN_REGULA TES_TRANSCRIPTION
REACTOME_CIRCADIANT_REP...	22	-0.0736	-0.00257	0.17	0.66771	1	REACTOME_CIRCADIANT_REPRESSION_OF_EXPRESSION_B Y_REV_ERBA
REACTOME_PRE_NOTCH_PRO...	16	-0.144	-0.00427	0.186	0.78069	1	REACTOME_PRE_NOTCH_PROCESSING_IN_GOLGI
REACTOME_SIGNALING_BY_...	64	0.038	0.00226	0.0978	0.34892	1	REACTOME_SIGNALING_BY_NOTCH1
REACTOME_SIGNALING_BY_...	12	-0.0339	-0.000874	0.204	0.56593	1	REACTOME_SIGNALING_BY_NOTCH3
REACTOME_TRIGLYCERIDE_...	36	-0.00503	-0.000224	0.131	0.51534	1	REACTOME_TRIGLYCERIDE_BIOSYNTHESIS
REACTOME_INSULIN_RECEP...	84	-0.12	-0.00817	0.0815	0.92962	1	REACTOME_INSULIN_RECEPTOR_SIGNALLING_CASCADE
REACTOME_ARMS_MEDIATED...	17	-0.367	-0.0113	0.18	0.9791	1	REACTOME_ARMS_MEDIATED_ACTIVATION
REACTOME_PROLONGED_ERK...	19	-0.18	-0.00583	0.161	0.86722	1	REACTOME_PROLONGED_ERK_ACTIVATION_EVENTS
REACTOME_SIGNALLING_TO...	27	-0.199	-0.00771	0.135	0.92957	1	REACTOME_SIGNALLING_TO_RAS
REACTOME_SIGNALING_BY_BMP	21	0.136	0.00463	0.168	0.20902	1	REACTOME_SIGNALING_BY_BMP
REACTOME_CELL_SURFACE_...	83	-0.212	-0.0144	0.0811	0.99556	1	REACTOME_CELL_SURFACE_INTERACTIONS_AT_THE_VAS CULAR_WALL
REACTOME_NGF_SIGNALLIN...	131	0.011	0.000929	0.0658	0.43391	1	REACTOME_NGF_SIGNALLING_VIA_TRKA_FROM_THE_PL ASMA_MEMBRANE
REACTOME_SIGNALLING_TO...	36	-0.0672	-0.003	0.116	0.71966	1	REACTOME_SIGNALLING_TO_ERKS
REACTOME_P38MAPK_EVENTS	13	-0.286	-0.00768	0.192	0.93239	1	REACTOME_P38MAPK_EVENTS
REACTOME_ACYL_CHAIN_RE...	15	0.00827	0.000238	0.187	0.48239	1	REACTOME_ACYL_CHAIN_REMODELLING_OF_PI
REACTOME_TGF_BETA_RECE...	14	0.0596	0.00166	0.217	0.39181	1	REACTOME_TGF_BETA_RECEPTOR_SIGNALING_IN_EMT_ EPITHELIAL_TO_MESENCHYMAL_TRANSITION
REACTOME_DOWNREGULATIO...	21	-0.308	-0.0105	0.164	0.96964	1	REACTOME_DOWNREGULATION_OF_TGF_BETA_RECEPT OR_SIGNALING
REACTOME_COLLAGEN_FORM...	56	0.128	0.00709	0.112	0.12721	1	REACTOME_COLLAGEN_FORMATION
REACTOME_SMAD2_SMAD3_S...	25	0.0152	0.000566	0.149	0.45942	1	REACTOME_SMAD2_SMAD3_SMAD4_HETEROTRIMER_RE GULATES_TRANSCRIPTION
REACTOME_SIGNALING_BY_...	121	0.00542	0.000442	0.07	0.46915	1	REACTOME_SIGNALING_BY_FGFR_IN_DISEASE
REACTOME_HS_GAG_DEGRAD...	17	0.0292	0.000896	0.182	0.4361	1	REACTOME_HS_GAG_DEGRADATION

REACTOME_SIGNALLING_TO...	15	-0.263	-0.00757	0.18	0.92829	1	REACTOME_SIGNALLING_TO_P38_VIA_RIT_AND_RIN
REACTOME_P53_INDEPENDE...	47	0.1	0.00511	0.107	0.17362	1	REACTOME_P53_INDEPENDENT_G1_S_DNA_DAMAGE_C HECKPOINT
REACTOME_REGULATION_OF...	23	0.203	0.00725	0.154	0.093781	1	REACTOME_REGULATION_OF_HYPOXIA_INDUCIBLE_FACT OR_HIF_BY_OXYGEN
REACTOME_ACYL_CHAIN_RE...	22	-0.000773	-2.69E-05	0.15	0.50205	1	REACTOME_ACYL_CHAIN_REMODELLING_OF_PC REACTOME_SYNTHESIS_OF_PIPS_AT_THE_GOLGI_MEMB
REACTOME_SYNTHESIS_OF_...	16	0.213	0.00633	0.223	0.16949	1	RANE
REACTOME_TGF_BETA_RECE...	24	-0.305	-0.0111	0.156	0.97455	1	REACTOME_TGF_BETA_RECEPTOR_SIGNALING_ACTIVATE S_SMADS
REACTOME_ACTIVATED_POI...	16	-0.189	-0.00563	0.204	0.8237	1	REACTOME_ACTIVATED_POINT_MUTANTS_OF_FGFR2
REACTOME_PHOSPHOLIPID_...	185	0.0241	0.00243	0.0568	0.33553	1	REACTOME_PHOSPHOLIPID_METABOLISM
REACTOME_CS_DS_DEGRADA...	10	-0.224	-0.00526	0.216	0.84969	1	REACTOME_CS_DS_DEGRADATION
REACTOME_SYNTHESIS_OF_PA	27	0.00224	8.67E-05	0.149	0.494	1	REACTOME_SYNTHESIS_OF_PA
REACTOME_OXYGEN_DEPEND...	16	0.273	0.00813	0.198	0.083982	1	REACTOME_OXYGEN_DEPENDENT_PROLINE_HYDROXYLA TION_OF_HYPOXIA_INDUCIBLE_FACTOR_ALPHA
REACTOME_SYNTHESIS_OF_...	9	0.179	0.00399	0.28	0.26141	1	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_LATE_ENDOSO ME_MEMBRANE
REACTOME_SYNTHESIS_OF_PE	11	-0.286	-0.00706	0.233	0.89039	1	REACTOME_SYNTHESIS_OF_PE
REACTOME_GASTRIN_CREB_...	191	0.0727	0.00744	0.0586	0.10725	1	REACTOME_GASTRIN_CREB_SIGNALLING_PATHWAY_VIA _PKC_AND_MAPK
REACTOME_CHONDROITIN_S...	17	-0.169	-0.00519	0.184	0.82104	1	REACTOME_CHONDROITIN_SULFATE_BIOSYNTHESIS
REACTOME_HYALURONAN_UP...	10	-0.0811	-0.00191	0.209	0.65082	1	REACTOME_HYALURONAN_UPTAKE_AND_DEGRADATION
REACTOME_SIGNALING_BY_...	29	-0.0306	-0.00122	0.142	0.58509	1	REACTOME_SIGNALING_BY_FGFR1_MUTANTS
REACTOME_SYNTHESIS_OF_...	28	0.0902	0.00355	0.152	0.27587	1	REACTOME_SYNTHESIS_OF_PIPS_AT_THE_PLASMA_MEM BRANE
REACTOME_THE_ACTIVATIO...	8	-0.423	-0.0089	0.284	0.93167	1	REACTOME_THE_ACTIVATION_OF_ARYLSULFATASES

REACTOME_TRANSCRIPTION...	35	0.0482	0.00212	0.129	0.35478	1	REACTOME_TRANSCRIPTIONAL_ACTIVITY_OF_SMAD2_S MAD3_SMAD4_HETEROTRIMER
REACTOME_HYALURONAN_ME...	14	-0.0571	-0.00159	0.183	0.62246	1	REACTOME_HYALURONAN_METABOLISM
REACTOME_DOWNREGULATIO...	18	-0.0258	-0.000813	0.197	0.55203	1	REACTOME_DOWNREGULATION_OF_SMAD2_3_SMAD4_ TRANSCRIPTIONAL_ACTIVITY
REACTOME_KERATAN_SULFA...	26	-0.178	-0.00675	0.141	0.89638	1	REACTOME_KERATAN_SULFATE_BIOSYNTHESIS
REACTOME_REVERSIBLE_HY...	11	0.00791	0.000195	0.246	0.48715	1	REACTOME_REVERSIBLE_HYDRATION_OF_CARBON_DIOXI DE
REACTOME_SIGNALING_BY_...	18	0.0738	0.00233	0.184	0.34418	1	REACTOME_SIGNALING_BY_FGFR1_FUSION_MUTANTS
REACTOME_ALPHA_LINOLEN...	10	-0.113	-0.00267	0.221	0.69631	1	REACTOME_ALPHA_LINOLENIC_ACID_ALA_METABOLISM
REACTOME_SIGNALING_BY_...	11	-0.186	-0.0046	0.225	0.79654	1	REACTOME_SIGNALING_BY_ACTIVATED_POINT_MUTANT S_OF_FGFR1
REACTOME_PI_METABOLISM	44	0.0639	0.00315	0.124	0.30316	1	REACTOME_PI_METABOLISM
REACTOME_ABACAVIR_TRAN...	10	0.145	0.0034	0.268	0.29432	1	REACTOME_ABACAVIR_TRANSPORT_AND_METABOLISM
REACTOME_CHONDROITIN_S...	42	-0.07	-0.00337	0.111	0.73553	1	REACTOME_CHONDROITIN_SULFATE_DERMATAN_SULFA TE_METABOLISM
REACTOME_LATENT_INFECT...	28	0.0938	0.00369	0.15	0.26567	1	REACTOME_LATENT_INFECTION_OF_HOMO_SAPIENS_WI TH_MYCOBACTERIUM_TUBERCULOSIS
REACTOME_SYNTHESIS_OF_PC	17	0.0241	0.00074	0.158	0.43925	1	REACTOME_SYNTHESIS_OF_PC
REACTOME_HS_GAG_BIOSYN...	27	0.226	0.00874	0.167	0.088125	1	REACTOME_HS_GAG_BIOSYNTHESIS
REACTOME_SIGNALING_BY_...	11	-0.232	-0.00571	0.233	0.83938	1	REACTOME_SIGNALING_BY_FGFR3_MUTANTS
REACTOME_KERATAN_SULFA...	30	-0.133	-0.00542	0.132	0.84422	1	REACTOME_KERATAN_SULFATE_KERATIN_METABOLISM
REACTOME_APOPTOSIS_IND...	13	-0.193	-0.00517	0.192	0.8425	1	REACTOME_APOPTOSIS_INDUCED_DNA_FRAGMENTATIO N
REACTOME_KERATAN_SULFA...	11	-0.0809	-0.002	0.226	0.64002	1	REACTOME_KERATAN_SULFATE_DEGRADATION
REACTOME_HEPARAN_SULFA...	46	-0.00398	-0.000201	0.121	0.51318	1	REACTOME_HEPARAN_SULFATE_HEPARIN_HS_GAG_MET ABOLISM
REACTOME_GLYCOSAMINOGL...	102	-0.0833	-0.00624	0.075	0.8667	1	REACTOME_GLYCOSAMINOGLYCAN_METABOLISM
REACTOME_ACYL_CHAIN_RE...	16	0.152	0.00453	0.174	0.19125	1	REACTOME_ACYL_CHAIN_REMODELLING_OF_PG

REACTOME_ACYL_CHAIN_RE...	21	-0.0371	-0.00126	0.153	0.59565	1	REACTOME_ACYL_CHAIN_REMODELLING_OF_PE
REACTOME_ACYL_CHAIN_RE...	15	0.132	0.00379	0.176	0.22683	1	REACTOME_ACYL_CHAIN_REMODELLING_OF_PS
REACTOME_SIGNALING_BY_...	43	-0.13	-0.00635	0.116	0.86872	1	REACTOME_SIGNALING_BY_FGFR_MUTANTS
REACTOME_MHC_CLASS_II_...	86	0.0427	0.00294	0.0793	0.29523	1	REACTOME_MHC_CLASS_II_ANTIGEN_PRESENTATION
REACTOME_GLYCEROPHOSPH...	80	0.0323	0.00214	0.0807	0.34456	1	REACTOME_GLYCEROPHOSPHOLIPID_BIOSYNTHESIS
REACTOME_A_TETRASACCHA...	22	0.0522	0.00182	0.165	0.376	1	REACTOME_A_TETRASACCHARIDE_LINKER_SEQUENCE_IS _REQUIRED_FOR_GAG_SYNTHESIS
REACTOME_CDK_MEDIATED_...	45	0.125	0.00624	0.106	0.1194	1	REACTOME_CDK_MEDIATED_PHOSPHORYLATION_AND_R EMOVAL_OF_CDC6
REACTOME_PLATELET_ADHE...	11	-0.153	-0.00377	0.242	0.73644	1	REACTOME_PLATELET_ADHESION_TO_EXPOSED_COLLAG EN
REACTOME_VEGF_LIGAND_R...	9	0.313	0.00698	0.296	0.1456	1	REACTOME_VEGF_LIGAND_RECEPTOR_INTERACTIONS
REACTOME_ENOS_ACTIVATI...	19	-0.207	-0.00672	0.162	0.89929	1	REACTOME_ENOS_ACTIVATION_AND_REGULATION
REACTOME_MICRORNA_MIRN...	22	-0.0881	-0.00307	0.152	0.71938	1	REACTOME_MICRORNA_MIRNA_BIOGENESIS
REACTOME_NUCLEAR_EVENT...	22	-0.113	-0.00393	0.159	0.76148	1	REACTOME_NUCLEAR_EVENTS_KINASE_AND_TRANSCRIP TION_FACTOR_ACTIVATION
REACTOME_RETROGRADE_NE...	13	-0.0158	-0.000425	0.211	0.52999	1	REACTOME_RETROGRADE_NEUROTROPHIN_SIGNALLING
REACTOME_ERKS_ARE_INAC...	12	-0.387	-0.00998	0.21	0.96762	1	REACTOME_ERKS_ARE_INACTIVATED
REACTOME_NEGATIVE_REGU...	7	-0.00901	-0.000177	0.294	0.51222	1	REACTOME_NEGATIVE_REGULATION_OF_THE_PI3K_AKT_ NETWORK
REACTOME_PI3K_AKT_ACTI...	35	0.115	0.00506	0.123	0.17536	1	REACTOME_PI3K_AKT_ACTIVATION
REACTOME_REGULATORY_RN...	25	-0.117	-0.00433	0.146	0.7878	1	REACTOME_REGULATORY_RNA_PATHWAYS
REACTOME_EGFR_DOWNREGU...	23	0.265	0.00943	0.165	0.054401	1	REACTOME_EGFR_DOWNREGULATION
REACTOME_PROCESSING_OF...	129	0.0403	0.00339	0.0641	0.26458	1	REACTOME_PROCESSING_OF_CAPPED_INTRON_CONTAIN ING_PRE_MRNA
REACTOME_PECAM1_INTERA...	10	0.081	0.00191	0.232	0.36327	1	REACTOME_PECAM1_INTERACTIONS
REACTOME_REGULATION_OF...	10	-0.0965	-0.00227	0.234	0.66014	1	REACTOME_REGULATION_OF_PYRUVATE_DEHYDROGEN ASE_PDH_COMPLEX
REACTOME_BASIGIN_INTER...	23	-0.186	-0.00662	0.144	0.90069	1	REACTOME_BASIGIN_INTERACTIONS

REACTOME_AKT_PHOSPHORY...	12	0.222	0.00571	0.206	0.14126	1	REACTOME_AKT_PHOSPHORYLATES_TARGETS_IN_THE_C YTOSOL
REACTOME_GAB1_SIGNALOSOME	35	0.174	0.00765	0.122	0.076583	1	REACTOME_GAB1_SIGNALOSOME
REACTOME_SHC1_EVENTS_I...	15	-0.194	-0.0056	0.175	0.86698	1	REACTOME_SHC1_EVENTS_IN_EGFR_SIGNALING
REACTOME_ACTIVATION_OF...	51	0.0823	0.00437	0.0929	0.18778	1	REACTOME_ACTIVATION_OF_THE_MRNA_UPON_BINDIN G_OF_THE_CAP_BINDING_COMPLEX_AND_EIFS_AND_SU BSEQUENT_BINDING_TO_43S
REACTOME_PHOSPHORYLATI...	13	0.216	0.00579	0.22	0.163	1	REACTOME_PHOSPHORYLATION_OF_CD3_AND_TCR_ZET A_CHAINS
REACTOME_GLUTAMATE_NEU...	15	0.0619	0.00178	0.203	0.3801	1	REACTOME_GLUTAMATE_NEUROTRANSMITTER_RELEASE _CYCLE
REACTOME_TRANSLOCATION...	11	0.159	0.00391	0.248	0.26092	1	REACTOME_TRANSLOCATION_OF_ZAP_70_TO_IMMUNO LOGICAL_SYNAPSE
REACTOME_ERK_MAPK_TARGETS	19	-0.22	-0.00714	0.176	0.89468	1	REACTOME_ERK_MAPK_TARGETS
REACTOME_TIE2_SIGNALING	17	-0.271	-0.00832	0.173	0.94122	1	REACTOME_TIE2_SIGNALING
REACTOME_GENERATION_OF...	23	0.157	0.00561	0.16	0.16226	1	REACTOME_GENERATION_OF_SECOND_MESSENGER_MO LECULES
REACTOME_GENERIC_TRANS...	333	0.0743	0.00999	0.0461	0.053795	1	REACTOME_GENERIC_TRANSCRIPTION_PATHWAY
REACTOME_RESPONSE_TO_E...	73	0.0959	0.00608	0.0893	0.14148	1	REACTOME_RESPONSE_TO_ELEVATED_PLATELET_CYTOS OLIC_CA2_
REACTOME_TRANSPORT_OF_...	51	0.0488	0.00259	0.103	0.31715	1	REACTOME_TRANSPORT_OF_MATURE_TRANSCRIPT_TO_ CYTOPLASM
REACTOME_METABOLISM_OF...	188	0.0397	0.00403	0.053	0.22708	1	REACTOME_METABOLISM_OF_AMINO_ACIDS_AND_DERI VATIVES
REACTOME_RNA_POL_I_TRA...	66	-0.107	-0.00645	0.0954	0.86887	1	REACTOME_RNA_POL_I_TRANSCRIPTION
REACTOME_FATTY_ACYL_CO...	17	0.185	0.00567	0.185	0.15846	1	REACTOME_FATTY_ACYL_COA_BIOSYNTHESIS
REACTOME_E2F_ENABLED_I...	10	0.227	0.00534	0.258	0.18946	1	REACTOME_E2F_ENABLED_INHIBITION_OF_PRE_REPLICA TION_COMPLEX_FORMATION
REACTOME_P75NTR_RECRUI...	10	0.453	0.0106	0.22	0.01973	1	REACTOME_P75NTR_RECRUITS_SIGNALLING_COMPLEXES
REACTOME_BIOLOGICAL_OX...	134	0.0034	0.000292	0.0746	0.48182	1	REACTOME_BIOLOGICAL_OXIDATIONS
REACTOME_REGULATED_PRO...	10	0.0264	0.00062	0.225	0.45341	1	REACTOME_REGULATED_PROTEOLYSIS_OF_P75NTR



REACTOME_TRANSMISSION_...	175	0.0236	0.00231	0.0621	0.35207	1	REACTOME_TRANSMISSION_ACROSS_CHEMICAL_SYNAPSES
REACTOME_P75NTR_SIGNAL...	12	0.413	0.0106	0.202	0.020688	1	REACTOME_P75NTR_SIGNALS_VIA_NFKB
REACTOME_CASPASE_MEDIA...	12	-0.293	-0.00755	0.192	0.93665	1	REACTOME_CASPASE_MEDIATED_CLEAVAGE_OF_CYTOSKELETAL_PROTEINS
REACTOME_INTEGRIN_CELL...	77	0.0998	0.0065	0.0885	0.12983	1	REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS
REACTOME_REGULATION_OF...	47	-0.0206	-0.00105	0.106	0.57741	1	REACTOME_REGULATION_OF_ORNITHINE_DECARBOXYLASE_ODC
REACTOME_CYTOCHROME_P4...	50	0.00937	0.000492	0.122	0.46942	1	REACTOME_CYTOCHROME_P450_ARRANGED_BY_SUBSTRATE_RATE_TYPE
REACTOME_BASE_FREE_SUG...	10	0.145	0.00342	0.251	0.28157	1	REACTOME_BASE_FREE_SUGAR_PHOSPHATE_REMOVAL_VIA_THE_SINGLE_NUCLEOTIDE_REPLACEMENT_PATHWAY
REACTOME_APOPTOTIC_CLE...	11	-0.305	-0.00752	0.275	0.8663	1	REACTOME_APOPTOTIC_CLEAVAGE_OF_CELL_ADHESION_PROTEINS
REACTOME_HDL_MEDIATED_...	15	0.025	0.00072	0.188	0.44715	1	REACTOME_HDL_MEDIATED_LIPID_TRANSPORT
REACTOME_NRAGE_SIGNALS...	37	0.0523	0.00237	0.13	0.34324	1	REACTOME_NRAGE_SIGNALS_DEATH_THROUGH_JNK
REACTOME_SLBP_DEPENDEN...	11	0.0757	0.00187	0.188	0.34333	1	REACTOME_SLBP_DEPENDENT_PROCESSING_OF_REPLICATION_DEPENDENT_HISTONE_PRE_MRNAs
REACTOME_NRIF_SIGNALS_...	14	0.26	0.00725	0.192	0.087896	1	REACTOME_NRIF_SIGNALS_CELL_DEATH_FROM_THE_NUCLEUS
REACTOME_REGULATION_OF...	54	0.0753	0.00411	0.104	0.23434	1	REACTOME_REGULATION_OF_APOPTOSIS
REACTOME_RNA_POL_II_TR...	96	-0.00662	-0.000481	0.0721	0.53656	1	REACTOME_RNA_POL_II_TRANSCRIPTION
REACTOME_NEURONAL_SYSTEM	265	0.0263	0.00317	0.0517	0.30514	1	REACTOME_NEURONAL_SYSTEM
REACTOME_REGULATION_OF...	30	-0.216	-0.0088	0.149	0.92605	1	REACTOME_REGULATION_OF_BETA_CELL_DEVELOPMENT
REACTOME_PHASE1_FUNC...	67	-0.0401	-0.00244	0.107	0.64552	1	REACTOME_PHASE1_FUNCTIONALIZATION_OF_COMPOUNDS
REACTOME_RNA_POL_III_T...	33	-0.125	-0.00533	0.123	0.84499	1	REACTOME_RNA_POL_III_TRANSCRIPTION
REACTOME_CELL_DEATH_SI...	51	0.108	0.00574	0.107	0.15556	1	REACTOME_CELL_DEATH_SIGNALLING_VIA_NRAGE_NRIF_AND_NADE

REACTOME_NEUROTRANSMIT...	32	0.0575	0.00242	0.144	0.34502	1	REACTOME_NEUROTRANSMITTER_RELEASE_CYCLE
REACTOME_P75_NTR_RECEP...	71	0.155	0.00969	0.0906	0.043768	1	REACTOME_P75_NTR_RECEPTOR_MEDIATED_SIGNALLING
REACTOME_AMINO_ACID_TR...	28	-0.114	-0.00448	0.144	0.78582	1	REACTOME_AMINO_ACID_TRANSPORT_ACROSS_THE_PLASMA_MEMBRANE
REACTOME_ENDOGENOUS_ST...	15	-0.201	-0.0058	0.205	0.83667	1	REACTOME_ENDOGENOUS_STEROLS
REACTOME_REGULATION_OF...	20	0.043	0.00143	0.175	0.40317	1	REACTOME_REGULATION_OF_GENE_EXPRESSION_IN_BETA_TLymphocytes
REACTOME_GLYCOLYSIS	25	-0.0247	-0.000918	0.149	0.56573	1	REACTOME_GLYCOLYSIS
REACTOME_PROCESSIVE_SY...	13	-0.233	-0.00624	0.174	0.90982	1	REACTOME_PROCESSIVE_SYNTHESIS_ON_THE_LAGGING_STRAND
REACTOME_PEPTIDE_CHAIN...	79	0.121	0.00796	0.0782	0.061398	1	REACTOME_PEPTIDE_CHAIN_ELONGATION
REACTOME_COMMON_PATHWAY	14	-0.518	-0.0144	0.209	0.99344	1	REACTOME_COMMON_PATHWAY
REACTOME_MRNA_CAPPING	27	-0.0746	-0.00288	0.13	0.71746	1	REACTOME_MRNA_CAPPING
REACTOME_MITOCHONDRIAL...	14	0.186	0.00517	0.191	0.16529	1	REACTOME_MITOCHONDRIAL_FATTY_ACID_BETA_OXIDATION
REACTOME_SIGNALING_BY_...	824	-0.00403	-0.00084	0.0314	0.55108	1	REACTOME_SIGNALING_BY_GPCR
REACTOME_PEPTIDE_LIGAN...	169	0.11	0.0106	0.0664	0.048728	1	REACTOME_PEPTIDE_LIGAND_BINDING_RECEPTORS
REACTOME_METABOLISM_OF...	13	0.215	0.00578	0.176	0.11083	1	REACTOME_METABOLISM_OF_POLYAMINES
REACTOME_CLASS_A1_RHOD...	275	0.0308	0.00377	0.0511	0.27318	1	REACTOME_CLASS_A1_RHODOPSIN_LIKE_RECEPTORS
REACTOME_NOTCH_HLH_TRA...	11	-0.209	-0.00517	0.275	0.77664	1	REACTOME_NOTCH_HLH_TRANSCRIPTION_PATHWAY
REACTOME_INTEGRATION_O...	113	0.00479	0.000377	0.0723	0.47361	1	REACTOME_INTEGRATION_OF_ENERGY_METABOLISM
REACTOME_CELL_CYCLE_MI...	296	0.0556	0.00705	0.0438	0.10238	1	REACTOME_CELL_CYCLE_MITOTIC
REACTOME_GLUCONEOGENESIS	29	-0.0956	-0.00383	0.138	0.75592	1	REACTOME_GLUCONEOGENESIS
REACTOME_DOPAMINE_NEUR...	10	-0.147	-0.00345	0.224	0.74384	1	REACTOME_DOPAMINE_NEUROTRANSMITTER_RELEASE_CYCLE
REACTOME_OPIOID_SIGNAL...	77	0.00584	0.000381	0.0881	0.47355	1	REACTOME_OPIOID_SIGNALLING
REACTOME_RECRUITMENT_O...	61	0.107	0.00624	0.105	0.15273	1	REACTOME_RECRUITMENT_OF_MITOTIC_CENTROSOME_PROTEINS_AND_COMPLEXES

REACTOME_MITOCHONDRIAL...	21	-0.366	-0.0125	0.165	0.98675	1	REACTOME_MITOCHONDRIAL_TRNA_AMINOACYLATION
REACTOME_CYTOSOLIC_TRN...	24	-0.127	-0.00461	0.138	0.81985	1	REACTOME_CYTOSOLIC_TRNA_AMINOACYLATION
REACTOME_CA_DEPENDENT_...	29	0.0177	0.000708	0.159	0.45565	1	REACTOME_CA_DEPENDENT_EVENTS
REACTOME_ACETYLCHOLINE...	10	0.0618	0.00145	0.251	0.40258	1	REACTOME_ACETYLCHOLINE_NEUROTRANSMITTER_RELEASE_CYCLE
REACTOME_ADENYLATE_CYC...	10	-0.263	-0.00618	0.265	0.83898	1	REACTOME_ADENYLATE_CYCLASE_ACTIVATING_PATHWAY
REACTOME_ADENYLATE_CYC...	13	-0.11	-0.00294	0.212	0.69793	1	REACTOME_ADENYLATE_CYCLASE_INHIBITORY_PATHWAY
REACTOME_DARPP_32_EVENTS	24	-0.0345	-0.00126	0.164	0.58319	1	REACTOME_DARPP_32_EVENTS
REACTOME_CHEMOKINE_REC...	51	0.234	0.0124	0.126	0.031791	1	REACTOME_CHEMOKINE_RECEPTORS_BINDING_CHEMOKINES
REACTOME_LOSS_OF_NLP_F...	54	0.105	0.00575	0.11	0.16856	1	REACTOME_LOSS_OF_NLP_FROM_MITOTIC_CENTROSOMES
REACTOME_NEUROTRANSMIT...	128	0.0301	0.00252	0.0724	0.33901	1	REACTOME_NEUROTRANSMITTER_RECEPTOR_BINDING_AND_DOWNSTREAM_TRANSMISSION_IN_THE_POSTSYNAPTIC_CELL
REACTOME_CELL_CYCLE_CH...	109	0.0881	0.00682	0.0701	0.1045	1	REACTOME_CELL_CYCLE_CHECKPOINTS
REACTOME_DIABETES_PATH...	124	0.105	0.00866	0.0646	0.052125	1	REACTOME_DIABETES_PATHWAYS
REACTOME_P130CAS_LINKA...	15	-0.115	-0.00333	0.205	0.71321	1	REACTOME_P130CAS_LINKAGE_TO_MAPK_SIGNALING_FACTOR_INTEGRINS
REACTOME_GLYCOPROTEIN_...	12	-0.0356	-0.000916	0.235	0.56003	1	REACTOME_GLYCOPROTEIN_HORMONES
REACTOME_NOREPINEPHRIN...	9	-0.166	-0.0037	0.248	0.74772	1	REACTOME_NOREPINEPHRINE_NEUROTRANSMITTER_RELEASE_CYCLE
REACTOME_PLC_BETA_MEDI...	42	0.0623	0.003	0.126	0.31036	1	REACTOME_PLC_BETA_MEDIATED_EVENTS
REACTOME_REGULATION_OF...	16	-0.0509	-0.00151	0.208	0.59662	1	REACTOME_REGULATION_OF_INSULIN_LIKE_GROWTH_FACTOR_IGF_ACTIVITY_BY_INSULIN_LIKE_GROWTH_FACTOR_BINDING_PROTEINS_IGFBP3
REACTOME_GRB2_SOS_PROV...	15	-0.119	-0.00343	0.202	0.72246	1	REACTOME_GRB2_SOS_PROVIDES_LINKAGE_TO_MAPK_SIGNALING_FOR_INTEGRINS
REACTOME_PEPTIDE_HORMO...	14	-0.0871	-0.00242	0.217	0.65577	1	REACTOME_PEPTIDE_HORMONE_BIOSYNTHESIS
REACTOME_G_PROTEIN_ACT...	27	0.0409	0.00158	0.138	0.38344	1	REACTOME_G_PROTEIN_ACTIVATION

REACTOME_ACETYLCHOLINE...	14	0.161	0.00448	0.258	0.266	1	REACTOME_ACETYLCHOLINE_BINDING_AND_DOWNSTRE AM_EVENTS
REACTOME_ABC_FAMILY_PR...	32	-0.177	-0.00744	0.131	0.91156	1	REACTOME_ABC_FAMILY_PROTEINS_MEDIATED_TRANSP ORT
REACTOME_TRNA_AMINOACY...	42	-0.215	-0.0104	0.109	0.97586	1	REACTOME_TRNA_AMINOACYLATION
REACTOME_OLFACTORY_SIG...	277	-0.0096	-0.00118	0.0641	0.55947	1	REACTOME_OLFACTORY_SIGNALING_PATHWAY
REACTOME_STEROID_HORMONES	29	-0.119	-0.00478	0.142	0.79993	1	REACTOME_STEROID_HORMONES
REACTOME_PKA_MEDIATED_...	17	-0.0533	-0.00163	0.201	0.6048	1	REACTOME_PKA_MEDIATED_PHOSPHORYLATION_OF_CR EB
REACTOME_RECRUITMENT_O...	10	0.0294	0.000692	0.307	0.46188	1	REACTOME_RECRUITMENT_OF_NUMA_TO_MITOTIC_CE NTROSOMES
REACTOME_AMINE_DERIVED...	15	0.143	0.00413	0.2	0.2366	1	REACTOME_AMINE_DERIVED_HORMONES
REACTOME_TRANSMEMBRANE...	392	0.00795	0.00116	0.0398	0.42084	1	REACTOME_TRANSMEMBRANE_TRANSPORT_OF_SMALL_ MOLECULES
REACTOME_INTEGRIN_ALPH...	27	0.0726	0.0028	0.139	0.30105	1	REACTOME_INTEGRIN_ALPHAIIIB_BETA3_SIGNALING
REACTOME_NUCLEAR_RECEP...	45	0.206	0.0103	0.124	0.047391	1	REACTOME_NUCLEAR_RECEPTOR_TRANSCRIPTION_PATH WAY
REACTOME_INSULIN_SYNT...	20	-0.0427	-0.00142	0.181	0.59346	1	REACTOME_INSULIN_SYNTHESIS_AND_PROCESSING
REACTOME_CYCLIN_E_ASSO...	61	0.142	0.00825	0.0957	0.068637	1	REACTOME_CYCLIN_E_ASSOCIATED_EVENTS_DURING_G1 _S_TRANSITION_ REACTOME_HOMOLOGOUS_RECOMBINATION_REPAIR_O F_REPLICATION_INDEPENDENT_DOUBLE_STRAND_BREAK S
REACTOME_HOMOLOGOUS_RE...	16	-0.196	-0.00584	0.184	0.85689	1	
REACTOME_G1_PHASE	34	0.109	0.00472	0.134	0.20807	1	REACTOME_G1_PHASE
REACTOME_ELEVATION_OF_...	8	0.0352	0.000741	0.277	0.44946	1	REACTOME_ELEVATION_OF_CYTOSOLIC_CA2_LEVELS
REACTOME_P53_DEPENDENT...	52	0.0627	0.00336	0.102	0.26967	1	REACTOME_P53_DEPENDENT_G1_DNA_DAMAGE_RESPO NSE
REACTOME_TRANSCRIPTION...	42	-0.295	-0.0142	0.109	0.99659	1	REACTOME_TRANSCRIPTION_COUPLED_NER_TC_NER

REACTOME_RNA_POL_II_TR...	37	-0.179	-0.00808	0.118	0.93576	1	REACTOME_RNA_POL_II_TRANSCRIPTION_PRE_INITIATION_AND_PROMOTER_OPENING
REACTOME_GLUCAGON_SIGN...	33	0.00621	0.000265	0.136	0.48181	1	REACTOME_GLUCAGON_SIGNALING_IN_METABOLIC_REGULATION
REACTOME_MRNA_PROCESSING	147	0.0221	0.00199	0.0595	0.35481	1	REACTOME_MRNA_PROCESSING
REACTOME_SIGNALING_BY_...	115	0.0087	0.000692	0.0734	0.45285	1	REACTOME_SIGNALING_BY_PDGF
REACTOME_ASSOCIATION_O...	25	-0.000994	-3.69E-05	0.136	0.50292	1	REACTOME_ASSOCIATION_OF_TRIC_CCT_WITH_TARGET_PROTEINS_DURING_BIOSYNTHESIS
REACTOME_PREFOLDIN_MED...	26	0.199	0.00753	0.142	0.080347	1	REACTOME_PREFOLDIN_MEDIATED_TRANSFER_OF_SUBSTRATE_TO_CCT_TRIC
REACTOME_HORMONE_LIGAN...	10	0.0806	0.0019	0.245	0.37128	1	REACTOME_HORMONE_LIGAND_BINDING_RECEPTORS
REACTOME_GPVI_MEDIATED...	31	0.0911	0.00377	0.144	0.264	1	REACTOME_GPVI_MEDIATED_ACTIVATION_CASCADE
REACTOME_PROTEIN_FOLDING	49	0.0341	0.00177	0.103	0.37015	1	REACTOME_PROTEIN_FOLDING
REACTOME_FORMATION_OF_...	21	0.346	0.0118	0.161	0.016055	1	REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATES_BY_CCT_TRIC
REACTOME_PEROXISOMAL_L...	19	-0.152	-0.00492	0.173	0.80953	1	REACTOME_PEROXISOMAL_LIPID_METABOLISM
REACTOME_POST_CHAPERON...	18	0.233	0.00735	0.191	0.11134	1	REACTOME_POST_CHAPERONIN_TUBULIN_FOLDING_PATHWAY
REACTOME_STRIATED_MUSC...	26	-0.048	-0.00182	0.149	0.62598	1	REACTOME_STRIATED_MUSCLE_CONTRACTION
REACTOME_METABOLISM_OF...	70	-0.074	-0.0046	0.0927	0.78753	1	REACTOME_METABOLISM_OF_NUCLEOTIDES
REACTOME_AMINE_LIGAND_...	36	-0.372	-0.0166	0.15	0.99333	1	REACTOME_AMINE_LIGAND_BINDING_RECEPTORS
REACTOME_METABOLISM_OF...	396	0.0211	0.0031	0.0361	0.27917	1	REACTOME_METABOLISM_OF_PROTEINS
REACTOME_DOWNSTREAM_SI...	89	0.0233	0.00163	0.083	0.38966	1	REACTOME_DOWNSTREAM_SIGNAL_TRANSDUCTION
REACTOME_MUSCLE_CONTRA...	45	0.0182	0.000908	0.115	0.43708	1	REACTOME_MUSCLE_CONTRACTION
REACTOME_SEROTONIN_REC...	11	-0.615	-0.0152	0.268	0.98925	1	REACTOME_SEROTONIN_RECEPTORS
REACTOME_CDC6_ASSOCIAT...	11	0.05	0.00123	0.235	0.41583	1	REACTOME_CDC6_ASSOCIATION_WITH_THE_ORC_ORIGIN_COMPLEX
REACTOME_M_G1_TRANSITION	74	0.0178	0.00114	0.0821	0.41426	1	REACTOME_M_G1_TRANSITION
REACTOME_MRNA_SPLICING	100	0.0797	0.00591	0.0729	0.13729	1	REACTOME_MRNA_SPLICING
REACTOME_MRNA_SPLICING...	41	0.0318	0.00151	0.111	0.38728	1	REACTOME_MRNA_SPLICING_MINOR_PATHWAY

REACTOME_3_UTR_MEDIATE...	97	0.0919	0.00671	0.0697	0.093636	1	REACTOME_3_UTR_MEDIATED_TRANSLATIONAL_REGULATION
REACTOME_PROCESSING_OF...	22	0.0073	0.000255	0.129	0.47735	1	REACTOME_PROCESSING_OF_CAPPED_INTRONLESS_PRE_MRNA
REACTOME_PURINE_RIBONU...	11	0.144	0.00356	0.191	0.22477	1	REACTOME_PURINE_RIBONUCLEOSIDE_MONOPHOSPHATE_BIOSYNTHESIS
REACTOME_G1_S_TRANSITION	101	0.0699	0.00521	0.0722	0.16664	1	REACTOME_G1_S_TRANSITION
REACTOME_CITRIC_ACID_C...	18	0.071	0.00224	0.184	0.35002	1	REACTOME_CITRIC_ACID_CYCLE_TCA_CYCLE
REACTOME_TRANSCRIPTION	181	-0.000303	-3.01E-05	0.0544	0.50222	1	REACTOME_TRANSCRIPTION
REACTOME_POL_SWITCHING	11	-0.312	-0.0077	0.189	0.95029	1	REACTOME_POL_SWITCHING
REACTOME_NUCLEOTIDE_EX...	47	-0.282	-0.0144	0.103	0.99692	1	REACTOME_NUCLEOTIDE_EXCISION_REPAIR
REACTOME_REGULATION_OF...	7	0.297	0.00584	0.302	0.16271	1	REACTOME_REGULATION_OF_THE_FANCONI_ANEMIA_PATHWAY
REACTOME_AXON_GUIDANCE	228	-0.00629	-0.000703	0.0518	0.5484	1	REACTOME_AXON_GUIDANCE
REACTOME_ACTIVATION_OF...	43	0.06	0.00292	0.104	0.28289	1	REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_XBP1S
REACTOME_REGULATION_OF...	42	-0.00825	-0.000397	0.122	0.52704	1	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_GLUCAGON_LIKE_PEPTIDE1
REACTOME_G_ALPHA_Q_SIG...	171	0.136	0.0132	0.0629	0.015277	1	REACTOME_G_ALPHA_Q_SIGNALLING_EVENTS
REACTOME_P2Y_RECEPTORS	9	-0.0483	-0.00108	0.242	0.57895	1	REACTOME_P2Y_RECEPTORS
REACTOME_TRAFFICKING_O...	26	0.124	0.0047	0.161	0.22045	1	REACTOME_TRAFFICKING_OF_AMPA_RECEPTORS
REACTOME_NCAM1_INTERAC...	38	-0.00458	-0.00021	0.133	0.51376	1	REACTOME_NCAM1_INTERACTIONS
REACTOME_CLASS_C_3_MET...	14	0.027	0.000752	0.21	0.44884	1	REACTOME_CLASS_C_3_METABOTROPIC_Glutamate_HEROMONE_RECEPTORS
REACTOME_REGULATION_OF...	87	-0.0486	-0.00336	0.0844	0.71734	1	REACTOME_REGULATION_OF_INSULIN_SECRETION
REACTOME_NCAM_SIGNALIN...	63	-0.2	-0.0118	0.0967	0.98044	1	REACTOME_NCAM_SIGNALING_FOR_NEURITE_OUTGROWTH
REACTOME_INHIBITION_OF...	25	-0.113	-0.00421	0.149	0.77693	1	REACTOME_INHIBITION_OF_INSULIN_SECRETION_BY_ADRENALINE_NORADRENALINE
REACTOME_NUCLEOTIDE_LI...	13	-0.113	-0.00304	0.21	0.70568	1	REACTOME_NUCLEOTIDE_LIKE_PURINERGIC_RECEPTORS
REACTOME_ACTIVATION_OF...	10	0.0967	0.00227	0.19	0.30546	1	REACTOME_ACTIVATION_OF_CHAPERONES_BY_ATF6_ALPHA

REACTOME_TRANSPORT_OF_...	32	-0.0287	-0.00121	0.123	0.59229	1	REACTOME_TRANSPORT_OF_MATURE_MRNA_DERIVED_FROM_AN_INTRONLESS_TRANSCRIPT
REACTOME_EICOSANOID_LI...	14	0.0859	0.00239	0.212	0.34251	1	REACTOME_EICOSANOID_LIGAND_BINDING_RECEPTORS
REACTOME_ACTIVATION_OF...	23	0.297	0.0106	0.138	0.015392	1	REACTOME_ACTIVATION_OF_GENES_BY_ATF4
REACTOME_UNFOLDED_PROT...	73	0.165	0.0105	0.0791	0.018287	1	REACTOME_UNFOLDED_PROTEIN_RESPONSE
REACTOME_CLASS_B_2_SEC...	85	-0.0571	-0.00391	0.0859	0.74679	1	REACTOME_CLASS_B_2_SECRETIN_FAMILY_RECEPTORS
REACTOME_GLUCAGON_TYPE...	33	-0.0501	-0.00214	0.135	0.64506	1	REACTOME_GLUCAGON_TYPE_LIGAND_RECEPTORS
REACTOME_REGULATION_OF...	10	0.174	0.00409	0.276	0.26438	1	REACTOME_REGULATION_OF_INSULIN_SECRETION_BY_A_CETYLCHOLINE
REACTOME_G_ALPHA1213_S...	68	0.0428	0.00262	0.0937	0.32384	1	REACTOME_G_ALPHA1213_SIGNALLING_EVENTS
REACTOME_FANCONI_ANEMI...	20	0.178	0.00593	0.171	0.14804	1	REACTOME_FANCONI_ANEMIA_PATHWAY
REACTOME_TRAFFICKING_O...	14	0.204	0.00568	0.203	0.15782	1	REACTOME_TRAFFICKING_OF_GLUR2_CONTAINING_AMP_A_RECEPTORS
REACTOME_ACTIVATION_OF...	9	0.137	0.00307	0.196	0.24166	1	REACTOME_ACTIVATION_OF_CHAPERONE_GENES_BY_ATF6_ALPHA
REACTOME_PROSTANOID_LI...	9	0.00523	0.000117	0.24	0.4913	1	REACTOME_PROSTANOID_LIGAND_RECEPTORS
REACTOME_OPSINS	7	-0.0336	-0.00066	0.241	0.55539	1	REACTOME_OPSINS
REACTOME_FORMATION_OF_...	41	-0.0565	-0.00269	0.107	0.70099	1	REACTOME_FORMATION_OF_RNA_POL_II_ELONGATION_COMPLEX
REACTOME_MRNA_3_END_PR...	31	0.114	0.00473	0.126	0.18284	1	REACTOME_MRNA_3_END_PROCESSING
REACTOME_POST_TRANSLAT...	24	0.182	0.00662	0.137	0.092755	1	REACTOME_POST_TRANSLATIONAL_MODIFICATION_SYNTHESIS_OF_GPI_ANCHORED_PROTEINS
REACTOME_CYCLIN_A_B1_A...	15	0.119	0.00342	0.183	0.25835	1	REACTOME_CYCLIN_A_B1_ASSOCIATED_EVENTS_DURING_G2_M_TRANSITION
REACTOME_ELONGATION_AR...	31	-0.00128	-5.28E-05	0.127	0.50402	1	REACTOME_ELONGATION_ARREST_AND_RECOVERY
REACTOME_SLC_MEDIATED_...	232	0.0268	0.00302	0.0507	0.29844	1	REACTOME_SLC_MEDIATED_TRANSMEMBRANE_TRANSPORT
REACTOME_ADP_SIGNALLIN...	25	0.0605	0.00225	0.153	0.34598	1	REACTOME_ADP_SIGNALLING_THROUGH_P2RY1
REACTOME_G_BETA_GAMMA_...	20	0.0136	0.000452	0.16	0.46618	1	REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PLATELET_ALPHA_2B_RECEPTOR
REACTOME_CD28_CO_STIMU...	31	-0.082	-0.00339	0.134	0.72984	1	REACTOME_CD28_CO-STIMULATION

REACTOME_GPCR_DOWNSTRE...	719	0.0224	0.00438	0.034	0.25508	1	REACTOME_GPCR_DOWNSTREAM_SIGNALING
REACTOME_SYNTHESIS_SEC...	15	0.0475	0.00137	0.185	0.39858	1	REACTOME_SYNTHESIS_SECRETION_AND_DEACYLATION_OF_GHRELIN
REACTOME_ADHERENS_JUNC...	27	-0.0591	-0.00228	0.173	0.63368	1	REACTOME_ADHERENS_JUNCTIONS_INTERACTIONS
REACTOME_CRMP5_IN_SEMA...	13	-0.0504	-0.00135	0.218	0.5915	1	REACTOME_CRMP5_IN_SEMA3A_SIGNALING
REACTOME_OTHER_SEMAPHO...	14	0.0168	0.000466	0.219	0.46952	1	REACTOME_OTHER_SEMAPHORIN_INTERACTIONS
REACTOME_ACTIVATION_OF...	13	0.443	0.0119	0.231	0.027579	1	REACTOME_ACTIVATION_OF_RAC
REACTOME_PURINE_SALVAGE	12	0.00774	0.000199	0.261	0.48815	1	REACTOME_PURINE_SALVAGE
REACTOME_G_ALPHA_I_SIG...	181	-0.0022	-0.000219	0.0609	0.51438	1	REACTOME_G_ALPHA_I_SIGNALLING_EVENTS
REACTOME_SEMA3A_PAK_DE...	13	-0.108	-0.00289	0.21	0.69613	1	REACTOME_SEMA3A_PAK_DEPENDENT_AXON_REPULSION
REACTOME_CD28_DEPENDEN...	11	-0.232	-0.00572	0.229	0.84421	1	REACTOME_CD28_DEPENDENT_VAV1_PATHWAY
REACTOME_SEMA4D_IN_SEM...	29	-0.148	-0.00594	0.147	0.84356	1	REACTOME_SEMA4D_IN_SEMAPHORIN_SIGNALING
REACTOME_SEMAPHORIN_IN...	62	-0.107	-0.00627	0.0966	0.86655	1	REACTOME_SEMAPHORIN_INTERACTIONS
REACTOME_SEMA4D_INDUCE...	24	-0.129	-0.00471	0.159	0.7912	1	REACTOME_SEMA4D_INDUCED_CELL_MIGRATION_AND_GROWTH_CONE_COLLAPSE
REACTOME_SEMA3A_PLEXIN...	12	-0.0318	-0.000819	0.208	0.56071	1	REACTOME_SEMA3A_PLEXIN_REPULSION_SIGNALING_BY_INHIBITING_INTEGRIN_ADHESION
REACTOME_LYSOSOME_VESI...	21	-0.0615	-0.0021	0.163	0.64707	1	REACTOME_LYSOSOME_VESICLE_BIOGENESIS
REACTOME_G_BETA_GAMMA_...	25	0.176	0.00653	0.149	0.11848	1	REACTOME_G_BETA_GAMMA_SIGNALLING_THROUGH_PI3K_GAMMA
REACTOME_TRANSPORT_OF_...	87	0.0936	0.00648	0.0861	0.13847	1	REACTOME_TRANSPORT_OF_GLUCOSE_AND_OTHER_SUGARS_BILE_SALTS_AND_ORGANIC_ACIDS_METAL_IONS_AND_AMINE_COMPOUNDS
REACTOME_SPHINGOLIPID_...	62	-0.0288	-0.00169	0.102	0.61133	1	REACTOME_SPHINGOLIPID_METABOLISM
REACTOME_PD1_SIGNALING	15	0.232	0.00667	0.206	0.13083	1	REACTOME_PD1_SIGNALING
REACTOME_G_ALPHA_S_SIG...	118	-0.0788	-0.00634	0.0742	0.85566	1	REACTOME_G_ALPHA_S_SIGNALLING_EVENTS
REACTOME_CELL_CELL_JUN...	55	-0.0821	-0.00452	0.113	0.76656	1	REACTOME_CELL_CELL_JUNCTION_ORGANIZATION
REACTOME_G_ALPHA_Z_SIG...	44	-0.0381	-0.00188	0.117	0.62715	1	REACTOME_G_ALPHA_Z_SIGNALLING_EVENTS
REACTOME_FACILITATIVE_...	12	-0.394	-0.0101	0.245	0.94588	1	REACTOME_FACILITATIVE_NA_INDEPENDENT_GLUCOSE_TRANSPORTERS
REACTOME_COSTIMULATION...	59	0.00752	0.000429	0.1	0.47002	1	REACTOME_COSTIMULATION_BY_THE_CD28_FAMILY



REACTOME_SIGNALING_BY_...	28	0.19	0.00749	0.151	0.10339	1	REACTOME_SIGNALING_BY_ROBO_RECEPTOR
REACTOME_CD28_DEPENDEN...	21	-0.0108	-0.000368	0.161	0.52678	1	REACTOME_CD28_DEPENDENT_PI3K_AKT_SIGNALING
REACTOME_TIGHT_JUNCTIO...	28	-0.0993	-0.00391	0.149	0.74744	1	REACTOME_TIGHT_JUNCTION_INTERACTIONS
REACTOME_G_PROTEIN_BET...	28	0.13	0.00512	0.141	0.17751	1	REACTOME_G_PROTEIN_BETA_GAMMA_SIGNALLING
REACTOME_TRANSPORT_OF_...	87	0.0583	0.00404	0.0826	0.23991	1	REACTOME_TRANSPORT_OF_INORGANIC_CATIONS_ANIONS_AND_AMINO_ACIDS_OLIGOPEPTIDES
REACTOME_GOLGI_ASSOCIA...	47	0.0347	0.00177	0.116	0.38197	1	REACTOME_GOLGI_ASSOCIATED_VESICLE_BIOGENESIS
REACTOME_CTLA4_INHIBIT...	21	-0.277	-0.00945	0.168	0.95035	1	REACTOME_CTLA4_INHIBITORY_SIGNALING
REACTOME_FORMATION_OF_...	27	-0.158	-0.0061	0.134	0.88082	1	REACTOME_FORMATION_OF_TRANSCRIPTION_COUPLED_NER_TC_NER_REPAIR_COMPLEX
REACTOME_AMINO_ACID_AN...	46	-0.0338	-0.0017	0.111	0.61995	1	REACTOME_AMINO_ACID_AND_OLIGOPEPTIDE_SLC_TRANSPORTERS
REACTOME_CDT1_ASSOCIAT...	53	0.0645	0.00349	0.101	0.26202	1	REACTOME_CDT1_ASSOCIATION_WITH_THE_CDC6_ORC_ORIGIN_COMPLEX
REACTOME_BRANCHED_CHAI...	16	-0.138	-0.00409	0.171	0.78984	1	REACTOME_BRANCHED_CHAIN_AMINO_ACID_CATABOLISM
REACTOME_REPAIR_SYNTHE...	14	-0.575	-0.016	0.199	0.99806	1	REACTOME_REPAIR_SYNTHESIS_FOR_GAP_FILLING_BY_DNA_POL_IN_TC_NER
REACTOME_RECEPTOR_LIGA...	11	-0.0224	-0.000552	0.229	0.53886	1	REACTOME_RECEPTOR_LIGAND_BINDING_INITIATES_THE_SECOND_PROTEOLYTIC_CLEAVAGE_OF_NOTCH_RECEPTOR
REACTOME_SYNTHESIS_OF_DNA	87	0.00617	0.000427	0.0761	0.46767	1	REACTOME_SYNTHESIS_OF_DNA
REACTOME_NA_CL_DEPENDE...	16	0.00845	0.000251	0.226	0.48508	1	REACTOME_NA_CL_DEPENDENT_NEUROTRANSMITTER_TRANSPORTERS
REACTOME_FORMATION_OF_...	29	-0.222	-0.00888	0.143	0.93939	1	REACTOME_FORMATION_OF_FIBRIN_CLOT_CLOTTING_CASCADE
REACTOME_DEADENYLATION...	19	-0.0811	-0.00263	0.163	0.69006	1	REACTOME_DEADENYLATION_OF_MRNA
REACTOME_MRNA_DECAY_BY...	14	0.105	0.00292	0.206	0.30505	1	REACTOME_MRNA_DECAY_BY_5_TO_3_EXORIBONUCLEASE
REACTOME_SIGNAL_AMPLIF...	31	0.0796	0.0033	0.132	0.27316	1	REACTOME_SIGNAL_AMPLIFICATION

REACTOME_ZINC_TRANSPOR...	15	0.148	0.00426	0.199	0.22807	1	REACTOME_ZINC_TRANSPORTERS
REACTOME_DOUBLE_STRAND...	22	-0.0143	-0.000498	0.166	0.53436	1	REACTOME_DOUBLE_STRAND_BREAK_REPAIR
REACTOME_RAS_ACTIVATIO...	17	0.127	0.00391	0.199	0.26112	1	REACTOME_RAS_ACTIVATION_UOPN_CA2_INFUX_THRO UGH_NMDA_RECEPTOR
REACTOME_METAL_ION_SLC...	21	0.127	0.00433	0.17	0.22751	1	REACTOME_METAL_ION_SLC_TRANSPORTERS
REACTOME_AUTODEGRADATI...	46	0.0375	0.00189	0.109	0.36512	1	REACTOME_AUTODEGRADATION_OF_THE_E3_UBIQUITIN _LIGASE_COP1
REACTOME_SMOOTH_MUSCLE...	23	0.0484	0.00172	0.159	0.3807	1	REACTOME_SMOOTH_MUSCLE_CONTRACTION
REACTOME_ACTIVATION_OF...	34	0.0484	0.0021	0.14	0.36463	1	REACTOME_ACTIVATION_OF_NMDA_RECEPTOR_UPON_ GLUTAMATE_BINDING_AND_POSTSYNAPTIC_EVENTS
REACTOME_CREB_PHOSPHOR...	25	-0.0187	-0.000697	0.157	0.54738	1	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ ACTIVATION_OF_RAS
REACTOME_POST_NMDA_REC...	31	-0.00174	-7.20E-05	0.145	0.5048	1	REACTOME_POST_NMDA_RECEPTOR_ACTIVATION_EVEN TS
REACTOME_UNBLOCKING_OF...	14	0.321	0.00893	0.219	0.071672	1	REACTOME_UNBLOCKING_OF_NMDA_RECEPTOR_GLUTA MATE_BINDING_AND_ACTIVATION
REACTOME_MRNA_DECAY_BY...	10	0.373	0.00878	0.187	0.023189	1	REACTOME_MRNA_DECAY_BY_3_TO_5_EXORIBONUCLEA SE
REACTOME_BILE_SALT_AND...	11	0.177	0.00436	0.213	0.20319	1	REACTOME_BILE_SALT_AND_ORGANIC_ANION_SLC_TRA NSPORTERS
REACTOME_DEADENYLATION...	43	0.113	0.00549	0.106	0.14348	1	REACTOME_DEADENYLATION_DEPENDENT_MRNA_DECA Y
REACTOME_CREB_PHOSPHOR...	15	0.255	0.00734	0.199	0.1005	1	REACTOME_CREB_PHOSPHORYLATION_THROUGH_THE_ ACTIVATION_OF_CAMKII
REACTOME_THROMBOXANE_S...	23	0.122	0.00435	0.155	0.21556	1	REACTOME_THROMBOXANE_SIGNALLING_THROUGH_TP _RECEPTOR
REACTOME_CELL_EXTRACEL...	12	-0.0634	-0.00163	0.221	0.61315	1	REACTOME_CELL_EXTRACELLULAR_MATRIX_INTERACTIO NS
REACTOME_ADP_SIGNALLIN...	21	0.043	0.00147	0.15	0.38684	1	REACTOME_ADP_SIGNALLING_THROUGH_P2RY12
REACTOME_CELL_JUNCTION...	74	-0.0511	-0.00327	0.0953	0.70415	1	REACTOME_CELL_JUNCTION_ORGANIZATION
REACTOME_AMINE_COMPOUN...	26	0.221	0.00838	0.17	0.096899	1	REACTOME_AMINE_COMPOUND_SLC_TRANSPORTERS

REACTOME_PYRUVATE_META...	16	-0.0495	-0.00147	0.184	0.60613	1	REACTOME_PYRUVATE_METABOLISM
REACTOME_PURINE_CATABO...	10	-0.1	-0.00235	0.243	0.65955	1	REACTOME_PURINE_CATABOLISM
REACTOME_GLUCOSE_TRANS...	38	0.00423	0.000194	0.119	0.4858	1	REACTOME_GLUCOSE_TRANSPORT
REACTOME_FRS2_MEDIATED...	36	-0.271	-0.0121	0.127	0.98395	1	REACTOME_FRS2_MEDIATED_CASCADE
REACTOME_METABOLISM_OF...	243	0.0879	0.0101	0.0463	0.028707	1	REACTOME_METABOLISM_OF_RNA
REACTOME_MITOTIC_G1_G1...	125	0.0698	0.00579	0.0662	0.14572	1	REACTOME_MITOTIC_G1_G1_S_PHASES
REACTOME_PI_3K_CASCADE	53	0.0137	0.000741	0.103	0.44721	1	REACTOME_PI_3K_CASCADE
REACTOME_DOWNSTREAM_SI...	96	-0.000578	-4.20E-05	0.0773	0.50298	1	REACTOME_DOWNSTREAM_SIGNALING_OF_ACTIVATED_FGFR
REACTOME_REGULATION_OF...	75	0.181	0.0117	0.0857	0.01722	1	REACTOME_REGULATION_OF_MITOTIC_CELL_CYCLE
REACTOME_TAK1_ACTIVATE...	20	0.17	0.00565	0.157	0.13922	1	REACTOME_TAK1_ACTIVATES_NFKB_BY_PHOSPHORYLATION_AND_ACTIVATION_OF_IKKS_COMPLEX
REACTOME_REGULATION_OF...	14	-0.158	-0.00441	0.207	0.77775	1	REACTOME_REGULATION_OF_AMPK_ACTIVITY_VIA_LKB1
REACTOME_MITOTIC_M_M_G...	160	0.000414	3.88E-05	0.0578	0.49714	1	REACTOME_MITOTIC_M_M_G1_PHASES
REACTOME_MYOGENESIS	27	0.112	0.00431	0.165	0.24906	1	REACTOME_MYOGENESIS
REACTOME_MAP_KINASE_AC...	44	-0.0958	-0.00472	0.112	0.80301	1	REACTOME_MAP_KINASE_ACTIVATION_IN_TLR_CASCADE
REACTOME_PHOSPHOLIPASE...	53	0.00558	0.000302	0.112	0.48013	1	REACTOME_PHOSPHOLIPASE_C_MEDIATED_CASCADE
REACTOME_ACTIVATION_OF...	30	0.0983	0.004	0.137	0.236	1	REACTOME_ACTIVATION_OF_KAINATE_RECEPTORS_UPON_N_GLUTAMATE_BINDING
REACTOME_IONOTROPIC_AC...	10	0.324	0.00761	0.262	0.10797	1	REACTOME_IONOTROPIC_ACTIVITY_OF_KAINATE_RECEPTORS
REACTOME_ACTIVATION_OF...	10	-0.0726	-0.00171	0.255	0.61198	1	REACTOME_ACTIVATION_OF_THE_AP1_FAMILY_OF_TRANSCRIPTION_FACTORS
REACTOME_MAPK_TARGETS_...	28	-0.0656	-0.00258	0.144	0.67605	1	REACTOME_MAPK_TARGETS_NUCLEAR_EVENTS_MEDIATED_BY_MAP_KINASES
REACTOME_SYNTHESIS_AND...	18	-0.146	-0.0046	0.19	0.77842	1	REACTOME_SYNTHESIS_AND_INTERCONVERSION_OF_NUCLEOTIDE_DI_AND_TRIPHOSPHATES
REACTOME_GPCR_LIGAND_B...	374	0.00873	0.00124	0.0431	0.41981	1	REACTOME_GPCR_LIGAND_BINDING
REACTOME_RNA_POL_I_RNA...	99	-0.0762	-0.00563	0.0758	0.84273	1	REACTOME_RNA_POL_I_RNA_POL_III_AND_MITOCHONDRIAL_TRANSCRIPTION

REACTOME_JNK_C_JUN_KIN...	13	0.135	0.00361	0.205	0.2552	1	REACTOME_JNK_C_JUN_KINASES_PHOSPHORYLATION_A ND_ACTIVATION_MEDIATED_BY_ACTIVATED_HUMAN_TA K1
REACTOME_SHC_MEDIATED_...	28	-0.19	-0.00748	0.138	0.91589	1	REACTOME_SHC_MEDIATED_CASCADE
REACTOME_THROMBIN_SIGN...	32	0.142	0.00598	0.131	0.13833	1	REACTOME_THROMBIN_SIGNALING_THROUGH_PROTEI NASE_ACTIVATED_RECEPTORS_PARS
REACTOME_ENERGY_DEPEND...	17	-0.0871	-0.00267	0.19	0.67691	1	REACTOME_ENERGY_DEPENDENT_REGULATION_OF_MT OR_BY_LKB1_AMPK
REACTOME_MITOTIC_G2_G2...	76	0.107	0.00694	0.0891	0.11438	1	REACTOME_MITOTIC_G2_G2_M_PHASES
REACTOME_REGULATION_OF...	10	-0.048	-0.00113	0.226	0.58409	1	REACTOME_REGULATION_OF_RHEB_GTPASE_ACTIVITY_B Y_AMPK
REACTOME_ACTIVATED_TAK...	14	-0.179	-0.00499	0.189	0.82912	1	REACTOME_ACTIVATED_TAK1_MEDIATES_P38_MAPK_AC TIVATION
REACTOME_DNA_REPAIR	102	-0.0381	-0.00286	0.0722	0.70131	1	REACTOME_DNA_REPAIR
REACTOME_EFFECTS_OF_PI...	22	-0.00235	-8.20E-05	0.175	0.50535	1	REACTOME_EFFECTS_OF_PIP2_HYDROLYSIS
REACTOME_RNA_POL_II_PR...	56	-0.0692	-0.00385	0.0947	0.76749	1	REACTOME_RNA_POL_II_PRE_TRANSCRIPTION_EVENTS
REACTOME_ROLE_OF_DCC_I...	9	0.0464	0.00104	0.322	0.44264	1	REACTOME_ROLE_OF_DCC_IN_REGULATING_APOPTOSIS REACTOME_POST_TRANSLATIONAL_PROTEIN_MODIFICA TION
REACTOME_POST_TRANSLAT...	170	-0.0244	-0.00236	0.0558	0.6691	1	
REACTOME_CHROMOSOME_MA...	99	-0.0451	-0.00333	0.0728	0.73214	1	REACTOME_CHROMOSOME_MAINTENANCE
REACTOME_DEPOSITION_OF...	48	0.0242	0.00124	0.11	0.41293	1	REACTOME_DEPOSITION_OF_NEW_CENPA_CONTAINING _NUCLEOSOMES_AT_THE_CENTROMERE
REACTOME_L1CAM_INTERAC...	76	0.0398	0.00258	0.0894	0.32817	1	REACTOME_L1CAM_INTERACTIONS
REACTOME_ROLE_OF_SECON...	8	0.342	0.00719	0.246	0.082738	1	REACTOME_ROLE_OF_SECOND_MESSENGERS_IN_NETRIN 1_SIGNALING
REACTOME_SIGNALING_BY_ILS	100	0.021	0.00156	0.0771	0.39263	1	REACTOME_SIGNALING_BY_ILS
REACTOME_NETRIN1_SIGNA...	37	0.185	0.00835	0.129	0.07546	1	REACTOME_NETRIN1_SIGNALING
REACTOME_METABOLISM_OF...	453	0.00849	0.00133	0.0361	0.40705	1	REACTOME_METABOLISM_OF_LIPIDS_AND_LIPOPROTEIN S

REACTOME_INTERACTION_B...	20	-0.291	-0.00966	0.184	0.94299	1	REACTOME_INTERACTION_BETWEEN_L1_AND_ANKYRINS
REACTOME_SIGNAL_TRANSD...	31	0.066	0.00273	0.137	0.31454	1	REACTOME_SIGNAL_TRANSDUCTION_BY_L1
REACTOME_FATTY_ACID_TR...	163	0.0555	0.00525	0.0585	0.17138	1	REACTOME_FATTY_ACID_TRIACYLGLYCEROL_AND_KETONE_BODY_METABOLISM
REACTOME_TRANSPORT_OF_...	30	-0.157	-0.00639	0.135	0.87707	1	REACTOME_TRANSPORT_OF_VITAMINS_NUCLEOSIDES_AND_RELATED_MOLECULES
REACTOME_HIGHLY_CALCIU...	11	0.0191	0.000471	0.28	0.4728	1	REACTOME_HIGHLY_CALCIIUM_PERMEABLE_POSTSYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTORS
REACTOME_RNA_POL_I_PRO...	43	0.0487	0.00237	0.131	0.35478	1	REACTOME_RNA_POL_I_PROMOTER_OPENING
REACTOME_PRESYNAPTIC_N...	12	0.522	0.0135	0.279	0.030854	1	REACTOME_PRESYNAPTIC_NICOTINIC_ACETYLCHOLINE_RECEPTORS
REACTOME_ORGANIC_CATIO...	13	0.225	0.00605	0.218	0.15076	1	REACTOME_ORGANIC_CATION_ANION_ZWITTERION_TRANSPORT
REACTOME_DCC_MEDIATED_...	13	-0.00694	-0.000186	0.218	0.51267	1	REACTOME_DCC_MEDIATED_ATTRACTIVE_SIGNALING
REACTOME_RECYCLING_PAT...	22	0.0719	0.00251	0.163	0.32922	1	REACTOME_RECYCLING_PATHWAY_OF_L1
REACTOME_SYNTHESIS_OF_...	12	-0.144	-0.00372	0.202	0.76251	1	REACTOME_SYNTHESIS_OF_SUBSTRATES_IN_N_GLYCAN_BIOSYTHESIS
REACTOME_RESPIRATORY_E...	62	-0.00813	-0.000475	0.0889	0.53644	1	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT
REACTOME_ASPARAGINE_N_...	77	-0.0316	-0.00206	0.0853	0.64463	1	REACTOME_ASPARAGINE_N_LINKED_GLYCOSYLATION
REACTOME_ASSEMBLY_OF_T...	62	0.078	0.00456	0.0924	0.19924	1	REACTOME_ASSEMBLY_OF_THE_PRE_REPLICATIVE_COMPLEX
REACTOME_BIOSYNTHESIS_...	25	-0.00993	-0.000369	0.151	0.52628	1	REACTOME_BIOSYNTHESIS_OF_THE_N_GLYCAN_PRECURSOR_DOLICHOL_LIPID_LINKED_OLIGOSACCHARIDE_LLO_AND_TRANSFER_TO_A_NASCENT_PROTEIN
REACTOME_IL1_SIGNALING	36	0.19	0.00848	0.125	0.064241	1	REACTOME_IL1_SIGNALING
REACTOME_GLOBAL_GENOMI...	31	-0.4	-0.0166	0.127	0.99921	1	REACTOME_GLOBAL_GENOMIC_NER_GG_NER
REACTOME_CGMP_EFFECTS	19	-0.0957	-0.0031	0.186	0.69623	1	REACTOME_CGMP_EFFECTS
REACTOME_REGULATION_OF...	18	-0.357	-0.0113	0.203	0.96066	1	REACTOME_REGULATION_OF_SIGNALING_BY_CBL

REACTOME_AMINO_ACID_SY...	15	0.0439	0.00126	0.198	0.41215	1	REACTOME_AMINO_ACID_SYNTHESIS_AND_INTERCONVE
REACTOME_CALNEXIN_CALR...	11	0.0646	0.00159	0.214	0.38127	1	RSION_TRANSAMINATION
REACTOME_SYNTHESIS_SEC...	12	-0.344	-0.00886	0.206	0.95261	1	REACTOME_CALNEXIN_CALRETICULIN_CYCLE
REACTOME_PASSIVE_TRANS...	11	-0.131	-0.00322	0.266	0.68852	1	REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION
REACTOME_NEPHRIN_INTER...	19	-0.244	-0.00791	0.175	0.91873	1	_OF_GIP
REACTOME_IL_3_5_AND_GM...	40	-0.0616	-0.0029	0.127	0.68589	1	REACTOME_PASSIVE_TRANSPORT_BY_AQUAPORINS
REACTOME_NITRIC_OXIDE_...	25	-0.101	-0.00376	0.169	0.72555	1	REACTOME_NEPHRIN_INTERACTIONS
REACTOME_PLATELET_HOME...	75	-0.0259	-0.00167	0.0921	0.61099	1	REACTOME_IL_3_5_AND_GM_CSF_SIGNALING
REACTOME_N_GLYCAN_TRIM...	13	0.109	0.00293	0.185	0.27733	1	REACTOME_NITRIC_OXIDE_STIMULATES_GUANYLATE_CY
REACTOME_PLATELET_SENS...	16	0.0173	0.000515	0.191	0.46397	1	CLASE
REACTOME_AQUAPORIN_MED...	49	-0.0204	-0.00106	0.116	0.56968	1	REACTOME_PLATELET_HOMEOSTASIS
REACTOME_IL_RECEPTOR_S...	24	0.022	0.000801	0.154	0.44311	1	REACTOME_N_GLYCAN_TRIMMING_IN_THE_ER_AND_CA
REACTOME_RAP1_SIGNALLING	16	0.0352	0.00105	0.201	0.43057	1	LNEXIN_CALRETICULIN_CYCLE
REACTOME_PLATELET_CALC...	15	-0.0404	-0.00116	0.219	0.57314	1	REACTOME_PLATELET_SENSITIZATION_BY_LDL
REACTOME_SIGNAL_REGULA...	12	-0.209	-0.00537	0.234	0.81353	1	REACTOME_AQUAPORIN_MEDIATED_TRANSPORT
REACTOME_PROSTACYCLIN_...	19	0.0246	0.000796	0.169	0.44211	1	REACTOME_IL_RECEPTOR_SHC_SIGNALING
REACTOME_GABA_SYNTHESI...	17	0.134	0.00412	0.199	0.24988	1	REACTOME_RAP1_SIGNALLING
REACTOME_INCRETIN_SYNT...	20	-0.177	-0.00588	0.164	0.85912	1	REACTOME_PLATELET_CALCIIUM_HOMEOSTASIS
REACTOME_TRANSPORT_OF_...	11	-0.324	-0.008	0.24	0.91218	1	REACTOME_SIGNAL_REGULATORY_PROTEIN_SIRP_FAMIL
REACTOME_SYNTHESIS_SEC...	17	0.0232	0.000711	0.183	0.44967	1	Y_INTERACTIONS
REACTOME_REGULATION_OF...	42	0.000911	4.39E-05	0.124	0.49706	1	REACTOME_PROSTACYCLIN_SIGNALLING_THROUGH_PRO
REACTOME_DESTABILIZATI...	16	0.238	0.00708	0.162	0.07105	1	STACYCLIN_RECEPTOR
							REACTOME_GABA_SYNTHESIS_RELEASE_REUPTAKE_AND
							_DEGRADATION
							REACTOME_INCRETIN_SYNTHESIS_SECRETION_AND_INAC
							TIVATION
							REACTOME_TRANSPORT_OF_ORGANIC_ANIONS
							REACTOME_SYNTHESIS_SECRETION_AND_INACTIVATION
							_OF_GLP1
							REACTOME_REGULATION_OF_WATER_BALANCE_BY_REN
							AL_AQUAPORINS
							REACTOME_DESTABILIZATION_OF_MRNA_BY_BRF1

REACTOME_IRAK1_RECRUIT...	8	0.47	0.0099	0.239	0.024347	1	REACTOME_IRAK1_RECRUITS_IKK_COMPLEX
REACTOME_TRAF6_MEDIATE...	28	-0.0829	-0.00326	0.158	0.69997	1	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION
REACTOME_CIRCADIAN_CLOCK	51	-0.0511	-0.00271	0.104	0.68868	1	REACTOME_CIRCADIAN_CLOCK
REACTOME_TRAF6_MEDIATE...	20	-0.0625	-0.00208	0.156	0.65537	1	REACTOME_TRAF6_MEDIATED_NFKB_ACTIVATION
REACTOME_FACTORS_INVOL...	118	0.0162	0.00131	0.0735	0.41264	1	REACTOME_FACTORS_INVOLVED_IN_MEGAKARYOCYTE_DEVELOPMENT_AND_PLATELET_PRODUCTION
REACTOME_REGULATION_OF...	13	0.17	0.00455	0.194	0.19069	1	REACTOME_REGULATION_OF_IFNG_SIGNALING
REACTOME_GABA_A_RECEPT...	10	-0.0822	-0.00193	0.303	0.60678	1	REACTOME_GABA_A_RECEPTOR_ACTIVATION
REACTOME_INHIBITION_OF...	25	-0.121	-0.0045	0.158	0.77879	1	REACTOME_INHIBITION_OF_VOLTAGE_GATED_CA2_CHANNELS_VIA_GBETA_GAMMA_SUBUNITS
REACTOME_IRAK2_MEDIATE...	7	0.46	0.00905	0.277	0.048297	1	REACTOME_IRAK2_MEDIATED_ACTIVATION_OF_TAK1_COMPLEX_UPON_TLR7_8_OR_9_STIMULATION
REACTOME_TRAF6_MEDIATE...	68	-0.031	-0.0019	0.0864	0.63998	1	REACTOME_TRAF6_MEDIATED_INDUCTION_OF_NFKB_AND_MAP_KINASES_UPON_TLR7_8_OR_9_ACTIVATION
REACTOME_TRAF3_DEPENDE...	14	-0.1	-0.00278	0.182	0.70838	1	REACTOME_TRAF3_DEPENDENT_IRF_ACTIVATION_PATHWAY
REACTOME_GABA_B_RECEPT...	38	-0.117	-0.00537	0.127	0.82279	1	REACTOME_GABA_B_RECEPTOR_ACTIVATION
REACTOME_NFKB_ACTIVATI...	11	0.114	0.00281	0.206	0.29051	1	REACTOME_NFKB_ACTIVATION_THROUGH_FADD_RIP1_PATHWAY_MEDIATED_BY_CASPASE_8_AND10
REACTOME_DESTABILIZATI...	16	0.336	0.00999	0.164	0.020369	1	REACTOME_DESTABILIZATION_OF_MRNA_BY_KSRP
REACTOME_TRANSPORT_TO_...	33	-0.0768	-0.00328	0.14	0.70828	1	REACTOME_TRANSPORT_TO_THE_GOLGI_AND_SUBSEQUENT_MODIFICATION
REACTOME_IRON_UPTAKE_A...	34	0.244	0.0106	0.139	0.039744	1	REACTOME_IRON_UPTAKE_AND_TRANSPORT
REACTOME_DESTABILIZATI...	16	0.301	0.00894	0.162	0.031923	1	REACTOME_DESTABILIZATION_OF_MRNA_BY_TRISTETRAPROLIN_TTP
REACTOME_INTERFERON_GA...	55	0.122	0.00673	0.11	0.1328	1	REACTOME_INTERFERON_GAMMA_SIGNALING
REACTOME_N_GLYCAN_ANTE...	14	-0.293	-0.00814	0.227	0.90168	1	REACTOME_N_GLYCAN_ANTENNAE_ELONGATION
REACTOME_TRAF6_MEDIATE...	7	-0.214	-0.00421	0.219	0.8351	1	REACTOME_TRAF6_MEDIATED_IRF7_ACTIVATION_IN_TLR7_8_OR_9_SIGNALING
REACTOME_ACTIVATION_OF...	13	0.173	0.00463	0.217	0.21344	1	REACTOME_ACTIVATION_OF_IRF3_IRF7_MEDIATED_BY_TBK1_IKK_EPSILON

REACTOME_ION_TRANSPORT...	30	-0.0362	-0.00147	0.156	0.59153	1	REACTOME_ION_TRANSPORT_BY_P_TYPE_ATPASES
REACTOME_INTERFERON_AL...	60	0.136	0.00783	0.112	0.11131	1	REACTOME_INTERFERON_ALPHA_BETA_SIGNALING
REACTOME_ADVANCED_GLYC...	13	-0.142	-0.00381	0.197	0.76492	1	REACTOME_ADVANCED_GLYCOSYLATION_ENDPRODUCT_RECEPTOR_SIGNALING
REACTOME_GABA_RECEPTOR...	50	-0.113	-0.00594	0.115	0.83689	1	REACTOME_GABA_RECEPTOR_ACTIVATION
REACTOME_KINESINS	23	-0.0694	-0.00247	0.156	0.67147	1	REACTOME_KINESINS
REACTOME_N_GLYCAN_ANTE...	18	-0.23	-0.00726	0.199	0.87612	1	REACTOME_N_GLYCAN_ANTENNAE_ELONGATION_IN_THE_MEDIAL_TRANS_GOLGI
REACTOME_REGULATION_OF...	22	0.0983	0.00343	0.219	0.32692	1	REACTOME_REGULATION_OF_IFNA_SIGNALING
REACTOME_INTERFERON_SI...	147	0.0629	0.00565	0.0647	0.16558	1	REACTOME_INTERFERON_SIGNALING
REACTOME_NEGATIVE_REGU...	29	0.107	0.00426	0.139	0.22095	1	REACTOME_NEGATIVE_REGULATORS_OF_RIG_I_MDA5_SIGNALING
REACTOME_NFKB_AND_MAP_...	65	-0.0324	-0.00194	0.0924	0.63719	1	REACTOME_NFKB_AND_MAP_KINASES_ACTIVATION_MEDIATED_BY_TLR4_SIGNALING_REPERTOIRE
REACTOME_TRANSFERRIN_E...	24	0.151	0.00548	0.159	0.17184	1	REACTOME_TRANSFERRIN_ENDOCYTOSIS_AND_RECYCLING
REACTOME_DSCAM_INTERAC...	11	0.0166	0.000409	0.242	0.47264	1	REACTOME_DSCAM_INTERACTIONS
REACTOME_ION_CHANNEL_T...	48	-0.0903	-0.00465	0.124	0.76619	1	REACTOME_ION_CHANNEL_TRANSPORT
REACTOME_DESTABILIZATI...	49	0.13	0.00677	0.106	0.10973	1	REACTOME_DESTABILIZATION_OF_MRNA_BY_AUF1_HNRNP_D0
REACTOME_TRAF6_MEDIATE...	12	0.158	0.00407	0.221	0.23739	1	REACTOME_TRAF6_MEDIATED_INDUCTION_OF_TAK1_COMPLEX
REACTOME_RIG_I_MDA5_ME...	68	0.134	0.00823	0.0959	0.08038	1	REACTOME_RIG_I_MDA5_MEDIATED_INDUCTION_OF_IFN_ALPHA_BETA_PATHWAYS
REACTOME_IKK_COMPLEX_R...	9	0.347	0.00775	0.253	0.084767	1	REACTOME_IKK_COMPLEX_RECRUITMENT_MEDIATED_BY_RIP1
REACTOME_LIGAND_GATED_...	18	-0.181	-0.0057	0.204	0.81284	1	REACTOME_LIGAND_GATED_ION_CHANNEL_TRANSPORT
REACTOME_FORMATION_OF_...	19	-0.341	-0.011	0.159	0.98386	1	REACTOME_FORMATION_OF_INCISION_COMPLEX_IN_GG_NER
REACTOME_TRANSCRIPTION...	67	0.017	0.00103	0.087	0.42257	1	REACTOME_TRANSCRIPTIONAL_REGULATION_OF_WHITE_ADIPOCYTE_DIFFERENTIATION



REACTOME_ENDOSOMAL_SOR...	26	-0.014	-0.00053	0.139	0.54003	1	REACTOME_ENDOSOMAL_SORTING_COMPLEX_REQUIRE
REACTOME_MEIOTIC_RECOM...	66	0.128	0.00774	0.101	0.10263	1	D_FOR_TRANSPORT_ESCRT
REACTOME_IL_2_SIGNALING	38	-0.0785	-0.00359	0.122	0.73983	1	REACTOME_MEIOTIC_RECOMBINATION
REACTOME_IL_6_SIGNALING	10	-0.027	-0.000636	0.268	0.54012	1	REACTOME_IL_2_SIGNALING
							REACTOME_IL_6_SIGNALING
							REACTOME_PLATELET_AGGREGATION_PLUG_FORMATIO
REACTOME_PLATELET_AGGR...	35	0.00744	0.000327	0.118	0.47479	1	N
REACTOME_SIGNALING_BY_...	96	-0.00886	-0.000644	0.0786	0.54487	1	REACTOME_SIGNALING_BY_NOTCH
REACTOME_LAGGING_STRAN...	17	-0.29	-0.0089	0.156	0.96867	1	REACTOME_LAGGING_STRAND_SYNTHESIS
REACTOME_INTRINSIC_PAT...	14	-0.0892	-0.00248	0.192	0.67906	1	REACTOME_INTRINSIC_PATHWAY
							REACTOME_INHIBITION_OF_REPLICATION_INITIATION_O
REACTOME_INHIBITION_OF...	9	-0.105	-0.00234	0.211	0.69011	1	F_DAMAGED_DNA_BY_RB1_E2F1
REACTOME_ETHANOL_OXIDA...	10	-0.259	-0.0061	0.315	0.79524	1	REACTOME_ETHANOL_OXIDATION
							REACTOME_SYNTHESIS_OF_VERY_LONG_CHAIN_FATTY_A
REACTOME_SYNTHESIS_OF_...	13	0.362	0.0097	0.202	0.036719	1	CYL_COAS
REACTOME_DNA_REPLICATION	180	-0.0174	-0.00172	0.0545	0.62504	1	REACTOME_DNA_REPLICATION
							REACTOME_CLEAVAGE_OF_GROWING_TRANSCRIPT_IN_T
REACTOME_CLEAVAGE_OF_G...	40	0.0738	0.00347	0.109	0.24916	1	HE_TERMINATION_REGION_
REACTOME_PKB_MEDIATED_...	28	0.0629	0.00247	0.135	0.32024	1	REACTOME_PKB_MEDIATED_EVENTS
							REACTOME_E2F_MEDIATED_REGULATION_OF_DNA_REP
REACTOME_E2F_MEDIATED_...	30	0.129	0.00526	0.126	0.15288	1	LICATION
REACTOME_METABOLISM_OF...	222	-0.0213	-0.00234	0.0508	0.66242	1	REACTOME_METABOLISM_OF_CARBOHYDRATES
							REACTOME_HORMONE_SENSITIVE_LIPASE_HSL_MEDIATE
REACTOME_HORMONE_SENSI...	12	-0.176	-0.00453	0.191	0.82077	1	D_TRIACYLGLYCEROL_HYDROLYSIS
REACTOME_SIGNALING_BY_...	104	-0.0851	-0.00644	0.0739	0.87527	1	REACTOME_SIGNALING_BY_INSULIN_RECEPTOR
REACTOME_SIGNAL_ATTENU...	13	-0.0576	-0.00154	0.204	0.61109	1	REACTOME_SIGNAL_ATTENUATION
REACTOME_PURINE_METABO...	32	0.035	0.00147	0.131	0.39465	1	REACTOME_PURINE_METABOLISM
REACTOME_SOS_MEDIATED_...	14	-0.456	-0.0127	0.192	0.99126	1	REACTOME_SOS_MEDIATED_SIGNALLING
							REACTOME_RNA_POL_III_TRANSCRIPTION_INITIATION_F
REACTOME_RNA_POL_III_T...	26	-0.203	-0.0077	0.139	0.92742	1	ROM_TYPE_3_PROMOTER
REACTOME_APOPTOSIS	136	-0.0303	-0.00262	0.0653	0.67857	1	REACTOME_APOPTOSIS
							REACTOME_LIPID_DIGESTION_MOBILIZATION_AND_TRA
REACTOME_LIPID_DIGESTI...	45	-0.0247	-0.00123	0.11	0.58915	1	NSPORT

REACTOME_HEMOSTASIS	429	-0.00804	-0.00122	0.0379	0.58404	1	REACTOME_HEMOSTASIS
REACTOME_INFLUENZA_LIF...	129	0.0632	0.00532	0.062	0.15422	1	REACTOME_INFLUENZA_LIFE_CYCLE
REACTOME_INFLUENZA_VIR...	95	0.096	0.00694	0.0708	0.087417	1	REACTOME_INFLUENZA_VIRAL_RNA_TRANSCRIPTION_AND_REPLICATION
REACTOME_NEP_NS2_INTER...	27	-0.12	-0.00462	0.143	0.79827	1	REACTOME_NEP_NS2_INTERACTS_WITH_THE_CELLULAR_EXPORT_MACHINERY
REACTOME_HIV_INFECTI...	186	-0.00903	-0.000911	0.0538	0.56664	1	REACTOME_HIV_INFECTI...
REACTOME_TRANSPORT_OF_...	27	-0.1	-0.00387	0.145	0.7553	1	REACTOME_TRANSPORT_OF_RIBONUCLEOPROTEINS INTO_THE_HOST_NUCLEUS
REACTOME_HIV_LIFE_CYCLE	111	0.00638	0.000499	0.0683	0.46275	1	REACTOME_HIV_LIFE_CYCLE
REACTOME_ABORTIVE_ELON...	23	0.0459	0.00164	0.14	0.37156	1	REACTOME_ABORTIVE_ELONGATION_OF_HIV1_TRANSCRIPTION_IN_THE_ABSENCE_OF_TAT
REACTOME_EARLY_PHASE_O...	13	0.151	0.00404	0.196	0.22117	1	REACTOME_EARLY_PHASE_OF_HIV_LIFE_CYCLE
REACTOME_HOST_INTERACT...	116	-0.0197	-0.00157	0.0691	0.61204	1	REACTOME_HOST_INTERACTIONS_OF_HIV_FACTORS
REACTOME_RNA_POL_III_T...	19	-0.188	-0.00608	0.161	0.87787	1	REACTOME_RNA_POL_III_TRANSCRIPTION_TERMINATION
REACTOME_RESPIRATORY_E...	78	0.00943	0.000618	0.0776	0.45164	1	REACTOME_RESPIRATORY_ELECTRON_TRANSPORT_ATP_SYNTHESIS_BY_CHEMIOSMOTIC_COUPLING_AND_HEAT_PRODUCTION_BY_UNCOUPLING_PROTEINS
REACTOME_FORMATION_OF_...	31	-0.0815	-0.00337	0.121	0.75037	1	REACTOME_FORMATION_OF_THE_HIV1_EARLY_ELONGATION_COMPLEX
REACTOME_RAF_MAP_KINAS...	10	-0.505	-0.0119	0.222	0.98839	1	REACTOME_RAF_MAP_KINASE_CASCADE
REACTOME_VIRAL_MESSENG...	14	-0.0727	-0.00202	0.182	0.65547	1	REACTOME_VIRAL_MESSENGER_RNA_SYNTHESIS
REACTOME_LATE_PHASE_OF...	98	-0.0135	-0.00099	0.0727	0.57357	1	REACTOME_LATE_PHASE_OF_HIV_LIFE_CYCLE
REACTOME_SHC_MEDIATED_...	15	-0.262	-0.00755	0.174	0.93412	1	REACTOME_SHC_MEDIATED_SIGNALLING
REACTOME_INTERACTIONS_...	30	-0.0198	-0.000808	0.131	0.56019	1	REACTOME_INTERACTIONS_OF_VPR_WITH_HOST_CELLULAR_PROTEINS
REACTOME_FORMATION_OF_...	13	0.136	0.00364	0.169	0.21161	1	REACTOME_FORMATION_OF_ATP_BY_CHEMIOSMOTIC_COUPLING

REACTOME_APC_C_CDH1_ME...	62	0.187	0.0109	0.0943	0.023642	1	REACTOME_APC_C_CDH1_MEDIATED_DEGRADATION_OF_CDC20_AND_OTHER_APC_C_CDH1_TARGETED_PROTEIN_S_IN_LATE_MITOSIS_EARLY_G1
REACTOME_ACTIVATION_OF...	35	-0.0444	-0.00195	0.118	0.64675	1	REACTOME_ACTIVATION_OF_ATR_IN_RESPONSE_TO_REPLICATION_STRESS
REACTOME_UNWINDING_OF_DNA	11	0.251	0.00619	0.199	0.10409	1	REACTOME_UNWINDING_OF_DNA
REACTOME_APC_C_CDC20_M...	63	0.188	0.0111	0.094	0.023023	1	REACTOME_APC_C_CDC20_MEDIATED_DEGRADATION_OF_MITOTIC_PROTEINS
REACTOME_GLUCURONIDATION	18	0.0714	0.00225	0.251	0.38817	1	REACTOME_GLUCURONIDATION
REACTOME_AUTODEGRADATI...	54	0.223	0.0122	0.103	0.014889	1	REACTOME_AUTODEGRADATION_OF_CDH1_BY_CDH1_APC_C
REACTOME_MYD88_MAL_CAS...	75	-0.00562	-0.000361	0.0828	0.52705	1	REACTOME_MYD88_MAL_CASCADE_INITIATED_ON_PLASMA_MEMBRANE
REACTOME_INNATE_IMMUNE...	243	0.0223	0.00256	0.0506	0.32996	1	REACTOME_INNATE_IMMUNE_SYSTEM
REACTOME_REGULATION_OF...	27	-0.149	-0.00575	0.139	0.85846	1	REACTOME_REGULATION_OF_GLUKOKINASE_BY_GLUKOKINASE_REGULATORY_PROTEIN
REACTOME_MITOTIC_PROMET...	82	-0.0212	-0.00142	0.0843	0.59932	1	REACTOME_MITOTIC_PROMETAPHASE
REACTOME_SCF_BETA_TRCP...	48	0.0974	0.00501	0.105	0.17781	1	REACTOME_SCF_BETA_TRCP_MEDIATED_DEGRADATION_OF_EMI1
REACTOME_LIPOPROTEIN_M...	28	0.0667	0.00262	0.142	0.31916	1	REACTOME_LIPOPROTEIN_METABOLISM
REACTOME_G1_S_SPECIFIC...	16	0.271	0.00806	0.167	0.051977	1	REACTOME_G1_S_SPECIFIC_TRANSCRIPTION
REACTOME_THE_ROLE_OF_N...	26	-0.168	-0.00638	0.148	0.87207	1	REACTOME_THE_ROLE_OF_NEF_IN_HIV1_REPLICATION_AND_DISEASE_PATHOGENESIS
REACTOME_CHYLOMICRON_M...	16	0.138	0.0041	0.189	0.23247	1	REACTOME_CHYLOMICRON_MEDIATED_LIPID_TRANSPORT
REACTOME_SIGNALING_BY_...	59	-0.0728	-0.00415	0.0986	0.76982	1	REACTOME_SIGNALING_BY_TGF_BETA_RECEPTOR_COMPLEX
REACTOME_ACTIVATED_TLR...	85	0.0108	0.000738	0.079	0.44571	1	REACTOME_ACTIVATED_TLR4_SIGNALLING
REACTOME_IMMUNE_SYSTEM	841	0.0414	0.00873	0.0273	0.064944	1	REACTOME_IMMUNE_SYSTEM
REACTOME_BINDING_AND_E...	4	-0.314	-0.00467	0.397	0.78524	1	REACTOME_BINDING_AND_ENTRY_OF_HIV_VIRION
REACTOME_CYTOSOLIC_SUL...	13	0.13	0.00349	0.232	0.28741	1	REACTOME_CYTOSOLIC_SULFONATION_OF_SMALL_MOLECULES

REACTOME_INTEGRATION_O...	8	0.168	0.00354	0.243	0.24415	1	REACTOME_INTEGRATION_OF_PROVIRUS
REACTOME_GLUTATHIONE_C...	23	0.0526	0.00188	0.173	0.38078	1	REACTOME_GLUTATHIONE_CONJUGATION
REACTOME_COMPLEMENT_CA...	29	-0.016	-0.000639	0.159	0.53988	1	REACTOME_COMPLEMENT_CASCADE
REACTOME_PHASE_II_CONJ...	68	0.0556	0.00341	0.103	0.29469	1	REACTOME_PHASE_II_CONJUGATION
REACTOME_MTORC1_MEDIAT...	11	0.261	0.00644	0.203	0.09945	1	REACTOME_MTORC1_MEDIATED_SIGNALLING
REACTOME_TOLL_RECEPTOR...	106	0.043	0.00328	0.0713	0.27315	1	REACTOME_TOLL_RECEPTOR_CASCADES
REACTOME_ACTIVATION_OF...	16	-0.0137	-0.000406	0.191	0.52849	1	REACTOME_ACTIVATION_OF_BH3_ONLY_PROTEINS
REACTOME_GLUCOSE_METAB...	59	0.00836	0.000477	0.0991	0.46638	1	REACTOME_GLUCOSE_METABOLISM
REACTOME_RNA_POL_III_C...	17	-0.198	-0.00606	0.164	0.88531	1	REACTOME_RNA_POL_III_CHAIN_ELONGATION
REACTOME_VOLTAGE_GATED...	42	-0.0247	-0.00119	0.14	0.57017	1	REACTOME_VOLTAGE_GATED_POTASSIUM_CHANNELS
REACTOME_ADAPTIVE_IMMU...	485	0.0767	0.0124	0.0352	0.014584	1	REACTOME_ADAPTIVE_IMMUNE_SYSTEM
REACTOME_NOD1_2_SIGNAL...	27	0.0744	0.00287	0.14	0.29734	1	REACTOME_NOD1_2_SIGNALING_PATHWAY
REACTOME_CYTOKINE_SIGN...	250	0.0216	0.00252	0.0495	0.33122	1	REACTOME_CYTOKINE_SIGNALING_IN_IMMUNE_SYSTEM
REACTOME_MEIOTIC_SYNAPSI...	57	0.0748	0.00419	0.0964	0.21892	1	REACTOME_MEIOTIC_SYNAPSI...
REACTOME_ANTIGEN_PRESE...	20	0.323	0.0107	0.17	0.028891	1	REACTOME_ANTIGEN_PRESENTATION_FOLDING_ASSEMBLY_AND_PEPTIDE_LOADING_OF_CLASS_I_MHC
REACTOME_THE_NLRP3_INF...	10	0.4	0.0094	0.221	0.035153	1	REACTOME_THE_NLRP3_INFLAMMASOME
REACTOME_CLASS_I_MHC_M...	223	0.069	0.00762	0.0517	0.090865	1	REACTOME_CLASS_I_MHC_MEDIATED_ANTIGEN_PROCESSING_PRESENTATION
REACTOME_NONSENSE_MEDI...	98	0.134	0.00983	0.0701	0.0281	1	REACTOME_NONSENSE_MEDIATED_DECAY_ENHANCED_BY_THE_EXON_JUNCTION_COMPLEX
REACTOME_PIP3_ACTIVATE...	26	0.203	0.00769	0.138	0.070401	1	REACTOME_PIP3_ACTIVATES_AKT_SIGNALING
REACTOME_ANTIGEN_PROCE...	189	0.0449	0.00457	0.0554	0.20889	1	REACTOME_ANTIGEN_PROCESSING_UBIQUITINATION_PROTEASOME_DEGRADATION
REACTOME_TANDEM_PORE_D...	12	0.214	0.00552	0.259	0.20378	1	REACTOME_TANDEM_PORE_DOMAIN_POTASSIUM_CHANNELS
REACTOME_INFLAMMASOMES	15	0.287	0.00828	0.18	0.055605	1	REACTOME_INFLAMMASOMES
REACTOME_POTASSIUM_CHA...	97	-0.025	-0.00183	0.0864	0.61386	1	REACTOME_POTASSIUM_CHANNELS

REACTOME_NUCLEOTIDE_BI...	41	0.15	0.00715	0.112	0.089222	1	REACTOME_NUCLEOTIDE_BINDING_DOMAIN_LEUCINE_R ICH_REPEAT_CONTAINING_RECEPTOR_NLR_SIGNALING_P ATHWAYS
REACTOME_INWARDLY_RECT...	31	-0.0854	-0.00353	0.142	0.7269	1	REACTOME_INWARDLY_RECTIFYING_K_CHANNELS
REACTOME_AMYLOIDS	63	-0.0403	-0.00237	0.107	0.64735	1	REACTOME_AMYLOIDS
REACTOME_PACKAGING_OF_...	36	0.177	0.00788	0.121	0.071539	1	REACTOME_PACKAGING_OF_TELOMERE_ENDS
REACTOME_TELOMERE_MAIN...	60	-0.022	-0.00126	0.0912	0.59517	1	REACTOME_TELOMERE_MAINTENANCE
REACTOME_PLATELET_ACTI...	188	0.0713	0.00724	0.0553	0.09854	1	REACTOME_PLATELET_ACTIVATION_SIGNALING_AND_AG GREGATION
REACTOME_REMOVAL_OF_TH...	10	-0.306	-0.0072	0.223	0.91543	1	REACTOME_REMOVAL_OF_THE_FLAP_INTERMEDIATE_FR OM_THE_C_STRAND
REACTOME_CREATION_OF_C...	8	0.157	0.00331	0.379	0.33896	1	REACTOME_CREATION_OF_C4_AND_C2_ACTIVATORS
REACTOME_INITIAL_TRIGG...	13	0.159	0.00426	0.253	0.26532	1	REACTOME_INITIAL_TRIGGERING_OF_COMPLEMENT
REACTOME_EXTENSION_OF_...	24	-0.286	-0.0104	0.139	0.98013	1	REACTOME_EXTENSION_OF_TELOMERES
REACTOME_G2_M_CHECKPOINTS	41	-0.0116	-0.000553	0.112	0.54139	1	REACTOME_G2_M_CHECKPOINTS
REACTOME_G2_M_DNA_DAMA...	9	0.0418	0.000934	0.314	0.44698	1	REACTOME_G2_M_DNA_DAMAGE_CHECKPOINT
REACTOME_S_PHASE	103	0.0435	0.00328	0.0698	0.26644	1	REACTOME_S_PHASE
REACTOME_SCFSKP2_MEDIA...	52	0.169	0.00907	0.103	0.049242	1	REACTOME_SCFSKP2_MEDIATED_DEGRADATION_OF_P27 _P21
REACTOME_TRYPTOPHAN_CA...	11	0.0312	0.000771	0.253	0.45082	1	REACTOME_TRYPTOPHAN_CATABOLISM
REACTOME_DNA_STRAND_EL...	28	-0.085	-0.00334	0.123	0.75545	1	REACTOME_DNA_STRAND_ELONGATION
REACTOME_RESOLUTION_OF...	12	0.0721	0.00186	0.202	0.3602	1	REACTOME_RESOLUTION_OF_AP_SITES_VIA_THE_SINGLE _NUCLEOTIDE_REPLACEMENT_PATHWAY
REACTOME_FGFR_LIGAND_B...	22	-0.195	-0.00681	0.174	0.86975	1	REACTOME_FGFR_LIGAND_BINDING_AND_ACTIVATION
REACTOME_CHOLESTEROL_B...	20	-0.0652	-0.00217	0.174	0.64619	1	REACTOME_CHOLESTEROL_BIOSYNTHESIS
REACTOME_APOBEC3G_MEDI...	5	-0.0317	-0.000528	0.273	0.54634	1	REACTOME_APOBEC3G_MEDIATED_RESISTANCE_TO_HIV 1_INFECTION
REACTOME_GAP_JUNCTION_...	25	0.103	0.00384	0.161	0.2605	1	REACTOME_GAP_JUNCTION_TRAFFICKING
REACTOME_FGFR2C_LIGAND...	12	-0.182	-0.00468	0.228	0.78749	1	REACTOME_FGFR2C_LIGAND_BINDING_AND_ACTIVATIO N

REACTOME_METABOLISM_OF...	13	-0.109	-0.00291	0.189	0.71679	1	REACTOME_METABOLISM_OF_PORPHYRINS
REACTOME_FGFR4_LIGAND_...	12	-0.32	-0.00824	0.227	0.92026	1	REACTOME_FGFR4_LIGAND_BINDING_AND_ACTIVATION
REACTOME_VIF_MEDIATED_...	48	0.111	0.00573	0.107	0.14833	1	REACTOME_VIF_MEDIATED_DEGRADATION_OF_APOBEC 3G
REACTOME_SIGNALING_BY_...	107	-0.00322	-0.000247	0.0735	0.51744	1	REACTOME_SIGNALING_BY_FGFR
REACTOME_DIGESTION_OF_...	9	0.508	0.0113	0.291	0.04025	1	REACTOME_DIGESTION_OF_DIETARY_CARBOHYDRATE
REACTOME_FGFR1_LIGAND_...	14	-0.171	-0.00476	0.208	0.79436	1	REACTOME_FGFR1_LIGAND_BINDING_AND_ACTIVATION
REACTOME_GAP_JUNCTION_...	16	0.174	0.00517	0.212	0.20652	1	REACTOME_GAP_JUNCTION_ASSEMBLY
REACTOME_SYNTHESIS_OF_...	16	0.00207	6.15E-05	0.168	0.49509	1	REACTOME_SYNTHESIS_OF_GLYCOSYLPHOSPHATIDYLINO SITOL_GPI
REACTOME_RNA_POL_I_TRA...	22	-0.212	-0.00739	0.141	0.93336	1	REACTOME_RNA_POL_I_TRANSCRIPTION_INITIATION
REACTOME_PYRIMIDINE_ME...	24	-0.198	-0.00721	0.163	0.88805	1	REACTOME_PYRIMIDINE_METABOLISM
REACTOME_INTRINSIC_PAT...	28	0.0629	0.00248	0.144	0.33101	1	REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS
REACTOME_PI3K_CASCADE	68	-0.101	-0.00616	0.0927	0.86098	1	REACTOME_PI3K_CASCADE
REACTOME_APOPTOTIC_EXE...	48	-0.28	-0.0144	0.108	0.99522	1	REACTOME_APOPTOTIC_EXECUTION_PHASE
REACTOME_SHC_RELATED_E...	17	-0.272	-0.00833	0.167	0.94778	1	REACTOME_SHC_RELATED_EVENTS
NABA_COLLAGENS	42	0.0443	0.00213	0.13	0.36631	1	NABA_COLLAGENS
NABA_ECM_GLYCOPROTEINS	186	-0.0228	-0.00231	0.0593	0.64996	1	NABA_ECM_GLYCOPROTEINS
NABA_ECM_REGULATORS	233	-0.0349	-0.00394	0.0563	0.73241	1	NABA_ECM_REGULATORS
NABA_ECM_AFFILIATED	164	0.00836	0.000793	0.0653	0.44907	1	NABA_ECM_AFFILIATED
NABA_PROTEOGLYCANS	33	0.0414	0.00177	0.143	0.38651	1	NABA_PROTEOGLYCANS
NABA_SECRETED_FACTORS	323	0.0789	0.0105	0.049	0.053823	1	NABA_SECRETED_FACTORS
NABA_CORE_MATRISOME	261	-0.00483	-0.000576	0.0511	0.53766	1	NABA_CORE_MATRISOME
NABA_MATRISOME_ASSOCIATED	720	0.0253	0.00495	0.0326	0.21916	1	NABA_MATRISOME_ASSOCIATED
NABA_BASEMENT_MEMBRANES	37	0.184	0.00831	0.142	0.098283	1	NABA_BASEMENT_MEMBRANES
NABA_MATRISOME	981	0.0169	0.00382	0.0278	0.27169	1	NABA_MATRISOME