Values represent mast cell genes upregulated by at least 10% by FceRI stimulation that were inhibited >20% by Inos (sorted most inhibited to least inhibited in column D)

Gene_symbol	% Increase (-) to (+)	% Inhibition by Inositol
LECT1	10245%	99.08%
PTBP2	1538.29%	98.69%
ABCG5	4480.00%	97.39%
NIT1	1913.64%	95.15%
VILL	84.13%	88.13%
MARVELD3	270.87%	84.86%
CFHR5	34.99%	76.92%
MIER3	213.03%	72.22%
IDH3B	40.70%	69.26%
LMX1B	35.18%	67.49%
XYLT2	38.93%	65.09%
ANTXRL	43.68%	64.64%
KYNU	74.87%	64.52%
FAM22	29.86%	62.28%
C12orf52	36.53%	62.04%
CA7	42.42%	60.63%
CHST1	33.91%	59.95%
C20orf144,C20orf134	66.44%	59.92%
MBLAC1	359.97%	59.87%
CDCA3	83.10%	59.76%
OTUB1	62.69%	59.22%
EIF1AD	30.98%	58.92%
GNB2	29.14%	58.46%
EIF6	17.89%	58.35%
RP5-981O7.3	473.55%	58.35%
VASH1	97.42%	58.22%
RAD51L1	92.07%	58.17%
C3orf62	41.37%	58.07%
SEPN1	20.10%	57.79%
PHLDA1	35.31%	57.77%
ADAD2	14.51%	57.47%
SMOC2	18.70%	57.19%
AC098823.3	67.54%	57.10%
RP11-318K12.3	10.62%	56.91%
ASTN1	45.29%	56.41%
PARP15	27.69%	55.63%
RP11-191L9.4	29.43%	55.51%
ANKRD39,ANKRD23	61.60%	55.38%
POU3F3	73.70%	55.28%
FAT3	68.38%	55.27%
C20orf102	20.76%	55.27%
FGL2	6499.13%	54.84%
RHO	92.42%	54.78%
NOG	78.26%	54.62%

PLA2G16	34.38%	54.56%
GNG4	62.55%	54.53%
RP13-143G15.3	78.91%	54.53%
FAM177B	41.68%	54.29%
EFHD1	19.83%	53.96%
TCF4	67.42%	53.95%
AC092296.2-1	48.21%	53.85%
GPRC5C	34.63%	53.85%
IFI6	55.53%	53.77%
AC146944.1-4,AC146944.1-5,)	25.81%	53.64%
TMEM161A	33.21%	53.48%
EIF2B5,FAM131A	165.68%	53.47%
C9orf110	64.61%	53.00%
MAFA	31.22%	52.94%
RIPPLY1	16.62%	52.85%
FGF22	18.24%	52.73%
AC006158.8	50.22%	52.71%
TRAF6	204.92%	52.67%
MYBPC2,SPIB	10.13%	52.27%
AC116353.7	20.07%	52.24%
AC135457.2-3	54.47%	52.22%
KREMEN1	25.36%	51.87%
PLAGL1	330.46%	51.77%
EIF4EBP2	99.24%	51.72%
CPB1	45.44%	51.71%
TNFRSF14	67.26%	51.70%
C7orf47	32.34%	51.68%
CYP27C1	135.47%	51.64%
COQ7	38.84%	51.60%
AJAP1	39.30%	51.52%
GFRA4	32.56%	51.50%
AC073479.1	186.02%	51.41%
DPM3	10.38%	51.28%
LSS,AP001468.1	16.76%	50.97%
AC138028.1-3	37.18%	50.78%
OR1J2	64.87%	50.75%
ATP1A4	51.41%	50.65%
PAPPA	359.84%	50.63%
MAF	16.55%	50.46%
AMPD2	67.64%	50.45%
LRRC51	140.25%	50.37%
NKG7	40.70%	50.36%
USE1	24.11%	50.24%
TNRC6B	21.65%	50.24%
CALML3	27.07%	50.18%
ABCB11	32.38%	50.12%
ETS1	25.62%	50.10%

AIRE	16.72%	49.96%
C21orf32	41.64%	49.76%
SEMA6B	13.67%	49.75%
CD74	142.80%	49.66%
TMPRSS5	12.81%	49.49%
TPRXL	71.05%	49.45%
SRP_euk_arch	45.86%	49.23%
ZNF33A	68.67%	49.22%
FAM89B	32.49%	48.99%
ETV4	16.32%	48.97%
MYL2	22.55%	48.94%
C17orf56	11.78%	48.86%
SAE1	50.38%	48.68%
C8orf8	41.68%	48.59%
RXRG	40.39%	48.55%
GDPD5	35.31%	48.54%
RNF8	25.52%	48.44%
NUBP2	20.93%	48.35%
FAM168A	62.99%	48.11%
PPP2R2D	30.02%	47.86%
C7orf65	62.10%	47.73%
VIPR2	22.44%	47.58%
PCDH9	50.72%	47.55%
CDH10	16.23%	47.53%
MARCH11	33.01%	47.46%
CCDC104	46.24%	47.43%
SLC6A9	30.51%	47.40%
SBNO2	31.31%	47.23%
MIDN	49.82%	47.20%
MRPL43	56.39%	47.17%
HS6ST1	94.07%	47.16%
ABTB1	14.31%	47.05%
CYCS	242.16%	46.89%
C5orf50	35.47%	46.82%
RP3-487J7.2	15.55%	46.74%
NEURL1B	32.06%	46.69%
C15orf26	51.30%	46.67%
SULT1A4,SULT1A3	23.58%	46.48%
CECR6	25.49%	46.47%
RPL10	36.69%	46.30%
STAU1	62.34%	46.29%
PPAPDC1A	41.20%	46.23%
AGXT2L2	15.41%	46.09%
AC008060.7	39.19%	46.06%
KRTAP19-6	55.04%	46.05%
PRKCB	79.03%	45.90%
CLU	39.90%	45.80%

HSD11B2	26.67%	45.44%
SLC8A1	89.40%	45.13%
C22orf13	18.45%	45.05%
AP000354.4	49.26%	44.87%
CPNE7	13.59%	44.79%
IQCA	19.76%	44.79%
UTP23	18.42%	44.72%
NTF3	15.58%	44.61%
UBE2C	27.93%	44.53%
RAB5C	29.92%	44.40%
TNFSF14	1125.00%	44.39%
CLC	80.17%	44.23%
C1orf143	177.35%	44.22%
THSD4	21.01%	44.18%
MOBP	32.53%	44.16%
SLIT1	27.55%	44.12%
CTD-2330K9.3	47.14%	44.08%
SLC46A3	585.71%	44.05%
SYNPO	20.17%	44.00%
LRRC40	36.19%	43.88%
CLIC1,CLIC1,CLIC1,CLIC1,CLIC1	25.62%	43.76%
PIK3R3	62.54%	43.73%
KRTAP20-2	67.04%	43.68%
AC105345.3	91.52%	43.61%
DPM2	73.59%	43.61%
GPR37L1	46.15%	43.61%
ZFAND2A	36.18%	43.56%
AC084018.1	72.53%	43.38%
RPUSD1	53.63%	43.36%
LRRC56	32.15%	43.31%
TSSK3	12.34%	43.28%
SPRED3	20.52%	43.22%
MURC	81.85%	43.21%
PPARGC1B	18.39%	43.11%
YSK4	74.96%	43.03%
HP,AC009087.4-2	17.83%	42.99%
RP11-343J24.1	108.98%	42.69%
IDO1	36.59%	42.65%
EPHB4	30.18%	42.59%
NAT8	161.43%	42.54%
ARTS-1	19.17%	42.52%
DLG1	45.95%	42.52%
SLC4A2	31.63%	42.49%
KIF2A	195.88%	42.39%
RP1-212P9.2	10.04%	42.33%
LILRB3	25.55%	42.28%
KREMEN2	37.37%	42.10%

CYP4F3LP,AC140481.7,AC132	45.34%	42.09%
SP140L	46.87%	42.02%
TMEM30A,COX7A2	24.85%	41.99%
SIGLECP16	47.57%	41.96%
PNCK	85.10%	41.91%
ANKRD45	133.16%	41.88%
KRTAP3-3	34.80%	41.83%
ADRA1B	117.59%	41.62%
TBX20	47.30%	41.55%
KLK10	76.71%	41.55%
GLUDP2	68.24%	41.54%
HS3ST1	52.04%	41.50%
PDIA3P,PDIA3	14.75%	41.36%
NDUFV1	16.57%	41.36%
C20orf91	11.93%	41.22%
KIAA1467	78.86%	41.19%
AFG3L1	55.17%	41.17%
TNRC6C	16.02%	41.12%
ATP7B	54.89%	41.05%
RAB36	62.31%	40.98%
UBE2J2	33.89%	40.96%
IRX4	1767.86%	40.92%
AC025449.6-1	48.79%	40.84%
WBSCR17	16.59%	40.82%
RUNX1	11.65%	40.77%
RAD54L	41.66%	40.73%
ADAMTS4	103.68%	40.73%
NLGN4Y	125.23%	40.60%
ZNF587	155.56%	40.58%
AMAC1,POLR2A,AMAC1L3	34.30%	40.51%
NEK6	113.93%	40.45%
FBXL18	61.09%	40.38%
SLC38A10	19.51%	40.34%
CFH	307.64%	40.26%
HS6ST3	37.89%	40.24%
RPL3	42.63%	40.24%
PAQR5	497.59%	40.20%
AC010536.8-2	34.93%	40.19%
SMCY	38.54%	40.14%
NDUFA4	70.48%	40.06%
HIC1	34.51%	39.97%
KBTBD3	68.43%	39.95%
A4GNT	19.32%	39.84%
TNFAIP1	196.99%	39.67%
ART3	20.56%	39.64%
UPF2	62.19%	39.63%
HNRNPAB	57.60%	39.36%

ANKRD18B	19.25%	39.32%
AC093323.3	69.74%	39.32%
OR10J8P	25.51%	39.30%
CTNND2	13.59%	39.23%
PSMB2	155.99%	39.10%
EDEM2	39.01%	39.10%
DNASE1	47.80%	39.05%
AGXT2L2	65.83%	39.03%
GPR26	27.50%	38.98%
NEUROG2	64.12%	38.91%
GPR172A	40.17%	38.75%
IL17B	23.51%	38.73%
SSTR5	63.31%	38.67%
CCNJ	46.57%	38.59%
ZNF497	33.48%	38.54%
PLA2G2C	31.22%	38.53%
CLTA	23.35%	38.52%
GNA15	10.27%	38.48%
BCR	22.86%	38.41%
UBXN6	69.04%	38.40%
PXN	29.11%	38.38%
UPB1	167.67%	38.37%
GPR62	22.30%	38.37%
THRB,AC112217.2	22.00%	38.31%
ARF1	28.31%	38.27%
C1orf106	213.44%	38.25%
SFN	47.69%	38.24%
HSD17B2	51.03%	38.16%
AC136632.3-2	10.30%	38.13%
KIAA0319	46.11%	38.10%
ULBP3	10.28%	38.07%
C1orf63	37.76%	37.99%
FOXA2	69.27%	37.95%
DSCR4	53.02%	37.94%
CYP2R1	18.87%	37.86%
CDADC1	36.55%	37.81%
GLB1,TMPPE	327.70%	37.72%
ARGLU1	122.90%	37.70%
RP11-178A10.1	116.53%	37.62%
SC4MOL	211.86%	37.56%
C11orf42	53.52%	37.56%
NPBWR2	62.66%	37.48%
NGFRAP1	35.76%	37.47%
FRMD3	58.04%	37.46%
CCRL2	22.29%	37.45%
CLEC4F	49.12%	37.39%
PHF19	62.46%	37.37%

AC006328.8	24.87%	37.36%
PPFIBP1	24.72%	37.31%
TMEM99	126.74%	37.30%
EFTUD2	30.32%	37.27%
BRD1	45.08%	37.18%
VTI1A	88.96%	37.18%
AC007750.5	93.52%	37.15%
TRA2A	247.37%	37.05%
OBSCN	53.85%	36.94%
MRPS21	10.04%	36.88%
SVIL	26.05%	36.85%
CGN	40.21%	36.84%
LIPH	34.27%	36.83%
MAP1LC3A	58.58%	36.70%
GPR176	65.83%	36.68%
SLC10A3	91.89%	36.68%
THOC4	78.89%	36.65%
ELOVL5	477.24%	36.63%
FCGBP	17.53%	36.60%
RP11-122G18.5	12.85%	36.56%
CALU	476.10%	36.50%
CADM4	22.81%	36.48%
GPHA2	40.53%	36.24%
ADCY6	37.95%	36.20%
MYO5B	26.98%	36.15%
PHLDB3	40.72%	36.14%
GOT1	87.86%	36.08%
C21orf105	60.06%	36.01%
SERTAD1	40.60%	35.96%
OR3A3	62.55%	35.87%
IMPDH2	22.91%	35.82%
C20orf58	22.62%	35.75%
GPR19	114.22%	35.70%
VPS4A	15.48%	35.68%
COX6B1	39.27%	35.57%
TCTEX1D1	193.70%	35.55%
NCKIPSD	20.34%	35.49%
PRAMEF1	168.00%	35.45%
NUPL1	843.58%	35.42%
MMP24	56.10%	35.41%
C17orf65	48.03%	35.39%
RP11-332P22.1	173.00%	35.38%
PDCD4	144.41%	35.34%
CWF19L2	58.81%	35.28%
RP11-4C20.3	51.45%	35.25%
LELP1	38.03%	35.24%
MFF	115.35%	35.23%

MEX3D	24.45%	35.19%
C15orf27	11.64%	35.09%
ACCN4	10.33%	35.08%
PADI1	53.84%	35.00%
FGF11	91.54%	34.98%
NRARP	2171.84%	34.96%
TCERG1L	100.80%	34.93%
ERCC6	129.30%	34.92%
ANKRD58	55.90%	34.89%
ZBP1	19.13%	34.89%
RP11-307L3.2,AC069236.27	162.49%	34.79%
DPT	15.74%	34.79%
LMTK3	22.51%	34.72%
NFKB	12.18%	34.72%
ZER1	30.26%	34.66%
DNM1P33,DNM1P24	43.94%	34.62%
C20orf3	62.19%	34.57%
PLK2	78.86%	34.48%
MAN2B2	11.38%	34.36%
NAV2	59.25%	34.27%
HLA-DRB1,HLA-DRB1,HLA-DRE	13.09%	34.24%
FA2H	32.76%	34.22%
AC020922.9	121.38%	34.17%
AP000344.1	14.34%	34.06%
CALN1	116.87%	34.01%
COL17A1	101.67%	33.98%
ADAM10	116.41%	33.96%
PXDN	151.01%	33.96%
ACTBL2,PLEKHB2,POTEE,A26C	112.99%	33.90%
C19orf36	15.92%	33.88%
SLC25A2	10.50%	33.86%
KLHL20	78.09%	33.84%
PRKAR1B	66.87%	33.80%
DMRT3	10.45%	33.74%
RPS27L	72.67%	33.71%
SFRS9	35.36%	33.71%
ZNF806,ZNF285B	56.24%	33.50%
CLSPN	15.99%	33.48%
C14orf142	457.74%	33.46%
NRF1	61.56%	33.44%
DUSP18	60.12%	33.38%
CCDC46	92.01%	33.28%
SLC16A11	60.86%	33.08%
PLEC1	24.56%	33.05%
DCTN5	112.18%	33.04%
PRSS36	334.82%	32.97%
C2orf27,CR382287.7-1,RP11-7	35.98%	32.86%

C21orf74	31.13%	32.85%
TBC1D2B	33.68%	32.79%
ILDR1	89.25%	32.74%
IREB2	366.37%	32.72%
CPT1C	34.95%	32.70%
COL5A1	41.61%	32.69%
RP11-107I14.1	36.33%	32.63%
ADAMTS16	65.26%	32.61%
WDR68,KCNH6	52.36%	32.60%
MCRS1	47.02%	32.41%
CAMK1	15.02%	32.39%
L1CAM	19.78%	32.09%
ALG5	33.91%	31.98%
AC105233.12-3,AF228730.8-1	50.13%	31.97%
CD82	82.51%	31.87%
SLC8A2	27.01%	31.85%
AC004836.2	34.75%	31.78%
KLRG1	253.40%	31.75%
SIM2	28.08%	31.70%
AC093162.3,SNRPE	179.29%	31.69%
NRL	25.83%	31.68%
AHSA2	21.48%	31.68%
AC145098.2-2	13.21%	31.66%
CLDN14	66.59%	31.64%
GRID1	287.58%	31.60%
PRDM7	13.44%	31.58%
GATAD2A	176.25%	31.54%
FBRSL1	46.94%	31.51%
RGS10	24.06%	31.47%
NKX2-1	26.65%	31.44%
SNIP1	117.59%	31.40%
MFRP	87.05%	31.36%
WDFY2	61.34%	31.32%
FPR1	21.41%	31.30%
DNAH2	71.62%	31.27%
C1orf89	106.10%	31.25%
FARSA	33.12%	31.22%
TAX1BP3	25.02%	31.19%
PITPNM2	276.70%	31.07%
RP4-758J18.6	44.24%	31.07%
RP11-216L13.14,LCN8	13.74%	31.01%
MTMR15	133.72%	31.01%
CFLP2,CFL1	18.00%	30.99%
RBPSUH	41.96%	30.98%
IL2	70.76%	30.90%
AC006050.3,AC006050.2	57.97%	30.80%
AC015849.2	53.75%	30.80%

TOMM40	27.51%	30.79%
ABCC13	49.59%	30.75%
TRIB3	106.60%	30.75%
FMO1	18.48%	30.74%
PGAM5	61.61%	30.73%
AOX1	82.24%	30.72%
AC084398.25-1	73.33%	30.71%
HTR6	52.62%	30.70%
RP1-43E13.2	283.39%	30.68%
GABRA4	51.98%	30.65%
C8orf13	87.08%	30.65%
ACSM1	13.75%	30.60%
C12orf72	45.18%	30.49%
RP1-66N13.3	76.26%	30.47%
TSPAN31	66.50%	30.44%
AL139020.5	54.88%	30.39%
UBB	65.68%	30.37%
FAM18B2	54.70%	30.36%
OTUD7A	69.27%	30.25%
MYH9	48.06%	30.21%
ZNF598	69.58%	30.19%
DEFB126	34.24%	30.19%
NANOS1	183.42%	30.18%
CAMKV	58.49%	30.17%
CYP4F12	35.92%	30.16%
IGSF11	10.32%	30.15%
SLIT3	30.52%	30.06%
MSRB2	44.24%	29.99%
ANK3	29.46%	29.97%
BFSP2	20.25%	29.94%
HM13	242.86%	29.91%
HIRA	12.69%	29.86%
NELL2	207.56%	29.71%
CCNI	161.64%	29.70%
PUS7	112.11%	29.60%
ABLIM2	24.55%	29.59%
TMEM179	117.42%	29.51%
SLC35E4	66.33%	29.48%
GRIFIN	85.53%	29.46%
SCN8A	83.92%	29.40%
CSDC2	35.01%	29.36%
C9orf127	21.76%	29.17%
FAM45B,FAM45A	83.31%	29.16%
GPR110	51.33%	29.16%
ZNF621	26.02%	29.15%
LGR6	75.62%	29.11%
DNAJC6	58.53%	29.06%

TRIM58	38.19%	29.03%
SCNN1G	312.29%	29.01%
ZNF398	26.19%	28.90%
AP005435.2-1,AP006587.1-2,A	52.25%	28.86%
AC007551.3	14.89%	28.75%
TTC9	100.35%	28.75%
DDX50	16.52%	28.73%
C12orf67	140.39%	28.73%
TUBB3	11.52%	28.71%
FNDC3A	748.05%	28.71%
GAS8	25.59%	28.68%
RBBP7	58.99%	28.62%
MATN1	33.72%	28.58%
NUBP1	70.88%	28.57%
C19orf15	62.40%	28.54%
SEMA4D	430.04%	28.52%
RAI2	90.35%	28.48%
PPP5C	29.53%	28.40%
ZNF37A	29.15%	28.40%
DLG3	32.05%	28.40%
GLRXP,GLRX	160.55%	28.31%
WNT10A	17.91%	28.30%
PRKAR1B	20.59%	28.27%
SCD	320.95%	28.20%
TM2D3	32.83%	28.19%
RASD2	62.05%	28.11%
ANKRD13B	22.55%	28.11%
XDH	62.36%	28.03%
SLC25A21	52.10%	27.98%
RP5-1061H20.3	11.26%	27.96%
CFI	92.11%	27.79%
CHRNA6	43.36%	27.78%
CTSZ	46.24%	27.78%
C19orf73	16.92%	27.76%
CRYBB2	91.22%	27.74%
COX7A2	202.34%	27.74%
NMT1	19.91%	27.68%
FBXO15	80.49%	27.52%
IRG1	45.09%	27.49%
OSTF1	117.17%	27.46%
C16orf3	17.13%	27.44%
SECISBP2	111.81%	27.35%
RP11-172F4.2,TINP1	88.71%	27.32%
C14orf68	45.53%	27.27%
MMP2	184.16%	27.26%
RP11-389K14.3	220.65%	27.23%
PYCR1	75.00%	27.21%

EVI5L	39.74%	27.20%
C12orf33	223.53%	27.13%
C4orf42	33.33%	27.12%
CSE1L	99.60%	27.05%
PMF1	14.13%	27.00%
C22orf29,GNB1L	68.70%	26.99%
RP11-250J16.1	45.49%	26.92%
FAM104B	32.79%	26.92%
ARSG	38.72%	26.91%
AC005077.11	23.74%	26.89%
CYTH2	56.13%	26.78%
PSD3	257.27%	26.73%
CHKA	31.18%	26.72%
LRTM2	26.84%	26.72%
SLC38A10	41.55%	26.71%
NCRNA00118	43.23%	26.67%
RP4-662A9.2	12.55%	26.65%
SMCR8	299.58%	26.60%
LRBA	209.02%	26.59%
FAM69A	36.29%	26.56%
OAZ3	18.25%	26.54%
TM9SF3	76.87%	26.54%
GALT	31.46%	26.45%
CACNG6	37.76%	26.44%
HYDIN	66.22%	26.42%
KNG1	93.66%	26.40%
EVX2	43.31%	26.37%
COLEC11	41.89%	26.34%
AP000345.1	30.44%	26.31%
PDX1	112.99%	26.22%
HAO2	16.37%	26.15%
SH3BP2	76.90%	26.12%
IFI6	319.76%	26.10%
CENPV	86.09%	26.09%
C1orf212	76.49%	26.08%
ACP2	35.39%	26.06%
PCBP3	85.71%	25.99%
HTR3E	169.76%	25.99%
ITGB1	46.28%	25.92%
PLP2	147.23%	25.92%
P2RY6	12.23%	25.92%
PREPL	168.17%	25.89%
TEX264	48.06%	25.88%
CA13	45.08%	25.87%
MFAP2	64.76%	25.84%
CHRNE	97.35%	25.83%
C14orf4	81.35%	25.80%

HDAC4	46.12%	25.73%
SLC17A4	62.31%	25.70%
MCHR1	12.05%	25.69%
SAMD9	38.56%	25.68%
ZNF644	56.17%	25.67%
TPM2	19.92%	25.61%
AC124944.3	57.63%	25.61%
AC003075.4	11.99%	25.59%
LEFTY1	71.43%	25.58%
GPIHBP1	106.90%	25.52%
OLFM2	45.18%	25.50%
RP11-23J9.3	27.05%	25.48%
SRPK2	56.39%	25.47%
TMEM126B	210.37%	25.40%
FAM53C	55.88%	25.38%
STAT3	483.13%	25.31%
DACT3	14.38%	25.30%
SLC35C1	15.35%	25.18%
HGD	31.93%	25.14%
UBE2N	52.50%	25.13%
CYP2A7	28.65%	25.07%
GUCY2F	28.90%	25.07%
NAPB	110.92%	25.05%
GIGYF1	69.12%	25.05%
ARAP1	23.31%	25.03%
ACRV1	21.45%	24.94%
FAM129C	20.03%	24.90%
KIF1C	84.56%	24.88%
PPIB	79.79%	24.87%
TYMP	40.94%	24.85%
SIGLEC14	34.13%	24.80%
TPK1	24.39%	24.78%
CACHD1	157.89%	24.77%
STBD1	171.36%	24.74%
CLASP1	22.70%	24.73%
NPR3	32.47%	24.71%
ZMYND15	35.13%	24.70%
DPP6	15.94%	24.61%
ENOX2	393.90%	24.59%
ETNK1	20.16%	24.49%
ZNF320,ZNF28,ZNF816A	52.66%	24.44%
PARP1	20.28%	24.41%
LAT2	42.83%	24.37%
GFM2	91.53%	24.32%
TAAR5	34.59%	24.30%
COPS6	38.10%	24.24%
REPS2	92.22%	24.21%

FNBP1	372.48%	24.15%
SPINT2	105.74%	24.07%
NIPA1	112.55%	24.07%
LIMK2	68.93%	24.01%
C4orf32	704.78%	23.97%
NDUFA11	131.59%	23.96%
TMEM225	78.50%	23.93%
HLA-DRA,HLA-DRA,HLA-DRA,H	62.96%	23.87%
TSSK6	60.50%	23.83%
C2orf50	28.56%	23.82%
TMEM101	22.75%	23.72%
GDPD4	23.98%	23.66%
RTN3	32.37%	23.64%
ZNF649,ZNF577	22.48%	23.63%
IL22RA2	233.67%	23.61%
SH3TC1	16.81%	23.61%
ZNF789	96.35%	23.61%
WDR40A	49.36%	23.58%
MCRS1	14.30%	23.52%
LENG9	89.53%	23.40%
LRP3	30.93%	23.33%
AC021054.28	106.26%	23.31%
AC005077.11	25.27%	23.27%
C6orf168	97.26%	23.26%
SOX7	23.47%	23.25%
C7orf51	16.62%	23.21%
TMCO1	25.57%	23.18%
AP000769.5-1	10.92%	23.17%
RAB31	47.87%	23.15%
C12orf42	34.87%	23.13%
RP4-604K5.1	1332.50%	23.04%
MPEG1	99.17%	22.98%
FPR3	181.40%	22.93%
COX5B	19.74%	22.86%
PQLC1	18.78%	22.80%
PEF1	27.20%	22.76%
SDF2	127.93%	22.70%
ETV3	169.58%	22.67%
RHOV	22.10%	22.67%
SUMO3	50.41%	22.62%
SLC25A28	14.34%	22.60%
UBOX5,FASTKD5	93.08%	22.60%
HIPK1	128.41%	22.56%
ZMAT3	115.35%	22.54%
CD34	42.15%	22.53%
TCP11L1	26.01%	22.52%
C7orf33	216.57%	22.51%

AL031846.2,ASCC2,ASCC2	14.10%	22.48%
CA5B	66.09%	22.45%
IGSF8	50.29%	22.43%
CALR3,MED26	55.71%	22.34%
SLC27A1	108.68%	22.27%
SCRN1	116.34%	22.26%
OTUD7A	31.80%	22.22%
RP11-552E20.3	113.87%	22.19%
DNAJB3,AC114812.5	54.90%	22.17%
UBE2I	45.52%	22.12%
EPHA10	55.69%	22.05%
C9orf78	45.83%	21.97%
ELOVL1	24.82%	21.95%
C21orf29,KRTAP10-2	68.40%	21.94%
CHD9	27.91%	21.91%
FAM98A	93.78%	21.90%
RP11-445H22.4	17.21%	21.87%
FAM103A1,RP3-427A4.2,RPS6	46.07%	21.85%
GPC2	26.75%	21.85%
SUMF1	31.90%	21.81%
ZIK1	88.13%	21.80%
L3MBTL4	53.93%	21.77%
MAN2C1	13.67%	21.77%
LNX1	90.55%	21.76%
HNRNPUL1	51.62%	21.69%
MSX2	50.79%	21.55%
C8orf44	12.47%	21.54%
TFR2	16.86%	21.53%
TBC1D1	17.55%	21.51%
C3orf10	26.65%	21.45%
EFNB3	10.36%	21.44%
MMD2	11.98%	21.40%
ZNF324	16.07%	21.38%
SFMBT2	81.49%	21.37%
HTATIP2	125.16%	21.35%
HHAT	61.92%	21.35%
RAB40B	30.89%	21.33%
PTPRJ	65.32%	21.32%
SETD5	34.39%	21.25%
PHTF2	86.72%	21.21%
TMEM45A	313.26%	21.10%
TIGIT	16.32%	21.04%
ZNF238	19.54%	20.98%
HBP1	193.98%	20.95%
SLC22A4	206.49%	20.94%
GSTK1	27.53%	20.94%
MOGAT3	38.02%	20.89%

KRTCAP2	26.39%	20.85%
DKK3	28.91%	20.84%
AP1	24.02%	20.81%
ACTL7A	28.25%	20.77%
MLX	19.73%	20.77%
UBR4	48.50%	20.76%
CASZ1	10.16%	20.72%
PBX2,AGER,PBX2,AGER,PBX2,/	26.58%	20.70%
CAPZA1	40.59%	20.69%
ZNF445	13.72%	20.66%
CDC42EP1	33.74%	20.66%
BIRC5	91.26%	20.62%
7SK	170.56%	20.50%
SERPINA11	107.32%	20.47%
MFAP3	1343.53%	20.46%
RIC8B	60.68%	20.43%
CYP46A1	68.91%	20.40%
ASTL	12.14%	20.38%
RAD1	90.98%	20.38%
TCP11L1	218.57%	20.36%
PFN1,RP4-560B9.2	60.28%	20.30%
NID1	39.38%	20.23%
IKBKAP	55.02%	20.23%
H2AFX	66.84%	20.22%
CUGBP1	116.60%	20.22%
ITM2C	34.82%	20.20%
VPS35	21.30%	20.20%
MUC5AC,MUC5B	45.49%	20.16%
FANCE	43.30%	20.14%
LCE1C,LCE2B,LCE1F	35.11%	20.14%
NEO1	98.96%	20.13%
DHRS11	165.45%	20.12%
SORBS1	457.37%	20.11%
STOM	63.27%	20.10%
AC130454.2	46.15%	20.10%
KLC3	113.21%	20.06%
RP4-617C6.1	37.65%	20.00%
MAP2K5	120.26%	20.00%

Values represent mast cell genes upregulated by at least 10% by FceRI stimulation that were upregulated (least inhibited) >20% by Inos-sorted most upregulated to least upregulated in column D

Gene_symbol	% Increase (-) to (+)	% Inhibition by Inos
ELF1	13.55%	-1135%
FOS	120.46%	-769.64%
EGR2	1821.64%	-619.26%
RGS1	149.49%	-571.30%
JMJD1C	234.59%	-564.38%
VAC14	2154.36%	-531.71%
HSPH1	129.36%	-427.75%
LAPTM4A	104.32%	-415.47%
GNAI1	465.23%	-409.70%
RGL1	466.14%	-403.05%
TCEAL1	165.30%	-379.72%
EVI2B	262.93%	-371.50%
BMI1	436.33%	-355.35%
MOBKL3	105.06%	-352.62%
PPP2CA	133.03%	-336.35%
RHOB	1174.11%	-332.94%
TCEA1	217.42%	-330.63%
ATP6V1G1	100.58%	-310.38%
C14orf43	133.88%	-301.98%
CEP350	141.35%	-301.46%
TIPARP	115.06%	-301.22%
AC110926.4,WBP11P1,WB	41.33%	-292.30%
RB1CC1	74.74%	-290.32%
KLF9	65.53%	-285.37%
DUSP4	500.23%	-281.30%
DONSON	40.83%	-280.91%
GADD45A	32.16%	-279.24%
TRIM33	40.52%	-277.63%
PHF3	34.08%	-276.55%
ISOC1	134.93%	-274.03%
KRCC1	132.36%	-271.71%
STAM	190.96%	-270.84%
STX11	166.50%	-269.69%
SPRY1	1627.47%	-266.86%
HMG20A	15.49%	-266.30%
ZMIZ1	10.98%	-265.49%
ADIPOR1	22.94%	-258.48%
TSC22D1	313.87%	-256.38%
RAB11FIP1	313.82%	-255.48%
C13orf15	1231.52%	-253.11%
HAT1	47.03%	-252.99%
EGR3	849.33%	-250.42%
TMED5	513.06%	-249.30%
SCOC	307.28%	-246.85%

ARL4P,NSUN7,AC124914.3	45.60%	-246.74%
AC011494.2-2,RP13-158L7.	132.61%	-246.31%
PDCD6	106.13%	-245.17%
CRBN	40.96%	-244.68%
GPR183	599.51%	-243.42%
COPEB	300.63%	-240.56%
SEC24B	176.30%	-235.62%
RORA	239.15%	-233.78%
CPEB2	145.53%	-233.33%
OCIAD1	109.53%	-232.16%
DDHD2	10.37%	-229.35%
FCHO2	139.39%	-225.32%
TMEM181	196.59%	-221.58%
PTP4A1	366.88%	-221.15%
THOC7	45.89%	-221.13%
EMP1	344.44%	-216.88%
RCN2	287.86%	-215.84%
PANX1	213.43%	-215.56%
RAD51C	65.16%	-214.14%
GPR42P,FFAR3	200.88%	-212.15%
AC093081.2,RWDD4A	55.94%	-210.32%
CCL4L1,CCL4,CCL4L2	1998.72%	-209.60%
HLTF	155.34%	-208.57%
EBAG9	132.18%	-207.58%
TNPO1	145.70%	-206.55%
CLEC2B	20.19%	-206.51%
PTPN22	622.22%	-206.00%
INTS6	40.99%	-205.97%
COX17,RP11-189B4.3	23.75%	-205.44%
NT5DC1	107.97%	-204.79%
GPRC5A	103.29%	-203.83%
GPR34	471.20%	-203.64%
CSDA	188.07%	-203.16%
SNX2	40.08%	-199.64%
ABCD3	176.36%	-199.34%
RDH10	235.46%	-199.29%
TMEM30A,COX7A2	177.70%	-199.04%
ALS2	76.72%	-198.75%
RP11-422P24.9,RPL34,RPL3	20.24%	-198.66%
CCDC59	23.60%	-198.49%
TICAM2	444.71%	-197.79%
FAM175A	133.76%	-194.91%
CCL4L1,CCL4,CCL4L2	4653.85%	-194.77%
MT1A,MT1X	168.16%	-194.48%
APOLD1	74.39%	-194.10%
ANKFY1	28.50%	-193.60%
SAMSN1	154.48%	-193.55%

IARS	66.95%	-193.23%
NUDT5	26.54%	-192.41%
YWHAH	115.22%	-192.05%
SEC62	163.34%	-191.68%
VIM	32.60%	-191.44%
ARMC1	195.99%	-191.36%
AC004945.2	14.54%	-190.67%
EIF3E	251.53%	-189.12%
PSCDBP	297.54%	-188.73%
NFE2L2	900.92%	-186.86%
KLF4	150.50%	-186.43%
APPBP2	35.86%	-185.50%
C6orf115	271.18%	-184.59%
SEC23B	17.90%	-184.41%
ATP5G3	122.79%	-184.32%
NFKBIZ	113.27%	-184.22%
KIAA1644	50.30%	-182.97%
AC020571.3	2126.91%	-181.56%
FAM172A	95.44%	-180.37%
H2AFY	89.74%	-180.06%
AC058791.1	705.28%	-180.04%
PPP2R5A	53.15%	-179.35%
AKAP11	365.44%	-179.30%
ASNS	79.70%	-179.28%
PIAS1	66.07%	-178.37%
OSGIN2	85.16%	-177.37%
DCP1A	37.07%	-176.42%
HIATL1	373.59%	-176.10%
TIAL1	54.41%	-175.35%
ARPC3	113.65%	-174.44%
LY96	27.54%	-174.06%
SLC2A3,SLC2A14	126.65%	-173.99%
ZHX1	41.66%	-173.78%
PPP1R10,PPP1R10,PPP1R1	12.25%	-173.60%
NFIL3	294.43%	-171.64%
BRAF	120.20%	-171.56%
RC3H1	34.69%	-171.05%
ITPRIP	412.84%	-170.70%
ETNK1	707.48%	-170.60%
ECD	43.04%	-170.60%
CNBP	63.45%	-169.97%
SEMA4A	63.54%	-169.90%
HECA	100.33%	-169.68%
RGPD8,RGPD6,RGPD4,GCC	783.70%	-169.33%
F2RL2	11.36%	-169.07%
KNTC1	87.18%	-168.99%
AC116337.2-1,FGF14,Y_RN	22.41%	-168.98%

GLA	227.34%	-168.79%
STK38L	82.39%	-168.49%
RP4-761I2.3	91.88%	-168.46%
TBC1D24	67.32%	-168.31%
SAMD9L	411.58%	-167.49%
COPEB	764.80%	-166.87%
DTL	563.22%	-166.51%
SENP7	31.90%	-166.38%
GPR137B	94.35%	-166.32%
LUC7L2	59.09%	-165.09%
ATL3	111.94%	-164.91%
TFB2M	114.80%	-164.78%
XPR1	221.88%	-164.37%
STK39	72.30%	-164.22%
RIOK2	13.44%	-162.61%
ZNF354A	24.59%	-162.34%
C15orf29	10.62%	-162.32%
NONO,NOB1	101.02%	-162.05%
AK3	65.63%	-161.62%
LTBP2	156.02%	-161.41%
ZNRF2	78.43%	-161.07%
ITGB3BP	57.12%	-160.80%
RNF14	254.78%	-160.22%
RRM2B	93.41%	-160.15%
CCDC50	94.78%	-159.96%
SMARCA1	14.53%	-159.03%
SYAP1	48.21%	-158.88%
S100A10	13.53%	-158.64%
RASGEF1B	232.78%	-158.60%
RSRC2	125.93%	-158.34%
LEPR	605.00%	-158.33%
ARL6IP5	338.74%	-158.11%
CCL3,CCL3L1,CCL3L1,TBC1I	229.34%	-156.80%
RND3	73.83%	-156.74%
FNDC3B	10.00%	-156.33%
CASD1	187.01%	-155.97%
ASPH	296.93%	-155.80%
NUS1	18.80%	-155.49%
DONSON	13.51%	-155.39%
BHLHE41	41.01%	-155.21%
MEGF9	70.26%	-155.14%
MN1	237.17%	-154.72%
C20orf30	71.22%	-153.97%
PRNP	1314.29%	-152.35%
EXOC8	210.38%	-152.17%
ZFP36L1	230.02%	-151.97%
NONO,NOB1	99.88%	-151.06%

LITAF	135.59%	-150.82%
PJA2	132.97%	-150.52%
TNKS2	71.27%	-150.00%
TMED6	68.97%	-148.64%
PCGF5	156.81%	-148.36%
BZW1,RP11-1K20.2	85.69%	-147.70%
C4orf41	24.52%	-147.15%
UCHL5	163.87%	-147.10%
RAB3IP	95.27%	-147.03%
EGR4	31615.63%	-147.02%
SKP1A	43.64%	-146.91%
GALC	397.79%	-146.72%
AD000091.1,RPL23AP37,RI	148.96%	-146.12%
PTPRR	564.54%	-145.68%
FTSJD1	455.56%	-145.33%
YPEL5	76.04%	-144.06%
MTERFD1	43.60%	-143.87%
IDE	24.16%	-143.04%
SPRY2	657.65%	-143.01%
MIS12	49.10%	-142.98%
MMADHC	617.86%	-142.66%
C1orf149,AC013409.4	77.89%	-142.58%
RILPL2	131.34%	-142.50%
CCL4L1,CCL4,CCL4L2	10035.90%	-142.47%
ASAP1	91.07%	-142.42%
CGA	168.49%	-141.91%
UBE2K	75.84%	-141.83%
C13orf23	22.67%	-141.64%
RP11-336N8.4,CKS2	332.21%	-141.61%
PDS5A,AC105287.5-2	36.59%	-141.32%
RP11-472G23.8,RP11-472G	59.12%	-141.28%
RP11-128M1.1	287.97%	-141.28%
CREBZF	33.93%	-141.14%
CCL8	17.34%	-140.26%
TMEM60	66.67%	-139.67%
hsa-mir-568	62.85%	-139.62%
AC083871.2,SDHD	239.90%	-139.34%
AEBP2	187.34%	-139.21%
PSMA1	242.41%	-139.16%
TDO2	77.33%	-138.81%
MBNL1	14.74%	-138.28%
SAPS3	272.81%	-137.90%
AZIN1	58.84%	-137.83%
PTPN2	31.45%	-137.46%
IL1B	31.22%	-137.39%
NT5C3,AC092661.2	343.96%	-137.00%
PLOD2	57.32%	-136.71%

FASTKD2	19.54%	-136.69%
TYW1	16.78%	-136.64%
GBAS	272.46%	-136.41%
EIF4E	5923.20%	-136.39%
ARID2	210.84%	-136.05%
MAPK6,PKHD1L1,AC02203	1237.11%	-136.00%
GNG2	39.47%	-135.94%
FBXO8	10.12%	-135.35%
AP002364.4-1,TUBA1B,TUI	124.51%	-135.30%
EIF4G2	12.23%	-135.27%
AC074008.4,ALMS1	101.58%	-134.93%
RP11-557H15.2	772.47%	-134.86%
DCN	23.50%	-134.78%
CRSP3	496.26%	-134.64%
PTPN1	80.50%	-133.46%
LYST,RP5-1043F6.2	59.86%	-133.43%
ZNHIT6	131.69%	-133.30%
VEZT	91.07%	-133.08%
DYNLL1,AL136040.5	26.84%	-132.88%
TOPBP1	70.37%	-132.84%
TMEM77	32.84%	-132.54%
PKN2	38.70%	-132.44%
MRPL1	153.12%	-132.42%
DOCK11	89.19%	-132.36%
MDH1	86.69%	-132.18%
MEX3C	691.43%	-131.92%
RP4-702J19.1,AC005740.1,	112.79%	-131.83%
PTPN9	111.94%	-131.52%
CCDC117	181.25%	-131.11%
TXN	96.50%	-131.07%
PTPLAD1	342.73%	-131.01%
PRCP	40.61%	-130.74%
CCNI	33.79%	-130.48%
MOAP1	66.14%	-130.08%
TMEM209	95.04%	-129.94%
STX7	28.81%	-129.82%
AADACL1	130.95%	-129.71%
NDUFAF1	50.75%	-128.92%
C6orf72	62.82%	-128.82%
PPARGC1A	113.64%	-128.74%
SRD5A2L	429.52%	-128.70%
IL8	602.43%	-128.62%
RASSF5	93.79%	-128.19%
RP11-361F15.2	236.73%	-127.58%
OAT	240.54%	-127.52%
DHX15	35.79%	-127.38%
PTPRM	155.19%	-127.37%

CAPN2	17.91%	-127.30%
SF3B4	21.79%	-127.16%
RPL23AP1,RPL23AP1,Z976	38.57%	-127.06%
STK38	67.46%	-126.95%
DUSP1	54.97%	-126.74%
GTF3C3	335.20%	-126.65%
AC020698.4,AC103796.3,H	267.51%	-126.62%
CLDN12,GTPBP10	13.12%	-126.33%
RP11-110C15.4,RPL4,RP11	13.29%	-126.16%
TRDMT1	632.35%	-125.70%
SYCP2L	20.44%	-125.70%
RHOBTB3	123.89%	-124.83%
MPHOSPH6	87.62%	-124.62%
CLCN3	313.38%	-124.28%
ACTR2,AP000357.4,ZNF90	74.78%	-124.02%
UBE2Q2	81.96%	-123.99%
RAB2B	46.17%	-123.86%
C1orf27	192.66%	-123.75%
MSH6	127.32%	-123.56%
PDCD6IP	67.58%	-123.52%
RPL7,AC011382.4-1,AC010	53.46%	-123.29%
AC074183.2,SPOCK3,HMGI	76.49%	-123.27%
CXYorf3	92.50%	-122.85%
MTPN	33.99%	-122.66%
GALK2	17.78%	-122.64%
SET	169.66%	-122.39%
TSPYL1	391.82%	-122.25%
ZDHHC13	67.49%	-122.04%
RBM39,RP6-218J18.2	228.61%	-121.56%
FRAP1	63.67%	-121.54%
CLTC	39.05%	-121.53%
PTBP2	237.04%	-121.35%
DLD	48.64%	-121.32%
RP11-110C15.4,RPL4,RP11	27.13%	-121.28%
FOSL2	46.04%	-121.26%
SSR1	95.19%	-121.12%
RPS4P16,RP11-550E22.3,VI	47.75%	-121.06%
SSH2,RP11-565J7.3,RPL21P	78.36%	-121.04%
AC090377.15-1,C17orf57,N	193.75%	-121.02%
NARS	88.73%	-120.82%
ATP2B4	55.04%	-120.82%
MTCH2	19.04%	-120.21%
MLLT11	102.09%	-119.88%
JMJD2C	218.46%	-119.58%
RANP1,RANP1,AC079789.1	145.23%	-119.35%
CCL3L1,CCL3,CCL3L1,TBC1I	459.44%	-119.20%
SRGN	739.39%	-118.56%

NFAT5	743.35%	-118.41%
POLR2A	31.74%	-118.22%
SEMA3C	161.34%	-118.01%
TOMM22	22.35%	-117.95%
HSPA1A,HSPA1B,HSPA1B,H	22.74%	-117.93%
DUSP2	129.29%	-117.33%
GPBP1	16.80%	-117.32%
WBP5	267.24%	-117.28%
SPON1	135.71%	-117.14%
CCNL1	794.22%	-117.02%
EIF4E	210.95%	-116.85%
UQCRB,UQCRBP1	27.38%	-116.41%
PRMT6	61.28%	-116.37%
MGAT2	337.56%	-116.18%
SFRS1	124.21%	-115.68%
ACADM	96.90%	-115.67%
C14orf100	164.17%	-115.62%
BRAP,AC090023.20,PCNP	188.34%	-115.28%
MAP3K8	382.69%	-115.19%
LIPA	68.91%	-114.98%
ARL8B	1147.69%	-114.97%
RP11-77G22.3,SDCBP	746.32%	-114.93%
CENPA	72.08%	-114.35%
ERCC8	14.33%	-114.32%
FBXO21	21.14%	-114.10%
YIPF6	173.53%	-113.80%
CD44	306.68%	-113.52%
POLR2B	104.15%	-113.48%
CGRRF1	232.76%	-112.95%
RGS2	62.75%	-112.81%
RNF19A	111.48%	-112.75%
SH2B3	93.27%	-112.66%
ME2,RP11-460C6.1	292.51%	-112.45%
DPM1	179.37%	-112.36%
CKAP2	324.45%	-111.73%
ELL2	154.82%	-111.68%
CBWD5,CBWD7,CBWD6,CE	71.79%	-111.62%
MTDH	48.51%	-111.41%
PIGF	226.75%	-111.40%
TWISTNB	160.91%	-111.36%
PDE8A	193.37%	-111.30%
ERBB2IP	99.70%	-111.22%
DCDC1,RP11-513I15.3,CYC	125.00%	-111.11%
PPM1A	117.88%	-111.06%
C19orf12	16.88%	-110.76%
PAN2	23.35%	-110.64%
RASA1	118.73%	-110.56%

ZDHHC2	152.80%	-110.20%
USP3	85.74%	-110.00%
CLASP2	11.75%	-109.61%
AC104297.1	231.37%	-109.47%
AMD1	1723.47%	-109.46%
PSMD6	82.95%	-109.45%
NRIP3	480.81%	-109.39%
RGS5	105.20%	-109.37%
TUBB6	76.15%	-109.30%
MTFR1	187.60%	-109.20%
PDE6D	116.47%	-108.85%
RB1	687.10%	-108.81%
GJB2	17.86%	-108.31%
VEGFC	90.84%	-108.22%
CDK8	525.64%	-108.20%
SYTL2	184.12%	-108.19%
ZEB2	154.86%	-108.18%
RPS13P2	19.69%	-107.79%
ABCC4	755.45%	-107.76%
SFRS11	60.28%	-107.46%
KLHDC2	143.43%	-107.32%
EFEMP1	108.14%	-107.28%
RP11-201K10.1,HMGN2,AC	23.18%	-107.24%
VWA5A	122.73%	-107.14%
COX7A2L	121.82%	-106.59%
CYTH3	452.57%	-106.58%
SLC2A10	170.43%	-106.47%
DAPK1	51.08%	-106.39%
AC093401.4-1,B3GNT1	1209.38%	-106.28%
STRAP	150.97%	-106.11%
PEX6	39.42%	-106.07%
HSPA1B,HSPA1B,HSPA1B,H	321.05%	-105.94%
ARHGEF12	661.25%	-105.91%
OR2AE1	27.64%	-105.87%
KIFC1,KIFC1,KIFC1	322.13%	-105.86%
JOSD1	170.43%	-105.78%
BTG2	177.16%	-105.72%
RP4-761I2.3	102.25%	-105.35%
MYD88	47.01%	-105.35%
RBM3	142.03%	-105.32%
GRINL1A	32.08%	-104.72%
NFKB1	460.80%	-104.71%
RRP12	148.76%	-104.63%
CHD9	54.39%	-104.58%
ELOVL4	59.13%	-104.52%
NAB1	120.77%	-104.37%
IGF1	67.74%	-104.20%

VIL2	180.72%	-104.03%
LETM2	35.96%	-103.78%
RNASEH2B	261.79%	-103.26%
HNRNPK	236.88%	-103.20%
PRSS23	36.18%	-103.01%
CENPC1,AC010201.18	230.00%	-102.96%
PTPRG	32.99%	-102.93%
SFRS3	101.61%	-102.82%
BCL6	42.54%	-102.81%
MITD1	130.90%	-102.73%
SOAT1	236.51%	-102.55%
AC016582.2	78.61%	-102.52%
DIRC2	144.57%	-102.47%
VBP1	275.48%	-102.41%
TBX3	150.23%	-102.34%
IARS2	502.11%	-102.22%
DDX47	322.89%	-101.85%
TMEM47	168.87%	-101.71%
GHITM	50.44%	-101.38%
PTGS2	165.08%	-100.91%
ANKS1A	14.47%	-100.82%
POLR1D	89.94%	-100.62%
RP4-604K5.1	155.33%	-100.48%
MED30	97.92%	-100.42%
CSTF3	14.82%	-100.38%
COPS8	18.86%	-100.10%
ATG3	45.25%	-99.55%
GPR141	272.90%	-99.45%
GSPT1	177.25%	-99.37%
TBL1XR1	162.79%	-99.24%
HSPA1A,HSPA1B,HSPA1B,H	38.24%	-99.16%
CNRIP1	56.67%	-98.95%
RP3-468O1.2,FDX1	916.77%	-98.86%
MTRR	30.70%	-98.67%
ARHGAP21	79.80%	-98.57%
TPM4	127.75%	-98.43%
MRPL13	35.56%	-98.17%
STCH	104.68%	-97.98%
CHUK	220.70%	-97.56%
PLCXD2	1017.80%	-97.50%
NDFIP1	120.59%	-96.95%
MACF1	101.40%	-96.75%
UBE2D3P,UBE2D3	163.29%	-96.66%
MDM2	362.11%	-96.47%
BIRC2	117.80%	-96.23%
PCNA	149.22%	-96.22%
NCKAP1	20.16%	-96.07%

HPRT1	389.94%	-95.90%
TMCO1	32.31%	-95.47%
IL1RN	48.80%	-95.45%
RAD21	386.05%	-95.15%
OXCT1	201.64%	-95.10%
MRPL44	18.69%	-95.06%
FXR1	27.92%	-94.97%
AP1G1	27.88%	-94.37%
PAIP2	203.60%	-94.35%
GNL2	15.33%	-94.34%
AC010907.3,TMSL3,TMSB4	36.55%	-94.33%
PSMB1	32.00%	-94.10%
AKAP7	121.93%	-94.06%
AP3M1	30.65%	-93.95%
NUDT9	99.64%	-93.94%
TRIO	12.86%	-93.85%
MUT	132.51%	-93.78%
TANK	470.16%	-93.75%
COL3A1	64.43%	-93.72%
GSTM3	29.52%	-93.68%
PELI1	1550.29%	-93.64%
CCNB1	49.35%	-93.49%
CRISPLD2	162.37%	-93.30%
XRCC5	108.83%	-93.28%
HERC2P2	54.52%	-93.27%
C6orf61	82.19%	-92.96%
RP11-388B24.3,DDX10	58.02%	-92.89%
DNA2	16.17%	-92.84%
STEAP2	235.99%	-92.81%
MRPS35	42.54%	-92.66%
C12orf11	41.62%	-92.61%
SLC40A1	171.81%	-92.59%
PRMT10	903.57%	-92.53%
DCUN1D3	47.34%	-92.52%
AC092798.3,TAF9B	49.24%	-92.28%
BMI1,COMMD3	14.50%	-92.11%
HNRPLL	486.27%	-92.08%
ZNFX1	23.76%	-91.49%
WDR3	36.20%	-91.39%
DEK	151.86%	-91.31%
DCTN6	437.23%	-91.30%
PITRM1	36.99%	-91.30%
CCDC138	138.08%	-91.28%
SFRS4	173.33%	-91.22%
RSRC1	243.09%	-91.08%
ATP2A2	364.29%	-91.05%
CPD	142.28%	-90.92%

PIGH	16.96%	-90.84%
EGR1	47.75%	-90.51%
TMEM63B	48.40%	-90.41%
ATP6V1C1	103.36%	-90.27%
TIMP2	327.26%	-90.23%
OGT	465.07%	-90.21%
TNFSF5IP1	13.40%	-90.13%
ZNF331	42.48%	-90.02%
TMEM49,hsa-mir-21	755.07%	-90.00%
TAF2	81.50%	-89.92%
MESDC1	81.37%	-89.83%
NUDT2	21.69%	-89.83%
NEU1,NEU1,NEU1,NEU1,NI	133.29%	-89.72%
DUSP12	29.82%	-89.69%
SMAD4	162.21%	-89.67%
OLFM1	43.32%	-89.63%
KRAS	64.01%	-89.61%
IFRD1	172.21%	-89.40%
AP4B1	66.79%	-89.29%
KIAA0513	65.72%	-89.23%
RP11-565J7.3,AC087190.5-	104.01%	-89.18%
SIRT1	76.85%	-89.10%
SPEN	86.08%	-88.94%
GPATCH2	29.50%	-88.87%
FBXO3	148.25%	-88.69%
NTAN1	24.83%	-88.57%
RAB6A,RAB6C	356.65%	-88.57%
AC023161.24-2	104.73%	-88.56%
GS1-309P15.3,RDX	350.00%	-88.48%
RCBTB2	100.78%	-88.48%
PELI2	357.77%	-88.34%
ASXL2	269.77%	-88.21%
SAT1	67.20%	-87.76%
TFG	291.70%	-87.44%
HECTD1	30.73%	-87.38%
PQLC3	129.97%	-87.37%
MYL12B	36.95%	-87.13%
DYRK1A	145.26%	-87.02%
ASNSD1	51.86%	-86.95%
RAB7A	111.99%	-86.73%
SDHB	33.55%	-86.65%
ITFG1	561.54%	-86.60%
SKAP2	127.43%	-86.58%
WDR41	195.27%	-86.57%
TCTE1P,DYNLT3	383.19%	-86.43%
AL049778.3,CNIH	589.89%	-86.20%
RP5-837D10.2,PTGES3	158.55%	-85.98%

SOCS4	25.69%	-85.22%
SRP54	156.23%	-85.18%
RAD23B	142.17%	-85.18%
TNFSF10	43.07%	-85.15%
GSK3B	22.99%	-84.98%
MRPS14	76.70%	-84.80%
RIMKLA	24.40%	-84.76%
IL18R1	323.62%	-84.49%
GAPT	205.68%	-84.39%
KLHL6	87.20%	-84.35%
WDR35	92.50%	-84.23%
GTF2B	13.92%	-84.23%
ESD	132.44%	-84.22%
RP11-125K10.2,AC084854.	116.79%	-84.16%
ACSL5	246.28%	-84.09%
TPBG	387.13%	-83.68%
C2orf69	136.10%	-83.66%
GNPNAT1	12.03%	-83.64%
ABCA1	22.24%	-83.60%
IQGAP1	19.07%	-83.32%
FOSL2	60.55%	-83.22%
AL139023.6,BNIP3	63.31%	-83.19%
AC006465.3	466.67%	-83.16%
NEDD9	135.44%	-83.06%
CD58,RP4-655J12.5	1264.36%	-82.87%
C5orf32	102.03%	-82.84%
AL121809.6-1,FKBP3	32.90%	-82.69%
HIBADH	262.25%	-82.15%
PRKAA1	73.12%	-81.99%
KIAA0907	109.24%	-81.97%
AC103796.3	288.69%	-81.78%
RP4-706A16.3,SNORD58B,/	108.22%	-81.69%
CRK	135.46%	-81.63%
PCCB	44.77%	-81.58%
PCDH18	77.27%	-81.56%
FAM63B	36.53%	-81.50%
ATP5L	156.14%	-81.33%
COX16	108.19%	-81.20%
BTG1	358.63%	-81.18%
BTN2A2	162.32%	-81.01%
RNF139	124.37%	-80.97%
ALG5	253.47%	-80.91%
KIAA1715	118.25%	-80.68%
PAIP1,AC026271.5	350.57%	-80.68%
C10orf97	230.29%	-80.62%
ELOVL6	12.70%	-80.49%
MAGT1	115.72%	-80.48%

FN1	67.70%	-80.47%
C14orf10	246.63%	-80.38%
MLH1	85.81%	-80.16%
TMEM165	158.48%	-80.10%
ERO1L	202.83%	-80.06%
PLAUR	28.97%	-80.00%
VMA21	28.45%	-79.94%
ZNF403	124.74%	-79.93%
AC093509.1,AC109456.3-1	82.08%	-79.88%
PSMB7	34.24%	-79.77%
PRKAR1A	99.31%	-79.60%
TMBIM4	47.29%	-79.54%
DKK1	178.16%	-79.48%
CTNNB1	115.01%	-79.47%
C7orf23	118.97%	-79.46%
TNFAIP6	75.79%	-79.38%
ALS2CR12	60.43%	-79.37%
DYRK3	208.61%	-79.37%
RXRA	83.66%	-79.34%
PTS	144.39%	-79.19%
SC5DL	698.42%	-79.18%
BHLHE40	155.33%	-79.16%
KCTD7	273.54%	-79.10%
MRPL15	12.18%	-78.98%
RERE	32.40%	-78.92%
CUL2	120.76%	-78.81%
SNX1	18.74%	-78.80%
GNG5	124.58%	-78.77%
SRP9L1,SRP9	92.90%	-78.75%
RBM47	42.19%	-78.69%
NRIP1	29.56%	-78.38%
PBEF1,NAMPTL	281.84%	-78.38%
FASLG	63.26%	-78.33%
RP4-647M16.1,RP11-54O7	52.54%	-77.96%
AKAP13	113.19%	-77.94%
PYGL	34.46%	-77.86%
FST	144.83%	-77.85%
FAM44A	43.30%	-77.74%
TNRC6B	66.91%	-77.73%
ESCO1	46.34%	-77.73%
C20orf12	92.18%	-77.70%
C11orf58	169.32%	-77.66%
GDE1	51.38%	-77.62%
MKNK1	99.39%	-77.41%
TCTEX1D2,TM4SF19	13.79%	-77.27%
SH3GL2	132.45%	-77.27%
RDH14	112.71%	-77.22%

MRPL49	23.16%	-77.14%
LMNA	174.27%	-76.71%
DDX42	14.41%	-76.69%
ARF4	92.71%	-76.51%
NEDD4	125.11%	-76.37%
ARL5A,RP3-481A17.1	961.70%	-76.35%
VGLL4	13.75%	-76.32%
RP11-553A21.3	65.92%	-76.24%
BZW1,BZW1L1	670.00%	-76.19%
CALM2,RP11-367H5.5	357.15%	-76.15%
TTC5	57.30%	-76.03%
SRP9L1,SRP9	51.10%	-75.89%
ENY2	11.92%	-75.66%
MARCH7	135.06%	-75.55%
TNKS1BP1	37.63%	-75.41%
ZNF830	110.39%	-75.40%
SRP14P1,SRP14	41.68%	-75.01%
USP9X	76.96%	-75.00%
PDZD11	43.51%	-74.94%
RAP2A	28.89%	-74.91%
YWHAQ	172.51%	-74.66%
GNAI3	97.55%	-74.62%
RP11-396K3.1,GTF2I	25.39%	-74.55%
ARMCX3	98.48%	-74.43%
STK4	36.27%	-74.25%
CXCL5	113.20%	-74.21%
SMARCE1	254.67%	-74.12%
CCNA1	659.88%	-73.82%
HADH	38.83%	-73.81%
RP1-138A5.1,AC009812.17	20.48%	-73.70%
SMNDC1	298.34%	-73.69%
TRAF5	141.46%	-73.53%
ATP6V1D	55.86%	-73.45%
FUNDC2	76.17%	-73.30%
ZC3H11A,RP11-74E24.2	47.71%	-73.22%
C7orf38	13.08%	-73.19%
TPST1	39.11%	-73.16%
UXS1	66.67%	-73.10%
RP11-398K22.3,OOEP,RP11	114.17%	-73.09%
TAC1	5354.29%	-73.07%
ARL15	37.48%	-73.07%
HDAC2	182.23%	-73.05%
CXCL16	14.55%	-72.42%
VDAC2,AC007318.5	38.84%	-72.24%
ANKRA2	43.68%	-72.09%
TATDN1	11.43%	-71.96%
PIG-Y	216.88%	-71.89%

PIP5K3	777.98%	-71.89%
ASCC3,AC019080.1,RP11-6	28.45%	-71.87%
ITPKB	954.90%	-71.75%
RP11-77G22.3,SDCBP	381.02%	-71.70%
AC011998.1,PDE11A,API5L	442.75%	-71.64%
MGEA5	93.91%	-71.36%
RAP1A	76.67%	-71.33%
SERPINB9	479.52%	-71.30%
SNAP23	32.07%	-71.18%
AKIRIN2	60.28%	-71.07%
SASH1	16.49%	-71.06%
CHD7	121.26%	-71.00%
FBXO11	351.73%	-70.91%
COX6C	11.72%	-70.89%
SESTD1	102.60%	-70.83%
CTNNA1	183.88%	-70.82%
RABEP1	80.16%	-70.81%
MGST1	243.26%	-70.60%
RAPGEF2	268.68%	-70.52%
AC005534.6,AC022431.1,R	75.86%	-70.51%
FZD1	73.60%	-70.44%
SMC2	120.55%	-70.43%
SEPT10	256.37%	-70.31%
IVNS1ABP	359.23%	-70.19%
DUSP6	1084.00%	-70.16%
INSIG1	528.74%	-70.04%
CDC27	66.24%	-69.92%
SAT1	321.25%	-69.84%
FRG1,RP11-764K9.4,FRG1B	62.67%	-69.72%
RBM26	238.29%	-69.71%
SECISBP2L	88.67%	-69.63%
FRYL	201.69%	-69.62%
ZNF586	113.97%	-69.49%
TCP1	55.46%	-69.35%
NSMCE2	273.50%	-69.34%
RP11-125K10.2,AC021224.	124.63%	-69.30%
TCERG1	282.63%	-69.26%
RPL37AP1,RPL37A	10.36%	-69.19%
EIF5	146.33%	-69.17%
EIF4A2	105.46%	-69.15%
ARG2	156.32%	-69.12%
C18orf21	30.57%	-69.09%
SERPINB2	222.89%	-69.03%
ASAP2	25.20%	-68.90%
GALNT12	33.18%	-68.90%
PAK1	357.63%	-68.86%
MAP2K4	132.68%	-68.82%

DENND4C	13.39%	-68.70%
NDUFB3	24.89%	-68.60%
TIMM23	36.92%	-68.54%
FECH	199.12%	-68.44%
ARPP19	367.49%	-68.39%
BTF3,CTD-2090I13.4,AC021	105.33%	-68.37%
UBA3	29.00%	-68.34%
HEATR5B	727.43%	-68.34%
RTCD1	200.00%	-68.29%
CRKL	149.56%	-68.14%
S100A11	29.24%	-67.99%
C18orf8	21.00%	-67.96%
PCGF6,AC073539.3	178.39%	-67.90%
ATP11B	245.84%	-67.86%
TOMM20	122.75%	-67.84%
TM2D3	64.32%	-67.74%
EXOC6	14.89%	-67.71%
GLUD1,GLUD2	208.14%	-67.45%
CREM	884.99%	-67.43%
PUS3	114.19%	-67.33%
PRKDC	390.17%	-67.32%
SCD5	232.74%	-67.31%
ANXA5	113.37%	-67.18%
AC093673.5	81.95%	-67.16%
CCDC49	11.98%	-67.15%
FZD10	71.34%	-67.09%
IDH3A	23.09%	-67.05%
RAP2A	47.42%	-66.94%
TM7SF3	96.79%	-66.94%
DNAJC3	60.10%	-66.85%
AP001157.4-1,C1QBP	72.09%	-66.84%
CEP78	120.96%	-66.80%
LYPLA2,LYPLA2P1,LYPLA2P	58.19%	-66.78%
MTSS1	43.10%	-66.75%
C7orf10	20.86%	-66.73%
JMJD1A	21.27%	-66.70%
TMEM64	161.27%	-66.60%
PDIK1L	39.34%	-66.60%
ARNT	81.72%	-66.60%
FOXP1	29.94%	-66.58%
CAV1	25.59%	-66.50%
SHOC2	107.88%	-66.29%
UTP18	337.57%	-66.29%
SNTB2	74.28%	-66.07%
RP5-961K14.1,MYST2,AC0(	17.49%	-66.05%
PPWD1	91.67%	-65.97%
PPAP2B	260.86%	-65.93%

LPHN1	17.66%	-65.90%
BUD31	16.31%	-65.87%
AC010976.2,IWS1	18.94%	-65.86%
SEC23IP	260.10%	-65.77%
AC093616.4	222.32%	-65.69%
PER3	655.75%	-65.66%
GFPT2	21.38%	-65.64%
TXNL1	121.33%	-65.58%
PDE8A	89.71%	-65.50%
DDX46	101.25%	-65.50%
AC025279.6-2,AC106782.5	205.43%	-65.48%
SSX5,SSX1,SSX3,SSX4B,SSX	263.32%	-65.43%
SERPINI1	430.30%	-65.31%
SUPV3L1	232.19%	-65.29%
RP11-165H4.2	41.10%	-65.26%
AGPAT9	312.12%	-65.24%
FAM46A	322.12%	-65.20%
SLC44A1	134.28%	-65.02%
AC074387.1,RPL22	95.21%	-64.97%
AHR	70.81%	-64.91%
CEP55	73.89%	-64.84%
TMED10	127.37%	-64.81%
SAP18,AC013733.5	57.68%	-64.77%
ELOVL7	480.77%	-64.71%
ZNF195	49.84%	-64.55%
AC004771.1	62.24%	-64.49%
ZNF542	31.21%	-64.18%
UGT2B17,AC147055.2	518.26%	-64.14%
HSP90AB1,HSP90AB3P	59.34%	-64.05%
C7orf42	76.01%	-64.04%
PNRC2,AL390877.1,BX511(	323.58%	-63.60%
RP11-365O16.1,ZNF706	78.39%	-63.58%
LRAP	67.52%	-63.47%
Z97634.3	21.39%	-63.38%
HPGD	151.03%	-63.25%
LRP8	144.88%	-63.24%
LGALS8	134.73%	-63.09%
DDR2	21.97%	-63.08%
FOXF1	249.95%	-63.05%
PAQR3	285.53%	-62.97%
RNF115	75.87%	-62.96%
ATG12	24.60%	-62.84%
MLL5	404.72%	-62.80%
SLC38A2	90.10%	-62.76%
CCDC53	28.56%	-62.57%
ZFP91	208.17%	-62.51%
RPL34	153.30%	-62.20%

LSM8	51.28%	-62.08%
YY1	171.91%	-61.99%
HNRNPA3	194.99%	-61.99%
TBX15	55.22%	-61.95%
ZBED5	76.39%	-61.93%
NDUFA12	40.41%	-61.91%
SLC37A3	133.04%	-61.83%
SPAG5	157.51%	-61.82%
POLR1B	54.36%	-61.81%
CASC4	283.54%	-61.74%
TPST2	136.14%	-61.74%
MAP2K1IP1	175.36%	-61.66%
SMYD3	73.48%	-61.58%
ANXA4	131.70%	-61.53%
MUDENG	74.84%	-61.51%
COPS2	31.16%	-61.47%
SEC22B	120.64%	-61.36%
AL136219.17-1	30.45%	-61.20%
STK17B	258.93%	-61.19%
AC004918.1-1	19.83%	-61.15%
AC080075.3,MRPL50	142.64%	-61.00%
TSG101	24.30%	-60.99%
COX6A1P2,COX6A1,RP11-1	117.57%	-60.93%
TTC14	168.76%	-60.91%
RRP15	80.40%	-60.81%
FAM107B	768.50%	-60.71%
MMD	42.32%	-60.62%
ING1	118.90%	-60.44%
TRAF3IP2	16.91%	-60.44%
TRIM38	15.45%	-60.42%
KIAA0182	55.46%	-60.34%
STIM1	40.02%	-60.31%
NDUFA1	53.35%	-60.25%
RPL10A,AC120036.5-2,RP3	25.83%	-60.20%
FOXO1A	91.32%	-60.19%
HNRPA2B1	122.79%	-60.11%
PGM3	24.10%	-59.95%
DENND1B	86.19%	-59.84%
WDR1	25.59%	-59.82%
SEPT12	56.82%	-59.63%
ATP6V1A	155.27%	-59.61%
DNAJB6	93.90%	-59.55%
VPS36	48.64%	-59.55%
DNAJB9	1931.26%	-59.55%
JPH4	37.01%	-59.49%
DAZAP2	112.06%	-59.46%
MGST3	36.59%	-59.38%

WASF3	536.65%	-59.32%
SGK1	769.90%	-59.12%
NDUFA2	22.71%	-59.06%
NAT1	245.93%	-58.96%
USP14	224.56%	-58.87%
MARCH3	340.64%	-58.86%
AC004696.1	149.64%	-58.74%
LAMA2	217.39%	-58.56%
MFAP1,SERINC4	54.80%	-58.44%
ACSL1	482.40%	-58.39%
SH3BGRL	45.47%	-58.39%
EGFR	540.31%	-58.35%
DNAJA2	115.98%	-58.19%
C9orf3	56.33%	-58.18%
ZFAND3	1812.90%	-58.18%
FBXW7	32.90%	-58.17%
PRG4	74.53%	-58.08%
DENR	29.86%	-57.96%
HECW2	149.82%	-57.74%
DCTN4	76.19%	-57.72%
LHFP	56.51%	-57.68%
WDR44	55.82%	-57.61%
TMEM22	406.31%	-57.61%
EBPL,AC093536.4	19.17%	-57.57%
TIMM8A,TIMM8AP	41.44%	-57.52%
SERPINB8	128.13%	-57.51%
KPNA1	129.55%	-57.43%
RPS12	184.92%	-57.41%
RABEP1	91.39%	-57.31%
PPM1K	90.17%	-57.28%
SEC31A	257.45%	-57.25%
RAB11FIP2	26.03%	-57.09%
FOXC1	118.33%	-57.05%
LDLR	253.27%	-57.05%
RAPGEF2	112.46%	-57.00%
RAP2C	90.87%	-56.95%
FAM20B	83.94%	-56.94%
DUSP14	379.11%	-56.94%
CHD6	191.65%	-56.90%
RAB1A	214.50%	-56.86%
TAL1	26.17%	-56.82%
GRB2	54.87%	-56.74%
CTPS2	125.97%	-56.65%
ZMAT2	59.46%	-56.39%
SRI	176.77%	-56.37%
DNAJC1	19.10%	-56.37%
KLHDC2	253.05%	-56.35%

WSB1	60.27%	-56.31%
NMI	35.82%	-56.26%
HTATSF1	29.74%	-56.19%
DDX21	1418.57%	-56.16%
ANKRD27	21.29%	-56.15%
TNS1	13.58%	-56.12%
FBXO25	105.78%	-56.09%
SERINC3	296.50%	-56.05%
GLOD4	14.88%	-56.04%
PAM	525.02%	-55.92%
EIF1	71.29%	-55.89%
PIGG	23.16%	-55.67%
PPP6C	93.94%	-55.58%
ATAD2B	76.66%	-55.52%
KIF13A	35.48%	-55.31%
RP11-416N13.1,MPZL1	42.28%	-55.23%
CCT4	168.65%	-55.12%
AC004917.2	542.66%	-55.06%
PDK3	202.18%	-55.00%
HNRPA2B1	117.98%	-55.00%
FUT8	71.09%	-54.88%
PTTG1IP	36.41%	-54.83%
NAT5	207.28%	-54.58%
GDF15,PGPEP1	15.80%	-54.54%
ARAP2	83.28%	-54.47%
PRDX6,AC108073.3	47.24%	-54.38%
LCLAT1	175.55%	-54.20%
SPTY2D1	297.33%	-54.18%
GPR65	164.23%	-54.15%
NCALD,PLEKHG1,RP1-44A2	67.00%	-54.11%
CXorf26	55.68%	-54.06%
CDC7	273.46%	-54.06%
AC005726.6	27.38%	-54.03%
CHST11	35.90%	-54.02%
C17orf95	184.34%	-54.01%
PSMC6,AC046176.13-1	162.84%	-53.96%
AC073869.1,RAB6A,RAB6C	214.44%	-53.87%
RP11-149B7.4,HIST1H2BN,	21.79%	-53.86%
RFK	51.92%	-53.72%
ZCCHC11	46.20%	-53.70%
PCMT1	131.41%	-53.57%
BLZF1	91.98%	-53.51%
CBX6	13.39%	-53.51%
AK3	67.88%	-53.45%
AKIRIN2	79.40%	-53.40%
GCN1L1	27.48%	-53.35%
HLA-DQB2,HLA-DQB2,HLA-	117.65%	-53.32%

FKBP1B,AC104665.2	13.89%	-53.26%
AC073073.2-2,AL391261.3	109.59%	-53.23%
CCNDBP1	257.69%	-53.23%
KPNA3	64.85%	-53.16%
CPA3	515.88%	-52.99%
CDC42SE2	77.39%	-52.94%
TOR1A	45.18%	-52.93%
LHFPL2	22.37%	-52.83%
PUM1	89.98%	-52.72%
NT5C2	93.85%	-52.69%
C7orf28A,C7orf28B	103.86%	-52.67%
VAPA	284.88%	-52.66%
HOXC11	44.04%	-52.66%
RP5-1055C14.6,TMEM188	291.56%	-52.50%
C1orf63	103.91%	-52.49%
C17orf63	13.42%	-52.38%
RPL13A	46.12%	-52.37%
MID1	36.94%	-52.37%
NRBP2	78.85%	-52.26%
C19orf22	35.12%	-52.17%
RPL26,AC022431.1,AC0788	88.14%	-52.12%
FAM76B	23.11%	-52.11%
DPYSL2	84.38%	-52.01%
SEC14L1	36.32%	-51.95%
HSPE1,UBE2D2,CRTC3,CDH	88.34%	-51.89%
CASP4	116.80%	-51.85%
PCBP1	46.08%	-51.81%
HLA-B,HLA-B,HLA-B,HLA-B,	18.83%	-51.64%
SNORA24	129.77%	-51.63%
AFF1	259.28%	-51.53%
COQ4	87.01%	-51.53%
CRYL1	45.75%	-51.50%
FTS,AC010342.5	44.30%	-51.47%
NAP1L5	903.28%	-51.47%
HLCS	55.77%	-51.46%
DNAJC14	47.72%	-51.46%
C9orf9	12.50%	-51.23%
MAN2A1	297.82%	-51.15%
ZNF403	32.29%	-51.07%
SPG3A	218.98%	-51.06%
GPR98	196.43%	-51.00%
SLFN12	161.37%	-50.74%
SQLE	1359.69%	-50.72%
PRCP	664.71%	-50.66%
AC010300.8,ZNF91,AC024	206.56%	-50.55%
LARS	11.27%	-50.55%
HOXB6	88.30%	-50.42%

CMPK1	155.65%	-50.39%
PLAGL2	62.49%	-50.38%
DPY19L1	297.03%	-50.37%
LCP1	89.27%	-50.35%
ZNF330	67.36%	-50.33%
RP11-686D16.2,RPL5P6,RP	99.25%	-50.31%
SRXN1,AL121758.24-1	262.85%	-50.30%
DHX9	16.10%	-50.25%
FNBP4	165.32%	-50.16%
RAC1	68.21%	-50.15%
U52111.12,AF279873.4,AC	359.09%	-49.99%
PABPC3,PDS5A,PABPCP5	256.55%	-49.92%
ADAR	48.02%	-49.90%
DLG5	35.96%	-49.87%
EXOC2	111.72%	-49.83%
KIAA0528	22.20%	-49.79%
TSPYL2	45.47%	-49.76%
COPA	143.72%	-49.76%
ADNP2	221.28%	-49.73%
SLC20A1	187.14%	-49.65%
RPL10A,AC120036.5-2,RPL	21.33%	-49.59%
POLR3G	100.18%	-49.54%
C10orf4	24.63%	-49.53%
IRAK3	16.45%	-49.48%
DSTN	130.70%	-49.43%
ETS2	55.37%	-49.23%
HERPUD2	18.34%	-49.22%
NDUFC1	50.03%	-49.22%
AC083841.9,C8orf55	20.70%	-49.18%
ATF3	87.84%	-49.15%
RP11-156G14.1,ZFAND6	67.39%	-49.11%
GBF1	28.90%	-49.10%
TIMM17A	151.73%	-49.09%
C3orf23	84.13%	-49.09%
XPO4	13.90%	-49.08%
NOVA2	56.56%	-49.08%
CBLB	24.38%	-49.06%
AKR7A2	12.57%	-48.98%
AL162407.14	46.30%	-48.97%
ANKRD50	148.00%	-48.92%
RPL23A,RPL23AP38,HSD17	65.42%	-48.82%
RNF125	88.06%	-48.80%
RPS13P2	79.98%	-48.74%
AC092070.2-2,NDUFV2	229.70%	-48.68%
RPS6	33.25%	-48.67%
EIF4EBP2	41.54%	-48.59%
AURKA	30.68%	-48.51%

NDUFAB1	132.67%	-48.49%
ETFA	382.08%	-48.47%
NIPA2	57.34%	-48.45%
PPAPDC1B	144.33%	-48.43%
AC106862.1,FAM115B	62.20%	-48.42%
PEX13	446.46%	-48.24%
EPRS	323.60%	-48.24%
PARG	171.58%	-48.22%
SPTLC2	48.75%	-48.18%
C17orf58	505.47%	-48.13%
AC004066.1-2,EEF1A1,EEF1	79.14%	-48.12%
RBM23	78.48%	-48.11%
IMPAD1	173.20%	-48.11%
RBM3	451.00%	-48.09%
TRAM1L1	80.18%	-48.08%
BLOC1S2	27.62%	-48.07%
MAPK9	191.79%	-48.01%
CD59	21.48%	-47.91%
EEF1E1,AC104651.1	406.71%	-47.89%
STXBP1	91.78%	-47.89%
C9orf5	55.25%	-47.88%
PECI	58.99%	-47.84%
PEX13	209.45%	-47.75%
COPS2	75.71%	-47.64%
KCNH4	34.04%	-47.62%
C1orf25	29.02%	-47.57%
LYRM7	100.30%	-47.50%
AC012467.9-1	699.15%	-47.50%
RP11-700P18.1	231.31%	-47.46%
HABP4	67.27%	-47.42%
TFB1M	80.87%	-47.33%
RIOK3	75.29%	-47.33%
PCNX	172.12%	-47.27%
PER2	774.55%	-47.09%
CPNE1	106.15%	-47.01%
AC005332.1	79.89%	-46.98%
C17orf71	105.59%	-46.97%
ANKRD10	378.73%	-46.90%
SLC12A6	237.83%	-46.77%
DHX29	66.99%	-46.71%
ZNF217	45.29%	-46.62%
EIF1B	40.47%	-46.61%
ADI1	52.47%	-46.59%
POGK	63.94%	-46.54%
AFG3L2	18.73%	-46.44%
AL009183.10	161.76%	-46.32%
SCYL2	967.86%	-46.32%

AKAP13	195.53%	-46.29%
DYNLT1	42.28%	-46.21%
DPYD	303.00%	-46.21%
ARPC5	271.32%	-46.14%
ISCU	60.30%	-46.09%
H3F3AP1	30.05%	-46.06%
CNIH4	179.61%	-46.04%
MEMO1,DPY30,AP000689.	187.96%	-45.88%
CLNS1A	40.51%	-45.81%
SMAD2	17.88%	-45.74%
SLC25A13	54.35%	-45.63%
C12orf68	102.91%	-45.63%
COL4A1	331.04%	-45.62%
SUB1,AC069185.7	125.99%	-45.61%
SF3B3	39.33%	-45.59%
WDR26	84.63%	-45.57%
GLO1	363.38%	-45.45%
ITK	83.73%	-45.40%
IRAK2	82.10%	-45.39%
SERBP1	53.62%	-45.34%
GSTA4	104.04%	-45.33%
RAB21	33.56%	-45.20%
CBX5	43.15%	-45.13%
RBL2	21.74%	-45.12%
VPS24	41.46%	-45.12%
FAM120B	14.69%	-45.11%
RNF130	49.69%	-45.08%
ANP32B	25.34%	-45.07%
UCHL1	43.65%	-45.02%
MYL12A	62.76%	-45.00%
EIF2AK3	985.21%	-44.96%
POLG2	16.59%	-44.92%
CDKN3	277.58%	-44.89%
ICMT	26.64%	-44.82%
PUM1	168.06%	-44.81%
NR2C2	18.44%	-44.78%
CYP51A1	136.80%	-44.76%
ZNF583	330.01%	-44.63%
R3HDM1	169.39%	-44.59%
ARFGAP3	192.18%	-44.58%
TMEM106B	135.09%	-44.55%
ITM2B	179.15%	-44.43%
NUPL2	59.52%	-44.35%
RBBP8	454.85%	-44.10%
FOSB	368.70%	-44.10%
AC087499.3,MEIS3P1	147.97%	-43.96%
PLEKHA1	143.82%	-43.95%

UTP11L	79.98%	-43.92%
PMEPA1	76.53%	-43.92%
NDUFB4,AC015726.1	104.62%	-43.82%
RIPX	58.41%	-43.81%
C5orf37	18.30%	-43.81%
MAPK1IP1L	316.71%	-43.79%
ORMDL1	111.87%	-43.70%
COL6A3	41.04%	-43.69%
SERP1	416.30%	-43.63%
GNB4	87.17%	-43.61%
ETF1	453.54%	-43.60%
AC121253.1,RP11-162D16.	12.79%	-43.50%
SV2B	87.24%	-43.29%
RP4-781K5.4	114.65%	-43.28%
NMI	257.39%	-43.24%
RP11-160H22.1	634.86%	-43.23%
ACBD3	198.56%	-43.16%
TRIM24	659.34%	-43.13%
RP11-124L5.7	37.64%	-43.11%
PIWIL4	39.39%	-43.09%
C14orf166	52.71%	-43.05%
ARRDC3	402.39%	-43.04%
HMGN3	385.45%	-43.04%
KANK1	112.93%	-43.04%
ERGIC2	331.99%	-43.02%
VAPB	12.77%	-42.97%
AREGB,AREG	1881.42%	-42.97%
MYLK3	24.60%	-42.96%
FH	165.77%	-42.91%
ATP1B3,AC012498.10-1	1998.65%	-42.79%
C3AR1	166.17%	-42.78%
HACE1	140.28%	-42.75%
ZNF295	159.35%	-42.74%
SNAP29	116.35%	-42.61%
CD83	672.89%	-42.54%
MPP1	190.68%	-42.51%
ATP6V0A2	43.89%	-42.49%
KIAA0101	127.04%	-42.47%
BICC1	17.90%	-42.47%
SLC31A2	37.25%	-42.44%
MDH1	174.62%	-42.32%
EAF2	189.07%	-42.32%
DECR1	57.89%	-42.25%
DNTTIP2	133.64%	-42.20%
NGLY1	308.94%	-42.17%
CLINT1	414.06%	-42.09%
MAP4K3	615.84%	-42.08%

BAT2D1	179.59%	-42.02%
AC018639.8-1	14.86%	-41.99%
AC008443.10	129.53%	-41.99%
NAPG	17.70%	-41.96%
LASS2	34.35%	-41.95%
RP11-115M6.4,MPP1,HMG	106.28%	-41.88%
CCRL2	171.82%	-41.87%
ALDH5A1	348.45%	-41.83%
STX7	19.57%	-41.82%
AC104164.2-2,TMED2	259.70%	-41.82%
KCNAB3	55.62%	-41.79%
RPA1	65.09%	-41.68%
C14orf45	518.95%	-41.67%
FAM113B	11.80%	-41.64%
CBX3	20.09%	-41.62%
DSCR1	329.17%	-41.57%
AC104655.3	55.57%	-41.47%
CDO1	45.70%	-41.46%
LPGAT1	298.90%	-41.38%
TARS	251.00%	-41.22%
BXDC2	127.81%	-41.17%
NFIA	331.36%	-40.99%
COLEC12	333.33%	-40.97%
ARL8B	88.05%	-40.89%
CXCR7	30.94%	-40.84%
CDKN1B	692.55%	-40.80%
RP11-402L1.1,LHX4,CAP1,F	93.68%	-40.79%
C2orf56	49.36%	-40.73%
UBE4B	202.98%	-40.67%
PIK3R1	117.45%	-40.64%
ACAT1	102.86%	-40.44%
CEP192	56.16%	-40.44%
PSMD5	101.49%	-40.39%
FGFR1OP	42.58%	-40.27%
RHOA	100.12%	-40.27%
GFPT1	81.77%	-40.26%
SRP14P1,SRP14	87.74%	-40.21%
IKBKB	22.99%	-40.14%
CCDC53	534.50%	-40.13%
ANUBL1	26.28%	-40.10%
SEPT3	71.11%	-40.09%
ITGAE	57.67%	-40.08%
ALDH3B1	17.83%	-40.01%
AC003003.4	55.27%	-39.95%
LIG3	34.95%	-39.94%
CCDC127	35.98%	-39.92%
PALLD	183.72%	-39.82%

TIPRL	97.45%	-39.82%
AP000926.6-2	46.84%	-39.78%
TMEM97	100.23%	-39.75%
AC112484.8-1	65.69%	-39.75%
FGFRL1	37.30%	-39.72%
ARL3	45.12%	-39.69%
SKIV2L2	43.94%	-39.68%
USP36	96.56%	-39.65%
ZFP91	94.52%	-39.61%
B3GALT1	133.46%	-39.45%
SIPA1L2	194.77%	-39.45%
CCDC6	11.43%	-39.43%
MED17	22.39%	-39.43%
ERMP1	554.56%	-39.43%
IQCG	50.38%	-39.42%
AC005412.8,CLIC2,TWF1	30.27%	-39.41%
RPIA	72.01%	-39.36%
TCP10L	46.73%	-39.30%
BTG3	241.23%	-39.25%
HDGF,RP4-765F13.3	43.62%	-39.24%
SLC10A7	54.86%	-39.24%
ELF2	37.09%	-39.23%
IKZF5	223.39%	-39.15%
CALM1	144.77%	-39.12%
ENDOD1	227.33%	-39.08%
NCRNA00152,AC068491.1	44.81%	-39.08%
TFRC	186.61%	-39.06%
ERN1	43.48%	-39.02%
DHRS7	433.25%	-38.99%
BSN	55.60%	-38.97%
CLK1	769.52%	-38.93%
AL136531.16	103.70%	-38.91%
LDOC1L	27.56%	-38.90%
ZNF207	63.32%	-38.88%
C6orf89	65.18%	-38.81%
KLHL28	762.71%	-38.77%
TFDP1	194.34%	-38.75%
GCA	87.55%	-38.72%
ELOVL5	36.79%	-38.71%
ST3GAL6	1255.43%	-38.71%
SUCLG2	158.82%	-38.68%
DBI	13.70%	-38.67%
AC008073.5	51.79%	-38.66%
WDR48	22.27%	-38.57%
UBE2A	225.53%	-38.51%
PSMA2	154.11%	-38.48%
RNMT	70.08%	-38.39%

CNOT2	235.68%	-38.27%
NP	104.11%	-38.22%
PSMD10	299.48%	-38.20%
FNTB	139.25%	-38.13%
DPP4	26.76%	-38.06%
USO1	53.41%	-38.02%
MARS2,AC011997.1	192.73%	-38.01%
LANCL1	195.10%	-37.99%
CHI3L1	43.65%	-37.89%
AL022345.4,EIF3EIP	84.47%	-37.85%
XPO1	97.75%	-37.77%
SLC39A10	78.68%	-37.76%
CELSR2	109.53%	-37.71%
C11orf10	49.95%	-37.67%
RP11-379J5.2	105.16%	-37.67%
GLTPD1	57.84%	-37.64%
UTP14C	26.11%	-37.59%
CD9	75.23%	-37.58%
USP34	67.94%	-37.55%
NKTR	34.86%	-37.51%
GTF2H1,AC090771.4-1,AC0	35.23%	-37.50%
LAMB1	93.46%	-37.32%
DDX5	400.41%	-37.24%
IL6	329.22%	-37.22%
TUBB2A	281.10%	-37.20%
RP11-212D3.3,RP11-212D3	100.72%	-37.19%
AGRN	14.35%	-37.18%
MRFAP1	71.41%	-37.16%
SMYD2	14.72%	-37.14%
CCDC109B,CCDC13,AC073	511.05%	-37.06%
RPS16P10	66.93%	-37.06%
DYNC1H1	15.05%	-37.04%
GLCCI1	75.63%	-37.03%
INHBA,AC005027.3	692.74%	-36.94%
C3orf14	120.57%	-36.89%
DYNC2H1	79.23%	-36.84%
PRKCZ	17.95%	-36.80%
CPPED1	142.78%	-36.80%
ZNF117	39.22%	-36.75%
BTAF1	1017.36%	-36.75%
MRPS22	27.88%	-36.72%
TLN2	40.65%	-36.71%
SLC38A1	108.53%	-36.70%
FNBP1L	463.82%	-36.70%
TMEM109	16.16%	-36.67%
ZFP36L1	24.20%	-36.65%
CMAS	43.42%	-36.65%

GGCT,AC005154.6	52.81%	-36.57%
VPS29	103.63%	-36.52%
BTK	12.27%	-36.50%
LYPLAL1	624.76%	-36.49%
RP9P,RP9	76.06%	-36.47%
IGFALS	40.55%	-36.39%
LDOC1	42.32%	-36.39%
RRAGA	58.31%	-36.32%
RPS23	132.85%	-36.17%
KIAA1462	395.73%	-36.12%
GDAP2	74.71%	-35.99%
MCPH1	27.63%	-35.98%
GPATCH2	624.78%	-35.96%
RABGGTB	23.53%	-35.95%
AC024082.3,DERL2	148.32%	-35.95%
ME1	85.83%	-35.91%
CMAS	68.63%	-35.88%
TMEM66	87.75%	-35.85%
CASP6	178.36%	-35.84%
RPGRIP1L	67.99%	-35.74%
PSMC2	56.02%	-35.72%
NRBF2	40.22%	-35.70%
DDX24	179.27%	-35.67%
USP38	225.25%	-35.62%
PRPF39	236.67%	-35.53%
AC133919.3-2,AC002055.4	93.67%	-35.46%
TLE1	12.74%	-35.42%
AC005301.5	73.11%	-35.42%
HERC1	37.03%	-35.38%
AC012607.8	28.67%	-35.34%
CCL5	20.73%	-35.29%
GNG2	57800.00%	-35.23%
LEO1	295.00%	-35.22%
PFAS	22.02%	-35.17%
EIF4G3	47.98%	-35.14%
IMPA1	304.30%	-35.11%
KDELR2,DAGLB	95.07%	-35.10%
ZNF410	73.07%	-35.07%
TFCP2	22.78%	-35.06%
VHL	65.95%	-35.05%
RHBDF2	30.75%	-35.02%
PPP1CC	162.77%	-34.98%
ITPKB	61.86%	-34.96%
RPL36AL	11.07%	-34.92%
GNPDA1	81.46%	-34.80%
PSMD1	60.41%	-34.72%
BRWD1	32.43%	-34.70%

FAM162A	85.29%	-34.68%
DUSP8	50.02%	-34.67%
IDI1	166.88%	-34.65%
MARCH7	56.27%	-34.64%
SNX4	228.72%	-34.63%
APLP2	16.53%	-34.63%
C6orf62	247.44%	-34.63%
C1orf128	59.60%	-34.54%
HARS	431.98%	-34.54%
RP11-367H5.8,RP11-543B1	31.58%	-34.53%
PCID2	40.25%	-34.37%
C15orf15,TTC37,RP11-746I	48.74%	-34.29%
AC012100.1	113.39%	-34.27%
TNFRSF21	55.64%	-34.25%
MAP1B	117.10%	-34.25%
ARPC2	53.74%	-34.22%
GPBP1L1	54.10%	-34.22%
ARHGEF10	18.44%	-34.12%
PHKB	123.90%	-34.03%
FDFT1	12.57%	-33.95%
NAP1L1	189.09%	-33.90%
ENPEP	160.55%	-33.80%
SLC38A3	20.69%	-33.80%
NCAPD2	75.82%	-33.77%
IFNB1	15.36%	-33.70%
C1orf198	54.43%	-33.70%
ACSM3	33.16%	-33.66%
LYAR	274.09%	-33.66%
CDC123	16.72%	-33.66%
PNRC2,AL390877.1,BX511(	193.01%	-33.52%
GNA13	502.90%	-33.47%
BTN3A2	107.97%	-33.40%
SLC29A1	126.12%	-33.31%
CREB1	154.87%	-33.29%
ODC1	102.16%	-33.28%
CANX	132.35%	-33.25%
CASK	55.61%	-33.23%
RAB3GAP1	78.60%	-33.15%
YLPM1	32.22%	-33.14%
VPS4B	25.28%	-33.11%
MRPL15	120.97%	-33.05%
KIAA1128	365.87%	-33.02%
ALDH1A1	364.58%	-32.98%
IL18R1,IL1RL1	660.52%	-32.95%
CENPE	109.93%	-32.77%
AP006216.9	278.13%	-32.76%
PMPCB	74.65%	-32.66%

PDHA1	55.75%	-32.61%
TMEM38B	42.39%	-32.61%
AC073073.2-2,AL391261.3·	138.89%	-32.56%
MOBKL1A	31.92%	-32.52%
TLR7	144.91%	-32.51%
RPL26P12	69.80%	-32.39%
AC139769.1,COMMD1	23.50%	-32.36%
CYB5B	60.44%	-32.34%
NSL1	142.65%	-32.31%
RP5-872K7.2	46.06%	-32.31%
COPB2	164.90%	-32.28%
TSPAN6	22.28%	-32.25%
AC110814.2	42.87%	-32.17%
GSPT2	21.66%	-32.15%
NAGA	64.17%	-32.14%
ATXN10	48.33%	-32.12%
UCK2	46.07%	-32.12%
DCUN1D4	120.51%	-32.07%
HYLS1	41.97%	-32.03%
TOB2	492.94%	-32.02%
SLC35B1	38.49%	-31.97%
PLCL1	22.75%	-31.95%
ZNF776	48.74%	-31.92%
TUBB,TUBB,TUBB,TUBB,TU	12.54%	-31.89%
AC004490.1,LSM7	19.05%	-31.87%
VAMP7	322.41%	-31.85%
PPFIA1	240.00%	-31.83%
RP11-220D10.1,RP4-778K6	49.19%	-31.83%
PLEKHC1	221.43%	-31.82%
CHN2	74.00%	-31.80%
KLHL28	103.15%	-31.78%
LPIN1	247.75%	-31.77%
AL139093.11	46.14%	-31.73%
MEIS2	129.74%	-31.69%
VCL	38.63%	-31.66%
RPS6KC1	63.95%	-31.64%
BMPR1B	24.46%	-31.61%
ZFAND1	23.85%	-31.59%
SCP2	334.52%	-31.58%
GNE	41.38%	-31.50%
SEC11L3	171.60%	-31.47%
CREB1	66.79%	-31.46%
SS18	57.77%	-31.44%
C14orf162	53.12%	-31.43%
MKRN2	111.95%	-31.39%
MGST3	286.13%	-31.38%
MKLN1	124.73%	-31.30%

CGGBP1	173.18%	-31.27%
SLC22A17	20.99%	-31.26%
HP	200.00%	-31.23%
BRPF3	60.43%	-31.20%
PPARA	23.86%	-31.12%
RNF11	126.01%	-31.10%
COMMD1	31.91%	-31.09%
AC019084.9,FAM62B	715.65%	-31.02%
SFRS2B	73.31%	-30.99%
TP53BP2	1211.69%	-30.99%
TM2D2	28.39%	-30.93%
DLC1	234.76%	-30.90%
MAPRE1	90.09%	-30.90%
PSMD7	112.27%	-30.86%
NPIP,AC126755.3-1,AC137	13.39%	-30.86%
LAMC1	165.37%	-30.83%
C1orf69	88.55%	-30.83%
RHBDD1	40.98%	-30.81%
ARHGEF3	197.46%	-30.79%
SLA	16.04%	-30.78%
YARS2	122.97%	-30.75%
RP11-490G2.1	1760.53%	-30.69%
C6orf49,TOMM6	14.03%	-30.66%
EVC	40.18%	-30.62%
AC019016.7,CSNK1A1,AC0	282.69%	-30.50%
RHEB,FAM35B2,RP11-575L	181.81%	-30.46%
JAZF1	203.79%	-30.39%
RAD51L1	96.74%	-30.39%
LIF	158.04%	-30.35%
KIAA0355	22.20%	-30.27%
LIN52	173.85%	-30.27%
SKAP1	198.53%	-30.25%
CDS2	28.79%	-30.21%
AC009362.2,MKLN1,AL049	13.43%	-30.20%
C17orf91	566.27%	-30.20%
DOPEY1	178.45%	-30.19%
ACP1,RP11-301G21.1	55.69%	-30.12%
NPL	19.26%	-30.07%
TRIM39,TRIM39,TRIM39,TI	36.18%	-30.06%
SLC6A8	16.17%	-30.01%
AC083899.3,ANAPC1	17.20%	-29.97%
COX7	44.94%	-29.93%
CCT2	130.90%	-29.93%
CHSY1	99.90%	-29.89%
CHPF	21.64%	-29.87%
GLT25D2	29.35%	-29.80%
APEX1	91.02%	-29.79%

MFSD1	244.39%	-29.74%
UBE2H	119.77%	-29.63%
AMY2B,AMYP1	164.53%	-29.55%
C4orf14	44.64%	-29.47%
LYRM1	39.76%	-29.47%
ZYX	23.06%	-29.41%
NTS	382.43%	-29.40%
ASH2L	21.48%	-29.37%
EXOSC6	18.52%	-29.33%
LRIG1	87.53%	-29.33%
MAP3K7IP3	95.97%	-29.31%
HARS2	51.07%	-29.27%
SMARCC1	270.93%	-29.24%
BMP2K	123.99%	-29.22%
CHMP5	22.87%	-29.16%
PSMA5	96.04%	-29.14%
EIF5A2	62.72%	-29.14%
ALPK1	126.52%	-29.07%
PABPC3,PABPCP5	108.45%	-29.03%
VCL	51.21%	-28.99%
SNX3	266.39%	-28.99%
ZNF14	32.39%	-28.98%
PDGFRA	400.37%	-28.90%
EIF4A3	65.23%	-28.71%
TNF,TNF,TNF,TNF,TNF,TNF,	82.44%	-28.69%
PI4KA,KB-1183D5.9,E2F6	39.18%	-28.64%
SPRYD4	25.46%	-28.64%
OTUD6A	58.31%	-28.63%
NR2F1	20.86%	-28.61%
AC009090.12	37.01%	-28.59%
RP1-232L22__B.1,GK	1077.61%	-28.58%
CHGB	178.02%	-28.58%
ATP6V1H	122.08%	-28.57%
IGSF22	48.03%	-28.44%
NECAP1	324.83%	-28.44%
ADCY7	376.58%	-28.42%
CCL2	343.68%	-28.40%
IDH1	195.08%	-28.37%
BACH1	1164.23%	-28.32%
ZNF225,ZNF230	440.06%	-28.30%
MARS	144.37%	-28.28%
CASP2	70.39%	-28.19%
PHACTR4	35.63%	-28.17%
AC025177.5	37.17%	-28.15%
MYLIP	51.69%	-28.14%
HEXIM1	224.24%	-28.08%
DNM3	42.73%	-28.07%

DENND5B	96.54%	-28.01%
ARHGAP9	23.76%	-27.98%
AC139337.5-1,PROS1	147.39%	-27.86%
ENC1	341.20%	-27.85%
RAD23B	103.60%	-27.81%
FGR	31.62%	-27.79%
COQ10B	35.76%	-27.77%
SLC33A1	181.30%	-27.76%
GRHPR	24.81%	-27.74%
PANK2	88.01%	-27.68%
MYO6	10.30%	-27.63%
TXNRD1	498.14%	-27.62%
PDPR	24.23%	-27.62%
C11orf41	16.32%	-27.52%
HNRNPU	19.89%	-27.50%
UHRF1BP1L	43.89%	-27.47%
RRN3	38.30%	-27.44%
SUV420H1	10.75%	-27.39%
TRPS1	111.63%	-27.37%
PTPRC	154.86%	-27.34%
DFNA5	55.32%	-27.27%
C11orf54	119.69%	-27.26%
TSC1	90.11%	-27.20%
NFYC	42.98%	-27.17%
MESDC1	627.81%	-27.15%
BZW2	25.63%	-27.14%
CAPZA1	67.15%	-27.11%
RP11-307E17.2,VDAC1	210.35%	-27.04%
TPK1	277.60%	-27.03%
MED8	76.10%	-26.94%
PANK3	30.13%	-26.92%
RNF149	329.59%	-26.92%
KDM5A	164.85%	-26.89%
JAGN1	200.86%	-26.87%
TMEM126A	375.89%	-26.87%
KRT75	31.21%	-26.78%
HIAT1	83.68%	-26.74%
UGCGL2	92.09%	-26.69%
ANXA3	101.92%	-26.67%
PLEKHA8,PLEKHA9	13.83%	-26.65%
ZCCHC9	154.58%	-26.61%
PREP	27.50%	-26.59%
NCOA3	90.11%	-26.54%
ZC3H12A,AC005237.2	47.47%	-26.52%
FAAH	26.85%	-26.46%
AC145285.2-2,AC092375.4	82.40%	-26.41%
KCTD7,RP4-756H11.3	190.11%	-26.40%

TIMM8B	33.60%	-26.36%
DENND1A	65.68%	-26.36%
CDKN2C	47.91%	-26.22%
ANGPTL1	32.18%	-26.22%
CD1B	37.60%	-26.12%
DLEU1	75.75%	-26.09%
AC009108.10	62.79%	-25.86%
ATG4A	85.52%	-25.83%
TPR	137.97%	-25.79%
SOCS6	134.80%	-25.76%
OTOR	87.99%	-25.75%
GPR182	26.18%	-25.59%
PLEKHB2	41.68%	-25.56%
PTPRB	372.56%	-25.56%
BPGM	75.22%	-25.55%
TMEM159	34.67%	-25.53%
CNTLN	28.45%	-25.49%
KCNJ1	24.45%	-25.44%
DCDC1,RP11-235D19.3,CYC	241.88%	-25.42%
RP11-35L17.2	84.25%	-25.36%
AC078819.24-1,AC012085.	119.26%	-25.35%
CALB2	127.01%	-25.33%
MOXD1	65.00%	-25.32%
NCSTN	52.78%	-25.31%
FUCA1	202.91%	-25.30%
SLC35A3	148.84%	-25.29%
SYT15	71.71%	-25.29%
CAMSAP1L1	32.44%	-25.26%
FAM91A1	975.00%	-25.25%
CAB39	40.97%	-25.25%
KLHL18	234.78%	-25.24%
hsa-mir-23a,hsa-mir-27a,hs	18.21%	-25.19%
PRKAG1	90.69%	-25.16%
PEX7	66.41%	-25.12%
HSP90AB1,HSP90AB3P	171.64%	-25.10%
ZFYVE1	23.59%	-24.96%
ATP10A	79.38%	-24.96%
PODXL	26.33%	-24.92%
HADHA	41.61%	-24.90%
UNC5CL	15.15%	-24.87%
NUDT4P1	160.08%	-24.81%
PAPD4	19.85%	-24.77%
SRGN	109.98%	-24.77%
PRKCI	58.94%	-24.72%
ACADSB	27.10%	-24.72%
NDRG1	24.61%	-24.64%
MALAT1	217.75%	-24.64%

STAMBP	40.96%	-24.61%
DR1	160.53%	-24.57%
SNORD58B	79.82%	-24.56%
OSGEP	109.86%	-24.48%
BAG1	85.46%	-24.47%
PGRMC1	190.75%	-24.46%
PREPL	32.42%	-24.41%
NUDT4P1	16.69%	-24.41%
RNF38	97.10%	-24.36%
RILPL2	105.49%	-24.33%
PHF20L1	81.45%	-24.31%
ABI3BP	14.18%	-24.25%
HSD17B4	98.48%	-24.20%
DENND1A	26.59%	-24.19%
AP005668.2	16.99%	-24.13%
QPCT	164.43%	-24.12%
ACSL4	428.78%	-24.11%
PSAT1	78.14%	-24.05%
MAP1LC3B	39.36%	-24.01%
WDR47	663.56%	-23.97%
ADSS	17.65%	-23.90%
NCDN	13.44%	-23.89%
PCSK9	13.25%	-23.84%
GOLGA7	46.69%	-23.83%
FBN2	240.80%	-23.80%
ZNF576	46.64%	-23.75%
AC138940.3-2,RP1-9B16.2,	57.39%	-23.67%
PRPF38A,RP11-390B4.4	148.13%	-23.67%
PPIL5	169.97%	-23.62%
PRRT1,PRRT1,PRRT1,PRRT1	30.89%	-23.60%
HNRNPF	25.89%	-23.59%
JUP	48.83%	-23.59%
MCTS1	91.45%	-23.53%
MAML1	35.35%	-23.52%
STK24	114.13%	-23.50%
MASTL	33.51%	-23.49%
C20orf4	53.21%	-23.41%
C1orf9	1229.69%	-23.38%
PLEKHG1,RP1-44A20.4,PDC	75.18%	-23.38%
FCHSD2	89.17%	-23.35%
CTDSPL	36.05%	-23.29%
CLEC4G	68.17%	-23.26%
FCER1A	112.97%	-23.26%
SAMD8	38.29%	-23.14%
ADAMTS14	53.68%	-23.07%
SNORD58B,SNORD58	156.24%	-23.04%
UBE3C	42.40%	-23.01%

HMGN1,AC091544.11-2,AC	134.85%	-22.96%
PCBD1	27.28%	-22.93%
RNF39,RNF39,RNF39,RNF3	51.48%	-22.91%
BCL2L13	61.84%	-22.90%
C2orf15	24.19%	-22.82%
ARHGAP21,RP11-296E7.1	80.82%	-22.81%
PAFAH1B2	37.77%	-22.72%
HEY1	604.28%	-22.63%
BLMH	23.13%	-22.50%
NDUFA6	69.04%	-22.50%
PMCHL1,PMCHL2	94.82%	-22.46%
TMEM9B	139.58%	-22.45%
LIM2	39.87%	-22.40%
NDEL1	256.53%	-22.40%
GOLGA8B	89.91%	-22.40%
SMC6	63.97%	-22.39%
KIF17	19.48%	-22.36%
RPL15	355.77%	-22.36%
C2orf76	309.44%	-22.28%
MGAT4B	29.48%	-22.28%
PEX6	98.71%	-22.25%
C20orf23	168.23%	-22.23%
BACE2	40.93%	-22.23%
C9orf163	54.95%	-22.22%
AC021937.1,EXT1	678.79%	-22.18%
TTC39B	46.38%	-22.15%
C6orf138	11.71%	-22.13%
FCER1G	84.90%	-22.10%
USMG5P1,USMG5	34.94%	-22.07%
KCNQ3	38.01%	-22.06%
LYPD1	36.18%	-21.97%
SMOC1	13.89%	-21.95%
LCMT1	110.07%	-21.94%
VPS24	199.04%	-21.93%
FZD4	39.96%	-21.92%
C2orf30	359.58%	-21.91%
STX4	85.15%	-21.91%
AC010328.4,ARPC1A	120.33%	-21.88%
ANKRD42	424.21%	-21.82%
STT3B	274.64%	-21.79%
FBXO11	310.99%	-21.78%
CRYZ,RP11-17E13.3	469.89%	-21.78%
DNAH14	56.27%	-21.75%
GPNMB	333.52%	-21.75%
SNTB1	34.73%	-21.74%
KIAA0430	117.21%	-21.74%
POLR2K	189.47%	-21.71%

ARHGEF6	17.50%	-21.66%
WNT2	42.97%	-21.65%
C5orf51	87.18%	-21.64%
PHLDA2	66.69%	-21.61%
SNX27	14.15%	-21.59%
DLL3	60.64%	-21.58%
GLCE	445.83%	-21.55%
EYA3	226.62%	-21.47%
EIF3H	595.35%	-21.46%
MDFIC	37.40%	-21.41%
TTF1	16.81%	-21.40%
ZRANB1	155.61%	-21.39%
SAMM50,PNPLA3	43.93%	-21.39%
ACAT1	592.81%	-21.35%
RP11-33N11.1,HNRNPD	33.69%	-21.24%
CEBPD	15.57%	-21.20%
AC012379.7	87.97%	-21.19%
AQP9	118.68%	-21.16%
BAZ1B	87.10%	-21.14%
ALDH1A3	62.60%	-21.13%
AGPAT4	60.98%	-21.11%
ERH	72.10%	-21.10%
CCL2	736.59%	-21.08%
PIGA	1180.04%	-21.01%
TINF2	27.89%	-20.92%
CCHCR1,CCHCR1,CCHCR1,C	11.45%	-20.90%
ST6GAL1	93.19%	-20.86%
EXOSC7	14.28%	-20.81%
MAP4K4	131.14%	-20.79%
BANP	36.33%	-20.78%
ALS2CR4	99.75%	-20.76%
TRIO	145.13%	-20.76%
PSMA2	87.22%	-20.75%
C1orf87	48.76%	-20.74%
GOLT1B	228.86%	-20.73%
SPN,QPRT	228.57%	-20.72%
TBK1	178.86%	-20.72%
OSBP	22.07%	-20.57%
GFI1B	38.65%	-20.56%
FUSIP1,BX511012.5-2	115.35%	-20.54%
SMOX	88.23%	-20.53%
INSIG2	130.79%	-20.51%
BHLHE22	24.83%	-20.50%
EXT1	238.82%	-20.49%
DDN	51.01%	-20.47%
MAST2	17.19%	-20.46%
HADHB	77.95%	-20.46%

MSH2	90.94%	-20.44%
PLDN	188.31%	-20.40%
EHBP1	135.67%	-20.39%
SERPINA5	23.60%	-20.33%
MID2	22.64%	-20.33%
AC132812.9,KPNA2	93.83%	-20.32%
ATP6V0D1	36.59%	-20.26%
COL4A2	37.48%	-20.26%
AC025181.8-1,MTMR12	67.96%	-20.23%
C4orf18	64.69%	-20.21%
PDE1B	42.78%	-20.17%
CD99	22.91%	-20.12%
PUM2,RP9P,RP9	41.67%	-20.03%
MRPL3	10.43%	-20.02%
DUSP16	102.37%	-20.02%

Values represent mast cell genes upregulated by at least 10% by FceRI stimulation that were inhibited >20% by TGA (sorted most inhibited to least inhibited in column D)

Gene_symbol	% Increase (-) to (+)	% Inhibition by TGA
LECT1	10245.25%	98.86%
PTBP2	1538.29%	98.49%
ABCG5	4480.00%	96.94%
KLF13	58.57%	96.06%
NIT1	1913.64%	94.70%
THOC4	77.17%	87.22%
IRX4	1767.86%	86.42%
FNDC3A	748.05%	85.60%
ARF1	28.31%	84.89%
RP4-604K5.1	1332.50%	84.82%
FOXJ2	183.01%	83.95%
CLASP1	22.70%	83.56%
MARVELD3	270.87%	83.40%
MELK	52.26%	83.30%
ZMAT3	115.35%	82.98%
PM20D2	70.42%	82.15%
KNDC1	65.24%	81.69%
N4BP2L1	53.96%	81.14%
OTUB1	62.69%	78.96%
GOLPH3	371.97%	78.87%
NPAS2	36.06%	78.80%
SLC3A2	77.56%	78.56%
IFI6	319.76%	76.98%
MAP2K5	91.53%	75.51%
TNFSF14	1125.00%	75.34%
MTMR15	133.72%	75.29%
CALU	476.10%	75.17%
RTN3	32.37%	73.23%
CSE1L	99.60%	73.15%
TNFAIP1	196.99%	73.11%
NAPB	110.92%	73.08%
SNIP1	117.59%	72.96%
SLC9A9	145.38%	72.95%
PLP2	147.23%	72.91%
MIER3	213.03%	72.58%
NPTX2	146.01%	72.56%
PXDN	151.01%	72.54%
CYTH1	12.20%	72.40%
TLR3	76.29%	72.08%
THOC4	78.89%	71.95%
ARF6	268.59%	71.88%
RBM3	451.00%	71.87%
TRAF6	204.92%	71.18%

USP38	225.25%	70.93%
STAT3	483.13%	70.83%
PFKFB3	298.08%	70.46%
MAGEH1	161.65%	70.44%
ADAMTS5	397.98%	70.18%
SOX9	468.97%	70.13%
NR4A1	603.37%	70.13%
LEMD3	88.78%	70.12%
NUP160	255.74%	69.98%
CPT1C	34.95%	69.94%
OLFML2B	56.64%	69.93%
SERINC1	560.00%	69.89%
GATAD2A	176.25%	69.77%
TWIST1	101.18%	69.71%
TXNRD1	498.14%	69.37%
EDARADD	265.03%	69.16%
CRKRS	133.63%	69.15%
HBP1	193.98%	69.14%
MBLAC1	359.97%	69.00%
UBE2J2	33.89%	68.67%
TJP1	147.46%	68.51%
PCDHB5	85.99%	68.49%
AQP11	879.49%	68.38%
SDF2	127.93%	68.35%
CACHD1	157.89%	68.31%
GLCE	445.83%	68.12%
NUP160	201.39%	68.08%
S1PR1	598.38%	67.94%
ATHL1	173.76%	67.81%
TPK1	24.39%	67.74%
IMPA2	85.91%	67.72%
DOCK1	309.76%	67.72%
WAC	65.30%	67.56%
CXCR4	275.45%	67.42%
ADIPOR2	183.85%	67.42%
COPS6	38.10%	67.33%
PPP2R2D	30.02%	67.23%
SORBS1	457.37%	67.14%
AMFR	243.25%	67.13%
PSMB2	155.99%	66.87%
SYPL1	412.50%	66.87%
UBE2N	52.50%	66.86%
PAX2	293.59%	66.67%
CEBPG	66.29%	66.67%
GPR65	1126.04%	66.62%
EIF3S10	104.65%	66.47%
SEC22B	331.00%	66.37%

D4ST1	102.51%	66.35%
SYNPO	20.17%	66.33%
ARF3	85.71%	66.30%
LMNB1	549.14%	66.29%
ADAM10	116.41%	66.17%
HNRNPAB	57.60%	65.96%
YBX2	62.84%	65.94%
ELOVL5	477.24%	65.93%
IDO1	36.59%	65.84%
SBNO2	31.31%	65.70%
C1orf106	213.44%	65.69%
PRPSAP1	53.42%	65.67%
PDCD4	144.41%	65.58%
ARSG	38.72%	65.46%
MYO1B	283.26%	65.39%
TULP4	77.90%	65.38%
LMLN	967.24%	65.11%
G3BP2	330.60%	64.95%
LAMA2	217.39%	64.66%
SAMD9	38.56%	64.32%
NEO1	98.96%	64.29%
WDR40A	49.36%	64.15%
TRA2A	247.37%	64.08%
MIDN	49.82%	64.06%
ATF3	87.84%	64.06%
IREB2	366.37%	63.93%
TMEM45A	313.26%	63.91%
IL2	70.76%	63.90%
FOXQ1	122.27%	63.00%
TM9SF3	76.87%	62.99%
PSD3	257.27%	62.78%
RABGAP1	23.28%	62.77%
MFAP3	1343.53%	62.75%
TAF1L	18.80%	62.73%
POLS	417.04%	62.51%
AGXT2L2	65.83%	62.48%
PDHB	98.93%	62.44%
NPTN	199.33%	62.44%
PPME1	107.42%	62.41%
C22orf13	18.45%	62.36%
FBN2	240.80%	62.34%
MAP4K3	615.84%	62.08%
GLRXP,GLRX	160.55%	62.01%
LANCL1	195.10%	62.01%
GPNMB	333.52%	61.89%
FGL2	6499.13%	61.87%
CALR3,MED26	55.71%	61.61%

GLCCI1	75.63%	61.53%
ADAMTS4	103.68%	61.50%
HIRA	12.69%	61.49%
PHTF2	86.72%	61.46%
ATP1B1	409.91%	61.42%
RASGRP3	580.24%	61.42%
CCNJ	46.57%	61.41%
SLC35F5	1298.00%	61.37%
TMEM123	260.02%	61.36%
ZRANB1	155.61%	61.33%
CEPT1	126.82%	61.27%
M6PR	100.52%	61.19%
SCD	320.95%	61.18%
MSX2	50.79%	61.15%
DHRS7	457.25%	61.10%
RP11-2J18.1,ARID1B,C19orf6	57.09%	60.99%
NDUFA11	131.59%	60.98%
DPM3	10.38%	60.97%
DHRS11	165.45%	60.95%
GAS8	25.59%	60.94%
HLA-DRB3,HLA-DRB1,DASS-2	29.60%	60.92%
YWHAG	218.48%	60.91%
AC010896.3	60.98%	60.86%
FZD7	410.99%	60.83%
IQGAP2	131.36%	60.76%
USP15	651.21%	60.66%
MMP2	184.16%	60.61%
AC025181.8-1,MTMR12	67.96%	60.60%
CLU	39.90%	60.57%
ADCY6	37.95%	60.56%
UBB	65.68%	60.48%
RP11-478H16.1	160.45%	60.46%
MEX3D	24.45%	60.45%
PAQR5	497.59%	60.41%
TPR	137.97%	60.36%
PFKM	42.04%	60.35%
AC004836.2	34.75%	60.34%
TUBB3	11.52%	60.33%
PARP1	20.28%	60.32%
UPB1	167.67%	60.27%
NUP107	55.88%	60.17%
C1orf49	182.07%	60.12%
C4orf32	704.78%	60.11%
NEK6	113.93%	60.09%
DENND1A	65.68%	60.04%
HLA-DRB1,HLA-DRB1,HLA-DR	13.09%	59.98%
OTUD4	148.53%	59.84%

CDKN1B	692.55%	59.72%
ADAM17	203.40%	59.68%
TEX2	52.47%	59.67%
MNAT1	410.57%	59.62%
TMEM205	14.42%	59.56%
GOLPH3	313.80%	59.53%
ZCCHC14	69.37%	59.51%
PRDX2	312.67%	59.43%
C3AR1	166.17%	59.36%
TMEM99	126.74%	59.35%
CFH	307.64%	59.34%
SFRP2	99.09%	59.34%
RP11-332P22.1	173.00%	59.33%
SCNN1G	312.29%	59.28%
KLHL20	78.09%	59.23%
AP002959.2,BMPR1A	327.62%	59.19%
MAP2K3	130.43%	59.14%
ITM2C	34.82%	59.12%
SLC25A2	10.50%	59.07%
RBPSUH	41.96%	59.03%
FAP	213.84%	59.02%
GORAB	320.35%	58.92%
CEBPB	49.09%	58.82%
ERLIN1	14.93%	58.74%
TARDBP	62.50%	58.67%
C2orf27,CR382287.7-1,RP11-	35.98%	58.61%
PAFAH1B1	44.93%	58.40%
EIF2B5,FAM131A	165.68%	58.29%
MRPL36,AC016700.4	16.96%	58.29%
GRPEL1	22.63%	58.16%
KIF2A	195.88%	58.13%
HDAC4	46.12%	58.13%
RALBP1	48.99%	58.13%
PPP2R5C	138.12%	58.09%
CLTA	23.35%	57.93%
RPN1	46.99%	57.90%
AC004066.1-2,EEF1A1,EEF1A	124.31%	57.89%
SOX4	288.34%	57.88%
NDUFA4	70.48%	57.86%
LACTB	12.57%	57.81%
BAG3	88.38%	57.79%
ATL3,RP5-1053E7.1,SPCS2	115.11%	57.78%
TNFRSF14	67.26%	57.77%
OAZ2	24.50%	57.75%
HLA-E,HLA-E,HLA-E,HLA-E	54.51%	57.71%
CREB1	154.87%	57.65%
ZNF644	56.17%	57.65%

SLC26A2	923.86%	57.63%
DAD1	250.60%	57.62%
TOB2	492.94%	57.58%
RAB31	47.87%	57.52%
DHRS11	70.43%	57.50%
BMS1,AC129778.3,RP11-15J1	32.45%	57.49%
AOX1	82.24%	57.46%
ARFGEF1	32.43%	57.35%
PFKFB3	174.52%	57.31%
LPIN1	305.76%	57.29%
TCERG1L	100.80%	57.23%
PPIB	79.79%	57.16%
PEX5	42.38%	57.12%
LBH	239.95%	57.11%
CTSC	568.07%	57.08%
ARGLU1	122.90%	57.02%
SAR1A	375.81%	57.00%
PLA2G2C	31.22%	56.98%
GCA	87.55%	56.97%
RXRG	40.39%	56.95%
FMO5	157.62%	56.94%
ZFYVE26	114.52%	56.91%
USP8P,USP8P,USP8P,USP8P,I	1081.57%	56.86%
PJA1	138.28%	56.83%
PHTF1	685.58%	56.81%
MOBKL1A	31.92%	56.73%
RPE	42.57%	56.71%
PTX3	140.36%	56.67%
PDGFC	357.60%	56.55%
TMEM14C	176.01%	56.49%
TSSK3	12.34%	56.46%
EMP1	344.44%	56.46%
GIGYF2,C2orf82	50.65%	56.44%
PIK3R1	117.45%	56.43%
BBS4	167.56%	56.40%
SLC46A3	585.71%	56.40%
PPFIBP1	24.72%	56.39%
GRID1	287.58%	56.36%
KIAA1045	89.18%	56.33%
AC093162.3,SNRPE	179.29%	56.32%
CTGLF10P,AGAP7,AGAP6,BM	140.47%	56.31%
ENOX2	393.90%	56.28%
KNG1	93.66%	56.24%
SRPK1	107.49%	56.20%
AREGB,AREG	1881.42%	56.19%
BOLA3	182.64%	56.18%
XIAP	253.60%	56.09%

SEMA4D	430.04%	56.09%
POU3F3	73.70%	56.02%
SCYL2	967.86%	56.02%
C1orf212	76.49%	56.00%
BACH1	1164.23%	55.99%
ZDHHC17	239.91%	55.93%
DKK1	178.16%	55.92%
CA13	45.08%	55.92%
LRBA	209.02%	55.91%
AC009967.6	185.06%	55.85%
HSD17B2	51.03%	55.84%
NFIX	18.58%	55.83%
PAPPA	359.84%	55.80%
CDK2	128.34%	55.74%
RPS6KB1,AC013274.3	121.37%	55.69%
SLC22A4	206.49%	55.69%
DPY30	139.97%	55.68%
NIPA1	112.55%	55.66%
AC019084.9,FAM62B	715.65%	55.65%
KIAA0090	35.51%	55.63%
NRARP	2171.84%	55.60%
HSP90B3P,HSP90B1	336.44%	55.53%
LSM2,LSM2,LSM2,LSM2,LSM	89.32%	55.53%
HMGCR	784.86%	55.52%
KCNJ8	329.08%	55.49%
DERA	202.12%	55.48%
HTATIP2	125.16%	55.44%
RNF38	97.10%	55.40%
CCT2	130.90%	55.39%
INTS3	55.85%	55.35%
CD53	248.92%	55.32%
DDN	51.01%	55.25%
GNL1,GNL1,GNL1,GNL1,GNL1	98.79%	55.14%
CYLD	200.29%	55.13%
RP11-557H15.2	772.47%	55.03%
ALOX5AP	156.71%	55.02%
FAM98A	93.78%	55.02%
RP6-213H19.1	194.82%	54.98%
RP11-178A10.1	116.53%	54.93%
BTAF1	1017.36%	54.93%
ZNF317	402.13%	54.87%
PODXL	26.33%	54.84%
AC073479.1	186.02%	54.81%
NKRF	203.89%	54.79%
AC025449.6-1	48.79%	54.77%
CYCS	242.16%	54.76%
EXT1	57.89%	54.73%

NCOA3	90.11%	54.71%
NSL1	142.65%	54.63%
ANKLE2	155.21%	54.60%
APH1B	592.96%	54.57%
SLC8A1	89.40%	54.56%
NUPL1	843.58%	54.52%
PHLPPL	180.84%	54.49%
TBK1	178.86%	54.48%
AC010328.4,ARPC1A	120.33%	54.46%
MCTP2	126.66%	54.45%
SLC35B4	132.27%	54.40%
SUCLG2	258.60%	54.37%
WDR47	663.56%	54.27%
NLE1	77.46%	54.21%
RP3-510D11.1	63.42%	54.21%
RNF4,RP11-423F24.3	37.51%	54.19%
ADCY9	235.74%	54.04%
AAMP	23.86%	54.04%
CHST15	19.88%	54.03%
PTPRC	154.86%	54.02%
L3MBTL3	403.36%	54.00%
SMC6	104.00%	53.95%
PDIA3P,PDIA3	14.75%	53.88%
TFRC	186.61%	53.84%
C5orf32	104.07%	53.83%
AHSA2	21.48%	53.83%
CYP27C1	135.47%	53.80%
CUTA,CUTA	20.40%	53.79%
MED13L	48.83%	53.77%
SCPEP1	14.81%	53.77%
SFRS2	149.33%	53.73%
ANKIB1	110.96%	53.67%
ROCK2	165.22%	53.59%
ACTBL2,PLEKHB2,POTEE,A26	112.99%	53.54%
FAT3	68.38%	53.44%
KNDC1	93.84%	53.43%
KIAA0319	46.11%	53.41%
ADCY7	376.58%	53.40%
PLA2G4E	69.02%	53.40%
TMCO1	25.57%	53.39%
FILIP1	159.79%	53.37%
PIWIL4	39.39%	53.31%
COLEC12	333.33%	53.30%
PFKP	21.86%	53.30%
CTNNA1	183.88%	53.28%
PARL	193.62%	53.26%
FUSIP1,BX511012.5-2	1217.70%	53.26%

ZRANB2	110.15%	53.24%
ATP5B	184.45%	53.22%
C21orf51	193.03%	53.16%
XPO1	97.75%	53.12%
TCF4	67.42%	53.09%
BRP44	105.44%	53.08%
RNF8	25.52%	53.07%
LNP1	44.84%	53.04%
BBS9	36.54%	53.01%
RNF26	13.07%	52.97%
ALG12	59.24%	52.94%
INSIG2	130.79%	52.91%
HNMT	105.96%	52.89%
KLF4	150.50%	52.83%
IL22RA2	233.67%	52.82%
ATP1B1	160.07%	52.81%
ANGPT1	115.36%	52.79%
NUP205	381.45%	52.78%
ABCC13	49.59%	52.78%
RAB11A	141.36%	52.76%
GNB4	87.17%	52.76%
ZNF33A	68.67%	52.69%
ME1	85.83%	52.60%
GOT1	87.86%	52.52%
RBM5	100.50%	52.52%
MAMLD1	322.30%	52.50%
ATP6V1H	122.08%	52.46%
HS3ST1	52.04%	52.45%
RP11-14C22.4,SVIL	251.56%	52.44%
BIRC3	78.04%	52.43%
KLHL18	234.78%	52.35%
TMEM218	91.32%	52.34%
PPAP2B	260.86%	52.33%
C1orf25	29.02%	52.29%
SREBF2	17.19%	52.28%
PIM2	44.00%	52.26%
B4GALT5	42.64%	52.25%
STOM	63.27%	52.24%
SMARCA2	237.49%	52.23%
PCDH18	77.27%	52.17%
SYDE1	37.98%	52.14%
SLC25A3	675.84%	52.12%
LRRC8B	1228.05%	52.10%
SPG3A	218.98%	52.05%
RMND5A	88.26%	52.02%
FBN1	140.85%	52.01%
FBXO15	80.49%	51.99%

ADSS	17.65%	51.96%
CCDC104	46.24%	51.91%
LYPD3	246.87%	51.89%
HNRNPR,RP11-177H22.2	321.82%	51.87%
ACBD3	198.56%	51.86%
SPINT2	105.74%	51.85%
MLX	19.73%	51.83%
KRTAP19-6	55.04%	51.82%
IMMP2L	145.09%	51.82%
C3orf10	30.02%	51.79%
TWIST2	19.95%	51.78%
TLR7	144.91%	51.77%
HIC1	34.51%	51.77%
TCP11L1	218.57%	51.75%
AC006158.8	50.22%	51.74%
HAS1	99.18%	51.70%
SPTBN1	34.06%	51.68%
MED13	182.77%	51.67%
ZNF598	69.58%	51.64%
FAM89B	32.49%	51.64%
ATPGD1	89.95%	51.63%
IGDCC4	21.77%	51.61%
SP140L	46.87%	51.53%
SCRN1	116.34%	51.49%
C15orf24	94.32%	51.44%
ANK3	29.46%	51.39%
CCNY	186.16%	51.37%
GNB1	235.23%	51.37%
GDAP1	47.56%	51.35%
MURC	81.85%	51.35%
RP11-490G2.1	1760.53%	51.20%
DPT	15.74%	51.19%
KIF1C	84.56%	51.19%
EGFR	540.31%	51.15%
ACAT1	102.86%	51.11%
IQCG	50.38%	51.10%
SLC10A3	91.89%	51.08%
C3orf10	26.65%	51.06%
RP11-289I10.2,RP11-775L16.	42.66%	51.02%
RP11-552E20.3	113.87%	51.00%
RAB11FIP2	26.03%	50.98%
LYN	292.47%	50.96%
FGFR1	19.38%	50.92%
NUDT4P1	16.69%	50.92%
TDG	39.80%	50.92%
GLB1,TMPPE	327.70%	50.90%

GIGYF1	69.12%	50.89%
C14orf4	81.35%	50.89%
PAQR3	285.53%	50.88%
ELL2,RP11-404O13.2	1615.15%	50.86%
ZAK	444.47%	50.84%
SFMBT2	81.49%	50.78%
RP11-445H22.4	17.21%	50.76%
CYP46A1	68.91%	50.75%
SEC14L1	36.32%	50.71%
NOG	78.26%	50.70%
EFNB2	1347.68%	50.65%
APLP2	138.92%	50.65%
SLC25A20	151.97%	50.64%
ODC1	102.16%	50.62%
AGXT2L2	15.41%	50.60%
GPRC5D	111.43%	50.58%
VPS4A	15.48%	50.54%
NUBP1	70.88%	50.54%
IFI6	55.53%	50.53%
PTGER3	224.02%	50.51%
SECISBP2	111.81%	50.51%
LMO2	32.62%	50.50%
RNF169	28.32%	50.50%
RORA	43.05%	50.49%
NEUROG2	64.12%	50.48%
HEATR5B	727.43%	50.48%
FAM45B,FAM45A	83.31%	50.46%
FUCA1	202.91%	50.39%
ZMPSTE24	579.55%	50.39%
SH3GLB2	39.79%	50.37%
CHST11	15.11%	50.36%
MSN	85.86%	50.36%
NOP16	32.27%	50.35%
OXR1	39.96%	50.34%
VPS35	21.30%	50.33%
TRMT6	43.48%	50.30%
CORO2B	97.39%	50.28%
SCP2	334.52%	50.28%
DCTN6	341.00%	50.26%
YSK4	74.96%	50.18%
TM2D3	32.83%	50.17%
SLC25A25	114.98%	50.10%
CDC42EP3	521.95%	50.07%
DLG5	35.96%	50.06%
EIF1AD	30.98%	50.06%
UTP23	18.42%	50.02%
TMEM158	14.19%	50.00%

SMC6	63.97%	49.98%
C5orf33	142.10%	49.98%
SEC24C	25.23%	49.98%
TIGD7	116.90%	49.98%
NGFRAP1	35.76%	49.97%
ITGAE	57.67%	49.93%
TAX1BP3	25.02%	49.83%
PEA15	74.68%	49.82%
PDX1	112.99%	49.80%
C19orf52	13.33%	49.76%
VPS4B	25.28%	49.76%
AP2A2	86.58%	49.75%
IQCA	19.76%	49.71%
DKK3	28.91%	49.68%
AC003003.4	55.27%	49.68%
PCSK7	17.35%	49.63%
TMEM30A,COX7A2	24.85%	49.60%
CNIH3	51.32%	49.55%
STAT3	242.07%	49.54%
HSD11B2	26.67%	49.52%
NTF3	15.58%	49.44%
ZNF571	541.72%	49.43%
CHMP5	22.87%	49.41%
HNRNPF	25.89%	49.40%
CXCL1	12.59%	49.38%
AC146944.1-4,AC146944.1-5	25.81%	49.33%
C9orf5	55.25%	49.29%
GNA13	502.90%	49.29%
RP11-390F4.10	59.03%	49.28%
MAGED1	62.66%	49.25%
GATA3	47.34%	49.23%
ANAPC11	27.19%	49.19%
RP11-35L17.2	84.25%	49.15%
ACTR3	245.28%	49.10%
AC008013.8-1	39.83%	49.05%
RP11-134K13.2,SMS,AC1149	84.13%	49.05%
AC145098.2-2	13.21%	49.04%
ILDR1	89.25%	49.02%
KPNA2	93.21%	48.98%
AJAP1	39.30%	48.96%
CHST1	33.91%	48.96%
TMEM85	25.31%	48.95%
CLIC6	108.43%	48.91%
TMEM39B	131.93%	48.85%
VPS24	41.46%	48.85%
AC135457.2-3	54.47%	48.85%
MEGF8	28.91%	48.85%

IL13	251.73%	48.79%
ANKRD58	55.90%	48.79%
MYH9	48.06%	48.78%
ELF4	34.61%	48.77%
DCTN3	85.88%	48.76%
C12orf75	296.35%	48.75%
PAPD4	19.85%	48.75%
AC019016.7,CSNK1A1,AC021	282.69%	48.73%
TESK2	117.58%	48.73%
MGAT4A	357.99%	48.71%
ICMT	26.64%	48.71%
SSTR5	63.31%	48.70%
AC127391.3,AL590623.16-1,(	54.74%	48.69%
EIF4EBP2	99.24%	48.66%
CCNI	161.64%	48.66%
ADRA1B	117.59%	48.65%
ENPP2	912.63%	48.65%
BECN1	105.12%	48.62%
SYT11	23.76%	48.53%
AC125807.9,AL355773.4-1	25.56%	48.50%
ALAS1	16.56%	48.49%
RP11-156G14.1,ZFAND6	67.39%	48.47%
ASB8	164.70%	48.47%
ZFP91	94.52%	48.42%
AMAC1,POLR2A,AMAC1L3	34.30%	48.41%
HTR6	52.62%	48.37%
C11orf83	102.81%	48.34%
GALNT3	110.81%	48.33%
FNIP2	356.94%	48.31%
CD2AP	440.44%	48.30%
TAC1	5354.29%	48.30%
PDGFRL	69.84%	48.29%
NHEDC2	155.88%	48.28%
RAB36	62.31%	48.21%
TBC1D9B	10.17%	48.19%
SLC38A1	108.53%	48.18%
C7orf65	62.10%	48.18%
HNRNPUL1	51.62%	48.17%
RNF43	37.47%	48.14%
EPB41L3	34.90%	48.14%
UBXN6	69.04%	48.11%
RGS10	24.06%	48.06%
PEF1	27.20%	48.05%
ATP6V1F	44.45%	48.03%
LCE1C,LCE1A,LCE1B,LCE1F,LC	223.26%	48.02%
C14orf142	457.74%	48.01%
NUBP2	20.93%	47.97%

PPAT	390.08%	47.89%
AL139020.5	54.88%	47.87%
SMEK1	94.43%	47.86%
CHST3	67.54%	47.85%
CSTF1	13.47%	47.80%
PRDM7	13.44%	47.78%
RNF5,RNF5,RNF5,RNF5,RNF5	117.48%	47.72%
LRMP	405.75%	47.72%
OSTF1	117.17%	47.71%
ACOX1	225.82%	47.71%
NTS	382.43%	47.70%
C1orf89	106.10%	47.70%
SLC16A6,AC037487.12	77.84%	47.63%
GORASP2	92.79%	47.60%
COL5A1	41.61%	47.58%
GPATCH2	624.78%	47.56%
EIF3S1	169.31%	47.54%
CDK4	14.37%	47.50%
KLRG1	253.40%	47.50%
USE1	24.11%	47.48%
NANOS1	183.42%	47.45%
AC084018.1	72.53%	47.42%
MARS2,AC011997.1	192.73%	47.42%
HACE1	140.28%	47.40%
MFSD8	211.70%	47.38%
CDADC1	36.55%	47.36%
AC007365.1	48.69%	47.30%
MPV17	41.50%	47.29%
BBS2	16.50%	47.29%
AC104164.2-2,TMED2	259.70%	47.27%
KCNC3	30.10%	47.25%
TRPS1	111.63%	47.25%
MYH9	90.60%	47.20%
KIAA1217	32.78%	47.19%
LONP2	88.58%	47.17%
ELF2	37.09%	47.15%
RTN4	68.82%	47.14%
LGR6	75.62%	47.12%
SLC4A8	130.97%	47.11%
STX7	19.57%	47.07%
FAM91A1	975.00%	47.07%
KHDRBS1	52.17%	47.04%
LNX1	90.55%	47.04%
BTBD3	97.77%	47.02%
LPGAT1	298.90%	47.00%
ARID5B	1443.94%	46.97%
C11orf73,RP11-654E17.2,PTC	101.95%	46.96%

LSS,AP001468.1	16.76%	46.96%
KDM5A	164.85%	46.95%
TP53INP1	10.84%	46.94%
MAP3K5	36.99%	46.90%
USP16	98.57%	46.90%
SCN8A	83.92%	46.89%
RERE	125.76%	46.89%
CD99	40.67%	46.89%
RP11-568G11.3,AC079789.2	279.58%	46.87%
RBM26	116.44%	46.82%
CDC42EP1	33.74%	46.80%
RP1-232L22__B.1,GK	1077.61%	46.77%
CA7	42.42%	46.76%
ISL1	32.30%	46.75%
TSPAN17	18.58%	46.75%
DUSP16	102.37%	46.73%
YWHAB	35.57%	46.73%
AC078819.24-1,AC012085.4,I	111.37%	46.63%
CUGBP1	42.40%	46.61%
CFLP2,CFL1	18.00%	46.61%
snoU13,ZNF275	122.78%	46.59%
INHBA,AC005027.3	692.74%	46.58%
GNLY	46.30%	46.57%
KREMEN2	37.37%	46.56%
AC083899.3,ANAPC1	17.20%	46.55%
HHAT	61.92%	46.54%
FAM22A,FAM22E,FAM22D,FA	29.86%	46.53%
RBM17	10.12%	46.53%
AOF2	69.15%	46.53%
DCTD	26.34%	46.52%
C20orf23	168.23%	46.50%
C10orf65	21.43%	46.49%
ERMP1	554.56%	46.46%
TET3	182.16%	46.42%
MEIS1	40.81%	46.41%
C14orf132	49.53%	46.41%
CTGF	137.05%	46.41%
GCC1	23.74%	46.40%
PRSS36	334.82%	46.36%
ZNF449	63.79%	46.36%
INSL6	61.14%	46.36%
ANO10	81.88%	46.34%
TPO	30.58%	46.28%
RP11-343J24.1	108.98%	46.28%
PREPL	168.17%	46.26%
AC007750.5	93.52%	46.24%
C20orf24	119.07%	46.21%

PIN4	33.56%	46.21%
MARCH11	33.01%	46.20%
MARS	144.37%	46.17%
ACAT1	592.81%	46.15%
CCDC127	35.98%	46.13%
MBOAT1	233.17%	46.11%
BTG3	241.23%	46.10%
USP9X	74.74%	46.09%
CSPG2	246.80%	46.08%
KLHL15	180.58%	46.02%
GJA1	220.23%	46.02%
SLC6A8	16.17%	45.98%
CWC15	20.10%	45.97%
PTPN11	286.51%	45.97%
TM9SF1	116.55%	45.92%
FAM105A	303.73%	45.91%
FAM57A	160.95%	45.88%
SLC16A10	116.25%	45.88%
UHRF1BP1	192.42%	45.87%
SLC25A28	14.34%	45.86%
ZWINT	106.00%	45.85%
DPM2	73.59%	45.84%
KIAA1467	78.86%	45.84%
SEC61G	38.85%	45.84%
SUMO3	99.09%	45.80%
FUBP3	77.98%	45.77%
NEURL1B	32.06%	45.77%
CAB39	40.97%	45.72%
SLC38A10	19.51%	45.72%
ESNA1	115.86%	45.71%
BHLHE40	155.33%	45.69%
PGM1	44.39%	45.69%
ACTBL3	203.92%	45.69%
STEAP2	235.99%	45.65%
WDR48	22.27%	45.63%
ZEB2	154.86%	45.63%
PCID2	40.25%	45.60%
AP1S2	44.76%	45.60%
GPR172A	40.17%	45.58%
ST3GAL6	1255.43%	45.58%
TACR1	205.88%	45.57%
TLX1	69.83%	45.56%
RP3-487J7.2	15.55%	45.55%
CDKL1	48.38%	45.54%
RPL15	355.77%	45.53%
BPHL	56.61%	45.49%
SMYD4	42.27%	45.44%

PARG	171.58%	45.43%
SMAD6	13.70%	45.38%
WDR59	34.60%	45.36%
KIAA1128	365.87%	45.35%
REPS2	92.22%	45.33%
IGSF2	182.26%	45.33%
MT1A,MT1X	168.16%	45.32%
CFHR5	34.99%	45.32%
C17orf45	102.27%	45.31%
SEPT10	256.37%	45.29%
CCNT2	193.04%	45.28%
PLA2G16	34.38%	45.26%
C17orf101	66.43%	45.24%
PDZD2	409.31%	45.23%
HS6ST1	94.07%	45.23%
SRD5A1	17.88%	45.22%
CD82	82.51%	45.16%
SLC7A7	45.89%	45.16%
DFNA5	55.32%	45.13%
ETHE1	20.96%	45.11%
LIN7C	129.48%	45.09%
CHMP2A	38.96%	45.09%
MFSD1	244.39%	44.99%
INPP1	204.11%	44.98%
FBXL7	32.43%	44.98%
IMPA1	304.30%	44.95%
C19orf15	62.40%	44.91%
OTUD3	51.69%	44.91%
PITPNB	38.20%	44.90%
SV2B	87.24%	44.89%
BRD1	45.08%	44.88%
APP	229.30%	44.88%
CEP55	73.89%	44.87%
CLK2	16.35%	44.86%
MUC5AC,MUC5B	45.49%	44.83%
SUMO3	50.41%	44.82%
CYFIP1	66.61%	44.82%
STAU1	62.34%	44.81%
RAI2	90.35%	44.81%
AL356123.21-2	94.76%	44.81%
GPR37L1	46.15%	44.80%
TMEM81	12.08%	44.80%
AC008060.7	39.19%	44.79%
UBR7	63.47%	44.79%
FZD1	73.60%	44.77%
PRDX5	21.07%	44.77%
IL28A,IL28B	69.20%	44.76%

FAM18B2	54.70%	44.76%
THRB,AC112217.2	22.00%	44.75%
ENO2	50.15%	44.74%
TWIST2	13.32%	44.70%
ST3GAL5	20.12%	44.63%
ZNF217	45.29%	44.61%
NDUFAF2	110.20%	44.59%
RP11-700P18.1	231.31%	44.59%
TM2D3	64.32%	44.57%
AC110814.2	42.87%	44.54%
CHD6	191.65%	44.53%
MCRS1	14.30%	44.53%
LRRC8C	106.56%	44.49%
IRGQ	15.79%	44.48%
VTI1A	88.96%	44.48%
CHD9	46.97%	44.42%
CANX	132.35%	44.42%
RHO	92.42%	44.40%
FGF22	18.24%	44.39%
NUPL2	59.52%	44.35%
DMD	393.94%	44.34%
SPDYC	30.04%	44.31%
NRBF2	40.22%	44.22%
SELL	292.31%	44.21%
EXO1	42.12%	44.21%
PSENEN	28.47%	44.17%
PATL1	23.62%	44.17%
MSH2	90.94%	44.16%
CRYBB2	91.22%	44.11%
C4orf42	33.33%	44.09%
TMBIM6	137.28%	44.06%
MARCH3	340.64%	44.05%
MESDC2	22.76%	44.02%
CRYZ,RP11-17E13.3	469.89%	44.01%
GSTK1	27.53%	44.00%
CSTF2T	13.12%	44.00%
MESDC1	627.81%	44.00%
VAMP7	322.41%	43.98%
ING2	88.04%	43.98%
TNFSF4	1075.16%	43.95%
CLDN1	33.03%	43.92%
KIF5B	99.92%	43.91%
KLC3	113.21%	43.90%
CGN	40.21%	43.88%
CEBPD	15.57%	43.88%
AP000354.4	49.26%	43.87%
NCBP2	18.77%	43.86%

LRRC40	36.19%	43.86%
VIPR2	22.44%	43.80%
SEPT2	71.39%	43.80%
EIF6	17.89%	43.77%
C5orf51	87.18%	43.72%
OSBP	22.07%	43.72%
AC078802.14	23.27%	43.71%
EPRS	323.60%	43.70%
GPRC5C	34.63%	43.69%
CTD-2330K9.3	47.14%	43.69%
ADAMTS16	65.26%	43.65%
BTBD10	184.72%	43.64%
POLR2C	106.30%	43.63%
TLL2	189.39%	43.63%
RAB5C	29.92%	43.61%
PIGP	290.03%	43.57%
TBX3	150.23%	43.56%
ANKRD45	133.16%	43.56%
H1FNT	33.86%	43.56%
LAMC1	165.37%	43.56%
ANKRD50	148.00%	43.55%
TMEM100	65.07%	43.53%
GABRA4	51.98%	43.52%
CTSZ	46.24%	43.50%
GPIHBP1	106.90%	43.46%
RAD23B	103.60%	43.45%
AP006216.9	278.13%	43.38%
RRP15	80.40%	43.36%
AC015849.2	53.75%	43.34%
SMARCC1	270.93%	43.33%
SDF2	159.86%	43.32%
AC078819.24-1,AC012085.4,I	119.26%	43.30%
VPS45	20.45%	43.30%
RP1-21O18.1	11.42%	43.30%
PSAT1	78.14%	43.29%
MLLT4	115.29%	43.29%
SECISBP2L	88.67%	43.28%
PCBP3	85.71%	43.24%
TMEM38B	42.39%	43.24%
AC093323.3	69.74%	43.21%
NUDT4P1	160.08%	43.19%
LIPH	34.27%	43.18%
AC005154.6	47.40%	43.14%
C1orf128	59.60%	43.13%
RPL39L	24.79%	43.12%
RP11-103C16.2	66.56%	43.11%
DDX50	16.52%	43.09%

CKS1B	23.88%	43.08%
GTF3C4	172.64%	43.08%
CSF3R	61.20%	43.07%
IFT80	43.52%	43.06%
NID1	39.38%	43.02%
EIF5A2	62.72%	43.00%
AC138940.3-2,RP1-9B16.2,M	57.39%	43.00%
POMP	90.03%	42.99%
PARP15	27.69%	42.97%
XYLT2	38.93%	42.97%
C11orf42	53.52%	42.95%
NAT8	161.43%	42.94%
C5orf50	35.47%	42.92%
AC084398.25-1	73.33%	42.91%
KRTCAP2	26.39%	42.91%
RP4-617C6.1	37.65%	42.91%
HTATSF1	29.74%	42.88%
KLK10	76.71%	42.87%
MAGIX	86.67%	42.86%
ZNF587	155.56%	42.83%
TUBB,TUBB,TUBB,TUBB,TUBI	12.54%	42.81%
STON1-GTF2A1L,AC073082.6	62.56%	42.80%
DMRT3	10.45%	42.80%
SFRS9P1,SFRS9	52.17%	42.76%
ARRDC3	402.39%	42.73%
STBD1	171.36%	42.73%
ART3	20.56%	42.72%
YARS2	122.97%	42.70%
CTPS	17.63%	42.70%
HTR5A	65.59%	42.69%
ALG5	33.91%	42.69%
CA5B	66.09%	42.68%
HADHA	41.61%	42.65%
CCNB1	49.35%	42.64%
PCK1	80.23%	42.60%
AFG3L1	55.17%	42.57%
WDR7	209.63%	42.56%
ERH	72.10%	42.56%
ALS2CR4	99.75%	42.55%
C20orf4	53.21%	42.54%
ZNF493	60.67%	42.53%
GFM2	91.53%	42.52%
RP11-307L3.2,AC069236.27	162.49%	42.51%
EVX2	43.31%	42.48%
CAMKV	58.49%	42.47%
RTN4IP1	79.26%	42.47%
ATAD2B	76.66%	42.42%

AFF1	259.28%	42.42%
NCRNA00118	43.23%	42.42%
RP5-981O7.3	473.55%	42.42%
CPSF2	67.56%	42.41%
CRTC1	44.25%	42.40%
ZNF532	111.13%	42.39%
SNW1	23.44%	42.35%
NT5DC3	55.61%	42.34%
PPARG,AC090947.2	185.85%	42.32%
SNORD22,SNORD29,SNORD3	39.59%	42.31%
P4HA2	195.18%	42.28%
KBTBD3	68.43%	42.27%
C6orf108	16.61%	42.27%
ZFP91	208.17%	42.20%
COL4A1	331.04%	42.18%
PNCK	85.10%	42.12%
FAM10A5,LPHN2,AC084033.3	145.11%	42.12%
ZNF330	67.36%	42.09%
FBXL18	61.09%	42.07%
MCPH1	27.63%	42.06%
FOXK2	72.48%	42.02%
CHEK2	20.95%	42.00%
MPV17	51.47%	42.00%
UBE2D3	38.22%	41.97%
BCL6	42.54%	41.97%
CENPA	72.08%	41.97%
PYCR1	75.00%	41.95%
TRAM1L1	80.18%	41.94%
AC093323.3	177.93%	41.94%
MCHR1	12.05%	41.94%
SUMF1	31.90%	41.92%
PLXNA2	57.19%	41.91%
BPGM	75.22%	41.91%
CKAP2	324.45%	41.87%
CCDC50	85.30%	41.87%
PIK3R3	62.54%	41.87%
GGH	129.57%	41.86%
HLA-G,HLA-G,HLA-G,HLA-G,H	43.06%	41.86%
AC009108.10	62.79%	41.86%
TMEM179	117.42%	41.83%
PI4KA,KB-1183D5.12,AP0005	50.07%	41.82%
CTGLF10P,AGAP7,AGAP6,BM	45.64%	41.82%
VPS24	199.04%	41.82%
PRSS35	184.18%	41.79%
PGRMC2	92.46%	41.77%
MAPK1IP1L	316.71%	41.75%
HS6ST3	37.89%	41.72%

RP11-4C20.3	51.45%	41.72%
RP5-1055C14.6,TMEM188	291.56%	41.71%
SLC33A1	181.30%	41.71%
PLCXD2	1017.80%	41.70%
MED29	33.71%	41.70%
SCD5	232.74%	41.67%
C17orf58	505.47%	41.65%
PPAPDC1A	41.20%	41.64%
HADH	30.76%	41.62%
FEZ2	231.23%	41.61%
ID4	172.71%	41.60%
MRPS21	10.04%	41.60%
AC020922.9	121.38%	41.60%
EFHD1	19.83%	41.58%
AASDH	102.30%	41.58%
CD34	42.15%	41.57%
TMEM39A	28.07%	41.55%
RCN1	98.23%	41.54%
DHRS7	433.25%	41.54%
HTR3E	169.76%	41.53%
C15orf26	51.30%	41.49%
CHMP4B	271.09%	41.49%
RP11-513I15.5,RP11-182B22.	73.07%	41.46%
LAPTM4B	80.24%	41.44%
C14orf68	45.53%	41.44%
KRTAP20-2	67.04%	41.44%
SLC12A6	237.83%	41.41%
DPY19L1	297.03%	41.41%
PLDN	188.31%	41.40%
RFX1	14.75%	41.38%
RIMKLA	24.40%	41.33%
WDR44	55.82%	41.33%
RP4-758J18.6	44.24%	41.33%
SPIN2A,SPIN2B	37.68%	41.30%
MRPL3	10.43%	41.28%
DCTN5	112.18%	41.26%
HOXA10	37.46%	41.24%
CCL20	158.09%	41.23%
CORO1C	81.12%	41.19%
PCDH9	50.72%	41.19%
IL13RA2	174.63%	41.17%
LEF1	25.18%	41.17%
SUCLG2	158.82%	41.16%
CDC123	16.72%	41.16%
ZNRF1	18.32%	41.16%
DNAJC4	119.80%	41.15%
COL17A1	101.67%	41.14%

C1orf63	37.76%	41.14%
RP5-1022P6.2	143.83%	41.13%
ZMYND15	35.13%	41.12%
C9orf127	21.76%	41.11%
ZNF268	193.93%	41.11%
CLEC5A	86.78%	41.10%
UBR4	48.50%	41.08%
RP5-1028L10.1	151.88%	41.07%
MR1	30.58%	41.06%
STXBP1	91.78%	41.05%
CAPN7	152.05%	41.03%
DNAJC18	98.23%	41.02%
SERPINA11	107.32%	41.01%
C21orf105	60.06%	41.00%
SNHG5	22.99%	40.99%
NPBWR2	62.66%	40.99%
THBS1	72.35%	40.97%
CTD-2230M5.2,TNPO3	99.31%	40.97%
FPR1	21.41%	40.94%
PNRC2,AL390877.1,BX51101	56.79%	40.92%
GPM6B	50.78%	40.91%
SYK	28.69%	40.90%
MSRB2	44.24%	40.89%
GMPR2	45.46%	40.87%
ETF1	453.54%	40.83%
CYTH2	56.13%	40.83%
CNIH4	179.61%	40.82%
VILL	84.13%	40.81%
TRAF3	44.24%	40.81%
USO1	53.41%	40.81%
RPIA	72.01%	40.80%
AC087499.3,MEIS3P1	147.97%	40.80%
MT1E	39.58%	40.80%
ARAP2	83.28%	40.79%
AMPD2	67.64%	40.77%
C16orf52	98.76%	40.75%
DSCR4	53.02%	40.75%
MPHOSPH8	96.49%	40.74%
BRP44L	307.19%	40.72%
HNRNPA3	194.99%	40.70%
BTK	12.27%	40.68%
DUOXA1	19.06%	40.68%
SYT15	71.71%	40.68%
UBE2G2	111.63%	40.66%
SGPP1	140.00%	40.65%
UTP14C	26.11%	40.65%
SFN	47.69%	40.63%

TYMP	40.94%	40.62%
TRADD	15.64%	40.59%
AMY2B,AMYP1	164.53%	40.58%
ZBP1	19.13%	40.58%
WBSCR17	16.59%	40.57%
LCLAT1	175.55%	40.57%
PLEKHC1	221.43%	40.57%
RWDD2A	104.91%	40.56%
PRCP	664.71%	40.55%
MOXD1	65.00%	40.52%
USP37	89.06%	40.50%
CDC7	273.46%	40.48%
AGPAT3	87.14%	40.47%
RAB43	55.61%	40.47%
TFDP1	194.34%	40.44%
SPN,QPRT	228.57%	40.43%
FREQ	40.48%	40.43%
LAT2	42.83%	40.41%
RP11-69J16.4,ZSWIM5,RP11-	366.28%	40.40%
AC004801.2-1,ATP6V1F	40.20%	40.39%
TBX20	47.30%	40.37%
ANTXRL	43.68%	40.37%
RPL10	36.69%	40.36%
CAT	84.33%	40.34%
ABCG4	64.07%	40.32%
TCTEX1D1	193.70%	40.31%
PIK3R3	57.16%	40.31%
C11orf54	119.69%	40.29%
DUSP1	54.97%	40.25%
MSN	24.24%	40.24%
NDUFB9	63.28%	40.24%
AC105345.3	91.52%	40.21%
LZIC	97.40%	40.18%
AC011998.1,PDE11A,API5L1,.	442.75%	40.18%
DDX1	180.87%	40.17%
KYNU	74.87%	40.15%
IP6K2	94.27%	40.15%
PCMT1	131.41%	40.14%
TMEM225	78.50%	40.09%
TXNL5	36.00%	40.07%
PER3	655.75%	40.07%
ANKRD10	378.73%	40.07%
TSEN2	33.15%	40.04%
SNORD58B	79.82%	40.02%
TRIB3	106.60%	40.02%
DNASE1	47.80%	40.01%
VASH1	97.42%	40.01%

ZNF324	16.07%	40.00%
RP11-87H9.2	38.45%	39.98%
AC138904.3,NPIPL2,AC14528	16.55%	39.97%
7SK	170.56%	39.97%
GLUDP2	68.24%	39.96%
PREP	27.50%	39.95%
FAM22A,FAM22E,FAM22D,F/	15.60%	39.92%
C20orf102	20.76%	39.92%
SFRS9	35.36%	39.90%
HSPA2	89.67%	39.87%
AF186191.6-2,ST3GAL1	92.53%	39.83%
UBOX5,FASTKD5	93.08%	39.82%
GTF2H5	35.03%	39.81%
BRWD1	32.43%	39.78%
C17orf56	11.78%	39.77%
DAB1,HNRNPA1L1	14.55%	39.76%
MOBP	32.53%	39.76%
CRIP2	55.21%	39.75%
C7orf47	32.34%	39.73%
PNRC2,AL390877.1,BX51101	193.01%	39.73%
STAMBP	40.96%	39.73%
MTMR3	13.94%	39.71%
ZDHHC3	41.29%	39.70%
RARS2	59.37%	39.68%
ZNF143	58.47%	39.68%
KLHL6	87.20%	39.65%
OTUD7A	69.27%	39.65%
C9orf110	64.61%	39.65%
SMCR8	299.58%	39.64%
TM2D2	28.39%	39.63%
EIF2B5,ECE2	105.90%	39.63%
TSC1	90.11%	39.60%
RNF149	329.59%	39.59%
TMEM64	161.27%	39.59%
ARL3	45.12%	39.58%
AC006050.3,AC006050.2	57.97%	39.56%
TEX264	48.06%	39.55%
NRIP1	29.56%	39.51%
TTC9	100.35%	39.51%
DPP4	26.76%	39.48%
CCT4	168.65%	39.45%
CSTF2	13.07%	39.45%
PSKH1	23.83%	39.42%
COX7A2	202.34%	39.41%
MAML1	35.35%	39.38%
CPNE7	13.59%	39.38%
REXO2	205.64%	39.37%

MRPL43	56.39%	39.34%
TBCEL	454.49%	39.31%
LGALS3	42.47%	39.30%
RFX5	54.75%	39.30%
RPUSD1	53.63%	39.30%
ZNF37A	29.15%	39.29%
PIGA	1180.04%	39.29%
SETD3	33.24%	39.28%
TCEAL3,TCEAL6	38.15%	39.28%
MRFAP1	20.08%	39.25%
AGPAT4	60.98%	39.24%
FECH	199.12%	39.23%
TM7SF3	96.79%	39.18%
LPP	69.59%	39.18%
ALDH2	32.53%	39.16%
GSH2	28.01%	39.16%
UGP2	56.54%	39.13%
SPRY2	657.65%	39.13%
KIAA0586,RP13-221M14.5,A(	84.39%	39.10%
LRRC51	140.25%	39.09%
GNG4	62.55%	39.09%
SCARF2	10.40%	39.09%
SIGLECP16	47.57%	39.08%
SST	1120.10%	39.08%
BIRC5	91.26%	39.07%
PABPC3,PABPCP5	108.45%	39.05%
MATN1	33.72%	39.04%
PRKAG1	90.69%	39.03%
RGL1	466.14%	39.03%
MUDENG	74.84%	39.03%
AC098823.3	67.54%	39.02%
FAM148B	84.66%	39.02%
C8orf13	87.08%	39.02%
DOT1L	53.42%	39.00%
SLIT1	27.55%	38.98%
RABGGTB	23.53%	38.97%
TMEM209	95.04%	38.94%
PSG5,PSG1	38.41%	38.91%
EEF1E1,AC104651.1	406.71%	38.87%
IL27	133.33%	38.86%
PHF2	73.45%	38.85%
PTDSS1	73.61%	38.85%
MFRP	87.05%	38.84%
UBE2A	225.53%	38.83%
PCCB	95.44%	38.81%
TMEM159	34.67%	38.81%
AMZ2	145.53%	38.79%

ADNP2	221.28%	38.79%
SHC1	61.94%	38.78%
LILRB3	25.55%	38.77%
PEX13	209.45%	38.75%
KCNT1	84.89%	38.73%
MAP4	33.04%	38.71%
NAP1L1	189.09%	38.68%
C22orf29,GNB1L	68.70%	38.67%
HINT2,CNTN4,AC026882.1	31.33%	38.65%
MRPL22	21.16%	38.65%
DNAJC6	58.53%	38.58%
EIF6	18.10%	38.57%
NDRG1	24.61%	38.56%
AC096582.1-1,AC093752.2-2	43.75%	38.54%
LRRC56	32.15%	38.53%
MCRS1	47.02%	38.53%
RP11-33N11.1,HNRNPD	33.69%	38.53%
SOX7	23.47%	38.52%
NKX2-1	26.65%	38.49%
WASF3	536.65%	38.48%
EDEM2	39.01%	38.46%
MGAT3	53.61%	38.43%
CADM3	47.87%	38.41%
FARSA	33.12%	38.35%
CXCR7	30.94%	38.35%
AKR7A2	12.57%	38.34%
PAG1	189.93%	38.31%
CASP3	117.58%	38.29%
STK24	114.13%	38.27%
MAN2A1	297.82%	38.27%
ETV3	333.62%	38.24%
NECAP1	324.83%	38.23%
MIRHG1	731.94%	38.23%
RDM1	113.21%	38.23%
BAT2L	13.27%	38.22%
DNAJB9	1931.26%	38.20%
CLIC4	674.20%	38.19%
CHSY1	99.90%	38.18%
EHBP1	135.67%	38.17%
NFIA	331.36%	38.15%
SLC29A1	126.12%	38.14%
PCGF6,AC073539.3	178.39%	38.12%
NOLC1	102.47%	38.10%
TPBG	387.13%	38.07%
ARPC2	53.74%	38.05%
ATP5C1	79.53%	38.04%
RPL3	42.63%	38.03%

RP11-115M6.4,MPP1,HMGN	106.28%	38.03%
SRP_euk_arch	45.86%	38.02%
GLRX5,RP4-655L22.4	114.01%	38.00%
NPLOC4	76.89%	38.00%
FAM53C	55.88%	38.00%
SRGAP1	71.83%	37.97%
UMPS	42.55%	37.96%
ATP6V1A	155.27%	37.92%
KANK1	112.93%	37.92%
SGSM1	72.46%	37.90%
TRPS1	372.09%	37.89%
AKR1C3	21.89%	37.89%
LAMA1	43.29%	37.86%
KREMEN1	25.36%	37.85%
IFI44L	218.03%	37.82%
ANKRD13B	22.55%	37.81%
PSMD10	299.48%	37.81%
IDS	168.39%	37.80%
ACOT9	24.78%	37.79%
C10orf128	126.89%	37.75%
PBX2,AGER,PBX2,AGER,PBX2	26.58%	37.74%
KDELR2,DAGLB	95.07%	37.72%
CALN1	116.87%	37.72%
RP11-250J16.1	45.49%	37.68%
DPP6	15.94%	37.66%
OBSCN	53.85%	37.64%
C2orf30	359.58%	37.62%
PEX7	66.41%	37.62%
SLFN12	161.37%	37.60%
AC105233.12-3,AF228730.8-	50.13%	37.55%
C12orf5	98.15%	37.54%
FAM103A1,RP3-427A4.2,RPS	46.07%	37.53%
SPCS2,RP5-1053E7.1	198.25%	37.52%
STX11	612.40%	37.52%
PRAMEF1	168.00%	37.50%
FOXK2	76.79%	37.50%
AC006328.8	24.87%	37.48%
PRPF39	236.67%	37.47%
TTC5	57.30%	37.46%
SNRPC	13.53%	37.41%
OTOR	87.99%	37.41%
BX640514.3	71.62%	37.40%
LRP3	30.93%	37.40%
C5orf24	12.23%	37.40%
BARX2	22.87%	37.38%
WDR52	28.07%	37.38%
MYBPC2,SPIB	10.13%	37.35%

RNF2	25.76%	37.34%
XRCC5	163.85%	37.33%
SLC12A2	42.67%	37.28%
PPP1R2,PPP1R2P3	237.45%	37.28%
RP4-545K15.3,ARMCX6	62.96%	37.27%
C11orf79	78.77%	37.26%
BXDC5	161.81%	37.25%
OR10A4	68.84%	37.25%
ABCB11	32.38%	37.23%
PNRC2,AL390877.1,BX51101	59.06%	37.21%
FBXO46	10.72%	37.21%
IDH2	146.72%	37.18%
C1orf107	19.41%	37.17%
ZCCHC9	154.58%	37.16%
RP11-69J16.4,ZSWIM5,OSTC	356.44%	37.15%
AGPAT9	312.12%	37.15%
TSPAN31	66.50%	37.14%
FGF11	91.54%	37.14%
HMGN1,AC091544.11-2,AC0	134.85%	37.14%
NELL2	207.56%	37.14%
MFAP2	64.76%	37.13%
AC005077.11	25.27%	37.11%
PBEF1,NAMPTL	281.84%	37.09%
SRI	176.77%	37.07%
HADHB	77.95%	37.06%
SLC2A10	170.43%	37.03%
RIC8B	60.68%	37.02%
BAT2D1	179.59%	37.02%
CCDC63	71.14%	37.00%
C7orf33	216.57%	37.00%
GPC3	44.38%	36.99%
WDR43	187.84%	36.98%
MXI1	80.34%	36.98%
TP53BP2	1211.69%	36.93%
USP34	67.94%	36.93%
SVIL	26.05%	36.93%
CUGBP1	116.60%	36.93%
C10orf11	83.82%	36.92%
ZNF211	34.23%	36.92%
CMTM7	71.72%	36.89%
RB1	687.10%	36.89%
ERN1	43.48%	36.86%
ACP2	35.39%	36.85%
GPR26	27.50%	36.83%
NDUFA8	61.98%	36.82%
BZW2	25.63%	36.82%
ETV3	169.58%	36.80%

SLC35E4	66.33%	36.80%
ENC1	341.20%	36.79%
C16orf61	71.91%	36.79%
HEY1	604.28%	36.78%
ELOVL3	51.39%	36.76%
SC4MOL	211.86%	36.76%
FOXA2	69.27%	36.76%
CBFB	378.72%	36.75%
GDPD5	35.31%	36.74%
AC005392.13,AC004603.4	23.41%	36.73%
MGST1	243.26%	36.72%
C21orf29,KRTAP10-2	68.40%	36.72%
ZNF22	50.80%	36.71%
DOCK10	96.16%	36.71%
NDUFA7	11.87%	36.69%
AC087269.5	53.82%	36.66%
SRPK2	56.39%	36.64%
DPYD	303.00%	36.64%
C3orf23	84.13%	36.61%
ACCN4	10.33%	36.58%
C11orf49	26.94%	36.57%
FRMD3	58.04%	36.54%
CENPV	86.09%	36.53%
MAFG	95.98%	36.49%
TSHZ3	116.85%	36.48%
MGEA5	93.91%	36.46%
TCP11L1	26.01%	36.46%
RP11-318K12.3	10.62%	36.45%
ATP5F1,AC025287.8-4	30.98%	36.41%
CDC42SE1	113.95%	36.41%
HS3ST3B1	48.02%	36.39%
PPP1CC	162.77%	36.38%
CENPN	83.57%	36.38%
MAP1LC3A	58.58%	36.36%
RBMX2	29.47%	36.34%
C14orf147	192.55%	36.33%
CLINT1	414.06%	36.32%
MDH1	174.62%	36.30%
EIF2B5,AP2M1	30.96%	36.30%
KIAA0355	22.20%	36.29%
CD74	142.80%	36.27%
HIBADH	262.25%	36.25%
RASA1	118.73%	36.25%
DDX54	14.92%	36.24%
LRTM2	26.84%	36.23%
BLVRA	67.13%	36.22%
AUH	160.31%	36.21%

MEI1	22.36%	36.18%
AC018641.6,SLC25A5	61.83%	36.18%
AP005435.2-1,AP006587.1-2,	52.25%	36.14%
ULBP3	10.28%	36.14%
SAE1	33.94%	36.13%
MED15	55.14%	36.13%
EBPL,AC093536.4	19.17%	36.12%
AC093401.4-1,B3GNT1	1209.38%	36.12%
AC005035.2	312.91%	36.11%
CYP4X1	42.21%	36.10%
C12orf33	223.53%	36.08%
MTHFS	77.01%	36.08%
BPHL	68.80%	36.07%
ZNF806,ZNF285B	56.24%	36.07%
PHLDA1	35.31%	36.04%
AC004917.2	542.66%	36.03%
TAX1BP3	18.65%	36.00%
SHMT1	34.20%	35.99%
FRMD6	65.15%	35.98%
FAM44A	43.30%	35.92%
SLC17A4	62.31%	35.91%
LRIG1	87.53%	35.85%
STT3A	89.74%	35.84%
SKIV2L2	43.94%	35.84%
PEX3	36.38%	35.84%
LUM	185.77%	35.82%
ATF7	206.20%	35.82%
PCDHB15	75.06%	35.82%
STCH	104.68%	35.80%
DNAJA2	115.98%	35.75%
RPS27L	72.67%	35.73%
WDR68,KCNH6	52.36%	35.69%
PSMC5	27.70%	35.65%
GS1-309P15.3,RDX	350.00%	35.63%
UBE2H	119.77%	35.63%
ANKS1A	14.47%	35.60%
ZNF295	159.35%	35.57%
CLDN14	66.59%	35.56%
ENOSF1	36.26%	35.55%
GNG12	63.44%	35.55%
NKG7	40.70%	35.54%
ARHGAP9	23.76%	35.53%
C14orf118	136.48%	35.53%
FAM69A	36.29%	35.53%
TMEM66	87.75%	35.51%
PUM1	168.06%	35.47%
TMEM184B	125.02%	35.47%

CDC42SE2	77.39%	35.46%
PSMC2	56.02%	35.42%
TPST1	39.11%	35.40%
SULT1A4,SULT1A3	23.58%	35.39%
ATP2A2	364.29%	35.38%
CYP4F12	35.92%	35.37%
RAC1	68.21%	35.37%
SC5DL	698.42%	35.34%
RNF168	80.15%	35.34%
RAB1A	214.50%	35.34%
RPS6KC1	63.95%	35.30%
C20orf58	22.62%	35.29%
PSMD5	101.49%	35.25%
PSEN1	43.78%	35.23%
ENPEP	160.55%	35.21%
SAE1	50.38%	35.21%
AC138028.1-3	37.18%	35.20%
COPS2	75.71%	35.19%
PDIK1L	39.34%	35.19%
BTBD1	360.44%	35.18%
KLHL5	39.29%	35.17%
TMOD3	162.14%	35.16%
PSME1	50.06%	35.09%
TMEM125	64.92%	35.08%
AC021054.28	106.26%	35.06%
AC034110.1	68.17%	35.06%
WDFY2	61.34%	35.04%
INF2	38.10%	35.04%
SEC23IP	260.10%	35.04%
GALT	31.46%	35.01%
C1orf69	16.99%	35.00%
GLRA4	156.97%	34.98%
C2orf50	28.56%	34.97%
NPAT	80.03%	34.96%
HSP90AB1,HSP90AB3P	171.64%	34.96%
IL4R	109.10%	34.96%
RAX2,C19orf28	25.62%	34.95%
SNX4	228.72%	34.95%
SPC25	80.49%	34.93%
C8orf8	41.68%	34.92%
MTHFS	65.15%	34.91%
SLC35A3	148.84%	34.91%
PLCL1	22.75%	34.88%
ACBD6	16.69%	34.87%
C20orf3	62.19%	34.81%
PPIL5	169.97%	34.80%
DAB1,AC004073.4,AC007272	138.36%	34.79%

SHB	14.02%	34.76%
PLAGL1	330.46%	34.69%
TPRKB	125.65%	34.69%
TMEM97	100.23%	34.66%
RBBP7	58.99%	34.64%
STK19,C4A,STK19,STK19,C4A,	48.49%	34.63%
RNMT	70.08%	34.60%
PITPNM2	276.70%	34.54%
IL8	602.43%	34.53%
C11orf41	16.32%	34.53%
C17orf71	105.59%	34.52%
FUSIP1,BX511012.5-2	115.35%	34.52%
FAM10A5,LPHN2,ST13,FAM1	135.71%	34.52%
TASP1	58.11%	34.51%
SLC6A11	107.72%	34.49%
RP11-172F4.2,TINP1	88.71%	34.48%
HAND1	115.48%	34.43%
BCR	22.86%	34.42%
RPS15A	30.44%	34.42%
TRAPPC4	44.48%	34.41%
SLC36A4	27.65%	34.40%
C7orf52	20.99%	34.40%
AADAT	117.89%	34.40%
C6orf61	82.19%	34.40%
C1QTNF7	134.83%	34.38%
SULT1A1	34.25%	34.38%
LMO7	128.16%	34.38%
H3F3A	31.96%	34.38%
TEC	17.39%	34.36%
RAD9A	168.25%	34.34%
XXbac-BPG34I8.2,AC004957.(	64.38%	34.30%
FH	165.77%	34.30%
CLP1	99.40%	34.30%
ZNF444	20.54%	34.29%
EIF4G3	47.98%	34.29%
SNORD58B,SNORD58	156.24%	34.27%
ZNF337	12.16%	34.27%
DIO3	15.09%	34.26%
EIF2AK3	985.21%	34.20%
PRKDC	390.17%	34.19%
OLAH	85.74%	34.18%
BCL2L13	72.63%	34.17%
ARTS-1	19.17%	34.16%
TOMM40	27.51%	34.16%
RILPL2	105.49%	34.15%
GLOD4	14.88%	34.14%
CUGBP2	96.80%	34.14%

RARS	40.17%	34.10%
DENND5B	96.54%	34.10%
FVT1	11.67%	34.08%
SNAP29	116.35%	34.08%
RP11-416N13.1,MPZL1	42.28%	34.08%
CADM4	22.81%	34.07%
AP1S1	24.02%	34.04%
DNM1P33,DNM1P24	43.94%	34.04%
NDUFB2	17.32%	34.01%
CMAS	43.42%	34.00%
MARCKS	90.09%	34.00%
OPN4	62.10%	34.00%
RP6-159A1.2,RBMX,RP11-39(	309.54%	33.98%
CCT5	226.63%	33.98%
CDH10	16.23%	33.95%
MAP2K5	120.26%	33.95%
COPG	24.52%	33.94%
SLIT3	30.52%	33.92%
ERAS	13.61%	33.91%
AK3	67.88%	33.90%
DDX21	1418.57%	33.87%
KCNQ1	12.54%	33.85%
AP000926.6-2	46.84%	33.84%
PUS7	112.11%	33.83%
EAPP	22.36%	33.80%
MPZL1	65.18%	33.78%
FAM129A	156.22%	33.77%
AMY1A,AMY1C,AMYP1,AMY:	127.32%	33.76%
TEAD3	38.00%	33.76%
UCK2	46.07%	33.75%
DNAJB3,AC114812.5	54.90%	33.74%
PELI1	1550.29%	33.74%
FUT8	71.09%	33.74%
LENG9	89.53%	33.72%
LEFTY1	71.43%	33.72%
TMEM101	22.75%	33.71%
BCL2L13	61.84%	33.69%
ZNF649,ZNF577	22.48%	33.68%
GLO1	363.38%	33.67%
TGFBI	87.85%	33.67%
RPL26L1	28.58%	33.66%
BICC1	66.67%	33.62%
OR2C3	268.10%	33.62%
ASTN1	45.29%	33.59%
ANXA4	131.70%	33.59%
LDOC1L	27.56%	33.57%
SIM2	28.08%	33.56%

PFN1,RP4-560B9.2	60.28%	33.55%
C6orf62	247.44%	33.55%
ZNF576	46.64%	33.54%
FSD1L	16.65%	33.49%
ETNK1	20.16%	33.48%
RAB3GAP1	78.60%	33.48%
RAD54L	41.66%	33.45%
DNAJB6	93.90%	33.45%
ARAP1	23.31%	33.41%
AQP9	118.68%	33.38%
SLC39A1	74.95%	33.34%
NAP1L5	903.28%	33.33%
SIPA1L2	194.77%	33.33%
HSPB11	170.24%	33.31%
KRTAP26-1	14.67%	33.30%
OR3A3	62.55%	33.26%
AC139337.5-1,PROS1	147.39%	33.21%
PLVAP	48.86%	33.21%
PDGFRA	400.37%	33.20%
MAP3K7IP3	95.97%	33.15%
RPL37AP5	61.15%	33.14%
ZFP36L1	230.02%	33.14%
PRKAR1A	99.31%	33.10%
KLK5	25.72%	33.07%
RANBP1,RP11-298C3.2	38.56%	33.03%
C9orf78	45.83%	33.02%
RP6-159A1.2,RBMX,RP11-25	149.49%	33.01%
CASP10	96.90%	32.98%
THAP3	60.25%	32.97%
DPYSL2	84.38%	32.97%
GLRX2	90.47%	32.97%
BACE2	40.93%	32.96%
ZNF238	19.54%	32.95%
LIF	158.04%	32.93%
ACSL4	428.78%	32.90%
C12orf72	45.18%	32.86%
MID1	36.94%	32.86%
COQ7	38.84%	32.85%
ARHGEF16	63.73%	32.85%
DDX24	179.27%	32.82%
SEC61B	26.52%	32.82%
CYP4B1	35.82%	32.79%
DUSP6	1084.00%	32.77%
MRPS28	67.94%	32.75%
IGF1R	64.17%	32.74%
SERPINI1	430.30%	32.73%
RAB2	44.16%	32.73%

RNF32	33.19%	32.72%
SGIP1	204.78%	32.72%
C1orf27	48.10%	32.65%
C21orf32	41.64%	32.64%
PPP6C	93.94%	32.62%
DLG1	45.95%	32.59%
CTDSPL	36.05%	32.59%
MAN2C1	13.67%	32.57%
CTDSP2	89.39%	32.57%
TBC1D2B	33.68%	32.56%
YLPM1	32.22%	32.55%
MALAT1	170.52%	32.55%
AC130454.2	46.15%	32.54%
TAPT1	12.66%	32.51%
RBM19	35.68%	32.50%
FLII	14.34%	32.49%
GNB2	29.14%	32.48%
ANXA7	185.33%	32.48%
C8orf44	12.47%	32.47%
ST3GAL6	527.39%	32.44%
C21orf45	13.99%	32.42%
SLC15A4	146.22%	32.41%
CHEK2	25.87%	32.41%
HPGD	109.51%	32.40%
TMPRSS5	12.81%	32.38%
SIRPA	77.59%	32.38%
AC012379.7	87.97%	32.36%
SERTAD1	40.60%	32.32%
SLC16A11	60.86%	32.32%
FAM114A2	15.72%	32.31%
CASP6	178.36%	32.31%
FA2H	32.76%	32.30%
FAM101B	59.20%	32.30%
ADAD2	14.51%	32.29%
AC104961.7	57.10%	32.28%
LIMK2	68.93%	32.28%
SMOC2	18.70%	32.28%
RPL11	40.00%	32.27%
FAM168A	62.99%	32.27%
DNAJC3	60.10%	32.24%
PLA2G1B	62.92%	32.21%
CHD7	121.26%	32.21%
RP11-406A20.4	33.73%	32.20%
CMKLR1	34.85%	32.20%
FAM177B	41.68%	32.20%
C20orf11	29.62%	32.16%
GPR176	65.83%	32.16%

KIAA0564	160.38%	32.14%
PLK2	78.86%	32.10%
OAZ3	18.25%	32.10%
CENPE	109.93%	32.10%
MYO5B	26.98%	32.09%
KIAA0528	22.20%	32.07%
UBL5	14.45%	32.02%
HCK	58.87%	32.00%
ASPH	296.93%	31.99%
OTOS	11.87%	31.98%
XAGE1B,XAGE1C,XAGE1D,XA	58.00%	31.97%
PDZK1P2,PDZK1,PDZK1P1	39.03%	31.97%
CLIC1,CLIC1,CLIC1,CLIC1,CLIC	25.62%	31.92%
MAX	77.22%	31.91%
VPS29	103.63%	31.90%
GRIFIN	85.53%	31.89%
NDUFS2	15.81%	31.87%
C12orf67	140.39%	31.84%
DHRS9	1718.31%	31.84%
UCP2	92.51%	31.81%
CREB3L4	12.21%	31.80%
TINF2	27.89%	31.79%
ZNF41	96.35%	31.79%
MLL5	404.72%	31.78%
C20orf91	11.93%	31.74%
RASD2	62.05%	31.73%
IL17B	23.51%	31.72%
RIOK3	75.29%	31.72%
RP11-568G11.3	487.23%	31.70%
BLMH	23.13%	31.70%
XPNPEP1	22.54%	31.69%
ST6GAL1	93.19%	31.68%
GFRA4	32.56%	31.68%
IRG1	45.09%	31.67%
SGK1	769.90%	31.67%
IDH1	195.08%	31.65%
CYP2R1	18.87%	31.63%
BRP44L	63.29%	31.62%
SNX27	14.15%	31.61%
PEX13	446.46%	31.61%
PPARGC1B	18.39%	31.59%
CAMK1	15.02%	31.58%
CALR3,SLC35E1	16.64%	31.56%
UBC	10.39%	31.54%
AC016747.7,KIAA1841	69.18%	31.53%
NEK9	46.02%	31.52%
AC010300.8,ZNF91,AC02456	206.56%	31.51%

AC012100.1	113.39%	31.51%
GOLGA8B	89.91%	31.50%
DUS4L	16.12%	31.48%
C6orf168	97.26%	31.48%
IL1F5	92.11%	31.47%
RPA1	65.09%	31.46%
APH1B	25.55%	31.46%
CHRNE	97.35%	31.45%
ZNF789	96.35%	31.43%
CASZ1	10.16%	31.42%
ZNF776	48.74%	31.41%
DNM3	42.73%	31.40%
CRYL1	78.69%	31.40%
GTF2H1,AC090771.4-1,AC09(	35.23%	31.38%
CYP2B6	65.85%	31.36%
ST5	23.98%	31.35%
SERINC5	190.68%	31.34%
RP11-513I15.5	48.12%	31.32%
JAGN1	200.86%	31.32%
PMF1	14.13%	31.32%
CCRL2	171.82%	31.30%
RAB21	33.56%	31.28%
C12orf42	34.87%	31.26%
USP46	98.66%	31.26%
FNBP1	372.48%	31.25%
SIGLEC14	34.13%	31.24%
C8orf31	35.84%	31.23%
MAFA	31.22%	31.21%
TMEM161A	33.21%	31.20%
CLEC18A	22.75%	31.19%
SEMA3C	161.34%	31.19%
AC073869.1,RAB6A,RAB6C	214.44%	31.19%
MRPL51	161.75%	31.19%
PEX6	98.71%	31.17%
GNAI3	97.55%	31.17%
HERC1	37.03%	31.14%
HYDIN	66.22%	31.10%
NEDD9	384.82%	31.09%
GLG1	61.09%	31.09%
APEX2	158.08%	31.06%
SLC6A18	64.49%	31.06%
RBM26	238.29%	31.05%
C3orf62	41.37%	31.04%
TNRC6B	21.65%	31.02%
SMCY	38.54%	31.01%
RP11-314P12.3,ANXA8L1	49.28%	31.00%
CDC91L1	44.71%	31.00%

UNC45A	43.07%	30.99%
FPR3	181.40%	30.99%
CDK5R1	86.95%	30.97%
PPFIA1	240.00%	30.97%
C4orf34	371.06%	30.95%
DOCK2	16.15%	30.93%
PTPRJ	65.32%	30.93%
TTLL6	73.12%	30.92%
CSTB	21.05%	30.92%
KIAA0430	117.21%	30.92%
RAD51L1	92.07%	30.91%
FZD10	71.34%	30.85%
TBC1D1	17.55%	30.81%
AC023161.24-2	104.73%	30.80%
OSGIN1,AC040169.7-1	120.82%	30.79%
DNASE1L1	58.53%	30.76%
MYL12B,MYL12A	266.30%	30.75%
UFD1L	147.85%	30.72%
CRSP3	496.26%	30.72%
OASL	30.32%	30.71%
DHX9	16.10%	30.69%
KRTAP6-3	55.04%	30.65%
PGRMC1	190.75%	30.64%
EFNB3	10.36%	30.63%
PTPLA	255.23%	30.62%
MGAT4B	29.48%	30.57%
GPC2	26.75%	30.56%
INA	23.68%	30.53%
BAZ1B	87.10%	30.52%
HIST1H4C	12.50%	30.52%
CPD	142.28%	30.50%
SEC61A2	22.77%	30.50%
RP11-490D19.6	111.03%	30.49%
HIPK1	128.41%	30.49%
KRAS	64.01%	30.49%
ARPC5	271.32%	30.49%
FOXO1A	91.32%	30.48%
SLAMF1	65.31%	30.45%
ASAH1	81.27%	30.45%
MOGAT3	38.02%	30.42%
RHEB,FAM35B2,RP11-575L1(	181.81%	30.41%
ZNF697	102.17%	30.41%
EXOC4	108.50%	30.39%
ARHGEF3	197.46%	30.39%
RP11-554F20.1	43.59%	30.36%
HABP4	67.27%	30.32%
IL2RA	53.58%	30.32%

SRGN	109.98%	30.31%
ROR2	38.50%	30.27%
OPN5	210.71%	30.27%
GFER	38.46%	30.27%
HP,AC009087.4-2	17.83%	30.26%
DLEU1	75.75%	30.25%
BIK	40.46%	30.22%
PADI1	53.84%	30.22%
AC016907.3	56.43%	30.22%
PPM1H	70.54%	30.21%
ACSM1	13.75%	30.18%
RAP2A	47.42%	30.17%
CTNND2	13.59%	30.14%
CA6	53.50%	30.14%
NMI	35.82%	30.05%
PMPCB	74.65%	30.04%
CHRFAM7A,CHRNA7	56.99%	30.04%
FBRSL1	46.94%	30.03%
DUSP22,AL357054.14	71.71%	30.01%
CDCA3	83.10%	30.00%
MAGEB4	90.84%	30.00%
RP1-66N13.3	76.26%	29.99%
WNT10A	17.91%	29.98%
ITGB1	46.28%	29.98%
SULF1	20.87%	29.97%
AC136632.3-2	10.30%	29.94%
NDUFS4	82.98%	29.94%
ZER1	30.26%	29.93%
DCTN4	76.19%	29.92%
EFTUD2	30.32%	29.92%
KPNA3	64.85%	29.91%
ZNF304	194.87%	29.91%
NCALD,PLEKHG1,RP1-44A20.	67.00%	29.90%
RP11-389K14.3	220.65%	29.90%
FNBP1L	463.82%	29.90%
UTP14A	23.09%	29.89%
MED17	22.39%	29.88%
FBP1	25.32%	29.85%
CISD1	321.54%	29.82%
RPL3L	45.45%	29.82%
CALML3	27.07%	29.78%
STT3B	274.64%	29.77%
DNAJC9,RP5-1099D15.1	145.66%	29.76%
EVI5L	39.74%	29.75%
SNUPN	30.58%	29.75%
THSD4	21.01%	29.73%
SPRED3	20.52%	29.73%

COX6B1	39.27%	29.72%
CACNA1F	40.00%	29.69%
SNX3	266.39%	29.69%
SMC2	120.55%	29.69%
MRPL33	92.67%	29.66%
CAMK1D	24.47%	29.66%
PYGM	34.11%	29.62%
COQ10B	35.76%	29.61%
MEX3C	691.43%	29.60%
SECTM1	25.27%	29.57%
MPHOSPH6	87.62%	29.57%
ARHGEF10	18.44%	29.56%
CST7	168.40%	29.53%
H2AFX	66.84%	29.52%
AC005077.11	23.74%	29.51%
RIPPLY1	16.62%	29.48%
ISOC2	35.34%	29.44%
C14orf28	19.66%	29.41%
PHLDB3	40.72%	29.40%
PHKB	123.90%	29.39%
TJP2	106.20%	29.39%
C12orf41	24.61%	29.31%
CLC	80.17%	29.29%
DNAJC14	47.72%	29.27%
DNAH2	71.62%	29.27%
PSMB4	27.02%	29.24%
MALAT1	242.61%	29.23%
THEM4	49.88%	29.23%
MAP2	14.60%	29.15%
TTC15	11.00%	29.15%
SEPT3	71.11%	29.14%
IMPDH2	22.91%	29.14%
UPF2	62.19%	29.14%
IGSF11	10.32%	29.11%
TSSK6	60.50%	29.10%
GNPDA1	81.46%	29.10%
C1orf143	177.35%	29.08%
OXCT1	201.64%	29.07%
RP11-107I14.1	36.33%	29.07%
XDH	62.36%	29.07%
ACSL1	482.40%	29.06%
ACADSB	27.10%	29.06%
C20orf144,C20orf134	66.44%	29.04%
AC104592.2	25.95%	29.02%
CRMP1	12.91%	29.01%
C1orf97	161.89%	28.98%
QRFP	38.93%	28.98%

PPFIA3	10.94%	28.98%
AL031846.2,ASCC2,ASCC2	14.10%	28.97%
ACHE	48.02%	28.95%
ETV1	19.69%	28.95%
EIF5B	60.67%	28.94%
PLEKHG1,RP1-44A20.4,PDCL3	75.18%	28.90%
ZFAND2A	36.18%	28.88%
TLE1	12.74%	28.86%
CNFN	65.94%	28.86%
NCOA5	36.18%	28.86%
CKMT1A,CKMT1A,CKMT1B	36.32%	28.84%
DENND1C	111.57%	28.83%
RAB30	78.59%	28.83%
RP11-342C20.3	120.91%	28.82%
GDAP2	74.71%	28.82%
GLIS1	135.14%	28.81%
CCR5	15.35%	28.80%
AC021937.1,EXT1	678.79%	28.79%
DIRC2	144.57%	28.79%
ELOVL1	24.82%	28.79%
HLA-DRA,HLA-DRA,HLA-DRA,	62.96%	28.76%
NANS	98.32%	28.72%
PRMT10	903.57%	28.71%
EPS8L3	35.80%	28.69%
ACPL2	73.45%	28.68%
AP000769.5-1	10.92%	28.67%
CPNE1	106.15%	28.66%
RCN3	31.56%	28.65%
PADI3	29.91%	28.65%
DNAJB12	10.97%	28.61%
TMEM126B	210.37%	28.61%
OR2H1,OR2H1,OR2H1,OR2H1	300.72%	28.57%
LSM6	19.49%	28.57%
CALM1	144.77%	28.57%
C17orf95	184.34%	28.53%
RAPGEF3	32.79%	28.51%
TNRC6C	16.02%	28.50%
SNORA24	129.77%	28.49%
LPP	41.62%	28.49%
MEGF9	70.26%	28.47%
GPR19	114.22%	28.43%
KIAA1772	103.45%	28.41%
NMT1	19.91%	28.39%
RP13-143G15.3	78.91%	28.39%
RP1-212P9.2	10.04%	28.37%
ZNF580	94.53%	28.35%
MYADM	163.84%	28.34%

C2orf56	49.36%	28.29%
ONECUT2	77.99%	28.29%
GOLGA4	12.27%	28.29%
JUND	102.43%	28.27%
ETV4	16.32%	28.26%
AC010441.6	49.15%	28.25%
CASK,YWHAZ,RP11-45P22.1,I	218.03%	28.25%
TMEM41A	211.90%	28.24%
NOL11	142.86%	28.24%
JAM2	74.73%	28.23%
HSPE1,UBE2D2,CRTC3,CDH3,	88.34%	28.21%
IKBKAP	55.02%	28.20%
PPP5C	29.53%	28.20%
ZCCHC11	46.20%	28.15%
AC083841.9,C8orf55	20.70%	28.15%
CASP9	299.70%	28.14%
PMCHL1,PMCHL2	94.82%	28.14%
NMI	257.39%	28.14%
POLR3GL	45.05%	28.14%
RP11-690C23.2	24.50%	28.11%
SERBP1	53.62%	28.11%
TRIM38	15.45%	28.11%
MRPS5	61.61%	28.10%
PPM1K	90.17%	28.09%
NFAT5	743.35%	28.09%
TNR	17.36%	28.09%
SHB	24.19%	28.08%
RARA	46.39%	28.08%
EPHA10	55.69%	28.08%
ATP7B	54.89%	28.07%
C19orf57	60.70%	28.07%
C17orf72	44.36%	28.06%
TANK	470.16%	28.05%
CNTN4	27.45%	28.05%
RP13-150K15.1,TRMT1	58.50%	28.04%
LCE1C,LCE2B,LCE1F	35.11%	28.03%
PGAM5	61.61%	28.02%
FAM167B	23.69%	28.00%
PIGC	112.84%	27.99%
RP4-662A9.2	12.55%	27.97%
NEDD8	50.12%	27.96%
BZW1,BZW1L1	670.00%	27.94%
TAOK2	13.83%	27.94%
C20orf71	57.40%	27.92%
ITFG1	561.54%	27.91%
CA3	129.44%	27.90%
A4GNT	19.32%	27.89%

RMND1	42.93%	27.88%
AC092296.2-1	48.21%	27.87%
HERPUD2	18.34%	27.85%
DENND4B	22.33%	27.84%
SLC4A1	27.49%	27.83%
SLC38A2	90.10%	27.81%
NDEL1	256.53%	27.80%
EGR1	47.75%	27.78%
C16orf3	17.13%	27.78%
FAM46A	322.12%	27.77%
SOX7	84.84%	27.76%
PKMYT1	80.85%	27.75%
CEBPA	16.81%	27.72%
ZNF320,ZNF28,ZNF816A	52.66%	27.72%
HEXIM1	224.24%	27.70%
COX5B	19.74%	27.70%
GZMB	1121.92%	27.69%
IL6	329.22%	27.69%
SLC27A1	108.68%	27.66%
CBX3	20.09%	27.65%
CHGB	178.02%	27.63%
ATP1A4	51.41%	27.61%
SEC61B	14.81%	27.61%
SEPN1	20.10%	27.61%
SLC25A21	52.10%	27.60%
TIMP2	327.26%	27.60%
PPAP2A	72.01%	27.59%
FBXO11	351.73%	27.58%
RP11-216L13.14,LCN8	13.74%	27.53%
SSR2	38.41%	27.51%
RP11-556K13.1,AC139769.1	148.12%	27.51%
FAM131C,RP11-5P18.10	44.58%	27.50%
AL611925.27-1	113.88%	27.48%
MBOAT2	36.90%	27.46%
C17orf65	48.03%	27.45%
CHKA	31.18%	27.44%
HBXIP	81.81%	27.43%
CMAS	68.63%	27.41%
PBX1	100.29%	27.40%
AMTN	21.25%	27.39%
SHBG	37.12%	27.39%
GOLT1B	228.86%	27.38%
C7orf42	76.01%	27.36%
EPHB4	30.18%	27.36%
GOLGA7	46.69%	27.35%
CCDC109B,CCDC13,AC07357	511.05%	27.35%
CLCN3	313.38%	27.34%

COL6A3	41.04%	27.33%
RP5-1109J22.1	49.94%	27.32%
CLK1	769.52%	27.31%
PELI2	357.77%	27.31%
ASH2L	21.48%	27.28%
ERCC6	129.30%	27.27%
ALG8	239.25%	27.27%
ARL5A,RP3-481A17.1	961.70%	27.25%
ACTL7A	28.25%	27.25%
PLEC1	24.56%	27.23%
C15orf15,TTC37,RP11-746P2	48.74%	27.23%
TMEM126A	375.89%	27.23%
C4orf3	122.57%	27.22%
STXBP5	101.01%	27.21%
NR3C1	211.70%	27.20%
HIST1H4C	18.47%	27.20%
CTPS2	125.97%	27.19%
C8orf40	163.23%	27.19%
AC010536.8-2	34.93%	27.19%
C17orf87	118.62%	27.17%
GUCY2F	28.90%	27.16%
RRN3	38.30%	27.15%
LELP1	38.03%	27.13%
EPHA6	76.79%	27.13%
NR2C2	18.44%	27.13%
IL18R1,IL1RL1	660.52%	27.12%
GUCY1A3	92.42%	27.12%
C12orf52	36.53%	27.11%
MFF	115.35%	27.09%
TRAPPC1	79.33%	27.08%
CASC4	283.54%	27.07%
SNX25	81.79%	27.04%
RPGRIP1L	67.99%	27.02%
IMPAD1	173.20%	27.00%
NSUN2	33.50%	26.97%
ORMDL2	38.13%	26.97%
GPHA2	40.53%	26.97%
PIP5K3	777.98%	26.96%
RP11-165H4.2	41.10%	26.95%
IGSF1	39.66%	26.93%
AC012607.8	28.67%	26.92%
SOCS6	134.80%	26.91%
IARS2	502.11%	26.90%
CECR6	25.49%	26.84%
TBC1D2B	112.23%	26.81%
AC007551.3	14.89%	26.80%
MRPL15	120.97%	26.78%

DSTYK	114.93%	26.76%
ZNF497	33.48%	26.74%
AL121761.5-1	35.36%	26.74%
F5	191.11%	26.72%
ZNF706	177.84%	26.72%
OLFM1	43.32%	26.71%
LDB1	20.08%	26.71%
ABLIM2	24.55%	26.67%
SLC8A2	27.01%	26.66%
SLC17A9	87.58%	26.65%
MGST3	286.13%	26.65%
TFB1M	80.87%	26.64%
ABTB1	14.31%	26.62%
RAB18	58.80%	26.60%
RP11-335G20.1,RP3-469D22.	64.77%	26.59%
MFSD2	74.09%	26.57%
LYPLAL1	624.76%	26.54%
LRRC1	135.80%	26.54%
YWHAQ	172.51%	26.53%
TAS2R13	151.30%	26.53%
ADORA3	51.68%	26.51%
CRK	135.46%	26.51%
SETD1B	10.04%	26.50%
IGF2R	10.86%	26.46%
DSCR1	329.17%	26.46%
CHFR	102.65%	26.46%
EHD4	105.01%	26.43%
SEMA6B	13.67%	26.42%
TPK1	277.60%	26.40%
CEP78	120.96%	26.39%
NR0B2	64.13%	26.36%
SLC4A2	31.63%	26.35%
LIPA	68.91%	26.34%
DMRT1	74.43%	26.32%
AC132186.3-1	84.27%	26.31%
FHL2	69.31%	26.27%
ETFA	382.08%	26.27%
DSTN	130.70%	26.26%
AC104212.3-1,RPS5,RP11-34	110.92%	26.25%
SERP1	416.30%	26.24%
C15orf27	11.64%	26.24%
FBXO3	148.25%	26.15%
NRF1	61.56%	26.13%
C19orf36	15.92%	26.12%
MUC4	23.50%	26.12%
PID1	71.21%	26.12%
DSCR9	92.86%	26.09%

FAM32B,FAM32A	39.86%	26.09%
AC017019.5,TTTY2	27.41%	26.07%
GLUD1,GLUD2	208.14%	26.05%
HARS2	51.07%	26.05%
TRIM58	38.19%	26.04%
ZNF830	110.39%	26.04%
DAZAP2	120.95%	26.03%
TMEM22	406.31%	26.02%
CRTC3	36.62%	26.02%
RP5-882O7.5,GBAS,ZNF713	30.26%	25.97%
OSGEP	109.86%	25.97%
ATP11B	245.84%	25.96%
C9orf25	48.67%	25.95%
RP11-307E17.2,VDAC1	210.35%	25.93%
GPR110	51.33%	25.90%
CCDC136	10.76%	25.90%
RP5-1182A14.3,MSTP9	61.75%	25.89%
KRT38	30.48%	25.89%
NAGA	64.17%	25.89%
OR2AE1	27.64%	25.88%
EIF4E	210.95%	25.85%
CD1B	37.60%	25.84%
MALAT1	217.75%	25.83%
NLGN4Y	125.23%	25.80%
TUBB2A	281.10%	25.74%
RP11-191L9.4	29.43%	25.72%
C5orf36	74.34%	25.72%
AC116353.7	20.07%	25.68%
UBXN8	321.70%	25.65%
FCHSD2	89.17%	25.64%
MAPRE1	90.09%	25.62%
ATP6V0D1	36.59%	25.62%
RRAGA	58.31%	25.59%
FOXF1	249.95%	25.59%
GPR62	22.30%	25.58%
AC020915.4	213.71%	25.56%
NRL	25.83%	25.54%
PSMB9	90.62%	25.54%
MAP4K4	217.18%	25.53%
FBLIM1	27.89%	25.53%
NCAPD2	75.82%	25.51%
SMARCD1	34.22%	25.50%
RP11-31E13.1	127.39%	25.47%
ELOVL4	59.13%	25.46%
KIT	53.79%	25.45%
KRTAP3-3	34.80%	25.42%
HPN	23.07%	25.42%

C1orf175	38.15%	25.39%
DOPEY1	178.45%	25.39%
GNE	41.38%	25.38%
NDUFAB1	132.67%	25.34%
TPM2	19.92%	25.33%
SSR3	56.09%	25.30%
HGD	31.93%	25.29%
CASK	55.61%	25.29%
PRKCB	79.03%	25.25%
SNAI1	33.56%	25.25%
STAU2	59.29%	25.25%
RP11-54D18.1,LDHA	63.41%	25.23%
SRXN1,AL121758.24-1	262.85%	25.22%
DUSP2	129.29%	25.21%
CSTF3	14.82%	25.21%
IL1RN	48.80%	25.20%
CRKL	149.56%	25.20%
MLANA	22.06%	25.18%
AC025449.6-2,OFD1	46.59%	25.18%
UGT2B17,AC147055.2	518.26%	25.18%
CLSPN	15.99%	25.15%
RUNDC1	40.21%	25.15%
SLCO4A1	115.96%	25.13%
DLC1	234.76%	25.13%
NRXN2	25.20%	25.12%
HSD17B4	98.48%	25.11%
NGLY1	308.94%	25.10%
TXNDC6	92.92%	25.10%
CADM1	265.64%	25.08%
CSDC2	35.01%	25.04%
NEU4	718.69%	25.00%
L3MBTL4	53.93%	25.00%
SLC6A9	30.51%	25.00%
ADAMTS14	53.68%	24.98%
CAPZA1	67.15%	24.98%
CPB1	45.44%	24.97%
CCL5	20.73%	24.97%
MRPS18C	112.59%	24.96%
PPM1A	117.88%	24.96%
RABEP1	80.16%	24.90%
MDFIC	37.40%	24.90%
CD7	17.72%	24.88%
ZNF403	32.29%	24.82%
TMEM109	16.16%	24.82%
UBE2I	45.52%	24.80%
C10orf104	30.99%	24.78%
IGHV5-78,AB019438.1-3,AB0	80.84%	24.77%

ETS2	55.37%	24.77%
CWF19L2	58.81%	24.77%
LETM1	25.95%	24.77%
AURKA	30.68%	24.74%
CACNG5	42.20%	24.74%
OR1J2	64.87%	24.74%
C14orf162	53.12%	24.73%
RP11-160H22.1	634.86%	24.73%
RNF122	96.84%	24.72%
JRKL	51.69%	24.70%
CCT2	212.78%	24.69%
CHD9	27.91%	24.69%
SPTY2D1	297.33%	24.69%
ABI3BP	14.18%	24.68%
PSME1	10.54%	24.68%
PLEKHA1	143.82%	24.67%
MOSC1	48.54%	24.67%
LMTK3	22.51%	24.67%
MAN2B2	11.38%	24.66%
C14orf45	518.95%	24.66%
CCL4L1,CCL4,CCL4L2	10035.90%	24.64%
CCDC46	92.01%	24.63%
C6orf25,C6orf25,C6orf25,C6(	226.99%	24.58%
ARHGAP21,RP11-296E7.1	80.82%	24.54%
TAF1A	55.64%	24.53%
MERTK	55.67%	24.48%
TRIM50	33.76%	24.46%
CPA3	515.88%	24.45%
PTENP1,PTEN	116.72%	24.44%
C20orf108	63.90%	24.43%
NAT1	245.93%	24.41%
GJB1	63.65%	24.40%
HARS	431.98%	24.40%
TRIM26,TRIM26,TRIM26,TRI	59.18%	24.36%
ANKRD18B	19.25%	24.35%
TNIK	125.56%	24.34%
ST6GALNAC2	51.39%	24.34%
SEZ6L2	15.29%	24.33%
GSTA4	104.04%	24.33%
RPL21P62	51.95%	24.32%
HOXA7	25.26%	24.30%
DSCR4	124.69%	24.29%
SH3TC1	16.81%	24.28%
MRPS28	70.24%	24.26%
MSTO1,RP11-243J18.3	51.99%	24.23%
C9orf163	54.95%	24.23%
GPR141	272.90%	24.22%

HNRPA2B1	117.98%	24.22%
MEMO1,DPY30,AP000689.3	187.96%	24.18%
CCRL2	22.29%	24.14%
ITGB6	38.30%	24.14%
CAMSAP1L1	32.44%	24.11%
AC018816.4	20.34%	24.02%
NT5C2	93.85%	24.00%
CXCR6	36.42%	23.98%
CD58,RP4-655J12.5	1264.36%	23.95%
DNTTIP2	133.64%	23.93%
POLR1B	54.36%	23.92%
BFSP2	20.25%	23.91%
OTUD7A	31.80%	23.91%
AC105339.1	30.94%	23.88%
MYL2	22.55%	23.86%
TNRC6B	66.91%	23.85%
ZNF445	13.72%	23.83%
CNOT4	60.62%	23.82%
DENND4C	13.39%	23.82%
MCEE	98.22%	23.82%
POM121B,POM121,POM121	108.27%	23.81%
PARD6A	49.12%	23.78%
CNOT2	235.68%	23.77%
CD83	672.89%	23.73%
RP11-744H18.2,NBPF6,AL45(	116.79%	23.72%
POLR2K	189.47%	23.69%
HTR3C	81.92%	23.68%
ANKRD32	91.57%	23.68%
H2AFV	75.72%	23.66%
ZNF398	26.19%	23.65%
HUNK	15.14%	23.63%
APOBEC3B,APOBEC3F	24.67%	23.63%
SLC38A10	41.55%	23.61%
PQLC1	18.78%	23.61%
RNF7	52.84%	23.57%
CDC73	92.84%	23.55%
FDFT1	12.57%	23.54%
PSMD7	112.27%	23.50%
PIK3R2	53.07%	23.49%
RP1-43E13.2	283.39%	23.46%
UBE2C	27.93%	23.45%
NMNAT1	174.74%	23.45%
DMRTC1,CXorf50,CXorf50	22.77%	23.43%
KRT10	23.35%	23.42%
BRPF3	60.43%	23.39%
TMEM47	168.87%	23.39%
ASCC3,AC019080.1,RP11-637	28.45%	23.38%

RLF	71.21%	23.37%
UNC5CL	15.15%	23.33%
ZNF678	47.09%	23.32%
AIRE	16.72%	23.31%
FMO1	18.48%	23.31%
SLC10A7	54.86%	23.30%
IGSF8	50.29%	23.27%
ATF1	36.81%	23.26%
QPCT	164.43%	23.25%
KIAA1618	17.85%	23.24%
PAF1	19.86%	23.23%
FANCE	43.30%	23.20%
RP11-23J9.3	27.05%	23.19%
TRBC1,TRBC2	35.61%	23.18%
TGM2	33.33%	23.18%
GPR15	35.30%	23.15%
SNORA25,SNORA25	50.65%	23.13%
DEFB126	34.24%	23.10%
ANKRD39,ANKRD23	61.60%	23.10%
C6orf163	18.99%	23.09%
GSTO1,AC097105.10-1	82.53%	23.08%
AKAP11	365.44%	23.06%
LRRN4CL	23.02%	23.06%
TMEM9B	139.58%	23.06%
AC132812.9,KPNA2	93.83%	23.04%
DYRK1A	145.26%	23.03%
CLEC4F	49.12%	23.01%
NAV2	59.25%	23.00%
IL18R1	323.62%	22.99%
FBLL1	14.97%	22.98%
ANKRD46	23.47%	22.97%
LHFP	56.51%	22.96%
CPA2	28.30%	22.95%
TMEM106B	135.09%	22.94%
MPEG1	99.17%	22.91%
PXN	29.11%	22.89%
PHF6	48.46%	22.88%
LILRA2,LILRB2	35.11%	22.87%
TAAR5	34.59%	22.86%
SH3BP2	76.90%	22.86%
LPIN1	247.75%	22.85%
TCERG1	282.63%	22.83%
NEU4	362.73%	22.82%
VAMP8	85.53%	22.81%
ARRB1	38.30%	22.80%
CGGBP1	173.18%	22.79%
LYAR	274.09%	22.78%

CD300C	107.77%	22.76%
EIF4A3	65.23%	22.76%
MRRFP,MRRF	88.68%	22.74%
RAB38	111.01%	22.72%
GNA15	10.27%	22.71%
GNAS,GNAS,AL136532.22	246.61%	22.70%
PRKAR1B	20.59%	22.68%
RHOV	22.10%	22.67%
SLC18A2	198.45%	22.66%
LHFPL2	22.37%	22.65%
AL139023.6,BNIP3	63.31%	22.64%
PPWD1	91.67%	22.64%
AP001157.4-1,C1QBP	72.09%	22.62%
C4orf18	64.69%	22.58%
ANKRD27	21.29%	22.57%
BLOC1S2	27.62%	22.56%
LCMT1	110.07%	22.56%
AC124944.3	57.63%	22.55%
LAMB1	93.46%	22.54%
C21orf74	31.13%	22.54%
RBL1	29.77%	22.54%
PTGES3	75.40%	22.52%
OLFM2	45.18%	22.51%
AC004597.1	93.38%	22.50%
NCKIPSD	20.34%	22.50%
MAPT	130.35%	22.47%
AP3B2	82.18%	22.46%
TPRXL	71.05%	22.44%
RSRC1	243.09%	22.44%
RRP12	148.76%	22.43%
C1orf162	249.16%	22.42%
UBE3C	42.40%	22.42%
PPARA	23.86%	22.38%
PRKAR1B	66.87%	22.36%
CTF1	72.10%	22.36%
SS18L2	41.33%	22.35%
DLG3	32.05%	22.26%
CD58,RP4-655J12.5	143.49%	22.24%
TNS1	13.58%	22.24%
EIF4A2	105.46%	22.23%
FAM104B	32.79%	22.23%
AC087393.1	49.35%	22.22%
KCTD10	35.52%	22.22%
HNRPLL	486.27%	22.19%
SLC35C1	15.35%	22.17%
PHC1B,PHC1	136.05%	22.17%
PNRC2,AL390877.1,BX51101	323.58%	22.16%

SRA1	82.55%	22.15%
CFI	92.11%	22.15%
SSBP1	62.47%	22.14%
ANP32A	37.88%	22.14%
ASTL	12.14%	22.13%
CACNG6	37.76%	22.13%
RPL30,AC138972.1	73.31%	22.11%
GNG2	57800.00%	22.11%
L1CAM	19.78%	22.01%
COLEC11	41.89%	22.01%
CST3	10.00%	22.00%
PPA2	129.18%	22.00%
MDH1	86.69%	21.97%
RAD1	90.98%	21.96%
TIMM17A	151.73%	21.95%
C20orf12	92.18%	21.95%
RP11-77G22.3,SDCBP	381.02%	21.94%
ZNF720	10.30%	21.92%
UGCGL2	92.09%	21.91%
ORMDL1	111.87%	21.91%
TIGIT	16.32%	21.90%
FNBP4	165.32%	21.89%
SPRY1	1627.47%	21.88%
IDH3B	40.70%	21.88%
MMD	42.32%	21.86%
PSMA2	87.22%	21.85%
OR10J8P	25.51%	21.82%
CHRNA6	43.36%	21.81%
IL3	48.74%	21.81%
C7orf51	16.62%	21.79%
GBP4	24.75%	21.79%
IPO13	72.22%	21.78%
NCALD	46.75%	21.76%
RP1-286D6.2	24.32%	21.74%
PREPL	32.42%	21.71%
AC025279.6-2,AC106782.5-5	205.43%	21.71%
NUCB1	22.36%	21.71%
C7orf34	34.36%	21.70%
PAM	525.02%	21.69%
LMX1B	35.18%	21.66%
TGFBR3	129.03%	21.65%
C12orf11	41.62%	21.63%
NDUFV1	16.57%	21.62%
NOVA2	56.56%	21.58%
APEX1	91.02%	21.58%
ARPP19	367.49%	21.55%
ATP6V0A2	43.89%	21.54%

PABPC3,PDS5A,PABPCP5	256.55%	21.54%
HNRPA2B1	122.79%	21.52%
GPR3	99.67%	21.50%
AC093509.1,AC109456.3-1,A	82.08%	21.47%
AC020698.4,AC103796.3,HSF	267.51%	21.46%
MTSS1	28.23%	21.46%
ZNF212	31.97%	21.43%
NLGN2	40.23%	21.43%
KLHDC2	253.05%	21.42%
C19orf73	16.92%	21.42%
ACTR3	14.45%	21.40%
ZNF410	73.07%	21.39%
COL24A1	43.00%	21.38%
STK40	15.69%	21.38%
PPP1R14C	19.42%	21.36%
RP11-122G18.5	12.85%	21.34%
ANO8	74.15%	21.33%
PSMB2	25.06%	21.33%
DUSP18	60.12%	21.32%
MMP24	56.10%	21.32%
NCKAP1	20.16%	21.31%
RP5-1061H20.3	11.26%	21.30%
AC003075.4	11.99%	21.30%
MMD2	11.98%	21.28%
HM13	242.86%	21.26%
TMED6	68.97%	21.26%
DCUN1D4	120.51%	21.26%
FGGY	49.38%	21.24%
STX1A	168.80%	21.23%
AKIRIN2	79.40%	21.23%
CTSL1	26.70%	21.21%
AVPR2	24.36%	21.20%
CDKN2C	47.91%	21.19%
ALDH3B1	17.83%	21.17%
DLL3	60.64%	21.17%
RAB40B	30.89%	21.12%
PRR15	28.34%	21.10%
CLDN6,RP11-29H23.6	54.33%	21.10%
CAPZA1	40.59%	21.07%
GRIN2A	20.88%	21.04%
CYP4F3LP,AC140481.7,AC132	45.34%	21.04%
WDR35	92.50%	20.96%
KLHDC4	21.41%	20.96%
PCSK9	13.25%	20.96%
ETNK1	707.48%	20.95%
BMP2K	123.99%	20.93%
COL14A1	32.33%	20.92%

P2RY6	12.23%	20.91%
DACT3	14.38%	20.91%
SHANK2	34.82%	20.89%
CACNA1H	14.81%	20.86%
GRID2IP	38.97%	20.82%
KRTAP5-10	79.60%	20.81%
LRRC8A	41.66%	20.80%
PDHA1	55.75%	20.80%
GPR42P,FFAR3	200.88%	20.79%
ATP1B3,AC012498.10-1	1998.65%	20.73%
CELSR2	109.53%	20.71%
KIAA0513	65.72%	20.71%
NFRKB	12.18%	20.68%
ZYX	23.06%	20.66%
CASP2	70.39%	20.66%
C1orf50	31.67%	20.64%
C7orf10	20.86%	20.64%
RP11-611D20.2	23.66%	20.62%
PIG-Y	216.88%	20.61%
PIGG	23.16%	20.60%
RP11-301J16.5	14.37%	20.57%
RAP2A	28.89%	20.57%
TFR2	16.86%	20.52%
ZNF24	36.96%	20.51%
C14orf100	164.17%	20.50%
RUNX1	11.65%	20.50%
PITRM1	36.99%	20.50%
SUSD4	44.52%	20.49%
KCTD7,RP4-756H11.3	190.11%	20.48%
POLR3G	100.18%	20.47%
RBM23	78.48%	20.47%
RPS16P10	66.93%	20.45%
GOLGA3	49.14%	20.45%
AC093668.4-1,POLR2J2,POLR	39.13%	20.40%
TMBIM4	47.29%	20.39%
ACRV1	21.45%	20.39%
AP000345.1	30.44%	20.37%
PROM1	90.91%	20.36%
HECW2	149.82%	20.35%
ZNF207	63.32%	20.34%
SLC20A1	187.14%	20.34%
SHOC2	107.88%	20.33%
FCGBP	17.53%	20.31%
PSMA5	96.04%	20.28%
AP000344.1	14.34%	20.28%
PCCB	44.77%	20.28%
ZIK1	88.13%	20.27%

JMJD1A	21.27%	20.26%
ZNF621	26.02%	20.26%
C2orf76	309.44%	20.25%
PHF19	62.46%	20.25%
HAO2	16.37%	20.25%
MPZ	61.64%	20.24%
VPS24	70.75%	20.22%
PDE4DIP	22.84%	20.22%
CCHCR1,CCHCR1,CCHCR1,CCI	11.45%	20.19%
AKIRIN2	60.28%	20.17%
NKTR	34.86%	20.13%
DNM1	23.18%	20.12%
PKHD1	41.67%	20.09%
TRNAU1AP	18.40%	20.09%
FAM129C	20.03%	20.08%
SETD5	34.39%	20.07%
GDPD4	23.98%	20.06%
CYP2A7	28.65%	20.03%
AC019185.4,PTHR2	152.20%	20.03%

Values represent mast cell genes upregulated by at least 10% by FceRI stimulation that were upregulated (least inhibited) >20% by TGA (sorted most upregulated to least upregulated in column D)

Gene_symbol	% Increase (-) to (+)	% Inhibition by TGA
ELF1	13.55%	-266.13%
LAPTM4A	104.32%	-157.06%
TRIO	145.13%	-151.37%
EVI2B	262.93%	-141.14%
MYLK3	24.60%	-141.13%
TMEM165	158.48%	-126.63%
ARPC3	113.65%	-125.19%
EIF3E	251.53%	-118.50%
DONSON	40.83%	-116.78%
ATP6V1G1	100.58%	-116.72%
CRBN	40.96%	-116.37%
PDCD6	106.13%	-114.68%
RP11-422P24.9,RPL34,RPL34P27	20.24%	-114.65%
RIOK2	13.44%	-112.18%
AD000091.1,RPL23AP37,RP11-106	148.96%	-111.90%
HSPH1	129.36%	-109.31%
CCNI	33.79%	-105.85%
RIPK2	85.75%	-104.23%
CEP350	141.35%	-103.89%
XRCC5	108.83%	-103.48%
BRAF	120.20%	-103.21%
TPST2	136.14%	-102.05%
BMI1	436.33%	-100.65%
PPP2CA	133.03%	-99.42%
DUSP4	500.23%	-97.11%
AC110926.4,WBP11P1,WBP11	41.33%	-95.19%
AC058791.1	705.28%	-94.33%
SSH2,RP11-565J7.3,RPL21P68,RPL	78.36%	-93.84%
CHD9	54.39%	-92.42%
AP002364.4-1,TUBA1B,TUBA1A,TU	124.51%	-91.87%
LITAF	135.59%	-90.52%
LY96	27.54%	-89.31%
ZNF354A	24.59%	-89.11%
RAB11FIP1	313.82%	-85.21%
RP11-110C15.4,RPL4,RP11-87M1.1	13.29%	-84.74%
KIAA1644	50.30%	-84.36%
COX17,RP11-189B4.3	23.75%	-83.60%
VIM	32.60%	-83.01%
NUDT2	21.69%	-82.09%
NTAN1	24.83%	-80.58%
PMEPA1	76.53%	-80.32%
RP11-110C15.4,RPL4,RP11-87M1.1	27.13%	-78.89%
RPS4P16,RP11-550E22.3,VPS53,RP	47.75%	-77.95%
MBNL1	14.74%	-77.28%

FOS	120.46%	-76.86%
PPP2R5A	53.15%	-75.91%
THOC7	45.89%	-75.76%
IL1B	31.22%	-74.14%
ATP5G3	122.79%	-72.77%
TCEA1	217.42%	-71.82%
SSR1	95.19%	-71.56%
RGS5	105.20%	-71.50%
PTPN1	80.50%	-70.07%
NUDT5	26.54%	-69.51%
SF3B4	21.79%	-67.88%
JMJD1C	234.59%	-66.85%
NRIP3	480.81%	-66.61%
DCN	23.50%	-66.15%
CD44	306.68%	-66.09%
RAPGEF2	112.46%	-65.58%
HAT1	47.03%	-64.93%
LYST,RP5-1043F6.2	59.86%	-64.78%
TNFSF10	43.07%	-64.25%
DONSON	13.51%	-64.22%
CHST11	35.90%	-63.50%
AK3	65.63%	-62.76%
ISOC1	134.93%	-62.71%
RGS1	149.49%	-61.98%
TNFAIP6	75.79%	-61.67%
GJB2	17.86%	-60.84%
hsa-mir-568	62.85%	-60.49%
H3F3AP1	30.05%	-60.32%
GNAI1	465.23%	-59.81%
UBE2K	75.84%	-59.75%
MOBKL3	105.06%	-58.80%
C5orf32	102.03%	-58.78%
ECD	43.04%	-58.46%
HMG20A	15.49%	-58.09%
MS4A2	616.17%	-58.09%
C9orf9	12.50%	-57.58%
ZNFX1	23.76%	-56.80%
ABL2	48.01%	-56.59%
C6orf115	271.18%	-56.59%
F2RL2	11.36%	-56.04%
TRIO	12.86%	-55.91%
TOMM22	22.35%	-55.00%
LUC7L2	59.09%	-54.16%
FAM63B	36.53%	-54.13%
RPL23AP1,RPL23AP1,Z97634.3,RP1	38.57%	-53.97%
CCL4L1,CCL4,CCL4L2	4653.85%	-53.94%
ITPRIP	412.84%	-53.67%

TTC14	168.76%	-53.47%
MYD88	47.01%	-52.88%
SKP1A	43.64%	-52.45%
PDPR	24.23%	-52.43%
ZMIZ1	10.98%	-52.21%
CLEC2B	20.19%	-51.77%
FOSL2	46.04%	-51.57%
PRCP	40.61%	-51.38%
GDF15,PGPEP1	15.80%	-51.36%
NONO,NOB1	99.88%	-51.35%
AC145285.2-2,AC092375.4-2,AC10	82.40%	-50.90%
MLLT11	102.09%	-50.88%
KNTC1	87.18%	-50.68%
SEMA4A	63.54%	-50.48%
AC011295.3-4,AC012005.3,AC048	16.63%	-50.09%
TUBB6	76.15%	-48.36%
NDUFA1	53.35%	-48.21%
PIAS1	66.07%	-48.18%
TBC1D24	67.32%	-47.99%
AC020571.3	2126.91%	-47.99%
ARL4P,NSUN7,AC124914.3,ARL4A	45.60%	-47.98%
STMN2	16.58%	-47.95%
ADIPOR1	22.94%	-47.88%
RP11-472G23.8,RP11-472G23.3,RF	59.12%	-47.86%
AZIN1	58.84%	-47.72%
VWA5A	122.73%	-47.54%
IARS	66.95%	-47.37%
PKN2	38.70%	-47.22%
TMEM181	196.59%	-47.05%
PTPLAD1	342.73%	-46.82%
GAPT	205.68%	-46.47%
TIAL1	54.41%	-46.13%
CALB2	127.01%	-46.12%
SET	169.66%	-45.95%
SYCP2L	20.44%	-45.47%
CSDA	188.07%	-45.36%
RP1-138A5.1,AC009812.17,RPSAP4	20.48%	-45.35%
AC010907.3,TMSL3,TMSB4X	36.55%	-44.81%
RGS2	62.75%	-44.49%
TCEAL1	165.30%	-44.31%
TSC22D1	313.87%	-44.10%
C20orf30	71.22%	-44.05%
CYTH3	452.57%	-44.04%
AADACL1	130.95%	-43.75%
RPS13P2	19.69%	-43.65%
ANKFY1	28.50%	-43.46%
AC104655.3	55.57%	-43.43%

OCIAD1	109.53%	-43.24%
TMEM77	32.84%	-42.82%
PSMD6	82.95%	-42.36%
ZNF403	124.74%	-42.17%
DDR2	21.97%	-42.03%
NUS1	18.80%	-41.92%
PSMB1	32.00%	-41.75%
NONO,NOB1	101.02%	-41.60%
C13orf23	22.67%	-41.44%
RP4-647M16.1,RP11-54O7.10,AC0	52.54%	-40.57%
SNAP23	32.07%	-40.01%
AC116337.2-1,FGF14,Y_RNA,ZNF7	22.41%	-40.00%
PTPRR	564.54%	-39.91%
ESD	132.44%	-39.62%
ELOVL5	36.79%	-39.58%
STK38	67.46%	-38.87%
KIR2DL2,KIR3DL3	18.76%	-38.75%
PLOD2	57.32%	-38.60%
PSMA1	242.41%	-38.28%
RB1CC1	74.74%	-38.28%
C15orf29	10.62%	-38.22%
BMI1,COMMD3	14.50%	-38.15%
GNL2	15.33%	-37.74%
CD79A	12.34%	-37.70%
PSMB7	34.24%	-37.62%
RC3H1	34.69%	-37.18%
CCL4L1,CCL4,CCL4L2	1998.72%	-37.18%
FXR1	27.92%	-37.09%
ASNS	79.70%	-37.05%
SMARCA1	14.53%	-36.85%
EGR4	31615.63%	-36.63%
RASSF5	93.79%	-36.49%
GPATCH2	29.50%	-36.35%
COX6C	11.72%	-36.27%
ZHX1	41.66%	-36.27%
HDC	50.22%	-36.18%
SH2B3	93.27%	-36.14%
C19orf12	16.88%	-36.13%
TRAF5	141.46%	-36.12%
RP11-565J7.3,AC087190.5-2,RPL21	104.01%	-36.07%
SENP7	31.90%	-36.00%
VEZT	91.07%	-35.89%
CLDN12,GTPBP10	13.12%	-35.21%
ALS2	76.72%	-34.89%
SCOC	307.28%	-34.81%
GALC	397.79%	-34.79%
PDZD11	43.51%	-34.74%

SRGN	739.39%	-34.61%
SEC24B	176.30%	-34.45%
SASH1	16.49%	-34.38%
GFI1B	38.65%	-34.32%
VMA21	28.45%	-34.27%
VGLL4	13.75%	-33.92%
ZNF195	49.84%	-33.90%
MOAP1	66.14%	-33.90%
RAB2B	46.17%	-33.10%
PTPN2	31.45%	-32.97%
ELL2	154.82%	-32.86%
UBE2D3P,UBE2D3	163.29%	-32.84%
ATG12	24.60%	-32.64%
STX11	166.50%	-32.55%
SVIL	76.29%	-32.36%
LRAP	67.52%	-32.20%
STX7	28.81%	-32.09%
FUNDC2	76.17%	-31.77%
GADD45A	32.16%	-31.60%
NT5DC1	107.97%	-31.45%
MIS12	49.10%	-31.37%
FAM172A	95.44%	-31.29%
AL049778.3,CNIH	589.89%	-31.15%
RBM47	42.19%	-31.11%
SAT1	321.25%	-31.09%
TXN	96.50%	-31.09%
MKLN1	124.73%	-30.93%
PDE8A	89.71%	-30.62%
RHOBTB3	123.89%	-30.31%
APLP2	16.53%	-30.11%
PUS3	114.19%	-29.89%
IRAK2	82.10%	-29.78%
EGR3	849.33%	-29.78%
C14orf43	133.88%	-29.67%
COPEB	300.63%	-29.49%
ARID2	210.84%	-29.26%
ABCD3	176.36%	-29.04%
BTF3,CTD-2090I13.4,AC021558.10	105.33%	-28.90%
AC090377.15-1,C17orf57,NFE2L3	193.75%	-28.69%
LETM2	35.96%	-28.34%
CBLB	24.38%	-28.17%
GBAS	272.46%	-27.89%
APPBP2	35.86%	-27.79%
RP11-220D10.1,RP4-778K6.1,RPL3	49.19%	-27.78%
NDUFAF1	50.75%	-27.70%
PRG2	27.33%	-27.66%
TRIM33	40.52%	-27.63%

DDHD2	10.37%	-27.62%
ZDHHC2	152.80%	-27.40%
FASTKD2	19.54%	-27.31%
INTS6	40.99%	-27.19%
FAM175A	133.76%	-27.17%
RAP1A	76.67%	-27.15%
AC005332.1	79.89%	-27.10%
GSTM3	29.52%	-27.03%
FOSL2	60.55%	-26.92%
GSK3B	22.99%	-26.91%
MMADHC	617.86%	-26.87%
SFRS3	101.61%	-26.75%
RSRC2	125.93%	-26.69%
CLASP2	11.75%	-26.32%
CCDC50	94.78%	-26.25%
AL009183.10	161.76%	-26.21%
PAK1	357.63%	-25.82%
MGST3	36.59%	-25.78%
SERPINA9	15.80%	-25.74%
GPRC5A	103.29%	-25.64%
UBE2Q2	81.96%	-25.63%
AC093081.2,RWDD4A	55.94%	-25.55%
RRM2B	93.41%	-25.47%
GPR34	471.20%	-25.21%
GPBP1	16.80%	-25.14%
ANUBL1	26.28%	-25.13%
SMYD2	14.72%	-25.12%
ALS2CR12	60.43%	-25.11%
PCGF5	156.81%	-25.05%
LPHN1	17.66%	-25.00%
KCTD10	19.87%	-24.90%
RPS23	132.85%	-24.71%
DCDC1,RP11-235D19.3,CYCSP52,R	241.88%	-24.66%
TPM4	127.75%	-24.57%
NPL	19.26%	-24.44%
EIF4E	5923.20%	-24.44%
C22orf28,BPIL2	55.65%	-24.41%
TBL1XR1	162.79%	-24.40%
CALM2,RP11-367H5.5	357.15%	-24.35%
HSD3B1,AL109966.1	20.97%	-24.28%
LEO1	295.00%	-24.25%
ESCO1	46.34%	-23.94%
C6orf72	62.82%	-23.69%
CXCL16	14.55%	-23.66%
IDH3A	23.09%	-23.52%
KRCC1	132.36%	-23.33%
TSPYL2	45.47%	-23.32%

TMEM63B	48.40%	-23.31%
AGRN	14.35%	-23.29%
FGR	31.62%	-23.15%
EGR2	1821.64%	-23.07%
EBAG9	132.18%	-23.05%
RP11-77G22.3,SDCBP	746.32%	-23.01%
TLN2	40.65%	-22.90%
CENPC1,AC010201.18	230.00%	-22.90%
PPP1R10,PPP1R10,PPP1R10,PPP1F	12.25%	-22.90%
POLR2B	104.15%	-22.89%
YY1	171.91%	-22.85%
MTERFD1	43.60%	-22.70%
COPA	143.72%	-22.67%
AC005534.6,AC022431.1,RPL26P1	75.86%	-22.56%
CHN2	74.00%	-22.27%
RP5-961K14.1,MYST2,AC009720.1	17.49%	-22.17%
RANP1,RANP1,AC079789.1,RANP1	145.23%	-22.08%
C7orf23	118.97%	-22.03%
OGT	465.07%	-21.99%
SAMD9L	411.58%	-21.91%
RPL37AP1,RPL37A	10.36%	-21.84%
S100A10	13.53%	-21.82%
ARMC1	195.99%	-21.76%
CRISPLD2	162.37%	-21.74%
CCL3,CCL3L1,CCL3L1,TBC1D3C	229.34%	-21.46%
ZNF542	31.21%	-21.11%
RPL7,AC011382.4-1,AC010601.6,R	53.46%	-21.04%
MAP4K4	131.14%	-20.85%
UQCRB,UQCRBP1	27.38%	-20.64%
MDM2	362.11%	-20.62%
CCDC59	23.60%	-20.60%
RPL23A,RPL23AP38,HSD17B12	65.42%	-20.51%
CEP192	56.16%	-20.45%
RP11-396K3.1,GTF2I	25.39%	-20.44%
TFG	291.70%	-20.39%
RPL34	153.30%	-20.30%
RP4-761I2.3	91.88%	-20.19%
MITD1	130.90%	-20.14%
VAC14	2154.36%	-20.07%
SAP18,AC013733.5	57.68%	-20.01%