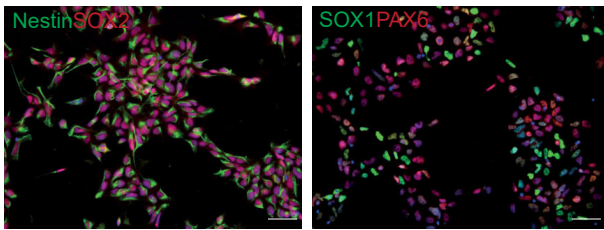
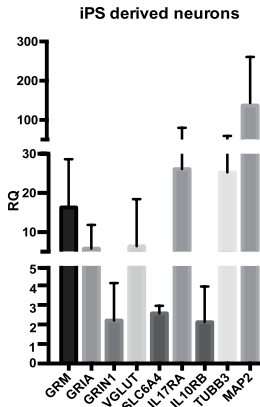


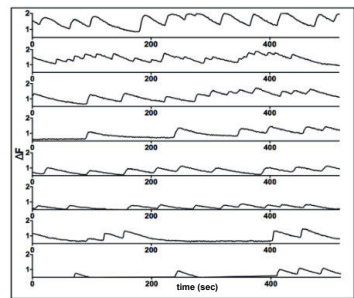
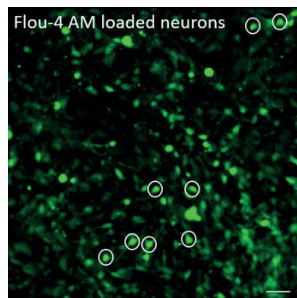
S1A



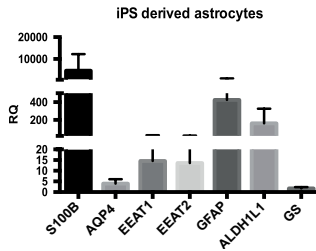
S1B



S1C



S1D



S1E

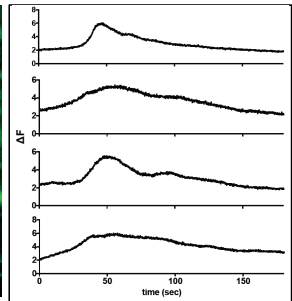
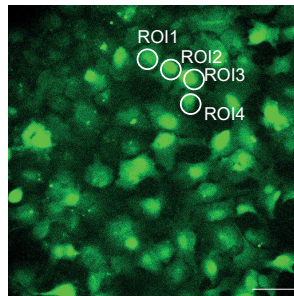


Figure S1 (A) Characterization confirms successful iPSC differentiation into NSC.

Immunofluorescence staining of neural stem cell marker Nestin, Sox2, Sox1 and Pax6 of NSCs in p4.

Scale bar: 50 μ m. **(B) Rt-qPCR of differentiated iPSC-derived neurons presenting a heterogeneous neuronal phenotype.** Bar graph shows the mean RQ + SD of two different lines (BMS1; PMS2) of three independent experiments each. GAPDH and actin were used as housekeeping genes. **(C) Ca^{2+} imaging show spontaneously active iPSC-derived neurons.** iPSC-derived neurons were loaded with 1 μ M Fluo-4 AM for 15 min at 37 $^{\circ}$ C.

Imaging was done within an incubation chamber at 37 $^{\circ}$ C, 5% CO_2 and observed with an Olympus Cell ν R microscope. Stacks of images were recorded at rate of 5 Hz for 3 minute and activities of single neurons were tracked with ImageJ. **(D) Rt-qPCR of differentiated iPSC-derived astrocytes confirm a mature phenotype.** Bar graph shows the mean RQ + SD of all six lines. GAPDH and actin were used as housekeeping genes. **(E) Ca^{2+} imaging show spontaneously active iPSC-derived astrocytes.** iPSC-derived astrocytes were loaded with 1 μ M Fluo-4 AM for 15 min at 37 $^{\circ}$ C.

Imaging was done within an incubation chamber at 37 $^{\circ}$ C, 5% CO_2 and observed with an Olympus Cell ν R microscope. Stacks of images were recorded at rate of 5 Hz for 3 minute and activities of single astrocytes were tracked with ImageJ.

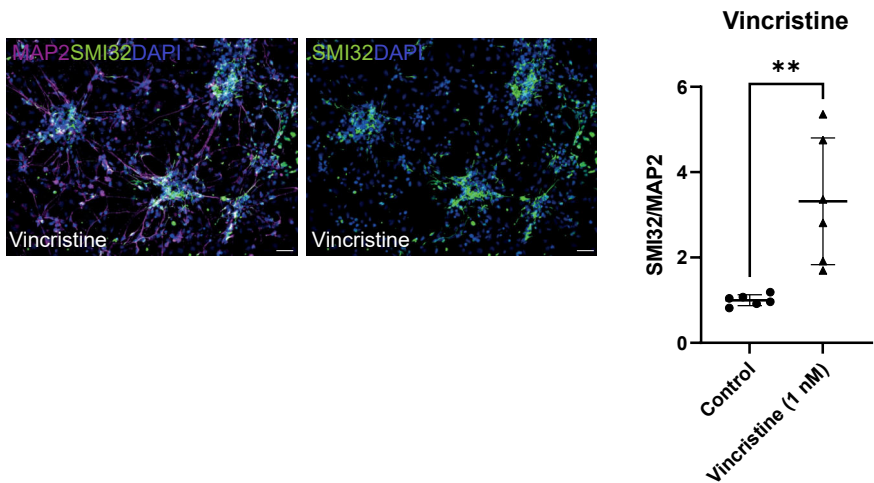
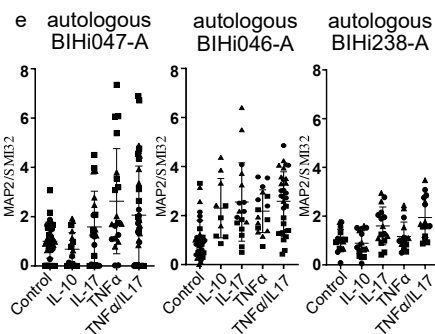
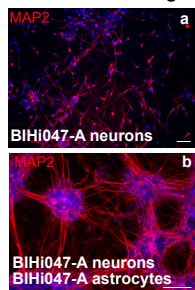


Figure S2 (A) Evaluation of SMI32 as neuroaxonal marker. iPSC-derived neurons were treated with 1 nM vincristine for 24h and stained against SMI32/MAP2. Neurons showed significantly increased in SMI32/ MAP2 ratios and confirmed SMI32 as suitable neuroaxonal marker. **(B) Western Blot confirmed knock-out of IL-17R in PMS1.** PBMCs were used as positive control and iPSC without knock-out as negative control for the IL17R-knockout line. All lines were normalized to α -tubulin and bar graph shows the mean + SD ratio of IL-17R/ α -tubulin of three independent experiments.

BIHi047-A autologous co-culture



BIHi237-A NGN2 co-culture

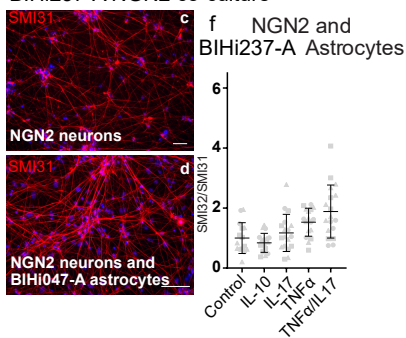


Figure 3 Comparison of autologous and NGN-2 co-cultures (a) iPS-derived neurons and (c) NGN2-neurons show similar morphology with a trend to more interconnectivity in the NGN2-neurons. (b) Autologous co-cultures show clustering of neurons, whereas in (d) NGN2-co-cultures there are more branching and interconnecting processes. (e) SMI32 analysis in co-cultures show higher variability than SMI32 analysis in (f) NGN2 co-cultures. Scale bar: 50 μ m. Disclosure: Fig. f also appears in Fig. 3D (PMS3).

Cluster of inflammation PMS

Cluster of inflammation BMS

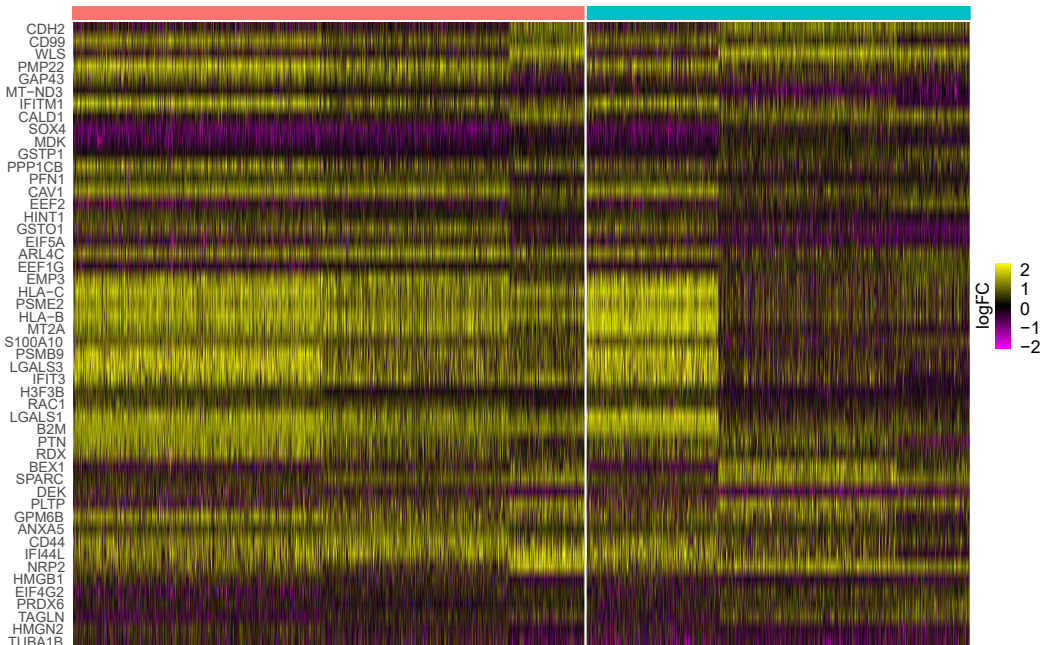
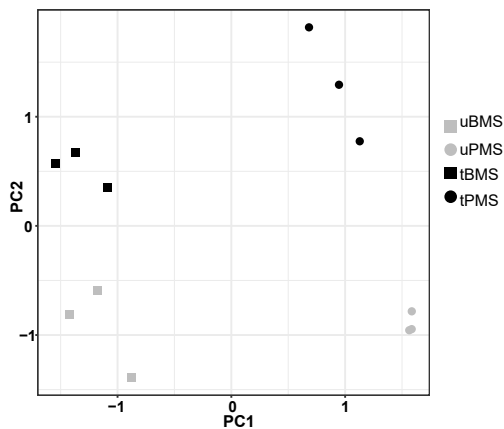


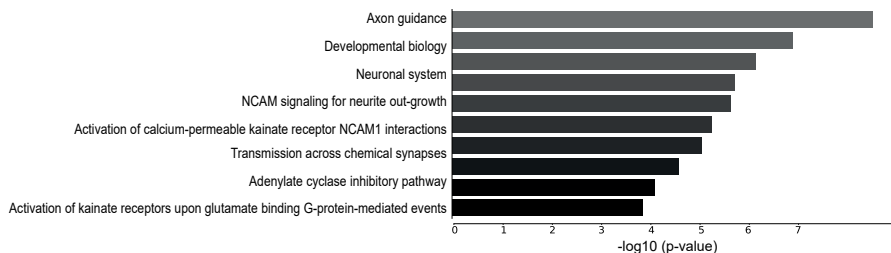
Figure S4 Heatmap of the top 50 DEG (ranked by adjusted p-value) in the cluster of inflammation. Single-cell RNAseq data, comparing treated PMS and BMS samples, each line represents a single cell.

S5A



S5B

BioPlanet 2019 of uBMS vs uPMS



GO Biological process of uBMS vs uPMS

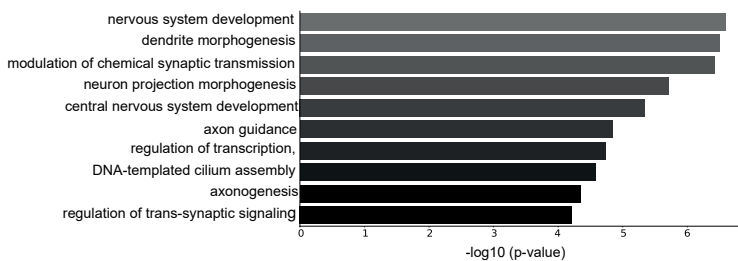


Figure S5 (A) PCA plot of bulk RNAseq of mono-culture derived astrocytes show distinct segregation. Samples were segregated according to patient group (PC1) and according to cytokine treatment vs control (PC2) **(B) Enrichr analysis of untreated BMS vs. PMS show activation of neuroprotective features.** BioPlanet 2019 pathway analysis showed activation of pathways related to axon guidance in BMS and GOs of biological processes were found in nervous system development.

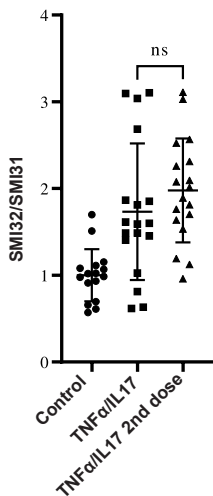
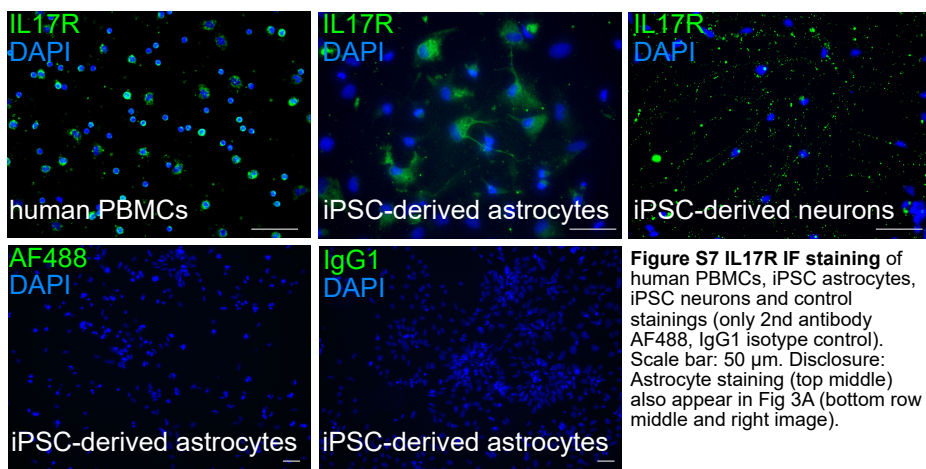
TNF α /IL17 double dosage

Fig S6 TNF α /IL17 double dosage. NGN2 monocultures neurons were treated with TNF α /IL17 (50ng each) for 24h. The next day neurons received a second dose of 20 ng TNF α and 8 ng of IL17 for 24h (measured concentrations in supernatants). No significant difference were seen between single and double-dosage treatment of TNF α /IL17. Each data point represents a microscopic field of view (641 x 479 μ m); pooled data from three independent experiments. Statistical significance was tested with a Kruskal-Wallis test.



Tofacitinib treatment on NGN2 monoculture

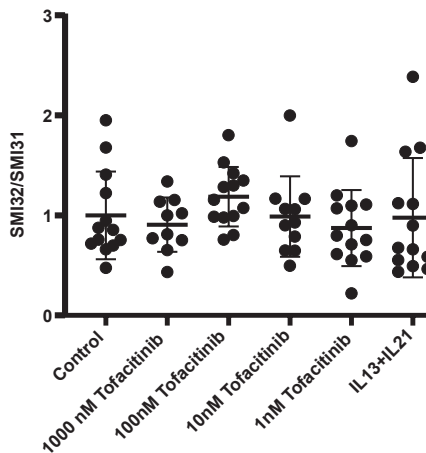


Figure S8 Tofacitinib treatment of NGN2 monocultures. Immunofluorescently stained SMI32/SMI31 NGN2 neurons were analysed with Imaris and presented as surface ratio of SMI32/SMI31+ SD and normalized to the control. Each data point represents a microscopic field of view (641 x 479 μm); pooled data from three independent experiments. No differences were seen after Tofacitinib treatment or IL-13 + IL-21 (50g/ml each) after 24h.

Figure S9

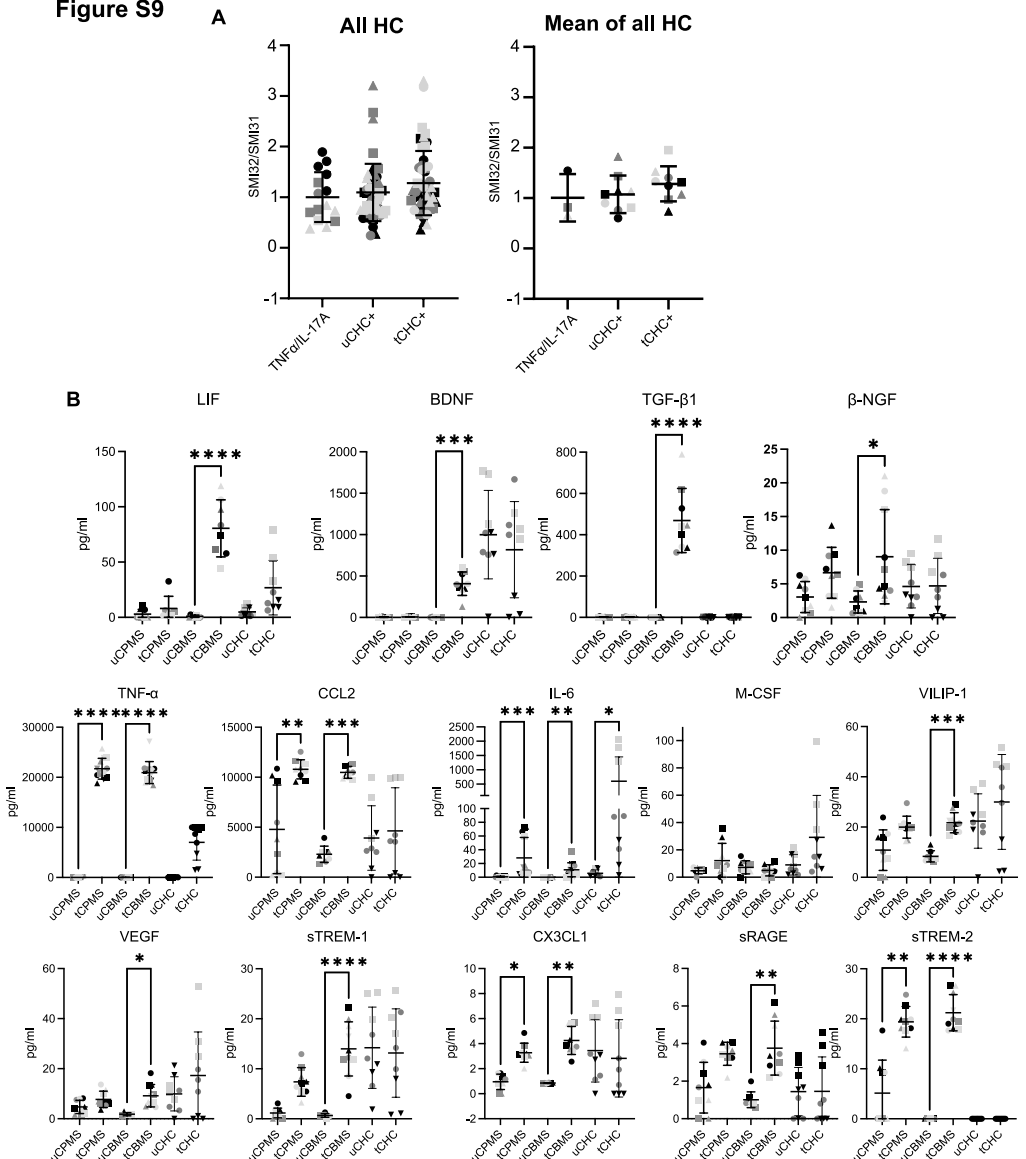


Figure S9. Supernatant analysis of healthy control astrocytes with NGN2 neuron co-cultures (A) NGN2 neurons were treated with TNF α /IL17A (50 ng/ml) for 24h (represented with "+") and medium was replaced with medium control, untreated- or treated co-culture supernatants from HC1-3. SMI32/SMI31 does not show significant reduction after treatment with HC supernatants (i.e. no reduction in neurite damage).

(B) Bead-based multiplex assay analysis of supernatants of HC1-3 (uCHC - untreated co-culture of HC astrocytes / NGN2 neurons; tCHC TNF α /IL17A treated co-cultures of HC astrocytes / NGN2 neurons) in comparison with MS supernatants (see Fig. 6). Each data point represents one sample of collectively three independent experiments. HC and MS supernatants have been measured in different experiments, therefore a batch effect between HC and MS cannot be ruled out. Statistical testing was only performed between treated/untreated samples of the same group. Similar symbols are used for the individual person's derived cultures.

Statistical significance was tested with Kruskal Wallis test. * $p < 0.05$, *** $p < 0.001$, **** $p < 0.0001$; (IL-17A, IL-21, CTGF were not analysed),

MDK.1	0.446170831972	MYCN	0.43092085120878	RP26	0.384949612417004	RP23A	0.44500376581567	COMM0.3	0.31277488542788	MAAM2	0.6127748854396
ROSS.1	0.665963949389	TANC1	0.4067674055661	F1R	0.38113615452979	RP21.2	0.4526084005912	CDXA	0.786283969447	LAMA4	0.61265516652807
TOB1	0.4359085290808	FPAN.1	0.44753110384977	R12	0.37108132725254	RP26.2	0.45320484914014	ATP9F.1	0.53088086666297	IF10	0.61417007772406
NCTN2	0.40002838064	NRXN3	0.40011134706021	NKX4.1	0.3706629592708	RP26.1	0.45091031830497	NRXN3	0.45091031830497	MEK2.3	0.6130270124298
CDMG	0.5255765213807	PRML2	0.4497762122007	R12	0.3661880800675	RP27.2	0.4682787701387	CDMG.1	0.61362427189505	XIST	0.60630108812039
PLOD4	0.3751151218899	SNRP2	0.44712480011133	FL1	0.3687355912135	RP12.2	0.47499624208766	GOT3.1	0.51022062385405	VGII4	0.60381463846470
TSPF	0.45225260311	SNRP2.1	0.448306617150024	PK1	0.3687355912135	RP12.1	0.47499624208766	CDG.1	0.49521190227598	TBRM4	0.60381463846470
ERAB11.1	0.4963939039449	COL2A1	0.44143183745076	RP1	0.36794387922577	PR11.1	0.4999176439096	DKX2	0.378468708459	ANXA1	0.59519331917518
PPFD	0.4120928849018	MYO1A	0.43888888478712	RP29	0.3631554247104	RP18.1	0.50679000404375	STX8	0.425556208949	RKN1	0.59498454264617
MFAP2	0.44601301101323	MYO1B	0.4481625176014008	RP1	0.3631554247104	RP18.2	0.50679000404375	STX8.1	0.425556208949	CCDC1	0.59498454264617
RM217	0.3147471790716	LSM2.1	0.44610062323115	RP18.1	0.36323310021085	PDMA2	0.536611442051524	PFM1	0.38491420882533	GYPC	0.59720004882329
CCD42P1	0.39369382104071	SCY1	0.44797356308871	RP12.1	0.35822702729279	EF2.2	0.544726051782235	FAM140B	0.33222031393834	ZIC1	0.59181744701588
UMCK1	0.44601301101323	MYO1B	0.4481625176014008	RP1	0.3631554247104	SR8	0.54509393142411	SR8.1	0.54509393142411	MYO1B	0.59181744701588
EMF.1	0.49965162168189	MYO2	0.44117416014986	RP3	0.35006628718376	RP41	0.5507809999121	COMM10	0.3838046029817	SYT11	0.590091523171207
CDP1	0.50034592044799	PTCH1	0.43719576994585	RM3A	0.34786760546171	SPAT	0.55944328687697	PRDM13	0.53213486209794	AHNAK2	0.58824884235629
FN1	0.4732225769311	SHR3C2	0.40211155971211	RP11	0.3469017155971211	DB1.2	0.561233190227598	SKOR2	0.39792051791207	FUT2	0.58788855666069
NP4	0.764793804259683	CD118	0.4055548601782	RP14.1	0.3389700842793	AGTR1A	0.5717720818654	PIGKB1	0.31783205895034	AP2P	0.58685334955458
PHD2	0.34202314688886	SOX1	0.37727872801973	RP1	0.33243828366594	GP8.1	0.61038622491899	CT10F7	0.38620904917026	DGRR1	0.58251381994473
CAV1	0.34202314688886	PHK.1	0.37727872801973	RP2.5	0.320657675542108	CS1	0.61038622491899	PCNA1	0.38620904917026	P4FB	0.58251381994473
CAV1.1	0.3717953481717	RP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
CDN3	0.5802845846674	RP57.2	0.329429320175308	REST.1	0.329429320175308	REST.1	0.62074039517854	JM1.2	0.400498898491215	CFP2	0.5778958685467
CTE2.1	0.5164888455582	HMGB2	0.38834004032078	TP53.1	0.32222222207878	TP53.1	0.61243232207878	TP53.1	0.61243232207878	EP8	0.5778958685467
CDAD2	0.654967945522	KAMP.3	0.38846575188888	RP54	0.3230555782967	RR4.4	0.6568932380891	RAN.4	0.37842662053183	CAD1	0.57642006323053
VCL1	0.38758204979759	RP52.2	0.31096150124441	CAVIN1.4	0.32329949931416	CAVIN1.4	0.68237874433008	TMED1	0.31180845954663	PEA15	0.57607322949887
CTE1.1	0.5164888455582	HMGB2	0.38834004032078	TP53.1	0.32222222207878	TP53.1	0.61243232207878	TP53.1	0.61243232207878	TP1	0.57607322949887
MTCH1	0.5496582429285	PDOS.3	0.45905144812093	FRAT2	0.30767878466807	NME1.1	0.71266843710498	PMB6	0.31668409439078	JUN	0.5679419439078
SEPTIN7	0.44178092951538	LAPTM4A	0.45879180201595	FRAT1	0.30767878466807	PDMA2.4	0.71266843710498	PMB6.1	0.31668409439078	ATP5F6	0.5679419439078
FS1	0.4415288605371	DSN2	0.4490811363381	LDG2	0.30138538419471	AHNAK.4	0.72513838839602	CHGC1.1	0.28132610833951	CA1	0.5640154846012
FXN1	0.49841915507586	RABAC1.2	0.42666691088705	RP28	0.2783630021407	CA1R.2	0.72783630021407	MYO1F.1	0.3024782398864	COL2A2	0.56371614979791
ANXA1	0.3859188180585	ANXA1.1	0.40760718120598	RP25	0.29898101474743	UMC1.2	0.7322920171284	RC3H1	0.32485057902008	PHLAD1	0.55991626110718
UMC1	0.3859188180585	ANXA1.1	0.40760718120598	RP25	0.29898101474743	UMC1.2	0.7322920171284	RC3H1	0.32485057902008	PHLAD1	0.55991626110718
LGALS1	0.4841394757841	AP1S2	0.370137184058.3	RP28	0.28087130821945	CA10.4	0.739567619139	EP1.3	0.3395870221673	SORBS2	0.5699456100748
LAMA2	0.30310674814552	OPN2	0.4322535992216	CCD109	0.27088400728452	NP2.3	0.7754072115786	PF20F.2	0.33022951299475	TMOD3	0.5553464360879
ND5	0.4524632731865	PDLIM1.1	0.40855651493916	OSTA.1	0.27088400728452	NP2.3	0.7754072115786	PF20F.2	0.33022951299475	TMOD3	0.5553464360879
LAMA1	0.30310674814552	OPN2	0.4322535992216	CCD109	0.27088400728452	NP2.3	0.7754072115786	PF20F.2	0.33022951299475	TMOD3	0.5553464360879
ANXA2	0.4632874841488	PHLAD1.2	0.40222172151306	TMEM81.1	0.25039196251294	QSOX1	0.788433890042	MYT1S1	0.30120670010217	GUPR1	0.551761778469
PH1	0.45024991972842	CD44	0.42624878066352	CD44.2	0.42624878066352	CD44.2	0.42624878066352	CD44.2	0.42624878066352	GUPR1	0.551761778469
EMF.2	0.49965162168189	MYO2	0.44117416014986	RP3	0.35006628718376	RP41	0.5507809999121	COMM10	0.3838046029817	SYT11	0.590091523171207
NP21	0.2652024376767	TMBS10.2	0.4882546142911	CNN3.2	0.52620982043942	EP10.1	0.863626682649	ATPC	0.34029442183834	CS7B	0.53456797010065
FN1.1	0.4732225769311	SHR3C2	0.40211155971211	RP11	0.3469017155971211	DB1.2	0.561233190227598	SKOR2	0.39792051791207	FUT2	0.58788855666069
EPN1	0.49965162168189	MYO2	0.44117416014986	RP3	0.35006628718376	RP41	0.5507809999121	COMM10	0.3838046029817	SYT11	0.590091523171207
DDP	0.3884074372602	FL2	0.31096150124441	CAVIN1.4	0.32329949931416	CAVIN1.4	0.68237874433008	TMED1	0.31180845954663	PEA15	0.57607322949887
NP21.1	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
CFP1	0.4402794121295	HMGB1.3	0.45879180201595	FRAT1	0.30767878466807	NME1.1	0.71266843710498	PMB6	0.31668409439078	JUN	0.5679419439078
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NP21.3	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
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NP21.5	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.6	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
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NP21.9	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
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NP21.19	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.20	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.21	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.22	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.23	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.24	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.57929558287818
NP21.25	0.501520376437	TP10.2	0.37009554178718	RP57	0.33002270000000	PNL2	0.621793066127473	MM2.2	0.47497216761602	LHFPL6	0.5792

EFA42.1	-0.39399727388819	CFP90	-0.39598100840351	CDG.3	-0.26506014860712	RPLP0.5	-0.30999789533461	F2R	0.3504254351468
NK1	0.28283570495921	SF8P4	-0.27947488129509	PRKDC.3	-0.32785072724645	CWC15	0.4303051282388	PMPA1P	-0.46129658989579
BCDP	0.20028221187452	S1BR1	0.21734200881124	SLC4A3.3	-0.28720824481063	TPRAC5.1	-0.35709833249082	CCDC8B	0.25274963074243
RPF1	0.29205093127446	HADA2.1	-0.28505008477124	PKX.1	-0.3251420497786	PKL4	-0.3251420497786	PKL4	-0.3251420497786
DYSL3.2	-0.3804878155746	NSD1	-1.2789256450582	NSD1.2	-0.3804878155746	NSD1.3	-0.3804878155746	NSD1.4	-0.3804878155746
PCNT3	0.27170746024274	ULB3	-0.2898838458355	STAT3.3	-0.35429031012123	ANKK1D.3	0.05091394423169	EBF1	0.3602062252222
ATPA6P.2	0.2551746454002	JKCC1	0.28231649803492	AKT6L.1	-0.3090712417344	GHC4P.2	-0.28231649803492	AKP4B	-0.3090712417344
YFP3.2	-0.28073772027946	PHF6	-0.30476567947507	HSF1.2	-0.28383180148706	CRMPL.4	-0.28073772027946	VDAC3	-0.33861067052784
BR1.2	0.20146388286211	THM21B.1	-0.10114131020779	PHACTR1.2	-0.34146891468972	GTP7L.4	-0.58583121056989	TMED3	0.31368380766332
CDND5.2	0.30113564628857	TAD3.1	-0.28510081351346	TAD3.2	-0.25447317831724	PKNO.2	-0.35931374131992	MTN1D3	-0.35931374131992
ADPVD1.1	-0.27329116492583	PHF9.2	0.26793742112318	TLES	-0.296383630114	NP0D1	0.48466249512047	RAO23B	-0.317308883217
CCDC4	0.2603338904542	PHF2.2	0.36243489104041	EFSA.4	-0.29631351931423	CHK2L.2	-0.37463327515219	MG3F3	0.2460009751285
HFE.1	-0.2120344220177	MRP2	-0.21127176836916	MAP1B.1	-0.21127176836916	MAP1B.2	-0.21127176836916	MAP1B.3	-0.21127176836916
SUMO3	0.2616542800789	HMC5C1	-0.46771319311932	COAD2.1	-0.39900102519471	SPF3.3	-0.51362969768861	SRF1	-0.35681153688861
SPF1A1.1	-0.34794576969096	HSF6A.1	0.33017347187188	EF3D	-0.29153138473975	COX2D1	0.40600687209883	TBRL1	-0.34841131424546
BCAL1	0.21199111628255	GNG3	0.28231649803492	ATAD2	-0.31514150361563	ZMAT3.2	-0.31514150361563	PRK11	-0.31514150361563
GPC.2	-0.41153067515172	FAM17A1.1	-0.31658978156169	FAM162A.1	-0.27810275825477	PP1C.5	-0.30999919800758	NOVA1	-0.6367088494185
PEA13.3	-0.35936120789641	SRG5.1	-0.2788688841156	ZMAT3.2	-0.31514150361563	UAPL4	-0.30999919800758	FMA	0.3024868854035
SACD1	0.31208597390388	GNG3	0.28231649803492	ATAD2	-0.31514150361563	SEL1L.2	-0.4041126178205959	TPS31.2	-0.30020781714028
LRP1.2	-0.32981241144148	NUCB2.1	-0.2368219203834	CDN1A.4	-0.677466258181927	FXR3.5	-0.39431894854989	HDFG3.3	-0.3493647789826
UPP1.3	-0.4783702329608	ZNF58	-0.30054648284233	KNP1.3	-0.3993925346602	ARBP3.3	0.3993925346602	MTCH2	-0.3691516182833
CCND3.2	0.25007014949859	TPSN1A.1	-0.24848089966829	IFP21.1	-0.26009191578584	PYK2.2	-0.3929161210757	PNP	-0.3088151085627
CALB1.2	0.45464002321776	PKM.1	-0.25503790201565	SPO1.1	-0.27496745605808	EFNA3.5	-0.3739312087017	UZB1N	-0.32106219530454
CTNNA1	-0.28081972941233	RHO2B.2	-0.3334454099959	GRN2	-0.32138521815429	RABL2.2	-0.44613920877407	CYTM1	0.3600431184515
BR1.2	0.20146388286211	NEF1.1	-0.45774054412491	FLVCR1.1	-0.2881385096465	GTF2J.3	-0.45948737002448	DNAH3	-0.31037116441114
CFSC.3	0.25464002321776	WDR11.1	-0.245232826661	MYR4C.2	-0.28602819604706	BARD1.3	-0.381169658297	PLD3	-0.340486958297
DOT.2	-0.2504950451552	FNDC3B.1	-0.312187465623	FN1.1	-0.3567050360239	TNND1.1	1.0981007125469	JAG1	0.3800117931902
CKC2	0.25007014949859	TPSN1A.1	-0.24848089966829	CFBP3.1	-0.2851998205648	SYNPO.3	0.29561852087051	SAGEB1.1	0.29561852087051
ZND6	0.25007014949859	TPSN1A.1	-0.24848089966829	RALGDS	0.25008995757887	RALGDS	0.25008995757887	PAN.5	-0.3121126195882
SAB	0.2645649674736	YBX1.1	0.31287279540252	DNMT1.2	-0.2973203895478	ARL4S.5	0.4707620896953	EFNA5	-0.3264731620764
TEAL8	-0.26273982989009	CTP1.1	-0.25048124203891	SVL3	-0.44501001910232	CKD16	0.447470182801	RFC3	-0.2792680304646
LAMP1.2	0.28974021415004	FAM181.1	-0.28974021415004	FAM181.2	-0.28974021415004	FAM181.3	-0.28974021415004	MAP2G1	-0.28974021415004
YDC	0.286086313111	PDI1	-0.380082771734673	CD47.4	-0.380082771734673	RPL6.1	-0.29640766966666	SLCB3A1	-0.34063131917105
UPP2.2	-0.26170132903269	PIHF	-0.2645488218435	BNP3L.1	-0.33327340480384	TRIM24.2	-0.40613466139424	PGRFP1	0.2727400290633
TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208	TRP1.5	0.3211020776208
NAT10	0.2343475268541	MAP3K13	-0.30064910050306	AKR7A2	-0.25786588826663	RPL71.1	0.24272926721151	CRSP1D1	0.3087240152128
TOP1	0.27821431161657	IFP2A2.1	-0.34614842888109	DAO3.3	-0.2940018111069	FAM174C.1	0.49190114178104	MGM1	0.2789071759841
ANAPC1	0.21408717897628	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
CHMP2A	-0.25987863280443	MTL19	-0.28858664420564	SAR1A.1	-0.25752813798822	CECR3.2	-0.3490093191001	CANP2	0.2700748055667
CHORDC1	0.24848089966829	IMPFD2H.1	0.24848089966829	MTM15.1	-0.2553380183536	JPK1.1	0.512473980191001	MICB	0.27430281899548
HAC1.3	-0.300050428872	CHMP1.1	-0.300050428872	CHMP1.2	-0.300050428872	CHMP1.3	-0.300050428872	CHMP1.4	-0.300050428872
COP3.2	-0.26684348746833	SBP2	-0.26684348746833	MEF1	-0.25182286439908	NAV1.2	-0.25182286439908	PHGDH	-0.3358251240649
ANKK3.3	-0.3041920197996	EVN1	-0.30205752757089	YPL3	0.26401934251193	PABP1C.3	0.43696946622459	NUDT2	-0.3254251888769
ANAPC5	-0.2491450208713	CHMP1.1	-0.300050428872	CHMP1.2	-0.300050428872	CHMP1.3	-0.300050428872	CHMP1.4	-0.300050428872
ANAPC6	0.25179951440019	CENL.2	-0.26054455867727	SMAD5	-0.26054455867727	NGFR1.3	-0.56580931729848	STRAP	-0.28251298194845
FEZ2	-0.30331251293755	ARHGAP4	-0.31911975062316	NAO2	-0.2640604009084	CHP1.3	-0.25072050037001	NERF3	-0.5234600848984
HCFR1.1	-0.27305147110061	ASC1.1	-0.27305147110061	ASC1.2	-0.27305147110061	ASC1.3	-0.27305147110061	ASC1.4	-0.27305147110061
ACT10	-0.28533026411898	MAN1A2	-0.274810914664177	FXYD6.1	0.54471780208129	ACT11.2	0.49510785142482	NPDC1	0.27807698743248
DNAH21.1	-0.21471912442485	FAM202D.1	-0.21471912442485	FAM202D.2	-0.21471912442485	FAM202D.3	-0.21471912442485	FAM202D.4	-0.21471912442485
SLC16A1.2	0.2553396200882	POLM1.2	-0.2553396200882	DRAP1.2	-0.2553396200882	OTX4	0.30059518718142	PKM	0.2820039086835
TMED10.2	-0.2677480112589	APF	-0.2677480112589	EFY3J	-0.28934507408016	BTCL1	-0.38467993032878	C1orf75	0.2769256444883
TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208	TRP1.5	0.3211020776208
GTBP4.1	0.306414569870162	PFAH1B1	-0.31289093811547	ITGB1B1.1	-0.27438929755633	ARL1.1	-0.27438929755633	LAMTOR1	0.35079168560238
GRM6B.3	-0.2823860539581	FAM204A	-0.2823860539581	KRT10.2	-0.3087468825092	JARID2	-0.41564920484146	SESG1A	0.32599351589111
DNAH21.1	-0.21471912442485	CAVNL1.2	-0.21471912442485	AGO1.1	-0.31581007950067	UTR1.2	-0.484918015841209	UBR1	-0.484918015841209
CCO4.2	-0.258821898639784	CPBP1.1	-0.258821898639784	AGO2.1	-0.31581007950067	AGO2.2	-0.31581007950067	AGO2.3	-0.31581007950067
FRP1B	-0.2828478483848	MEK3A.1	-0.2828478483848	ATP5F1A.1	0.3182910178511	MDM2.3	0.30348683238833	ATP7B1	0.40538091902485
CLTB	-0.26125131704025	TPS3B.1	-0.31285411084172	ENO1	0.30080084939111	INC04G1.3	0.66781032722622	EPH2B	0.2717046482115
KLHL3	0.26707044119353	TRAF1.1	-0.26707044119353	TRAF1.2	-0.26707044119353	TRAF1.3	-0.26707044119353	TRAF1.4	-0.26707044119353
CD3D	0.3066212321088	MFN1	-0.27893794102561	KDM1A.2	-0.35469921547388	CDM1.2	-0.41908516715555	OLA1	-0.31638717068897
XPO1	0.21076037472484	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208	TRP1.5	0.3211020776208
MTM179.1	-0.25807817479123	ADD1	-0.25807817479123	ADD1.2	-0.25807817479123	ADD1.3	-0.25807817479123	ADD1.4	-0.25807817479123
COM3	0.60082782456435	LAMC1.1	-0.37176915047099	PRH1.1	-0.28082647488825	PRK4.1	0.49710789351583	CHK1	-0.31903807048031
AMP1.3	0.30548078818459	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
THY1	-0.271251010386	SRGAP1	-0.2812989885195	HADB1.1	-0.25786592644019	VIMN2B.2	-0.37749277994876	COL18A1	-0.27870591487967
H16.1	-0.27788480202076	PLP1.1	-0.27788480202076	CIORP.3	-0.3500295474414	CCO4A.4	-0.32965019420171	BTFL4	-0.30281894044621
HNF4A.2	-0.33928084581509	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
TRAP1.1	0.21340514048002	LRP1	-0.27974412646729	NUDC1F	-0.25824067346627	RA1A1.1	-0.4587166400024	STRP	-0.3099651425202
BK1.2	-0.489832947016	AKK2	-0.28960070447029	DKC1.3	-0.28942041371002	PKOJX	0.50126156840082	SMARCA4	-0.3846246409984
NFKB1.2	-0.301540015389	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
DAD1.2	-0.25968304901552	RTP2	-0.2697208028626	G8P2.1	-0.32639745323975	YWH43.3	0.47421176124468	DAD2P1	-0.3195413244737
ID1	-0.2762780820469	IRF1	-0.3519538840971	TEL1	-0.41560870209194	YWH43.3	0.47421176124468	MC46	-0.31692050683385
AP1	0.2172559215454	TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208
TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208	TRP1.5	0.3211020776208
PHF40A.1	-0.28542799291952	GGM1	-0.28542799291952	TRAP1.2	-0.29012544923031	POU5F1.5	1.17395070447474	SECE2	0.26064761878418
TRP1.1	0.3211020776208	TRP1.2	0.3211020776208	TRP1.3	0.3211020776208	TRP1.4	0.3211020776208	TRP1.5	0.3211020776208
AD1D1	-0.21917915546093	PHL1.1	-0.20984274898954	DNH3E.1	0.3235164794237	HLA-E.1	0.32424018455011	CHCHD5	0.27820780937447
HURP1D1.2	-0.2862302018924	NSD1.1	-0.2862302018924	NSD1.2	-0.2862302018924	NSD1.3	-0.2862302018924	NSD1.4	-0.2862302018924
BAO.2	-0.2880054002765	GNM1.1	-0.2904839979944	HPH2A.2	-0.31257895454507	MRP2.2	-0.4876		

SCG3.2		-0.26464743687516	MANF	SLFN1	0.34878176126171	PAFAH8B3	-0.42210144790775
NREP.1	-0.25817451905716	SBP2.1	0.11974754888008	UBN4.2	0.1747548187389	SRP1	-0.4177400303049
PTX1.1	-0.24406772124096	CNN1L	-0.24648623988053	UBX2.3	-0.13669887264026	ANCY	-0.37427272810529
SOX11	0.25460721131848	PL1.2	-0.26545892000087	NTK2.2	0.13447164224786	BKCG.2	-0.3622700192466
TUBA1A.1	-0.24805297316931	RSF1	-0.27441854907389	NMCE4A.1	-0.29149705939339	FASN	-0.34513073983052
		FTSL1.1	0.26417692052062	OTD1.1	-0.12414262800303	POD6	0.25301912914019
		KF5A	-0.20791743079066	AMT.4	-0.14431811312281	POU3F3	-0.2684366648024
		KF3A	-0.25077684272638	IFGB5.1	-0.40402339702082	NAAS1	-0.30813984513218
		AP12.1	-0.30780278438507	FTX	0.15194122884791	TRAF2	0.17678409296473
		TAC1	-0.3679002249474	IRS.2	-0.15102296545476	TRAF3	-0.31402849071046
		FGFBP.2	-0.354267819893006	POU2L1	-0.25220052388491	TPSN3	0.27914579431307
		MYCBP2	-0.30720789494122	DUT1.1	-0.28819718181393	CHOD3	-0.28913340179486
		SFRP.1	-0.17055412151155	CTE1	0.13802464555912	USP2V.2	-0.24131414141414
		CHOD	-0.267283994633961	MMD	0.13120888574473	SFRN1	-0.28216031455222
		GAO45A.1	-0.31291318621495	HNNP3A.1	-0.28606500538241	SFRN1P1	0.28062780084098
		IFG4G	-0.25501701182289	HNS1C.1	-0.286295201239771	CEB2	-0.286295201239771
		RPL2L1	0.332862798681878	DMH4.1	0.324588909760886	MDM1	-0.26811840495175
		ITSM1.1	-0.284447490426309	RAN.3	-0.266107350660857	RRM1	-0.404846273187269
		ATM12B.1	-0.25450147449314	SAR.2	0.12709861207546	EWRS1	-0.314028819153131
		ZNF92	-0.279487366449257	FLOT1	0.29231012213619	VMP1	0.25008737406408
		TRAF2F12.2	-2.0473965525428	DUSP4	0.289776097346039	CS3RA7	0.297246749618
		VAL1	-0.25192347836982	GNB1.1	0.3321005158837	CEB1	-0.263078819153131
		CU1	-0.547013885287481	GNAQ	0.388750730831543	HELI	-0.48216492591532
		NTR	-0.26888827224729	PPF2K	0.2864080407897	MTRN2L	-0.307338981139
		SOD2	-1.1420731474697	CCND14N.4S1.1	0.2753683372782	ELAVL1	-0.2773504965379
		LAMP1.1	-0.251204238246307	INAF1.1	0.35817983038746	SMC5	0.30868490743213
		CNTNAP.1	-0.467653880169429	CAMK2	0.38882823844417	RAP2A	-0.27779980267576
		CNS1.1	-0.253990579098304	CBX3	0.263547633322	NOCL1	-0.38011691650073
		PSME2.1	-0.41789866210558	MTX2.1	0.2860161440297	SEC1IC	-0.34940304401641
		HGFBP1.1	-1.0280489551486	SCBP1A.1	0.30192700437166	NFR	-0.30621239061166
		KF5R1.1	-0.2840380711802	KF5R1.1	-0.25717311842835	TRAF2	-0.302402302895
		MTNDS.2	-0.476281641593538	CNTNAP2.3	-0.52978926557763	RAO1C	-0.3071027605026
		PMP1A1.1	-0.3039638323257	INP	0.262881431431	ECT2	-0.2522288306262
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CREB3	0.288636823489135
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RTTM2.6	0.353654743931389
MHRB51.4	-0.300678119076256
EIF1D.3	0.39852093124844
HNRNP40B1.4	0.34511774100551
STK4	-0.252964025388909
CCNA2.6	-0.40006232938889
PRDX5	0.35566499186296
RADS1AP1.5	-0.29849468998854
PRP1.5	-0.35354644085276
RATB1B	-0.27826505911459
RFC4.5	-0.318626972387765
MMA2.2	-0.2509885384948
TTC4	-0.36211931697623
RNS1	-0.288816173021928
RTF1.1	-0.24601903469301
ASPM.4	-0.544389084086379
MICOS13.5	0.33847596305684
ZMYM4	-0.286749684367749
RBM5.1	-0.28553401251742
HVAL2	-0.263989351783454
RPAP2	-0.29285926333679
NCBP3	-0.27612246704597
CEP78.2	-0.278205263743677
CHORDC1.1	-0.277601270174285
AHLN12	-0.26781462396663
CHD1.1	-0.31628490920603
ARL14EP.1	-0.268026624468702
ZNF698.1	-0.275436246451017
HNRNPU1.2	-0.274471596333408
FAM107B.1	-0.30562615396192
PHACTR4	-0.280051462415581
HECTD1	-0.2586367005384
DPM1	-0.26589802703203
RPAP2.1	-0.282126737991753
EPK4	-0.314118018131323
CHEK1.3	-0.274245466848041
HAUS1.1	-0.253781375641156
RNF7.2	-0.2573108046179
GIGYF2	-0.272546549450749
RTN4.4	-0.344262648828324
RHNS3	-0.339912506314025
EXOSC6	-0.250177239244881
ZNF827	-0.267443595976916
SCYL1	-0.336814963938321
ARRDC3.1	-0.267357728101938
HLPD1.2	-0.26229018523942
SCAD1	-0.265807403081699
ELAVL3.5	-0.56829371579863
VEZF	-0.274990397631371
SMC1.3	-0.300074906361125
DHX15	-0.26353834751335
ANXA5	0.32112696956343
ILKAP4	-0.306482829254055
NOCEL.1	-0.2672775797765
ZNF286A	-0.262087459017948
CCL4L2	-0.310080746481147
ST5	-0.24712467713396
RBM27	-0.291188703222856
SEPTIN10.3	-0.254606924708081
GATE	-0.25007943636821
CFAP97.1	-0.263052683549961
ECT1.1	-0.280986239630329
CPSE1.3	-0.261261751641672
SMARCC2.1	-0.27181153446103
POD5A	-0.244421819516307
ATAD5.3	-0.26557819298252
MCM3.5	-0.365793881186239
GTSE1.3	-0.359883224011128
CLIP1.2	-0.301268278321773
HNRNPD5	-0.389326278988352
CTPS1.2	-0.26224848157996
TPL3	-0.331308017412392
CAV1.7	-0.26291207032774
RNF145	-0.261671074912058
SLK	-0.3408185780307078
CD46	-0.250669181919002
SPG7.1	-0.29500640703513
ZNF24	-0.266519742046641
AHCTF1.1	-0.28995375973383
DBP4.5	-0.38609741854379
VREL1.5	-0.34399357808875
TMX1	-0.261459782452125
JADE1.2	-0.2616818131795118
PLEKHO1	-0.2899054704702
FOG2	-0.279193716244667
HNRNPU3.3	-0.446583112384819
SEC14L1.2	-0.297948140774749
CCL4L1.3	-0.351472902980584
AURKB.5	-0.32056477495662
PRCL1.2	-0.32788104109541
SRM1	-0.2627531187071
ADD3.3	-0.27874532523923
CCDC42P1.4	-0.273573251975485
SRK1.2	0.319649749262523
FADS2.1	-0.260623370954217
OCDL4	-0.308265514117574
NOL8	-0.30627180096356
RGS10.5	-0.40129207260943
PXBP1	-0.25131894321675
NCMA5	-0.26694931052312
NPC2.5	-0.3202889731802
CBX5.3	-0.31958083900366
RMTX1.1	-0.30760216254798
CHML	-0.2611220563482
TCDF1.6	-0.29213031123436
RNF2.2	-0.25108488307206
ZFP612.2	-0.28058061954843
YLP1	-0.2545398231117
GPA1CH2.1	-0.2776333436561
AMOT1.1	-0.26252735805454
TET1.4	-0.339461187631943
PDLIM2	-0.2580627398574
SMARCA5.4	-0.29282667208047
BXN906A.2.4	-0.254268484592782
USP4	-0.25863760774296
PIGL.2	-0.35472902891919
NCAPG.4	-0.358104503923076
NASP.5	-0.27190496805002
RHEF2	-0.27702965313133
RHOB.4	-0.360758951510703
PRK2	-0.323104841743742
APC.2	-0.36064971817547
LRN1.3	-0.32339388616249
PMR1G.5	-0.336612201414019
MARK2.2	-0.3995871780821
MYBL2.5	-0.301101307075285
MUP2.2	-0.326119104521315
TNKL.3	-0.36978524711104
KLHL23.4	-0.33125252471805
GAS2.2	0.4224204888073
CHAF114.4	-0.277115946230403
UBL1.1	-0.301324577126591
RRS1.1	-0.26960474885323
POU3D3.1	-0.2782100787693
ZFAS1.1	-0.320486454795296
SNHG17.3	-0.256112960332244
COM1L2	0.31849751079455
HMG2.5	-0.350916639284333
PPIRF.2	-0.253820272883487
CTSLM1.3	0.28774348466365
ATRN1F1.5	0.2986731703001
AMD1.1	-0.2925422392751
LINC00461.4	-0.35183297267737
CENP.5	-0.274029402727383
STAT1.4	-0.28353020898482
NAV1.3	-0.30023522724522
RNKL.5	-0.34876112013582

NME4.3 0.326619828149929
KIF20B.5 -0.407115547802102
MISL2 -0.535998463518136
POU2F1 0.25154880701775
CHDB 0.293197751091425
YWHAH.4 -0.27490716422003
FEAL1.5 0.28558970444136
CCL2.6 -0.638719970376635
MOS15A.5 -0.284937674772139
NDU1F1.2 0.17544871202003
KIF11.3 0.286339924772708
CYBA.6 0.465659396787839
FASN.3 0.439912266962087
HACD3.3 0.269273513127051
HSPA8.3 0.310009901515534
CANE1 0.321758566711296
ROMD1.1 0.37434496340519
PAK1IP2 0.356182792600155
ATAD2.4 0.32882120556421
MGST3.4 0.278753340438832
PA2G4.5 0.269112227433468
CCPF1.4 0.300808148119171
CENPE.5 0.48123624753398
CDMB1.2 0.295537566924286
FENL4 0.2979725484628
SPTCL.4 0.389701386614514
GART.4 0.261420844605776
MCM6.5 -0.363126810203209
EFA3.3 0.312772423814778
GLI3.3 0.25299901223621
SMCHD1 0.2804476705484
RPS10.1 0.37171573892104
USP10 0.258628199979113
CTCF.1 0.383420331777611
NDUFA1.2 0.38218461351276
SLC6A1.5 0.283856377059269
ATP5MG.1 0.2861261361791034
NMPY205.3 0.286495131156028
NN2 0.271119688389403
ZWNV.5 0.258531624649688
MAP3B.1 0.38888686145178
CD63.6 0.26941483899692
NDUFA11 0.254130177921171
ATXN2 0.355912684938668
SLC39A6.1 0.25335777943125
ARHGAP21.1 0.282349647374398
CCK2B.5 0.340086601198969
CCDC112.1 0.262192064507486
HSPD8B.3 0.349730937255937
TP53BP1.1 0.323465471337084
BASP1.4 0.45434242683675
ATP5ME3 0.300924038111367
TGFB3 0.310313402028018
METZA 0.31742714482299
DKC1.4 0.26917014024682
MGA1.7 0.3088489590939
KSHL1.1 0.25748236070592
RCAN1.6 0.336138922918718
SNRP.5 0.27022602122065
ATP5MD1 0.26861256418277
DDX5.2 0.25116183227436
SRGAP4 0.40027657500939
PRTL6 0.45417668798418
TOMM7.4 0.265544672109834
MGI5BP1.5 0.317020376109154
CCK2L.5 0.451517865405748
ATF3.3 0.309956935246089
CXCR2 0.28499014676519
ATP5FD1 0.274351090176821
GLRX.4 0.2670566045187
ACLY1 0.25896755056377
SLC25A8 0.358972003018368
RNA.6 0.676754423103985
SQLE.1 0.375519191600349
SDCA3 0.325700303593162
H2AFY2.3 0.251039003550216
SMC3.1 0.37976164934917
MIFNDC4 0.31187171423775
BAZ1A.1 0.27404938253963
SNX3.4 0.2632341226862
SELENOV2 0.251731074057948
CD151.4 0.31500348193738
MYE2.1 0.274697135378676
HNRNP.4 0.37427287228868
DLAGP5.5 0.48627932877949
CRBP1.7 0.50282598324209
RPNB1.4 0.3448480826629202
ANGU11.3 0.313921694897448
UQCXB.4 0.2961778484197
PMP2.6 0.40192979204444
SUPT16H.3 0.3211741166793154
NETO2.1 0.278308890826582
GNAN1 0.374483551211618
SPR12.3 0.37801661966437
DICER1.2 0.277288670309565
DNIL2.2 0.454387909799376
NSD1.7 0.35006103820393
JARID2.3 0.322412959043869
SNHCAF.5 0.36043808342422
USP1.3 0.39973182323014
USURP.2 0.256271178709061
EDH3 0.280951622638138
NDUFA3 0.360318026242328
FUS.5 0.290033195547151
FOXP1 0.325419201658936
TST1.7 0.39071945082832
GLUL2 0.262621066661094
TAF1D 0.3174287484224
DRAP1.3 0.28381074610917
ZMYND8.3 0.296336294888114
ZIC 0.25993714141491
LUC1B.3 0.355853812619328
NDUFA11.1 0.280599961920466
SNHG14.5 0.481304986498858
LBR.4 0.312397638861151
RNF58A.5 0.37924851791677
ATP5MF.1 0.277566306486
PMPF1.4 0.382745571344844
ACAT1.5 0.37924851791677
SLC25A2.2 0.3667190188632
GTF2.4 0.38379807018649
RANBP1.7 0.3683486495476
HMG2.6 0.740755410960196
SRP2.6 0.47466099757768
NSD1.6 0.35500400370049
MKR4.3 0.30787973264621
CDK1.7 0.474476712212554
RAB41C.4 0.253133666967037
MKI67.3 0.530243069612594
HMGCR.4 0.3334793734881741
SRA.3 0.2155158251513
POU5F1.6 0.59113832776983
SRP2.5 0.391918014808962
SMC1.2 0.38487984113946
FBLN1.3 0.267418940401904
NPM1.6 0.451189916182947
NDUFA7 0.28230287191445
GAP43.5 0.2916689027306
BAZ2B.3 0.281426320438833
MTL8B 0.30956177183336
TM6SF1.3 0.372748352265148
TUBB2A.5 0.3466164945185
KCF1CRL2 0.274869495009179
SEC63.3 0.2747836090288
HMMR.5 0.42670242262045
PKNOX.5 0.27468083939305
FAF2.0.2 0.267907980215881
PALM2-AKAP2.2 0.3476304804939
HSTYH4C.6 1.2755310290129
RBM3.3 0.25364816677365
SIOB1.1 0.320516443845644
MAP3.3 0.2735402688067
FSTL1.4 0.32896621784122
UACA.3 0.257514277050091
GIBBP.2 0.26361098821269
TUT4.1 0.21704490686375
SRSF7.5 0.333169206082882
TLE1 0.273992931662465
LRI.6 0.36030781548091
RIZ2L.3 0.252699733707287
HSPAS.5 0.3979315568476
HNPFP.5 0.3986233593068
MYCBP2.2 0.292516576614248
SPPI.5 0.2566670743745467
CLY1.1 0.2513169389716635
AP2M1.2 0.28654424587381
AITS2.3 0.260821932323504
RIMA.4 0.29263342499396
SYNE2.3 0.332689912820407
UBR2.6 0.461008336004365
SPRY4 0.257633044418707
TNXB.2 0.318460370971451
PK3R3.3 0.34225160906557
CTN2.3 0.265047578418653
ARHGAP29.5 0.4052046303647
TCERG1.2 0.254687091328207
POU3F2.5 0.357649969793545
ITGB.6 0.25642704746082

SNHG25.2	0.253518827045823
HNRNP.M6	-0.26834780283141
SCP2.2	0.256793762394791
FNBP1.3	-0.271509922964707
STMM1.6	-0.487431675582921
EFBP	0.291284796353591
TUBA3.5	-0.41177995157851
HMG3.5	-0.259051563666307
APOL7	-0.521509180080129
FNUR.2	-0.25257701074407
ARL6P1.4	-0.374416652388899
MT-ND1.4	-0.366495507966282
SLICK1.1	0.248518285111187
TCAF1.3	-0.270446637873356
PNX.3	-0.26293556667442
SOX1.3	-0.39165239595373
ANKRD12.4	-0.269300155677881
RIF1.4	-0.357302286689429
JUST.5	-0.39165037840386
KRT18.7	-0.71757156424365
TUBB2.4	-0.31315788523963
DLL3.7	-0.88251051423825
RPA3.6	-0.2867136966867
UBE2C.6	-0.593479617081675
ANKRD11.3	-0.30486704617736
NTRK2.6	-0.2922819594610706
IGFBP1.4	-0.36264049739983
KDC3.7	-0.472280249714605
DNAH1.5	-0.28280847905821
ANP32E.4	-0.271805947311453
NGU.5	-0.332481517313497
CDK4.6	-0.50752763117804
GABPB1-AS1.2	-0.255579544242216
LN28A.3	-0.365517887836613
NRP1.5	-0.3847463308048
LMNB1.4	-0.284211719930627
NAHNA.5	-0.31336767998745
THCA.4	-0.5081815728722
HLA-B.6	-0.50145218617868
CH24.4	-0.26998845767254
DNAH14.4	-0.378887007031618
NKTR.2	-0.266452753910117
ARL1C.6	-0.283663472631608
FNID1.4	-0.28409951166676
CCNB2.5	-0.376291758971214
IG3.4	-0.697968687841757
CDK1.3	-0.373708712437556
KDMSB.3	-0.25285788123337
TMPO.3	-0.330276571495132
RHOQ2.4	-0.35029792040332
CKS1B.7	-0.303374056580628
SESN3.4	-0.262464725717219
ORCL6	-0.379715891354608
NEFL.6	-0.813757687544352
HLA-C.5	-0.258888164454559
AIFP1B.3	-0.30280704712761
RUFY3.4	-0.273523280296765
TUBB3.7	-0.5028852915256
IG2.3	-0.3821159149418
CAMK1N1.7	-0.50428742822924
CCN2.6	-0.679590536461458
KIDINS20.4	-0.277396089309585
NEL.5	-0.37057410260581
FN1.6	-0.514240713749503
HMG2.4	-0.27772756553127
DISP4.4	-0.3056411646726
WSB1.4	-0.29517124147357
DPP4.4	-0.2889416384965
KRT6	-0.2837752523909
ITGAV.6	-0.256528727683729
SOX11.5	-0.39333488256109
MYC.3	0.65126491273471
CRABP2.5	-0.298653128602881
CCNB1.6	-0.376674897097465
TOP2A.5	-0.511803182571116
SOD2.7	-0.403873958626007

Table S3 IPA upstream analysis of treated vs. untreated in all samples

Upstream Regulators	all	benign	BIH040	BIH246	BIH046	all_progressive	BIH039	BIH047	BIH237-A
glycosaminoglycans	4.768	4.434	4.543	5.202	4.856	6.746	4.868	5.218	
TNF	3.903	3.343	3.774	4.389	4.233	5.055	4.624	3.731	
IFNG	2.866	3.259	3.74	4.197	3.511	6.076	3.711	4.461	
tetradecanoylphorbol acetate	3.574	2.867	2.309	3.894	3.004	3.626	3.842	3.424	
IL1B	2.306	3.057	2.884	3.541	3.913	4.093	2.286	3.646	
poly(I:C)-RNA	2.812	1.757	2.363	3.807	3.011	4.731	3.352	3.302	
IL4	2.368	2.156	2.556	3.338	3.476	3.212	3.045	3.618	
IFNA2	1.931	2.638	2.622	2.907	3.108	4.747	2.396	3.262	
RELA	2.755	2.546	2.404	3.112	3.12	3.344	2.753	3.343	
ETVE-RUNX1	-3.293	-1.287	-2.24	-2.724	-3.57	-3.429	-2.305	-3.268	
progesterone	2.891	2.585	2.713	2.891	2.514	2.878	3.058	2.191	
IL1AT1	1.837	2.863	2.794	3.484	2.484	4.020	2.045	2.202	
Interferon alpha	1.476	1.897	1.594	2.733	3.136	4.197	2.103	3.08	
fligastin	-2.646	-1.878	-2.779	-2.867	-2.615	-2.489	-2.052	-2.722	
IL6	2.243	2.418	2.844	3.423	2.423	3.108	2.915	2.855	
citric acid	1.705	2.217	2.033	2.479	2.479	3.085	3.652	1.977	
NFkB (complex)	2.151	2.389	2.295	2.176	2.172	3.222	2.111	3.076	
SP1	2.087	2.583	2.589	2.186	1.937	2.237	2.084	2.884	
valproic acid	1.137	-0.115	-2.101	-3.427	-2.944	-2.996	-2.9	-2.979	
IL2F1	-2.594	-1.718	-2.412	-2.402	-2.779	-2.956	-2.598	-1.605	
BHLHE40	2.333	1.664	1.121	2.144	2.897	2.878	2.53	2.121	
IL6	2.608	1.131	1.607	2.935	2.575	1.977	3.123	1.95	
TLR7	1.943	1.949	1.184	2.375	2.397	3.241	1.982	2.742	
P2	2.274	2.768	2.401	2.689	2.827	2.413	2.656	1.892	
EIF4E	2.159	2.236	2.159	2.185	2.373	2.747	2.586	2.150	
IRF7	1	1.964	2.177	2.033	2.889	3.893	1.461	2.889	
N-acetyl-L-cysteine	-2.807	-2.167	-2.418	-2.424	-1.402	-2.215	-2.613	-2.418	
camptothecin	1.633	2.197	2	2.265	1.997	2.829	2.832	2.829	
iga	2.236	2.449	2.236	2.236	2.962	2.236	2.828	1.633	
lhar	1.432	N/A	1.98	2.76	1.963	3.393	2.579	2.2	
ILM2	1.915	N/A	2.2	2.414	2.414	3.76	2.414	2.343	
SB203580	-2.34	-1.815	-1.552	-3.234	-1.107	-3.452	-2.233	-1.512	
CITE2D	-1.982	N/A	-1.982	-2.794	-2.2	-3.102	-2.407	-2.794	
NXK2-3	-2.440	-0.819	N/A	-3.568	-3.568	-3.517	-2.628	-1.177	
TP53	2.407	3.083	2.571	1.836	1.619	2.156	1.728	2.749	
IRF3	1.573	N/A	2.136	2.431	2.748	3.36	1.925	2.748	
CD437	-2.333	-0.181	-3.148	-2.823	-2.823	-2.885	-2.334	-2.823	
sirolimus	-2.321	-2.56	-2.057	0.173	-1.896	-3.438	-2.404	-1.684	
resiquimod	2.401	N/A	2.401	2.764	2.126	2.396	2.16	1.947	
epigallocatechin gallate	2.238	-1.288	N/A	-2.811	-2.811	-2.188	-2.517	-2.811	
acetylcystein D	-2.238	0.469	-2.433	-1.912	-2.804	-2.433	-1.138	-1.636	
MYC	-1.819	-0.856	-2.73	-3.576	-2.002	-1.839	-1.983	-1.951	
IL5	1.899	1.945	1.573	2.018	2.27	3.343	1.198	1.661	
EP300	1.97	2.175	1.744	2.18	1.356	1.97	2.18	2.183	
SI008A	2.219	N/A	1.982	2.433	2.219	2.219	2.219	2.219	
CASR	2.236	1	2	2.433	2.449	2.9	1.912	1.633	
in gamma	1.982	N/A	1.982	2.2	2.2	2.807	1.982	1.982	
OSM	1.304	1.124	0.619	3.008	1.713	3.139	2.272	2.254	
RLC3H1	-1.942	N/A	-2	-3.331	-2.138	-3.606	-1.706	-2.138	
INB1	1.673	N/A	1.603	2.052	2.052	3.159	2.16	2.501	
LMO2	2.238	0	1.633	2.236	2.646	2	2.449	1.89	
LBD1	2.236	0	1.633	2.236	2.646	2	2.449	1.89	
IRF1	1.906	0.305	1.562	2.189	2.359	3.127	1.921	2.189	
lh	1.484	N/A	1.931	1.992	2.368	2.918	1.992	2.17	
IL27	1.981	N/A	N/A	2.789	2.42	2.947	2.26	2.427	
IL12B	-1.991	-0.333	-0.946	-1.872	-1.545	-2.813	-1.847	-1.874	
VDR	2.228	1.941	1.992	1.863	2.317	1.3	1.863	2.082	
dexamethasone	-1.718	-1.411	-1.894	-2.242	-2.054	-2.188	-1.276	-1.952	
IN1	1.345	0.841	0.855	2.089	1.274	1.678	1.5	1.5	
CD40LG	1.685	0.097	0.369	2.727	2.356	1.995	2.738	1.443	
doxorubicin	1.406	2.464	1.673	1.941	1.839	1.698	2.224	1.028	
hemocytoblast	1.820	1.985	0.763	2.984	2.113	2.174	1.863	1.820	
FOXM1	2.374	0.899	1.927	1.749	2.202	2.154	1.498	1.127	
PLAU	2.213	0.94	0.982	2.219	1.297	1.311	1.518	2.433	
IN1 beta	1.293	1.087	1.907	1.888	2.344	2.334	2.242	2.242	
CD28	2.213	N/A	0.67	2.345	2.345	0.896	2.63	2.157	
TNF SF11	1.708	1.445	1.394	1.263	2.289	2.112	1.86	1.574	
E. coli B4 lipopolysaccharide	1.633	N/A	1	2.342	2.449	2.611	1.48	1.901	
E. coli B6 lipopolysaccharide	1.022	1.709	1.694	1.987	2.002	2.002	1.681	1.304	
IL1	1.729	0.555	1.485	2.171	1.987	1.485	1.987	2.019	
ST192b	-2.138	0.052	-2.438	-0.316	-2.445	-2.219	-2.28	-1.863	
LJN	1.188	1.167	1.315	1.744	1.457	1.906	1.18	1.636	
quercetin	-1.982	N/A	-2.213	-1.688	-1.937	-1.432	-2.621	-1.387	
SP110	-1.342	N/A	-1.897	-1.897	-1.899	-3.937	-1.134	-1.833	
SMARCA4	1.405	1.311	0.447	1.625	2.393	2.371	1.594	1.824	
CS	2.177	N/A	1.444	1.948	1.315	2.177	2.387	1.679	
PHL	0.623	0.942	1.177	1.552	1.376	3.104	1.522	1.701	
CD3	1.725	1.109	0.156	2.111	1.937	1.939	1.925	1.865	
hydrogen peroxide	1.969	3.17	1.837	0.647	1.878	1.408	1.693	0.279	
IFN1	0.896	N/A	1	2.011	2.393	3.993	1.234	2.203	
ILAVL1	1.051	2.188	N/A	1.684	1.684	2.38	1.708	1.708	
AGT	1.776	2.499	0.994	2.524	1.324	1.76	1.313	1.396	
CREBBP	1.982	N/A	N/A	1.219	1.219	1.982	1.96	2.19	
trovafloxacin	1.889	N/A	1.889	1.889	2.268	2.268	1.414	2.288	
NFKB1	0.862	2.19	0.862	1.562	1.562	1.818	1.221	1.278	
MAPP1	-0.544	-0.235	-1.867	-1.769	-1.999	-3.315	-1.408	-1.474	
PAK	1.342	N/A	1.342	1.408	1.408	2.468	2.468	2.298	
CTNNB1	1.777	2.222	1.2	2.189	1.943	1.913	0.952	0.954	
PRKCA	1.673	-0.459	1.408	1.406	1.049	1.406	1.673	2.234	
STAT6	-1.274	N/A	N/A	-2.025	-2.992	-2.204	-1.816	-2.22	
INF SF10	1.986	0	1.664	1.881	1.52	3.212	1.839	1.839	
PIK3R1	1.986	N/A	0.882	2.19	1.342	2.2	1.96	1.342	
TGFB1	2.241	4.11	0.699	0.883	-0.337	1.467	1.288	0.55	
arsenic trioxide	1.404	1.186	1.862	1.877	1.811	1.943	1.943	1.943	
KAT2B	1.964	N/A	0.91	1.964	1.964	1.964	1.964	1.72	
LY294002	-1.429	-3.198	-1.221	-0.945	-0.533	-1.577	-1.429	-1.697	
APR	0.441	0.955	1.342	1.972	1.194	1.984	1.6	1.6	
medroxyprogesterone acetate	1.696	1.846	0.874	1.656	1.151	1.967	1.734	1.899	
PI3K (family)	1.972	N/A	1.513	2.196	1.009	1.513	1.972	1.795	
benzoxazin	-1.942	-1.592	-1.452	-2.822	-1.927	-1.193	-1.534	-1.844	
CSF2	0.581	1.083	1.941	0.817	1.464	2.156	1.853	1.934	
PDGF BB	-0.229	2.588	1.408	0.955	1.263	1.715	0.669	2.784	
MUS1	1.07	N/A	1.983	1.983	1.846	2.414	1.336	1.336	
etoposide	0.818	1.79	1.412	1.812	1.516	1.154	1.224	1.788	
DDX58	N/A	N/A	N/A	2.383	2.397	2.372	2.178	2.178	
ZALL-CMO	1.783	2.167	1.26	1.897	1.897	0.836	2.077	2.077	
ATG5	N/A	N/A	N/A	0.816	2.433	2.3	2	2.238	
deferroxamine	1.026	2.769	1.026	1.026	1.294	1.709	1.539	1.091	
RED1	1.231	0.929	1.944	2.23	1.984	N/A	2.334	N/A	
mifepristone	-1.491	-0.438	-1.536	-1.491	-1.457	-2.423	-1.269	-1.215	
EGF	1.023	1.167	1.23	1.562	1.019	1.193	2.227	1.702	
miR-124-3p (and other miRNAs wiseed AAGCAGC)	-1.624	-2.413	-1.987	-1.742	-1.173	-1.969	-1.115	-0.354	
CDK12	1.759	N/A	1.491	1.788	0.862	1.959	1.591	1.959	
tasemetostat	-1.248	N/A	1	-1.227	-1.729	-0.938	-1.119	-1.566	
abiraterone	N/A	N/A	N/A	2.138	2.138	2.628	2.138	2.138	

nicotinotin A		-1.375	1.375	-1.213	-1.292	-1.814	-0.326	-1.879	-1.853
JAK1	N/A	N/A	N/A	N/A	2.415	2.207	2.83	2.415	1.446
Nfya (family)	1.964	N/A	1.964	1.964	1.964	1.4	1.964	1.964	
CSF1	1.963	1.521	1.642	1.431	1.307	1.621	1.107	1.365	
TLR3	N/A	N/A	1.176	1.977	1.977	1.824	1.757	2.208	
nicotinic	1.633	1.152	N/A	1.889	2.546	N/A	1.889	2.638	
NONO	1.192	N/A	N/A	1.44	1.819	3.429	0.883	2.00	
EDN1	2.216	2.39	N/A	1.654	0.559	1.086	1.26	1.644	
nitroson	0.947	1.246	0.78	1.186	2.594	2.594	1.213	1.313	
IL2	1.832	N/A	0.57	2.38	1.711	0.87	1.559	1.748	
TICAM1	N/A	N/A	N/A	2.133	2.133	2.215	2.133	2.133	
cigarette smoke	1.538	2.159	1.21	1.712	0.633	0.762	1.512	1.175	
PRKDC	1.492	1.941	1.423	0.35	1.452	1.423	1.119	1.445	
desclabine	1.306	3.588	0.864	0.839	-0.337	2.665	0.263	-0.918	
PF4	1.225	N/A	1.225	1.543	0.816	1.543	1.543	1.73	
POS	1.708	1.773	0.832	0.339	0.979	1.941	0.763	1.692	
Tgf beta	1.452	1.913	2.2	1.498	0.609	2.183	0.275	1.699	
inhal	1.684	2.328	1.188	0.949	0.681	1.544	1.638	1.814	
IFNA2	0.686	1.123	0.095	0.216	1.474	2.474	0.951	1.691	
EBI3L1-Z7B	N/A	N/A	N/A	2.219	1.982	2.186	2.219	1.62	
concanavalin a	N/A	1.96	N/A	1.974	2.2	N/A	2.2	2.2	
NFE2L2	1.044	1.665	1.546	0.719	0.534	2.048	2.447	0.417	
JO1	-1.446	N/A	-1.446	-1.4	-1.706	-1.091	-1.671	-1.741	
STAT4	1.561	N/A	1.253	1.489	1.489	2.207	1.144	1.317	
Igavrin	N/A	N/A	N/A	2.138	1.912	2.813	1.664	1.912	
tenofibrate	1.698	N/A	1.698	1.698	1.937	0.555	1.937	0.896	
IRGM	-1	N/A	N/A	-1.667	-1.667	-3.149	-0.816	-1.89	
6-bromo-cAMP	1.041	2.183	0.218	1.947	-0.095	2.177	1.947	0.734	
Cytokine	0.536	N/A	1.38	1.887	1.38	1.945	1.638	1.638	
AICAR	1	1.772	1	1.633	1.195	1	1.633	1.095	
NFATC2	3	N/A	N/A	1.633	1.408	1.408	2.236	1.408	
lamoxifen	0.306	0.346	1.83	1.981	1.022	1.877	1.105	1.99	
lecithastin	2.031	2.062	2	0.721	0.338	0.421	1.186	1.408	
igm1	-0.555	N/A	N/A	-1.068	-1.068	-2.058	-1.278	-2.058	
Salmonella enterica serotype abortus equi lipopolysaccharide	N/A	N/A	N/A	1.953	1.941	1.941	2.177	2.183	
SOP2	N/A	N/A	N/A	-2.218	-1.762	-2.592	-1.553	-2.028	
CLDN7	-1.664	N/A	N/A	-2.2	-2.294	-2.236	-2.2	-0.92	
SPZ2	-1.246	1	-1.227	-1.229	-0.836	N/A	-1.566	-2.366	
TNFSF12	N/A	N/A	1.98	N/A	1.96	1.96	2.2	1.96	
ZF-TA-RELA	N/A	N/A	N/A	2	2	2	2	2	
IL21	N/A	N/A	N/A	2	2	2	2	2	
NOS2	1.432	1.481	0.655	1.095	1.628	1.3	0.784	1.609	
flamincinolone acetamide	N/A	2	1.116	1.116	1.116	2.219	0.447	1.134	
NCF	1.955	1.605	N/A	2	1.116	N/A	2.219	0.447	
lofacilimb	N/A	N/A	N/A	-1.982	-1.982	-1.982	-1.982	-1.982	
RNASEH2B	N/A	N/A	N/A	-1.664	-1.664	-2.433	-1.387	-2.433	
RNA11RNA13	N/A	N/A	N/A	1.873	1.873	2.751	1.569	1.873	
1,2-dihydro-3-thione	1.418	N/A	1.018	1.388	0.94	1.686	2.936	0.493	
forskolin	0.645	1.644	-0.218	1.841	0.469	2.2	0.801	2.205	
NAV1C1	1.131	0.447	1.342	1.667	1.89	0.822	1.414	1.667	
5-fluorouracil	-1.348	1.277	-1.347	0.35	-1.883	-1.661	-1.429	-0.544	
KLFB	1.046	N/A	N/A	0.961	1.199	1.97	1.474	2.16	
SIPP1	1.439	N/A	N/A	1.458	1.458	1.087	2.213	2.173	
CC	0.728	0.282	1.132	1.483	1.322	1.48	2.021	1.328	
CD40	N/A	N/A	N/A	2.212	1.892	1.93	1.821	1.899	
ACIN1AC24	1	2.39	N/A	1.862	1.862	1.862	1.414	1.862	
MTOR	1.673	1.544	1.941	0.853	0.771	1.877	0.777	0.431	
ZBTB10	0.447	N/A	N/A	1.195	2.219	2.379	1.195	2.219	
FOXO1	0.816	N/A	N/A	1.941	1.265	3.051	1.265	1.265	
gentofibrate	1.213	1.213	0.655	1.913	1.529	0.833	1.213	1.213	
2-amino-1-methyl-6-phenylimidazo-4,5-b-pyridine	N/A	N/A	N/A	2.63	1.912	N/A	3.302	1.967	
metylstibestrol	2.14	2.091	N/A	1.987	1.987	N/A	1.363	1.832	
CSN1	1.965	N/A	N/A	1.987	1.987	1.235	N/A	1.965	
estrogen	0.761	1.011	-0.15	1.983	1.721	1.727	1.383	1.253	
LDL	1.469	1.467	0.464	1.197	0.464	2.175	1.197	0.842	
BF4	0.442	-1	-1	-0.971	-1.706	-1.452	-1.383	-1.383	
JAK2	N/A	N/A	N/A	2.418	2.215	N/A	2.418	2.215	
tyrphostin AC490	-0.747	N/A	N/A	-0.786	-1.839	-2	-1.969	-1.854	
nitric oxide	N/A	2.382	1	0.717	0.717	1	0.717	1.411	
REL	N/A	N/A	N/A	2.176	1.72	2.176	1.571	1.556	
IKKB	0.414	-0.626	1.336	1.416	0.594	1.87	1.775	0.973	
IL22	1.165	N/A	1.206	1.165	1.761	1.452	0.714	1.523	
FSH	0.692	0.615	1.154	1.969	1.44	N/A	1.351	1.705	
OGA	0	-1.129	0.447	1.026	1.732	2.121	0.508	1.959	
RPTOR	2	1.982	N/A	1.342	N/A	N/A	2.219	1.342	
SENP3	N/A	2	N/A	2.219	2	2.433	2.219	N/A	
PD98059	-1.408	-0.618	0.477	-0.952	-0.616	-1.126	-1.405	-2.274	
CHUK	0.767	0.302	1.199	1.288	0.895	2.144	0.874	1.467	
CREB1	0.954	1.664	0.478	1.586	0.589	1.947	0.954	1.664	
MYD88	N/A	N/A	1.099	1.722	1.722	1.722	2.207	0.685	
TRAF2	N/A	N/A	N/A	-1.915	-1.871	-2.58	-1.4	-1.4	
AR	-0.481	0.555	0.083	1.121	-1.314	0.692	-0.266	-0.266	
TRPO	1.154	1.154	1.154	1.1	1.446	1.491	1	1.446	
NRG1	1.356	1.7	N/A	3.363	3.327	N/A	1.034	1.877	
JAK1/2	N/A	N/A	N/A	2.219	2.219	2.219	2.219	1.982	
tiogilazone	-0.952	1.854	-0.73	0.046	-1.509	-1.279	0.128	-1.132	
PAF1	N/A	N/A	N/A	2.342	2	2.236	2	2	
ESR2	0.894	1.943	0.092	0.634	1.955	-0.098	1.39	0.75	
NFKBIA	1.678	0.501	1.094	1.462	0.75	0.886	1.014	1.212	
RICTOR	-0.798	N/A	-1.109	0.319	-2.111	-1.726	-1.192	-1.238	
chromopyridine	N/A	N/A	N/A	1.406	1.406	2.598	1.406	1.406	
atalimyrin	N/A	N/A	N/A	2.273	1.406	2.598	1.406	1.406	
IFNAR2	N/A	N/A	N/A	1.636	2.236	2	N/A	2	
estrogen	N/A	N/A	N/A	2.219	2	2.219	N/A	2.238	
estrogen receptor	-1.36	-1.342	-1.408	-1.539	-0.563	-0.64	-0.956	-0.647	
CgG ODN 2006	N/A	N/A	N/A	2.132	1.886	2.549	N/A	1.886	
nitroimid	-1.475	-0.152	-0.816	-0.484	-0.484	-1.264	-1.588	-0.804	
NLR5	N/A	N/A	N/A	2.216	1.983	1.981	2.216	N/A	
Tnf (family)	1.165	N/A	1.165	N/A	1.452	1.709	1.452	1.452	
ERBB2	1.164	1.908	0.967	0.673	0.566	0.997	-0.528	1.691	
IL3	1.198	2.183	N/A	0.577	0.129	1.715	1.752	N/A	
NCQA2	1.165	N/A	1.165	1.287	1.016	1.452	0.912	1.287	
SP901Z5	-1.949	-1.019	-0.396	-1.172	-1.067	-0.639	-1.469	-0.265	
estamimophen	1.705	N/A	1.086	1.086	1.086	N/A	1.912	1.463	
PAX3-FOXO1	-0.707	-1.134	-0.447	-2.343	-1.718	N/A	-0.632	-1.219	
IL5	N/A	N/A	2	0.896	0.647	0	1.492	-0.647	
salmonella minnesota R595 lipopolysaccharides	N/A	N/A	N/A	1.965	1.965	N/A	2.163	1.965	
DICER1	-1.718	-1.604	N/A	0.965	N/A	-1.718	-1.263	-1.647	
P38 MAPK	0.684	2.216	0.201	1.223	0.252	1.935	N/A	1.559	
phosphonate-1-phosphate	-2.183	N/A	N/A	2.216	1.709	N/A	2.219	N/A	
NR3C1	-1.543	-0.267	-1.177	-1.144	-0.369	-1.144	-1.029	-1.177	
prostaglandin J2	N/A	N/A	N/A	1.898	1.937	1.067	2.187	1.154	
IL18	N/A	N/A	N/A	1.823	1.823	2.474	N/A	1.823	
curcumin	-0.794	0.53	-0.359	-1.197	-1.278	-1.335	-1.036	-1.226	
peptidoglycan	N/A	N/A	N/A	1.969	1.969	N/A	1.969	1.969	
CoRII analog	N/A	N/A	0.896	N/A	-1.156	-0.707	-2.449	-1.134	

SNCA	N/A	N/A	N/A	2.213	2.213	N/A	1.982	1.982	1.432
G protein alpha	N/A	N/A	N/A	1.941	1.962	1.969	1.941	N/A	1.303
mR-5a5p (and other miRNAs wisseed CGCAGUG)	N/A	-1.078	-1.998	N/A	-0.544	-1.108	-1.408	-0.277	-1.303
CNDN1	N/A	1.342	N/A	N/A	0.816	N/A	N/A	-1.134	1.673
SVYV1	N/A	2.688	2.246	1.134	0.378	2.236	1.89	0.816	0.816
betosterone	N/A	0.708	2.688	0.043	0.033	0.95	0.845	0.303	0.303
ILRN	N/A	-0.152	0	-1.709	-2.012	-1.709	-1.172	-1.028	-1.028
nitroflorant	N/A	0.798	2	1.342	0.087	1.121	-0.152	1.601	0.656
CS15	N/A	-1.068	-2.131	-1	-0.533	-0.577	-1	-1.298	-1
metforman	N/A	0.816	1.457	1.242	1.134	1.364	0.378	0.707	0.573
miR-21	N/A	-1.068	-2.132	0.283	-0.485	-1.533	-0.558	-0.584	-0.724
MYCN	N/A	-0.8	-0.465	-0.585	-2.131	-0.163	0.621	-1.584	1.061
methsilylene	N/A	N/A	N/A	N/A	2	1.898	N/A	1.89	1.833
coristerone	N/A	N/A	N/A	-1.941	-2	-2.368	N/A	N/A	-1.082
Jnk	N/A	1.928	N/A	1.229	1.483	0.62	N/A	1.22	0.892
BC12	N/A	-1.458	-1.968	N/A	-0.663	-1.018	N/A	-0.784	-1.474
5-O-methyl-beta-araf-1-(2->5-O-mycloyl-alpha-araf-1-o-1-glyco)	N/A	N/A	N/A	1.342	1.411	2	2	N/A	2
PLX2	N/A	1.117	N/A	0.264	0.264	1.411	1.117	1.929	1.488
beta-estradiol	N/A	0.923	2.161	-0.455	-0.734	-1.141	1.133	0.788	0.474
prednisolone	N/A	N/A	N/A	-0.816	N/A	N/A	-2.236	-2.236	-2.236
molybdenum disulfide	N/A	-0.707	-1.342	N/A	1.342	1.633	N/A	N/A	2.236
budesonide	N/A	0.138	N/A	N/A	1.981	1.352	N/A	1.758	1.794
FGF2	N/A	0.204	0.833	-0.391	1.339	1.331	-0.174	1.333	1.625
PM1	N/A	0.365	1.523	-0.73	1.322	0.998	1.504	-0.296	0.458
STK11	N/A	0.229	-1	-1.687	N/A	N/A	N/A	0.333	-0.958
PCR	N/A	0.928	1.711	0.928	0.404	1.004	0.718	0.388	1.063
CEBPB	N/A	-0.478	0.932	0.64	-0.27	0.27	1.873	1.895	0.262
ubiquitin	N/A	0.713	0.985	0.713	1.282	1.316	0.713	0.387	1.033
SP1	N/A	0.497	N/A	0.343	1.107	1.281	2.355	-0.059	1.411
PP2A/G1879 tyrosine kinase inhibitor	N/A	N/A	N/A	N/A	-2.2	-1.342	N/A	-1.342	-2.2
cythoxosterone	N/A	1.028	2.368	0.772	-0.381	-0.381	1.484	-0.277	0.343
cythoxophamide	N/A	-2.144	N/A	N/A	-0.967	-0.808	-1.131	-0.673	-1.314
PNP1	N/A	N/A	N/A	N/A	-1.981	-2	-2.795	N/A	-2.236
CFH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-2.188	-2.188
cytoposin A	N/A	-1.608	0.221	-1.54	0.093	-0.951	-1.072	-0.427	-1.05
iron	N/A	0.974	N/A	1.989	0.974	-1.072	0.974	1.061	1.061
gadolin	N/A	N/A	N/A	N/A	-1.864	-2.218	-1.387	-1.864	N/A
FN alphabeta	N/A	N/A	N/A	N/A	2.236	N/A	2.4	2.236	N/A
D-glucose	N/A	0.488	-0.101	-0.05	2.318	1.466	0.578	1.364	0.478
rasagilazine	N/A	-0.438	N/A	-0.568	-1.253	-0.81	0.117	-1.483	-2.131
gabapentin	N/A	0.438	N/A	0.568	1.633	0.447	2.828	0.95	0.95
tanespimycin	N/A	-0.8	0.528	-1.091	-0.552	-0.149	-1.4	-0.877	-1.604
mR-182-5p (and other miRNAs wisseed UUGGCA)	N/A	N/A	N/A	N/A	-1.833	-0.816	-2.236	-0.447	-1.833
gpc	N/A	0.123	-2.236	-1.342	0.38	-0.211	-2.135	-0.277	-1.061
diclofenac	N/A	0.555	1.154	0.391	0.447	0.896	1.4	0.896	0.97
S-azacytidine	N/A	1.984	1.941	N/A	1.4	N/A	-2.449	-0.818	-0.557
LGALS3	N/A	1.172	N/A	N/A	1.27	1.953	N/A	0.985	1.286
BRCA1	N/A	-1.387	1.749	N/A	0.816	-0.254	2.449	0	0.393
rasinon	N/A	-1.387	N/A	-1.067	-0.387	-0.478	-1.982	N/A	1.343
Lh	N/A	N/A	N/A	N/A	-2.308	0.625	N/A	-0.748	1.951
capitain	N/A	0.772	2.451	0.374	0.854	0.536	0.435	0.75	0.369
fenamic acid	N/A	0.657	N/A	1.123	1.378	1.373	1.521	1.521	1.521
ESR1	N/A	0.932	0.357	-1.107	-1.148	-0.63	-1.534	-0.368	-1.428
bezafibrate	N/A	-0.768	0.152	-0.44	-1.471	-1.316	-0.068	-1.054	-1.198
NRAS	N/A	0.895	0.152	-0.768	-0.188	0.478	-2	-0.086	0.086
LEP	N/A	0.747	1.505	0.668	1.088	1.188	0.592	1.991	1.991
ERK	N/A	0.328	1.671	0.768	0.803	0.301	0.865	0.328	1.428
HMGCoA	N/A	-1.442	-2.236	-0.994	-0.322	-1.287	-0.133	-0.369	N/A
metformin	N/A	-0.951	-0.463	-0.85	-1.388	-0.621	-1.075	-1.075	-0.235
metformazole	N/A	-1.342	N/A	N/A	-1	-1.633	N/A	-1.342	-1
ESRRA	N/A	1.982	1.912	N/A	N/A	0.555	N/A	1.71	1.015
KDM5B	N/A	0.447	0	0.898	0.607	1.897	1.127	0.362	0.362
ACT1	N/A	1.073	-1.342	-0.221	1.073	0.293	-0.585	-0.091	1.59
ARNT	N/A	0.815	2.032	0.931	-0.593	-0.78	0.463	-0.294	-0.374
TECFE	N/A	1.208	-1.581	0.703	0.163	0.38	1.059	0.273	0.851
SMARCB1	N/A	-0.625	N/A	N/A	-1.673	-1.23	0.937	-1.23	-0.526
IFNARI	N/A	N/A	N/A	N/A	1.994	N/A	2.229	1.994	N/A
E. coli serotype O127B8 lipopolysaccharide	N/A	0.651	N/A	0.651	0.39	0.57	1.432	0.91	0.97
ethanol	N/A	0.508	2.189	1.131	0.456	-0.267	0.087	0.811	0.721
RASSF1	N/A	0.81	1.633	N/A	0.64	0.508	-1.067	-0.478	1.238
cythosin AG 1478	N/A	-0.911	N/A	N/A	-1.27	-0.911	N/A	-0.911	-2.098
ZFP56	N/A	N/A	N/A	N/A	-1.981	-1.98	N/A	N/A	-2.213
ETS1	N/A	N/A	N/A	N/A	1.987	1.969	N/A	N/A	2.213
LARP1	N/A	N/A	N/A	N/A	3.188	N/A	N/A	N/A	3
TEAD4	N/A	2.213	N/A	N/A	1.715	1.982	N/A	N/A	-0.246
NR4A1	N/A	N/A	N/A	N/A	1.751	2.418	N/A	N/A	1.977
MLXPL	N/A	N/A	N/A	N/A	-3.188	N/A	N/A	N/A	-2.188
obetimer	N/A	N/A	-1.927	N/A	-1.988	N/A	N/A	-2.628	N/A
NCOA3	N/A	N/A	N/A	N/A	1.758	1.758	N/A	1.944	0.596
Pfam3-Cys-Ser-Lys4	N/A	N/A	N/A	N/A	1.236	N/A	2.407	1.236	1.176
ribonolone	N/A	N/A	N/A	N/A	1.4	1.915	N/A	2.2	1.522
colistin	N/A	-1.342	N/A	N/A	-1	-1.342	N/A	-1.342	-1
kanamycin A	N/A	-1.342	N/A	N/A	-1	-1.342	N/A	-1.342	-1
1-Deoxy-delta-12,14-IP4J2	N/A	-0.168	2.384	0.15	-0.707	-0.96	-0.904	-0.214	-0.917
geldanamycin	N/A	1.633	N/A	0.87	0.113	0.113	-1	0.915	-0.469
TIF	N/A	N/A	N/A	N/A	N/A	N/A	2	N/A	2
greasensB	N/A	N/A	2	N/A	N/A	N/A	2	N/A	2
ACOX1	N/A	-0.378	-1.89	0	-0.447	-0.378	-1	-1.195	-0.707
APP	N/A	1.127	1.573	0.292	-0.115	0.303	1.451	0.213	0.904
KAT5	N/A	N/A	N/A	N/A	1.982	N/A	N/A	1.982	0.262
SMAD4	N/A	-0.678	0.771	-1.133	-0.748	-0.468	-0.901	-1.103	-0.15
PIK3CG	N/A	N/A	N/A	-0.133	-1.98	N/A	-1.98	-1.98	N/A
genistein	N/A	0	1.912	0	-1.13	-0.418	1.38	0.816	-0.303
TO-901317	N/A	-0.555	N/A	-1.067	-1.067	-1.067	N/A	-1.067	-1.067
Go 697b	N/A	-0.388	N/A	N/A	-1.98	-1.98	N/A	N/A	1.198
3'-dinolymethane	N/A	-0.388	1.177	N/A	-2.463	0.327	1.432	1.243	0.933
TAZ	N/A	N/A	1.999	N/A	1.131	1.597	2.219	0.896	N/A
methylxanthinosoguanidine	N/A	N/A	1.999	N/A	1.939	N/A	N/A	N/A	1.933
niobolone	N/A	N/A	N/A	N/A	1.307	2.218	N/A	2.218	2.218
SRC	N/A	N/A	N/A	N/A	1.539	1.103	N/A	1.208	1.972
carbon tetrachloride	N/A	0.179	1.981	0.849	0.762	-0.414	N/A	0.762	0.871
oxalipatin	N/A	0.44	1.161	N/A	1.4	0	0.447	0.928	1.472
IL4	N/A	1.053	1.982	0.718	-0.351	0.327	1.087	-0.984	-1.917
caloplatin C	N/A	-0.958	N/A	N/A	-0.554	-0.958	N/A	-0.958	-1.917
SMAD3	N/A	2.222	2.12	0.264	1.12	-0.744	-0.514	0.962	-0.767
trametere	N/A	0.44	N/A	N/A	0.407	0.409	0.389	0.449	0.449
allopurinol	N/A	0.44	N/A	N/A	1	1.265	1	1.32	0.707
gentamicin C	N/A	0.44	N/A	N/A	1	1.265	1	1.265	1.707
TNFRSF1A	N/A	N/A	N/A	N/A	0.625	0.946	1.103	0.951	1.044
BCLE	N/A	N/A	N/A	N/A	-1.067	-1.067	-1.067	-1.067	-1.387
FOXO1	N/A	0.529	0.376	-0.094	0.565	0.639	1.053	1.053	1.27
N-Ac-Leu-Neurofascin	N/A	-0.338	0.607	0.246	-1.087	-0.642	-1.273	-0.932	-0.604
genistein	N/A	0.431	1.923	0.047	-0.075	0.51	0.758	0.535	1.226
metnab	N/A	0.3172	N/A	N/A	-0.277	-1.456	-0.882	-1.4	-1.105

STAT5B	0.046	0.128	-0.659	-1.847	-0.267	0.906	-1.412	0.215
Vegf	N/A	N/A	N/A	-1.178	-2.398	N/A	N/A	-1.891
RET	1.103	N/A	1.406	1.406	0.218	0.254	1.534	0.943
Dehydroisoandrosterone	1.091	N/A	N/A	1.091	N/A	N/A	1.091	1.091
borizoximib	0.055	1.688	-0.437	0.913	0.39	0.146	-1.132	0.688
PLC32	N/A	N/A	N/A	-1.227	-1.227	-2.608	-2.608	N/A
sulfafas	-0.128	2.169	0.64	-0.478	-1.037	-0.152	0.342	0.497
GPER1	-1.439	N/A	2	0.832	0.41	0.518	N/A	1.213
enalapril	0.471	N/A	N/A	-1.438	-1.438	-0.194	N/A	-0.397
streptozocin	N/A	1.727	N/A	N/A	-0.666	N/A	-1.671	-1.298
PRMT1	1.154	N/A	1.969	1.154	0.537	N/A	0.537	N/A
BRG4	N/A	N/A	N/A	1.982	1.982	N/A	N/A	1.982
ss7	-1.956	N/A	N/A	-1.486	-1.486	0.437	N/A	-1.47
SIM1	N/A	N/A	N/A	1.342	N/A	2	2	N/A
ARR2	N/A	N/A	N/A	1.342	N/A	2	2	N/A
HIF1A	0.107	2.329	-0.365	0.095	-0.827	0.659	0.518	-0.439
ceftaxime	0.085	0.614	1.378	0.987	0.162	1.233	0.704	-0.161
PPARGC1A	1.153	-0.64	N/A	0.610	1.059	-0.17	N/A	1.876
GLP1	1.191	N/A	N/A	-0.969	-0.969	-2.2	-2.2	-1.18
KAT2A	1.114	N/A	N/A	1.114	1.673	N/A	1.41	-0.195
UGT2	-1.103	0	-1.103	-1.103	-0.625	N/A	-1.103	-0.254
UNT3A	1.191	N/A	0.201	N/A	1.256	N/A	1.91	N/A
Alpha catenin	N/A	N/A	N/A	-1.067	-1.451	N/A	-1.741	-0.97
Pdgf (complex)	0.714	0.499	N/A	1.082	N/A	N/A	0.796	2.173
h98	-0.686	N/A	N/A	-0.686	-0.686	N/A	-1.068	-1.715
let-7a-5p (and other miRNAs wiseed GAGGUAG)	-2.419	-2.231	N/A	N/A	0.556	N/A	N/A	-1.082
TP63	-1.406	1.436	N/A	-0.36	0.032	N/A	0.248	1.7
SCR (complex)	1.981	N/A	N/A	N/A	1.461	N/A	N/A	1.761
ethionine	N/A	N/A	N/A	1.134	1.414	1	0.816	0.816
SIRT1	0.707	N/A	1.342	0.745	-0.578	-1.732	-0.043	0
PRKAA1	1.342	0.496	0	0.816	1.381	N/A	N/A	0
AT1A	0.294	N/A	-0.311	-0.728	-0.792	N/A	0.555	-0.368
nu-96	N/A	N/A	N/A	-1	1	2	N/A	N/A
baclofen	-0.73	N/A	N/A	-0.653	-1.026	0	-0.649	-0.553
pyrimidine dithiocarbamate	N/A	N/A	N/A	-1.491	-1.154	N/A	-1.154	-1.154
CDKN1B	-0.618	N/A	-0.618	-0.312	-0.895	-0.994	-0.618	-0.848
IL13RA	N/A	N/A	N/A	N/A	-0.896	N/A	-1.862	N/A
vorinostat	-1.501	N/A	N/A	N/A	-2.4	N/A	-1.434	-1.07
CDPSS5	-0.707	-1.633	-0.816	-1.195	-1.026	N/A	-0.478	0
RAF-1	0.963	N/A	N/A	0.953	0.183	N/A	0.861	1.854
mR-20b-3p (and other miRNAs wiseed AGCACCA)	-1.501	-2.76	N/A	0	0.284	N/A	-0.218	-1.25
thapsigargin	N/A	1.567	N/A	-0.739	-1.252	N/A	N/A	-1.252
ERBB3	0.186	N/A	-1	-1.342	-0.186	-1.387	-0.707	0
glucocorticoid	1.118	N/A	0.817	1.387	0.721	N/A	0.721	0
progesterone	1.098	N/A	N/A	0.721	1.098	1.098	N/A	1.468
mR-16-5p (and other miRNAs wiseed AGCGACA)	N/A	-0.636	N/A	N/A	N/A	-0.52	-2.167	-1.847
RL4	0.455	N/A	N/A	-0.32	-0.52	0.717	0.717	-0.823
mR-1-3p (and other miRNAs wiseed GGAUAGU)	-1.406	N/A	N/A	-0.462	-0.765	N/A	-1.58	-0.052
IGF1R	0.257	2.183	N/A	-0.968	-0.588	N/A	-0.713	-0.084
EGF7	N/A	N/A	N/A	1.195	0.444	N/A	0.852	2.2
methoxsalate	-2.218	N/A	N/A	N/A	-1.134	N/A	-1.342	N/A
hexachlorobenzene	0.277	N/A	N/A	0.853	1.117	0.853	0.853	0.563
PTEN	0.021	0.171	-0.918	-0.869	-0.869	-0.918	-0.781	-0.48
DUSP1	-0.447	N/A	-1	-0.096	-0.456	-1.938	0.254	-0.456
thioacetamide	0.175	N/A	N/A	1.238	0.632	1	1.294	0.269
immunoglobulin	-1.571	-0.98	-0.156	-0.044	-0.19	0.619	-0.369	-0.497
CD44	-0.651	1	N/A	-1.311	-0.039	N/A	-0.651	-1.131
HRAS	0.669	0.525	0.071	0.501	0.492	-0.093	-0.303	1.877
CEBPA	0.021	1.842	0.931	-0.322	0.423	-0.154	0.342	0.562
NR1H4	N/A	N/A	N/A	1.699	N/A	1	N/A	1
IKBK3	N/A	N/A	N/A	-0.551	0.589	1.804	1.16	0.588
PI3K (complex)	0.541	1.696	0.541	0.048	-0.07	N/A	-0.392	1.195
RAF	-0.765	0.625	-0.836	-0.11	-0.486	-0.186	-0.457	-0.457
GAST	N/A	N/A	N/A	0.566	N/A	1.936	1.919	N/A
SMAD7	-1.958	-0.99	N/A	-0.439	-0.336	N/A	0.723	N/A
glycophorinagglutinin	N/A	N/A	N/A	1.071	1.412	1.412	1.568	N/A
FOXO4	-0.87	-0.412	-0.557	0.349	0.649	0	-0.2	1.334
FCGR2A	N/A	N/A	N/A	1.067	N/A	2.219	1.067	N/A
STAT2	N/A	N/A	N/A	0.566	0.646	2.172	0.328	0.646
YAP1	N/A	1.226	N/A	1.009	0.296	N/A	1.82	N/A
TEAD1	2.2	N/A	N/A	N/A	1.964	N/A	N/A	-0.179
ERF type 1	N/A	N/A	N/A	1.949	N/A	2.391	N/A	N/A
diglitzone	-0.581	1.958	-0.289	-0.533	-0.263	0.034	-0.263	-0.411
CALCA	0	N/A	0.447	-0.816	-0.816	-0.447	-0.447	-1.342
methylprednisolone	0.937	1.123	0.254	-2.44	0.566	0.263	0.566	-0.328
ascorbic acid	0.447	N/A	1	0.218	0.943	N/A	N/A	1.647
GKI	N/A	N/A	N/A	-0.713	-1.342	N/A	-0.243	-1.974
growth hormone	N/A	N/A	N/A	1.181	1.459	N/A	0.422	1.161
peroxymethyl aminonucleoside	-0.61	N/A	0.2	0.845	1.073	0.063	0.845	0.3
UCHL1	N/A	N/A	-0.83	-0.297	-0.83	-1.96	N/A	-0.321
growth hormone	N/A	N/A	N/A	1.181	1.459	N/A	0.422	1.161
RN3	N/A	N/A	N/A	0.64	1.109	2.236	N/A	0.4
MARK9	N/A	-0.619	0.762	0.64	1.109	2.236	N/A	0.4
epoxomicin	N/A	N/A	0.353	1.412	0.674	N/A	1.412	0.353
TFAP2A	N/A	N/A	N/A	1.937	N/A	0.014	1.067	1.192
MAPK14	0.651	N/A	N/A	1.194	0.014	1.222	0.666	0.443
MAVS	N/A	N/A	N/A	N/A	1.98	2.2	N/A	N/A
mR-338-3p (miRNAs wiseed CCAGCAU)	-2.364	2	N/A	N/A	N/A	N/A	N/A	N/A
h11	-1.964	2.183	N/A	N/A	N/A	N/A	N/A	N/A
COL18A1	-0.762	N/A	N/A	-0.762	0.057	-1.461	-0.334	-0.762
EGR1	-0.447	1.961	1	-0.083	0.128	0.264	0.264	0.254
patatinin C	N/A	2.172	N/A	N/A	-0.968	N/A	N/A	N/A
LUSP18	N/A	N/A	N/A	-1.067	N/A	-1.982	-1.067	N/A
mir-29	-1.96	-1.192	N/A	2.168	0.88	N/A	1.934	0.08
PLG	N/A	N/A	N/A	2.168	0.88	N/A	1.934	0.08
DGT	-0.577	1.214	N/A	0.447	-0.447	N/A	0.816	0.6
mR-199a-5p (and other miRNAs wiseed CCAGUGU)	-1.387	N/A	N/A	-1.172	-1.387	N/A	0.152	N/A
SOX11	N/A	N/A	N/A	-1.694	-1.067	-1.342	N/A	N/A
CYP19A1	N/A	N/A	N/A	N/A	1.029	N/A	1.981	1.029
mR-21-5p (and other miRNAs wiseed AGCUUUA)	-1.967	-1.095	N/A	N/A	N/A	N/A	-0.964	N/A
BDNF	0.351	N/A	N/A	-0.158	0.158	0.053	1.318	0.522
TSC2	0.216	-1.091	N/A	0.426	0.384	0	-0.713	1.195
CRP	N/A	N/A	N/A	N/A	2	N/A	2	N/A
PS-1145	N/A	N/A	N/A	N/A	2	N/A	2	N/A
S100A9	N/A	N/A	N/A	N/A	2	N/A	2	N/A
NOTCH1	0.862	N/A	N/A	0.681	0.358	N/A	1	0.959
pentoxifylline	N/A	N/A	N/A	0.545	-0.096	-0.329	1.04	N/A
dimethyl itaconate	0.416	-0.487	-0.368	-0.54	-1.982	N/A	-1.982	0.702
PDLIM2	N/A	N/A	N/A	-1.387	-1.387	-0.128	-1.067	N/A
PCZF3	N/A	N/A	N/A	-1.982	N/A	-1.982	N/A	N/A
PTGS2	1.131	N/A	N/A	0.492	N/A	1.131	0.808	0.6
RARA	0.447	-1	N/A	-0.632	-0.302	-1.269	0	-0.302
SHC1	0.271	N/A	1.009	-0.821	-0.961	-0.106	0.465	0.811
TP73	N/A	1.227	N/A	0.566	-0.978	-0.808	-0.228	-0.105
NS-398	N/A	N/A	N/A	-1.968	N/A	N/A	-1.968	N/A
RF2	0.728	N/A	N/A	0.728	1.41	0.277	0.277	0.522

GW3965	N/A	N/A	N/A	N/A	-1.964	N/A	-1.964	N/A	N/A	N/A	0.281
ADIPOQ		-0.82	N/A	-0.82	-1.184	N/A	0.447	-0.82	1		
PLT1		1	-0.447	N/A	N/A	0.447	0		1		
PTPN6	N/A	N/A	N/A	N/A	-1.091	-1.091	N/A		-0.6	-1.091	
GHI		-0.447	N/A	N/A	-0.447	-1.633	N/A	-1.342	N/A		
PTPAA1		0	0.915	N/A	1.253	-0.808	N/A	-0.492	-0.391		
CDKMTA		0.138	0.13	0.085	1.197	-0.488	0.543	0.648	0.632		
arsenite	N/A	N/A	2.141	N/A	N/A	0.6	N/A	1.051	N/A		
nr-8		-0.975	-0.273	-0.598	-0.241	0.215	-0.598	-0.681	0.222		
tosimane		0.447	N/A	N/A	0.707	N/A	1.294	1.285	0.378		
CIITA	N/A	N/A	N/A	N/A	1.241	N/A		1.264	N/A		
FGFR1		0.447	N/A	N/A	1.348	N/A	N/A	N/A	2.421		
nosine	N/A	0.447	N/A	N/A	0	1.216	N/A	1.093	N/A		
ILR2	N/A	N/A	-0.762	N/A	N/A	0	1.688	N/A	0.548	0.749	
MKNK1		1.134	N/A	N/A	-0.447	0.707	N/A	0.447	-0.7		
IFAK	N/A	N/A	N/A	N/A	N/A	0.625	N/A	0.243	1.103		
ADRB		0.781	-1.172	N/A	-0.13	0.87	0.283	0.2	0.115		
SMARCA5	N/A	N/A	-2	N/A	-0.6	N/A	N/A	-1.091	N/A		
JAG1	N/A	N/A	1.446	N/A	0.686	N/A	2.206	N/A	N/A		
C22c2		0.555	N/A	0.686	-0.391	1.339	N/A	N/A	0.714		
KLF11		-0.686	N/A	N/A	-1.719	-0.152	N/A	N/A	-1.067		
IL33		0.585	N/A	0.585	0.585	0.106	0.585	0.585	0.585		
RAS	N/A	N/A	N/A	1.202	1.117	N/A	0.305	N/A	0.978		
IRF5	N/A	N/A	N/A	N/A	0.692	N/A	2.213	0.692	N/A		
EGFR		-0.459	0.028	-1.226	0.178	-0.036	0.217	1.051	0.401		
IFIT1		0.277	0.661	N/A	0.44	N/A	0.882	0.882	0.444		
FAS		-0.459	0.200	-0.389	-0.093	-0.959	0.134	0.275	-0.272		
Collagen type 1 (complex)	N/A	N/A	N/A	N/A	1.982	-0.147	N/A	N/A	1.432		
IGFBP2		N/A	N/A	N/A	N/A	0.317	N/A	0.277	N/A		
pyrocholic acid		-0.478	N/A	1	-0.152	-0.152	-0.896	-0.152	0.238	-0.478	
PRDM1		0.781	N/A	1	0.152	-0.373	N/A	-0.719	0.345	-0.835	
COL5A1		-1.067	N/A	N/A	-0.896	-0.088	-1.447	N/A	-1		
lansomycin		-1.068	N/A	N/A	-0.896	-0.088	0.113	-0.788	0.075	0.47	
NORAD		1.342	N/A	2	N/A	-0.152	N/A	N/A	N/A		
STAT3		-0.468	-0.418	0.563	-0.171	-0.416	0.679	-0.539	-0.398	-0.103	
ERK1/2		0.114	0.114	0.114	0.114	-0.736	-0.82	-0.366	-0.611		
salolol		0.057	1.408	0.44	0.458	-0.247	0.479	-0.307	-0.307	-0.038	
2-bromoethylamine		0.447	N/A	N/A	0.378	1	N/A	1.265	0.378		
Collagen type IV		0	N/A	N/A	1.982	N/A	0.447	N/A	N/A	1.458	
casomium	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.458	
FOXO3		-0.033	-0.528	N/A	-0.38	0.015	1.226	0.443	-0.138	0.677	
KLF2		0.075	-0.596	N/A	0.687	0.482	1.118	0.088	0.82	0.258	
neostigmine		-0.033	1.82	0.687	0.011	0.163	0.33	0.53	-0.091	-0.251	
PPARA		-1.079	N/A	N/A	0.25	-0.976	-0.379	N/A	-0.606	-0.128	
bunamycin	N/A	N/A	1.281	N/A	N/A	N/A	-1.944	-0.192	N/A	N/A	
CAT45	N/A	1.446	1.989	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
vitamin E	N/A	N/A	N/A	N/A	N/A	N/A	-1.408	N/A	N/A	N/A	
E2F3		0.447	N/A	N/A	N/A	0.816	N/A	N/A	1.134	1	
VIP		0.849	N/A	0.849	-0.357	1.508	0.849	-0.357	0.964	0.056	
ATG7		N/A	-0.728	N/A	0.849	-0.728	-1.406	N/A	-1.948	N/A	
SOX4		N/A	N/A	N/A	N/A	-1.406	N/A	-1.948	N/A	N/A	
CDKN2A		-0.228	1.064	N/A	0.108	-0.882	N/A	-0.25	0.877	0.313	
4-hydroxylamoxifen		0.027	2.185	N/A	0.332	0.027	-0.081	0.332	-0.081	0.863	
BMP10	N/A	N/A	N/A	N/A	N/A	-1	0.2	0	-1.342	N/A	
KLF5		1.922	N/A	N/A	N/A	1.412	N/A	N/A	N/A	N/A	
ELK2		1.941	-0.842	N/A	N/A	N/A	1.508	0.52	N/A	N/A	
enaldomide	N/A	N/A	N/A	-0.651	1.408	N/A	N/A	1.109	N/A	0.13	
6-hydroxydopamine	N/A	N/A	N/A	N/A	N/A	1.109	N/A	2.164	N/A	N/A	
HDXA10		0	N/A	N/A	0.447	N/A	0.15	N/A	0.816	0.42	
MADK1	N/A	N/A	N/A	N/A	1.601	N/A	-0.662	N/A	2.238	1.172	
APC		-0.339	N/A	N/A	N/A	-0.662	N/A	-1	-1	-1.214	
nr-1	N/A	N/A	N/A	N/A	N/A	-1.067	N/A	-2.178	N/A	N/A	
IFIT1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FGF8		1.941	N/A	N/A	N/A	1.292	N/A	N/A	N/A	N/A	
HSF1	N/A	N/A	0.415	N/A	1.192	-0.074	0.585	N/A	N/A	N/A	
L-glutamic acid	N/A	N/A	N/A	N/A	1.164	-0.239	N/A	0.708	N/A	1.154	
BMP4		0.895	1.985	N/A	N/A	0.34	N/A	N/A	N/A	N/A	
ZBTB16		0	-1.981	0.152	N/A	0.152	-0.927	N/A	N/A	N/A	
Bay 11-7082	N/A	N/A	N/A	-1.067	N/A	-1.067	N/A	N/A	N/A	-1.067	
nr-158	N/A	-0.13	N/A	N/A	-0.13	-0.798	-0.933	-0.485	-0.577		
GAPDH	N/A	N/A	N/A	N/A	0	-0.816	-1.915	0	-0.447		
RAC1	N/A	N/A	N/A	N/A	1.939	0.344	N/A	0.894	N/A	N/A	
nitrochloridbenzodiox		0.484	-0.512	N/A	N/A	1.317	-0.048	N/A	0.964	0.718	
nr-17-sp (and other mRNAs wiseed AAAGUGC)		-1.928	N/A	N/A	N/A	-1.231	N/A	N/A	N/A	N/A	
levodopa		-0.426	0.378	N/A	0.777	0.612	N/A	-0.169	0.777	-0.426	
herbimycin		-1	N/A	N/A	-0.686	N/A	N/A	N/A	N/A	-1.067	
GSTO1	N/A	N/A	1.131	N/A	N/A	N/A	N/A	-2	N/A	N/A	
STING1	N/A	N/A	N/A	N/A	1.179	N/A	1.944	N/A	N/A	N/A	
SF3		1.091	N/A	N/A	N/A	0.865	N/A	N/A	1.159	1.550	
INF4A		-0.102	N/A	0.508	-1.127	-0.708	0	-0.338	0.333	0.333	
APOE		0	N/A	-1	-0.128	-0.239	-1.387	-0.342	N/A	N/A	
IL10	N/A	N/A	1.997	N/A	N/A	0.072	N/A	N/A	N/A	0.802	
ilfataxin B1	N/A	N/A	2.236	N/A	N/A	N/A	N/A	N/A	N/A	1.166	
teneldine	N/A	N/A	N/A	N/A	N/A	-1.109	-1.941	N/A	N/A	N/A	
ANGP12		N/A	N/A	N/A	-0.223	-0.156	N/A	1.951	0.714	0.714	
ETV5		-1	N/A	N/A	0.272	-0.426	N/A	-0.62	0.816	0.816	
PAX6	N/A	N/A	N/A	N/A	N/A	-1.206	N/A	-0.9	-0.911	1.067	
KDMA5	N/A	N/A	N/A	N/A	1.387	0.555	N/A	N/A	N/A	N/A	
SABF2	N/A	N/A	N/A	N/A	-1	-1	N/A	N/A	N/A	N/A	
SABF	N/A	N/A	N/A	N/A	-1	-1	N/A	N/A	N/A	N/A	
IFNGR1	N/A	N/A	N/A	N/A	1	N/A	N/A	1	1	1	
disody/maleimide 1		-0.692	N/A	N/A	-0.218	-0.294	N/A	-1.067	-0.692	-0.692	
IL17A		0.768	0	0.768	-0.035	-0.174	0.398	-0.378	0.372	0.372	
Carbon monoxide	N/A	N/A	N/A	N/A	-0.9	-1.109	N/A	-0.9	N/A	N/A	
SRP		N/A	0.81	N/A	1.122	-0.094	N/A	-1.067	N/A	N/A	
uranyl nitrate		-0.97	N/A	N/A	0.784	0.218	N/A	0.114	0.114	0.762	
butyric acid		-0.621	-0.561	-0.105	-0.255	-0.375	0	-0.819	-0.108	-0.108	
TWIST1		0.218	-0.277	N/A	0.218	-0.678	N/A	-0.446	-0.446	-0.446	
CDX1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.832	
cleoteycin		0.246	N/A	N/A	1.308	0.507	N/A	N/A	1	0.742	
HDAC2		1	-0.975	N/A	0.447	N/A	N/A	N/A	-0.377	-0.377	
HAC		-0.083	0.573	0.657	-0.363	-0.282	0.293	0.315	0.243	0.243	
RCS2		0	N/A	N/A	-0.447	-0.447	N/A	-1	-1	-1.342	
VHL		0.359	-0.604	0.577	0.45	0.514	N/A	0.203	-0.955	-0.955	
PTH		N/A	N/A	N/A	N/A	-0.786	-1.206	N/A	-1.154	-0.798	
SMAD2	N/A	N/A	N/A	N/A	N/A	-1.109	N/A	N/A	-1.154	-0.452	
TGFBR2	N/A	N/A	0.186	-0.594	N/A	0.543	N/A	0.371	1.044	1.044	
MKR		1	N/A	N/A	1	0.728	N/A	N/A	N/A	N/A	
nosine		1.239	N/A	N/A	N/A	1.458	N/A	N/A	N/A	N/A	
CDK19		N/A	-2.646	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
isopropylphosphoric acid		N/A	N/A	N/A	1.898	0.748	N/A	N/A	N/A	N/A	
IRF8		N/A	0.254	N/A	-0.18	-0.579	N/A	-0.898	-0.73	-0.73	
caffeic acid phenethyl ester		-0.927	N/A	0.132	-0.351	-0.715	N/A	-0.351	0.132	0.132	
cobalt chloride		N/A	2.2	N/A	N/A	-0.132	N/A	-0.132	-0.132	-0.132	
RBI		N/A	-1	N/A	N/A	-0.243	N/A	0.277	-0.069	-0.069	
N-methyl-L-arginine methyl ester		N/A	-1.067	N/A	1.521	N/A	N/A	N/A	N/A	N/A	

Table S4 Antibody information

Antibody	Dilution	Company	Clone
anti-Nestin	1:100	Invitrogen (Human Neural Stem Cell Immunocytochemistry Kit, A24354)	N/A
anti-PAX6	1:100	Invitrogen (Human Neural Stem Cell Immunocytochemistry Kit, A24354)	N/A
anti-SOX1	1:100	Invitrogen (Human Neural Stem Cell Immunocytochemistry Kit, A24354)	N/A
anti-SOX2	1:100	Invitrogen (Human Neural Stem Cell Immunocytochemistry Kit, A24354)	N/A
anti- β -tubulin III	1:250	Biolegend (801201)	TUJ1
anti-MAP2	1:100	Santa Cruz (sc-74421)	A-4
anti-IL17R	1:50	Santa Cruz (sc-376374)	G-9
anti-TNF-R1	1:100	Santa Cruz (sc-8436)	H-5
AF 488 anti NF-H (SMI32)	1:250	Biolegend (801706)	SMI 32
AF 594 anti NF-H (SMI31)	1:200	Biolegend (801610)	SMI 31
AF 647 anti NF-L	1:200	Biolegend (845908)	NFL3
anti-AQP4	1:100	Elabscience (E-AB-64864)	Polyclonal
anti-GFAP	1:250	Agilent (GA52461-2)	Polyclonal
Goat anti-Rabbit Alexa fluor 488	1:1000	Invitrogen (A-11008)	Polyclonal
Goat anti-Mouse Alexa fluor 488	1:1000	Invitrogen (A-11001)	Polyclonal
Goat anti-Rabbit Alexa fluor 594	1:1000	Invitrogen (A-11012)	Polyclonal
Goat anti-Mouse Alexa fluor 594	1:1000	Invitrogen (A-11005)	Polyclonal