

Supplemental Table 9: List of WikiPathway pathways enriched among PAC-coexpressed genes. Term, which pathway; Overlap, number of genes that overlap and total genes; P-value, enrichment p-value; Adjusted P-value, Q-value; Odds Ratio, enrichment; Combined Score, approximation of overall association (-log10(P) * log(Odds)), Genes, genes in the pathway which are co-expressed with COBLL1.

Term	Overlap	P-value	Adjusted P-value	Old P-value	Old Adjusted P-value	Odds Ratio	Combined Score	Genes
Regulation of Actin Cytoskeleton WP51	8/150	3.53E-05	0.005716497452	0	0	7.066654705	72.44731104	PIK3CA;ROCK2;ITGA1;FGF13;ARHGFE7;CRK;FGFR2;ARHGFE6
Integrin-mediated Cell Adhesion WP185	6/101	1.91E-04	0.01547760381	0	0	7.841112214	67.14195699	ITGAM;ROCK2;ITGA1;ARHGFE7;CRK;TNS1
Hippo-Merlin Signaling Dysregulation WP4541	6/120	4.84E-04	0.02615506119	0	0	6.527970871	49.82602113	PPP1R14A;ITGAM;LATS2;ITGA1;TEAD1;FGFR2
Transcription factor regulation in adipogenesis WP3599	3/22	7.57E-04	0.0265264414	0	0	19.31384016	138.8017185	LEP;NR1P1;IRS2
Hippo-Yap signaling pathway WP4537	3/23	8.65E-04	0.0265264414	0	0	18.34722222	129.4017394	LATS2;TEAD1;MAP4K3
Angiogenesis WP1539	3/24	9.82E-04	0.0265264414	0	0	17.47266314	121.0060571	ANGPT1;PIK3CA;FGFR2
RAC1/PAK1/p38/MMP2 Pathway WP3303	4/68	0.002413216991	0.04922183061	0	0	7.67507764	46.25611625	PIK3CA;ANGPT1;TNIP1;CRK
Endothelin Pathways WP2197	3/33	0.00250832961	0.04922183061	0	0	12.22530864	73.20683819	NPY1R;ECE1;GNAI1
Signaling of Hepatocyte Growth Factor Receptor WP313	3/34	0.002734546145	0.04922183061	0	0	11.83034648	69.82021816	PIK3CA;ITGA1;CRK
Microglia Pathogen Phagocytosis Pathway WP3937	3/40	0.004354844189	0.06625395919	0	0	9.908908909	53.86945081	ITGAM;FCER1G;PIK3CA
Adipogenesis WP236	5/130	0.004498725624	0.06625395919	0	0	4.9275	26.6280184	MBNL1;LEP;NR1P1;IRS2;PLIN1
MicroRNAs in cardiomyocyte hypertrophy WP1544	4/84	0.005165305624	0.06973162592	0	0	6.135093168	32.30611842	PIK3CA;ROCK2;LRP5;FGFR2
Phytochemical activity on NRF2 transcriptional activation WP3	2/15	0.006619586347	0.08249022987	0	0	18.70882492	93.8756898	GCLC;PIK3CA
Leptin Insulin Overlap WP3935	2/17	0.008481837734	0.09558953673	0	0	16.21267894	77.3316922	LEP;IRS2
Pathways Regulating Hippo Signaling WP4540	4/98	0.00885088303	0.09558953673	0	0	5.21765561	24.66510012	TCF7L2;LATS2;TEAD1;FGFR2
Transcription co-factors SKI and SKIL protein partners WP4533	2/18	0.009490728285	0.09609362389	0	0	15.19861963	70.78665791	LATS2;TEAD1
Focal Adhesion-PI3K-Akt-mTOR-signaling pathway WP3932	7/303	0.01305905678	0.1237434417	0	0	2.924499658	12.68727902	PIK3CA;ANGPT1;CAB39L;IRS2;FGF13;FGFR2;THBS4
Wnt Signaling WP428	4/115	0.01521981541	0.1237434417	0	0	4.414750154	18.47642275	TCF7L2;ROCK2;CTNBP1;LRP5
Endometrial cancer WP4155	3/63	0.01525368398	0.1237434417	0	0	6.103395062	25.53010014	TCF7L2;PIK3CA;FGFR2
NRF2-ARE regulation WP4357	2/23	0.01527696811	0.1237434417	0	0	11.57697926	48.40808453	GCLC;PIK3CA
GPCRs, Class B Secretin-like WP334	2/24	0.01657647246	0.1278756447	0	0	11.0501952	45.30326885	VIPR1;SCTR
Vitamin D Receptor Pathway WP2877	5/182	0.01763264946	0.1298404188	0	0	3.47069209	14.01466512	LPGAT1;ITGAM;NR1P1;ID4;LRP5
Arrhythmogenic Right Ventricular Cardiomyopathy WP2118	3/74	0.02332502782	0.1577122528	0	0	5.154929577	19.37340243	TCF7L2;ITGA1;DSG2
Angiotensin Like Protein 8 Regulatory Pathway WP3915	4/132	0.02391282651	0.1577122528	0	0	3.82511646	14.28046139	PIK3CA;IRS2;CRK;MAP4K3
Focal Adhesion WP306	5/198	0.02433831062	0.1577122528	0	0	3.180375648	11.81733325	PIK3CA;ROCK2;ITGA1;CRK;THBS4
Ovarian Infertility Genes WP34	2/32	0.02853989391	0.1778254928	0	0	8.100204499	28.8079916	GJA4;NR1P1
ncRNAs involved in Wnt signaling in hepatocellular carcinoma WP4336	3/86	0.03430245953	0.2023461694	0	0	4.406961178	14.86264501	TCF7L2;CTNBP1;LRP5
Catalytic cycle of mammalian Flavin-containing MonoOxygenases (FMOs)	1/5	0.04057874345	0.2023461694	0	0	30.23018293	96.87295099	FMO3
Sulindac Metabolic Pathway WP2542	1/5	0.04057874345	0.2023461694	0	0	30.23018293	96.87295099	MSRB3
G13 Signaling Pathway WP524	2/39	0.04107582102	0.2023461694	0	0	6.565412038	20.95899875	PIK3CA;ROCK2
Corticotropin-releasing hormone signaling pathway WP2355	3/93	0.04173920331	0.2023461694	0	0	4.062757202	12.90459446	CRHBP;ECE1;GNAI1
Sudden Infant Death Syndrome (SIDS) Susceptibility Pathways WP706	4/158	0.0420698762	0.2023461694	0	0	3.175123014	10.06013381	VIPR1;ECE1;FMO3;SPTBN1
LncRNA involvement in canonical Wnt signaling and colorectal cancer	3/94	0.0428625935	0.2023461694	0	0	4.017908018	12.655429	TCF7L2;CTNBP1;LRP5
Epithelial to mesenchymal transition in colorectal cancer WP4239	4/159	0.04288883262	0.2023461694	0	0	3.154478061	9.933905023	TJP1;LATS2;PIK3CA;LRP5
Insulin Signaling WP481	4/160	0.04371676499	0.2023461694	0	0	3.134097786	9.809800074	PIK3CA;IRS2;CRK;MAP4K3
Chemokine signaling pathway WP3929	4/164	0.0471181892	0.2120318514	0	0	3.055124224	9.333698314	PIK3CA;ROCK2;CRK;GNAI1
Nicotine Metabolism WP1600	1/6	0.04849592764	0.212333521	0	0	24.18292683	73.18419779	FMO3
Wnt Signaling Pathway and Pluripotency WP399	3/102	0.05238714227	0.2220928649	0	0	3.691732136	10.88726544	TCF7L2;LRP5;FBXW2
MAPK Signaling Pathway WP382	5/246	0.05346680081	0.2220928649	0	0	2.540715768	7.440979948	PPM1A;FGF13;CRK;FGFR2;MAP4K3
Aryl Hydrocarbon Receptor WP2586	2/46	0.05528205448	0.2238923206	0	0	5.1518962632	15.97909079	GCLC;NR1P1
Mechanoregulation and pathology of YAP/TAZ via Hippo and non-Hippo	2/47	0.0574344545	0.2269361373	0	0	5.396046353	15.41710287	TEAD1;MAP4K3
PI3K-Akt Signaling Pathway WP4172	6/340	0.06310697469	0.2434126166	0	0	2.20325387	6.087422954	PIK3CA;ANGPT1;ITGA1;FGF13;FGFR2;THBS4
Copper homeostasis WP3286	2/52	0.06861665201	0.2452531022	0	0	4.855214724	13.00818855	PIK3CA;SLC31A2
Wnt Signaling Pathway WP363	2/52	0.06861665201	0.2452531022	0	0	4.855214724	13.00818855	TCF7L2;LRP5
ESC Pluripotency Pathways WP3931	3/116	0.07126575221	0.2452531022	0	0	3.232055064	8.536954385	LRP5;FGF13;FGFR2
Thiamine metabolic pathways WP4297	1/9	0.07185996172	0.2452531022	0	0	15.11204268	39.79055287	SLC19A3
IL-4 Signaling Pathway WP395	2/54	0.07327446892	0.2452531022	0	0	4.668003775	12.20002878	PIK3CA;IRS2
Interferon type I signaling pathways WP585	2/54	0.07327446892	0.2452531022	0	0	4.668003775	12.20002878	IRS2;CRK
Spinal Cord Injury WP2431	3/118	0.07418149388	0.2452531022	0	0	3.175523349	8.260300163	ROCK2;LEP;AIF1
Gamma-Glutamyl Cycle for the biosynthesis and degradation of glutathione,	1/10	0.07952054963	0.252594687	0	0	13.43224932	34.00696028	GCLC
Leptin and adiponectin WP3934	1/10	0.07952054963	0.252594687	0	0	13.43224932	34.00696028	LEP
Circadian rhythm related genes WP3594	4/201	0.08525211878	0.2608545216	0	0	2.476652899	6.097871888	ROCK2;LEP;NR1P1;ID4
MET in type 1 papillary renal cell carcinoma WP4205	2/59	0.08534129411	0.2608545216	0	0	4.25745345	10.47800522	PIK3CA;CRK
TYROBP Causal Network WP3945	2/61	0.09032547059	0.2709764118	0	0	4.112717064	9.888352838	ITGAM;CD37

T-Cell antigen Receptor (TCR) pathway during Staphylococcus aureus	2/62	0.09284918575	0.2734830562	0	0	4.04396728	9.61161554	DLG1;PIK3CA
TGF-beta Signaling Pathway WP366	3/132	0.09601442458	0.277756014	0	0	2.828883147	6.628799791	PPM1A;ZFYVE16;SPTBN1
Cell-type Dependent Selectivity of CCK2R Signaling WP3679	1/13	0.102127274	0.2784862815	0	0	10.0726626	22.98113689	GNAI1
Genes targeted by miRNAs in adipocytes WP1992	1/13	0.102127274	0.2784862815	0	0	10.0726626	22.98113689	PTBP2
Mammary gland development pathway - Puberty (Stage 2 of 4) WP2814	1/13	0.102127274	0.2784862815	0	0	10.0726626	22.98113689	NRIP1
Human Thyroid Stimulating Hormone (TSH) signaling pathway WP2032	2/66	0.1031430672	0.2784862815	0	0	3.790452454	8.610536789	PIK3CA;GNAI1
Cysteine and methionine catabolism WP4504	1/14	0.1095395298	0.2901857274	0	0	9.297373358	20.56086033	GCLC
AMP-activated Protein Kinase (AMPK) Signaling WP1403	2/69	0.1110587352	0.2901857274	0	0	3.620181302	7.956058228	PIK3CA;LEP
Brain-Derived Neurotrophic Factor (BDNF) signaling pathway WP2380	3/144	0.1165548274	0.2997124133	0	0	2.58655109	5.559516088	DLG1;RANBP9;IRS2
Primary Focal Segmental Glomerulosclerosis FSGS WP2572	2/72	0.1191276157	0.3015417774	0	0	3.46450482	7.370941734	LRP5;UTRN
Nuclear Receptors Meta-Pathway WP2882	5/319	0.124689727	0.3041280184	0	0	1.942774682	4.044714698	EPB41L4B;GCLC;NRIP1;IRS2;FGF13
Prolactin Signaling Pathway WP2037	2/76	0.1301034834	0.3041280184	0	0	3.27657105	6.682321303	PIK3CA;IRS2
Leptin signaling pathway WP2034	2/76	0.1301034834	0.3041280184	0	0	3.27657105	6.682321303	ROCK2;LEP
NOTCH1 regulation of human endothelial cell calcification WP3413	1/17	0.1314133413	0.3041280184	0	0	7.552972561	15.32806027	ITGA1
Amplification and Expansion of Oncogenic Pathways as Metastatic Traits WP3678	1/17	0.1314133413	0.3041280184	0	0	7.552972561	15.32806027	TCF7L2
miR-509-3p alteration of YAP1/ECM axis WP3967	1/17	0.1314133413	0.3041280184	0	0	7.552972561	15.32806027	TEAD1
Breast cancer pathway WP4262	3/154	0.1348119635	0.3075521129	0	0	2.414029924	4.837412608	TCF7L2;PIK3CA;LRP5
Nonalcoholic fatty liver disease WP4396	3/155	0.136689828	0.3075521129	0	0	2.398026316	4.772170566	PIK3CA;LEP;IRS2
Small Ligand GPCRs WP247	1/19	0.1456983292	0.3174720595	0	0	6.713075881	12.93084111	PTGER3
Farnesoid X Receptor Pathway WP2879	1/19	0.1456983292	0.3174720595	0	0	6.713075881	12.93084111	IRS2
Signaling Pathways in Glioblastoma WP2261	2/82	0.1469778053	0.3174720595	0	0	3.029907975	5.80976882	PIK3CA;FGFR2
Viral Acute Myocarditis WP4298	2/84	0.1526991521	0.3213764616	0	0	2.955708514	5.554620507	BNIP2;AIF1
BMP Signaling Pathway in Eyelid Development WP3927	1/20	0.1527530095	0.3213764616	0	0	6.359435173	11.94895247	FGFR2
Nicotine Activity on Dopaminergic Neurons WP1602	1/21	0.1597497837	0.3224282165	0	0	6.041158537	11.08037003	GNAI1
Tamoxifen metabolism WP691	1/21	0.1597497837	0.3224282165	0	0	6.041158537	11.08037003	FMO3
PI3K/AKT/mTOR - VitD3 Signalling WP4141	1/22	0.1666891242	0.3224282165	0	0	5.753193961	10.30756459	PIK3CA
Regulation of Apoptosis by Parathyroid Hormone-related Protein WP3872	1/22	0.1666891242	0.3224282165	0	0	5.753193961	10.30756459	BCL2L13
miRNA targets in ECM and membrane receptors WP2911	1/22	0.1666891242	0.3224282165	0	0	5.753193961	10.30756459	ITGA1
Methionine De Novo and Salvage Pathway WP3580	1/22	0.1666891242	0.3224282165	0	0	5.753193961	10.30756459	MSRB3
Pancreatic adenocarcinoma pathway WP4263	2/89	0.1671850011	0.3224282165	0	0	2.78513504	4.981643733	PIK3CA;ARHGEF6
ErbB Signaling Pathway WP673	2/91	0.1730447867	0.3232021028	0	0	2.722272007	4.775422718	PIK3CA;CRK
Estrogen signaling pathway WP712	1/23	0.1735714996	0.3232021028	0	0	5.491407982	9.616365099	PIK3CA
Glutathione metabolism WP100	1/23	0.1735714996	0.3232021028	0	0	5.491407982	9.616365099	GCLC
Photodynamic therapy-induced NFE2L2 (NRF2) survival signaling WP3612	1/24	0.1803973747	0.3247152744	0	0	5.252386002	8.995200678	GCLC
IL1 and megakaryocytes in obesity WP2865	1/24	0.1803973747	0.3247152744	0	0	5.252386002	8.995200678	PIK3CA
miRNA regulation of p53 pathway in prostate cancer WP3982	1/24	0.1803973747	0.3247152744	0	0	5.252386002	8.995200678	SIAH1
Differentiation of white and brown adipocyte WP2895	1/25	0.1871672105	0.3271749707	0	0	5.03328252	8.43453772	LEP
Signal Transduction of S1P Receptor WP26	1/25	0.1871672105	0.3271749707	0	0	5.03328252	8.43453772	GNAI1
Metapathway biotransformation Phase I and II WP702	3/183	0.1925078589	0.3271749707	0	0	2.022119342	3.331680833	GLYAT;FMO3;CHST3
EPO Receptor Signaling WP581	1/26	0.1938814641	0.3271749707	0	0	4.831707317	7.926456035	IRS2
Glucuronidation WP698	1/26	0.1938814641	0.3271749707	0	0	4.831707317	7.926456035	UGP2
Wnt/beta-catenin Signaling Pathway in Leukemia WP3658	1/26	0.1938814641	0.3271749707	0	0	4.831707317	7.926456035	LRP5
Sphingolipid pathway WP1422	1/27	0.2005405894	0.3315058722	0	0	4.645637899	7.464325789	SERINC1
Intraflagellar transport proteins binding to dynein WP4532	1/27	0.2005405894	0.3315058722	0	0	4.645637899	7.464325789	DYNC1L12
Nanoparticle-mediated activation of receptor signaling WP2643	1/28	0.207145036	0.3389646044	0	0	4.4733514	7.04255848	ITGA1
PDGFR-beta pathway WP3972	1/29	0.2136952504	0.3427587185	0	0	4.31337108	6.656412982	PIK3CA
Lipid Metabolism Pathway WP3965	1/29	0.2136952504	0.3427587185	0	0	4.31337108	6.656412982	PLIN1
PI3K-AKT-mTOR signaling pathway and therapeutic opportunities WP3844	1/30	0.220191675	0.3497161898	0	0	4.164423886	6.30184302	PIK3CA
Trans-sulfuration and one carbon metabolism WP2525	1/31	0.226634749	0.3557498946	0	0	4.025406504	5.975376181	GCLC
DNA Damage Response (only ATM dependent) WP710	2/110	0.2300162981	0.3557498946	0	0	2.241195183	3.293671897	TCF7L2;PIK3CA
Alpha 6 Beta 4 signaling pathway WP244	1/33	0.2393625834	0.3557498946	0	0	3.7734375	5.395169587	IRS2
Oxidative Stress WP408	1/33	0.2393625834	0.3557498946	0	0	3.7734375	5.395169587	GCLC
Pregnane X Receptor pathway WP2876	1/33	0.2393625834	0.3557498946	0	0	3.7734375	5.395169587	NRIP1
Resistin as a regulator of inflammation WP4481	1/33	0.2393625834	0.3557498946	0	0	3.7734375	5.395169587	PIK3CA
miRNA regulation of prostate cancer signaling pathways WP3981	1/33	0.2393625834	0.3557498946	0	0	3.7734375	5.395169587	PIK3CA
Wnt Signaling in Kidney Disease WP4150	1/36	0.2580649778	0.3787602581	0	0	3.449477352	4.672468415	LRP5
Photodynamic therapy-induced HIF-1 survival signaling WP3614	1/37	0.2641969702	0.3787602581	0	0	3.35348916	4.463696472	ANGPT1
Fibrin Complement Receptor 3 Signaling Pathway WP4136	1/37	0.2641969702	0.3787602581	0	0	3.35348916	4.463696472	ITGAM

Melatonin metabolism and effects WP3298	1/37	0.2641969702	0.3787602581	0	0	3.35348916	4.463696472	ECE1
Bladder Cancer WP2828	1/40	0.2822923363	0.3942358489	0	0	3.095059412	3.914668568	DAPK2
Ferroptosis WP4313	1/40	0.2822923363	0.3942358489	0	0	3.095059412	3.914668568	GCLC
Glycogen Synthesis and Degradation WP500	1/40	0.2822923363	0.3942358489	0	0	3.095059412	3.914668568	UGP2
Ebola Virus Pathway on Host WP4217	2/129	0.2880225914	0.3988005111	0	0	1.904062606	2.370017875	PIK3CA;ITGA1
Common Pathways Underlying Drug Addiction WP2636	1/42	0.2941094763	0.4037774166	0	0	2.943783462	3.602611658	GNAI1
Vitamin A and Carotenoid Metabolism WP716	1/43	0.2999453194	0.4083289222	0	0	2.8735482	3.46019769	RDH10
VEGFA-VEGFR2 Signaling Pathway WP3888	3/236	0.3088172661	0.4169033092	0	0	1.557939914	1.830588044	PIK3CA;ROCK2;CRK
Prostaglandin Synthesis and Regulation WP98	1/45	0.3114735261	0.4170141423	0	0	2.742655211	3.199145303	PTGER3
Regulation of Microtubule Cytoskeleton WP2038	1/46	0.31716667	0.4194118675	0	0	2.681571816	3.079323653	PIK3CA
Regulation of toll-like receptor signaling pathway WP1449	2/139	0.3184423438	0.4194118675	0	0	1.764184318	2.018780539	PIK3CA;RNF41
Thymic Stromal LymphoPoietin (TSLP) Signaling Pathway WP2203	1/47	0.3228130225	0.421739594	0	0	2.623144221	2.965941956	PIK3CA
Rett syndrome causing genes WP4312	1/48	0.3284129659	0.4222452419	0	0	2.567202906	2.858537872	CRK
Exercise-induced Circadian Regulation WP410	1/48	0.3284129659	0.4222452419	0	0	2.567202906	2.858537872	UGP2
Synaptic signaling pathways associated with autism spectrum disorder WP4539	1/50	0.3394751386	0.4297588887	0	0	2.462170234	2.66001685	PIK3CA
NRF2 pathway WP2884	2/146	0.3395625787	0.4297588887	0	0	1.677828903	1.812218003	GCLC;FGF13
Calcium Regulation in the Cardiac Cell WP536	2/149	0.3485552013	0.4332649001	0	0	1.643337089	1.732009364	GJA4;GNAI1
One carbon metabolism and related pathways WP3940	1/52	0.3503561846	0.4332649001	0	0	2.365375418	2.480817499	GCLC
Translation Factors WP107	1/52	0.3503561846	0.4332649001	0	0	2.365375418	2.480817499	PAIP1
Apoptosis-related network due to altered Notch3 in ovarian cancer WP2864	1/53	0.3557297082	0.4365773691	0	0	2.319770169	2.397677523	GCLC
Cardiac Hypertrophic Response WP2795	1/55	0.3663445763	0.4396134916	0	0	2.23362692	2.242965542	FGFR2
Pathogenic Escherichia coli infection WP2272	1/55	0.3663445763	0.4396134916	0	0	2.23362692	2.242965542	ROCK2
Hematopoietic Stem Cell Differentiation WP2849	1/55	0.3663445763	0.4396134916	0	0	2.23362692	2.242965542	ACVR1B
EGF/EGFR Signaling Pathway WP437	2/162	0.3870109506	0.4576861887	0	0	1.508819018	1.43232535	PXDN;CRK
Kit receptor signaling pathway WP304	1/59	0.387055604	0.4576861887	0	0	2.079163162	1.973514471	CRK
Genotoxicity pathway WP4286	1/63	0.4070936593	0.4778925566	0	0	1.944630212	1.747662505	SEL1L
Pathways Affected in Adenoid Cystic Carcinoma WP3651	1/65	0.4168671431	0.4844991056	0	0	1.88366997	1.648188073	PIK3CA
Non-small cell lung cancer WP4255	1/66	0.421693666	0.4844991056	0	0	1.854596623	1.60139993	PIK3CA
Association Between Physico-Chemical Features and Toxicity Associated Pathways WP3680	1/66	0.421693666	0.4844991056	0	0	1.854596623	1.60139993	ROCK2
PPAR signaling pathway WP3942	1/67	0.4264804804	0.4865481537	0	0	1.826404287	1.556441058	PLIN1
Sterol Regulatory Element-Binding Proteins (SREBP) signalling WP1982	1/69	0.4359362798	0.4938578834	0	0	1.772507174	1.471640377	PIK3CA
Parkin-Ubiquitin Proteasomal System pathway WP2359	1/70	0.4406059062	0.4956816445	0	0	1.746730293	1.431627903	SIAH1
Ras Signaling WP4223	2/184	0.4496808236	0.5024020236	0	0	1.324951122	1.058923764	PIK3CA;FGFR2
Chromosomal and microsatellite instability in colorectal cancer WP4216	1/73	0.4543854876	0.5041811575	0	0	1.673695799	1.320226895	TCF7L2
Peptide GPCRs WP24	1/74	0.4589032878	0.5057301539	0	0	1.650684932	1.285744562	NPY1R
Pathways in clear cell renal cell carcinoma WP4018	1/85	0.5062106872	0.5540954819	0	0	1.433725319	0.9760835216	PBRM1
Androgen receptor signaling pathway WP138	1/90	0.5263322083	0.568438785	0	0	1.352836394	0.8682810944	ROCK2
T-Cell antigen Receptor (TCR) Signaling Pathway WP69	1/90	0.5263322083	0.568438785	0	0	1.352836394	0.8682810944	CRK
GPCRs, Other WP117	1/91	0.530257622	0.5688856607	0	0	1.337737127	0.848650148	ADGRF5
TNF alpha Signaling Pathway WP231	1/92	0.5341507002	0.5692921936	0	0	1.322969713	0.8296042357	OTUD7B
G Protein Signaling Pathways WP35	1/93	0.5380117076	0.5696594551	0	0	1.30852333	0.8111208438	GNAI1
B Cell Receptor Signaling Pathway WP23	1/97	0.5531402491	0.5818748075	0	0	1.253747459	0.7423986527	CRK
Neural Crest Differentiation WP2064	1/101	0.5677762852	0.5934177949	0	0	1.203353659	0.6811316263	FGFR2
Toll-like Receptor Signaling Pathway WP75	1/103	0.5749146148	0.5970267154	0	0	1.179638929	0.6529699542	PIK3CA
Thermogenesis WP4321	1/108	0.5922519084	0.6111134342	0	0	1.124230682	0.5888981284	PLIN1
GPCRs, Class A Rhodopsin-like WP455	2/257	0.6285807256	0.6444941617	0	0	0.9421388187	0.4374264024	PTGER3;NPY1R
mRNA Processing WP411	1/126	0.649045434	0.6612915743	0	0	0.9614634146	0.4155950209	PTBP2
Ectoderm Differentiation WP2858	1/138	0.6824657016	0.6909965228	0	0	0.8767135482	0.3349422805	FGFR2
Mesodermal Commitment Pathway WP2857	1/147	0.7054370223	0.7098186187	0	0	0.8222936853	0.2869293318	TEAD1
Ciliary landscape WP4352	1/216	0.8345543067	0.8345543067	0	0	0.55643789	0.100635944	RANBP9