

Supplemental Table 6

	Molecule Type	p-value of overlap	Target Molecules in Dataset	Mechanistic Network
Upstream Regulator	transcription regulator	5.57E-05	BDNF, DIO2, PAX6, RAX, ROBO2, SIX6	© 2000-2020 QJAGEN. All rights reserved.
LHX2	other	7.74E-05	PROX1, SERPINE1, TGFBR3	
GIPC1	transcription regulator	3.72E-04	HOXD10, HOXD9, PROX1	
HOXD8	transcription regulator	6.24E-04	AXIN2, BCL2L11, BMP1, BMP4, C15orf48, CD82, CDH2, CNR1, GATA4, GBX2	
EZH2	chemical drug	7.32E-04	PTK2, SERPINE1	
ibilone	chemical - endogenous non-mammalian	8.42E-04	ACTA2, BDNF, DUSP6, EGR2, mir-329, NPTX2, PFKFB3	
bicuculline	enzyme	9.99E-04	AXIN2, BMP4, GATA4	
RG519	other	9.99E-04	KIR2DL1, KIR2DL3, KLRC1, KLRD1	
MLANA	transcription regulator	1.07E-03	BDNF, GATA4, GBX2, IL1R1, LHX8, MUC2, MUC5B, PAX6, PCDHB11, PCDHB12	
CTCF	transcription regulator	1.15E-03	GATA4, HAND1, HOXA5, HOXA7, HOXC5, NKX2-2, SERPINA1	7 (2)
RNF2	transcription regulator	1.20E-03	GBX2, HAND1, PLAGL1, POU3F3	
DLX6	transcription regulator	1.31E-03	ABHD12B, ACTA2, AXIN2, BCL2L11, BDNF, BMP1, BMP4, CD47, CDH2, CNR1	42 (2)
CTNBB1	transcription regulator	1.47E-03	GBX2, POU3F3, SERPINE1	
DLX1	enzyme	1.84E-03	CDH2, EBF2, HOXA9, NKX2-2, OLIG1, PRDM16, SERPINE1	
PRMT1	transcription regulator	1.96E-03	AFF3, AXIN2, BCL2L11, CD86, EGR2, ERG, FGR, KLRC1, LCE3D, MMP25	
PRDM1	transcription regulator	2.06E-03	GATA4, HOXA7, NKX2-2	
RYBP	chemical reagent	2.16E-03	AXIN2, CD47	
ICRT14	chemical drug	2.16E-03	ACTA2, SERPINE1	
TT1-101	other	2.21E-03	DLX1, EN1, GSK1, SP9	
PPP4R3A	transcription regulator	2.28E-03	ACTA2, AXIN2, CDH2, FLRT2, OLIG1, PTK2, SELPLG, SERPINE1, ST3GAL5, TNFSF11	
RUNX2	microRNA	2.29E-03	ACTA2, CD47, CDH2, CLDN3, ERFF1, GATA4, HOXA5, PCDH10, PIP5K1A, PTK2	
mir-8	transcription regulator	2.64E-03	CHD9, HOXA5, HOXA7, HOXA9	
PBX3	transcription regulator	2.80E-03	BMP4, DEDD2, DHX34, HDACS, HSPB1, MAPT, PRAME, RAD51B, RPL22, TMPRSS3	
HSF1	group	3.50E-03	BMP4, CTNNA2, DIO2, IL1R1, SERPINA1, SERPINA3, SERPINA5, SERPINE1	42 (2)
TCF	chemical drug	3.62E-03	ACTA2, SERPINE1, SOD1	
tetrathiomolybdate	enzyme	3.96E-03	CNR1, FBXO32, GATA4, HAND1, HOXC12, HOXD10, LAMC2, PAX6, PCDH10, UHMK1	26 (2)
SUZ12	other	4.23E-03	BMP4, TNFSF11	
LRP4	other	4.23E-03	BDNF, CD86	
MZB1	chemical reagent	4.23E-03	BMP1, BMP4	
PMX 205	chemical drug	4.23E-03	BDNF, HDACS	
lamotrigine	transcription regulator	4.61E-03	DLX1, GSK1, PAX6	
GSX2	other	4.61E-03	ACTA2, BMP4, PAX6	
FRS2	group	4.73E-03	ABG, FEM1C, GYS1, LZTF11, NUDT13, PAM, PGAM1, RIPPLY3, SERPINE1, ULBP1	
EGLIN	chemical drug	4.76E-03	B3GALT5, BCL2L11, BDNF, BMP4, BRCA2, CD226, CD86, CDH2, CRMP1, EIF4E	
decitabine	chemical reagent	4.79E-03	APBA2, BDNF, MAPT, SERPINE1, SOD1	
M344	chemical reagent	4.86E-03	ACTA2, COL8A2, DUSP6, FZD7, GREM1, LBH, MLPH, PCDH10, STK38L, TP5311	
molybdenum disulfide	transcription regulator	5.32E-03	HOXA5, HOXA7, HOXA9, RPL22, SERPINE1	
ASXL1	transcription regulator	5.54E-03	BCL2L11, BFAI, BMP4, CASP10, CDH2, DLX1, EN1, GATA4, GBX2, HAND1	
POU5F1	transcription regulator	5.69E-03	GBX2, HAND1, PLAGL1, POU3F3	
DLX5	enzyme	5.75E-03	KIR2DL1, KIR2DL3, KLRC1, KLRD1	
TYR	chemical drug	5.89E-03	BDNF, CLDN3, PHB, SLC6A5, YWHAQ	
ouabain	chemical - other	5.92E-03	ANLN, B3GALT5, BDNF, CDC126, DCLK2, DUSP6, EGR2, HDACS, LBH, NRN1	
2-amino-5-phosphonvaleric acid	other	6.80E-03	BRCA2, HIF3A, LIN28B, MAP2K6, SERPINE1, TJP2, TMPRSS3	
MACROH2A1	other	6.93E-03	AXIN2, TNFSF11	
FAF1	transcription regulator	6.93E-03	MAPT, NRN1	
ELAVL4	chemical drug	6.93E-03	BDNF, GRIN2B	
flenprodil	other	7.05E-03	NKX2-2, NNAT, PAX6	
Nkx2-2os	microRNA	7.05E-03	ERG, HOXA7, HOXA9	
mir-196	transmembrane receptor	7.05E-03	ACTA2, CD86, PTK2	
NRP1	group	7.05E-03	ACTA2, CDH2, SERPINE1	
Smad2/3/4	complex	7.85E-03	GATA4, HAND1, HOXD10, OLIG1, PCDH10	
PRC2	transcription regulator	8.22E-03	BMP4, EN1, GBX2, NKX2-2, PAX6, THBS4	
OTX2	transcription regulator	8.50E-03	NKX2-2, PAX6, YAP1	
NEUROG2	enzyme	8.60E-03	HOXA5, HOXA7, HOXA9, HOXC5, HOXD10	
KAT6A	growth factor	8.66E-03	ACTA2, BMP1, BMP4, CAV2, CDH2, FZD7, GREM1, NUDT13, PAX6, PRDM16	
BMP7	kinase	9.32E-03	BCL2L11, BMP4, CD86, EGR2, NPTX2, SOD1, TNFSF11	
MAPK3	transcription regulator	1.01E-02	CASP10, HSPB1, SERPINE1	
DAXX	other	1.02E-02	CDH2, SERPINE1	
LINC00842	other	1.02E-02	BCL2L11, TNFSF11	
MN1	peptidase	1.02E-02	ACTA2, PTK2	
OTUD7B	other	1.02E-02	DIO2, PRDM16	
BGLAP	transcription regulator	1.02E-02	HOXD10, HOXD9	
HOXD9	transporter	1.02E-02	CLDN3, MUC5B	
AQP5	other	1.02E-02	RPLP1, RPLP2	
GNRH2	other	1.02E-02	CDH2, SERPINE1	
NET1	cytokine	1.03E-02	ACTA2, AXIN2, BMP4, EIF4E, LBH, MRA5, NKX2-2, SERPINE1, TERC	
WNT1	enzyme	1.17E-02	EGR2, GATA4, HOXA9, PAX6	
TET1	enzyme	1.17E-02	CNTN4, GRIN2B, MTMR7, ROBO2	
SETDB1	enzyme	1.17E-02	GATA4, HAND1, NKX2-8, PAX6	
AHCY	G-protein coupled receptor	1.19E-02	ACTA2, BMP4, GATA4	
FZD8	enzyme	1.21E-02	ACTA2, BDNF, EGR2, OLIG1, SPI1	
DGCR8	other	1.21E-02	BMP4, EGR2, LAMC2, SERPINE1, TGFBR3	
TIMP3	other	1.30E-02	BCL2L11, MTERF1, PRDM16, SERPINE1	
FLCN	transcription regulator	1.30E-02	CHD9, HOXA5, HOXA7, HOXA9	
MES1	growth factor	1.31E-02	ACTA2, AXIN2, LAMC2, SERPINE1, TGFBR3	
CCN5	transcription regulator	1.37E-02	AKT3, BDNF, CA10, CALM1, CDH2, CIART, CRMP1, CTNNA2, DIO2, EGR2	
CREB1	other	1.39E-02	HOXA5, HOXA9, HOXD10	
EMD	peptidase	1.39E-02	ACTA2, CDH2, GRIN2B, MDM4, NR2E1, PAX6, SLC45A2	
ADAM10	group	1.40E-02	BDNF, GRIN2B	
dopamine D1 receptor	G-protein coupled receptor	1.40E-02	DIO2, PRDM16	
GPRC6A	other	1.40E-02	CDH2, PFKFB3	
BCAR4	chemical drug	1.40E-02	BDNF, PTK2	
penfluridol	kinase	1.40E-02	LHX8, SERPINE1	
WNK1	kinase	1.40E-02	ERFF1, PIP5K1A	
PIP5K1C	G-protein coupled receptor	1.40E-02	BDNF, EGR2	
ADCYAP1R1	complex	1.40E-02	HOXA-AS3, HOXA11-AS	
Cohesin	chemical drug	1.42E-02	CNTN4, EXOC6B, GPC6, NNAT, PDE4B, PTK2, RBFOX1, RC3TB2, ROBO2, TIAM1	
topotecan	growth factor	1.43E-02	ACTA2, BMP4, CD86, EGR2, KCNQ1OT1, LIPG, SERPINE1, TGFBR3	
TGFB2	growth factor	1.47E-02	BMP4, DLX1, EN1, ERFF1, GBX2, LHX8, PAX6	
FGF8	chemical drug	1.52E-02	PDHA2, PFKFB3, PGAM1, SERPINE1, TJP2	
salirasib	enzyme	1.54E-02	AFF3, BCL2L11, CBR1, FCN1, GATA4, IL1R1, PAX6, RAB44, RNF144A	
TET2	transcription regulator	1.58E-02	ACTA2, HPSE, PTK2, WWTR1	
ETV4	chemical drug	1.58E-02	BCL2L11, BDNF, CD86, PDE4B	
rolipram	transcription regulator	1.60E-02	PDE4B, PDE4C, PDE7A	
NONO	enzyme	1.68E-02	AXIN2, BCL2L11, BDNF, CD226, CD86, EGR2, KCNQ1OT1, LIPG, RAD23A, RBFOX1	
DICER1	complex	1.83E-02	CSNK2A1, SERPINA3, VPS4A	
ACHR	microRNA	1.83E-02	ACTA2, BDNF, BRCA2, CDH2, DUSP6, GMNN, LIN28B, NR2E1, PLAGL1, SERPINE1	
let-7	other	1.84E-02	ARL2, HOXA9	
UCA1	transcription regulator	1.84E-02	BCL2L11, CASP10	
ARID3B	growth factor	1.84E-02	BMP4, GREM1	
LTBP4	other	1.84E-02	PCDH11, PCDHB8	
STAG1	chemical drug	1.84E-02	BDNF, HDACS	
levetiracetam	complex	1.84E-02	CDYL, GBX2	
OCT4-NANOG	peptidase	1.84E-02	MDM4, SERPINE1	
USP2	other	1.84E-02	ACTA2, TGFBR3	
SDC2	transcription regulator	1.84E-02	HOXA7, HOXA9	
PSIP1	other	1.84E-02	AXIN2, FZD7	
CCDC80	other	1.84E-02	ACTA2, PTK2	
ACTA2	other	1.84E-02		

SERPINE1	other	1.84E-02	CDH2,SERPINE1
cinnamon powder	chemical reagent	1.84E-02	GYS1,MAPT
NROB2	ligand-dependent nuclear receptor	1.99E-02	BAA1,CD86,CYP7B1,ESRRG,mir-329,mir-541,SERPINE1
DOT1L	phosphatase	2.07E-02	HOXA9,SPI1,UBB
ITGA9	other	2.07E-02	ACTA2,CDH2,TNFSF11
CCN3	growth factor	2.07E-02	BMP4,GREM1,SERPINE1
TGFB	group	2.32E-02	ACTA2,TNFSF11
cytidyl-3'-5'-guanosine	chemical reagent	2.32E-02	BCL2L1,CD86
CPEB4	other	2.32E-02	GPC6,RBFOX1
AGRN	other	2.32E-02	BMP4,MAPT
WNT5B	other	2.32E-02	ACTA2,PROX1
CDKN2B	transcription regulator	2.32E-02	CD86,SERPINE1
PPP1CA	phosphatase	2.32E-02	CDH2,WWTR1
SLC30A3	transporter	2.32E-02	BDNF,GRIN2B
2-oxoglutaric acid	chemical - endogenous mammalian	2.32E-02	ACTA2,DIO2
TGFA	growth factor	2.38E-02	ERRF1,LAMC2,MUC2,PLAGL1,SERPINA1,SERPINE1
NANOG	transcription regulator	2.43E-02	DLX1,EN1,GATA4,GBX2,NKX2-2,PAX6,PRDM14,RIPPLY3
tetradecanoylphorbol acetate	chemical drug	2.62E-02	APRT,BDNF,CAV2,CD226,DIO2,DUSP6,EGR2,EIF4E,EN1,ERRF1
STK4	kinase	2.62E-02	BCL2L1,WWTR1,YAP1
SIX5	transcription regulator	2.62E-02	EBF2,PTN,TWIST2
HE11	transcription regulator	2.62E-02	ACTA2,GATA4,PROX1
1-methyl-4-phenylpyridinium	chemical toxicant	2.62E-02	BCL2L1,MAPT,SOD1
SB 290157	chemical reagent	2.62E-02	BMP1,BMP4,CD86
PP2A/G1879 tyrosine kinase inhibitor	chemical - kinase inhibitor	2.64E-02	BCL2L1,CDH2,FGFR,HOXD10,MAPT,SERPINE1
spironolactone	chemical drug	2.64E-02	BMP4,NR3C2,PRDM16,SLC22B1,ULBP1,ULBP2
MSX2	transcription regulator	2.64E-02	BMP4,CDH2,EGR2,PROX1
NKX2-5	transcription regulator	2.64E-02	ACTA2,DIO2,GATA4,HAND1
FOXP3	transcription regulator	2.68E-02	AKT3,ANLN,BCL2L1,CD101,CD226,DUSP6,mir-1206,NRN1,PLAGL1,TLR10
9-hydroxy-(5)-10,12-octadecadienoic acid	chemical - endogenous mammalian	2.71E-02	SERPINE1
ergosterol	chemical - endogenous mammalian	2.71E-02	BCL2L1
ORG 34517	chemical drug	2.71E-02	NR3C2
TRIM72	enzyme	2.71E-02	ACTA2
Becn2	other	2.71E-02	CNR1
Hdac-Rcor-Rest-Sin3a	complex	2.71E-02	BDNF
diacyl lipopeptide	chemical - other	2.71E-02	TNFSF11
selective serotonin reuptake inhibitor	chemical drug	2.71E-02	BDNF
miocamycin	chemical drug	2.71E-02	MUC2
loxoprofen	chemical drug	2.71E-02	MUC2
Morrbid	other	2.71E-02	BCL2L1
uridine triacetate	chemical drug	2.71E-02	BDNF
EMC2	other	2.71E-02	TRPC6
MSMB	other	2.71E-02	LIN28B
PRPF31	other	2.71E-02	MDM4
MCAT	enzyme	2.71E-02	LY96
IDH3B	enzyme	2.71E-02	PFKFB3
KREMEN1	other	2.71E-02	AXIN2
HOXD1	transcription regulator	2.71E-02	HOXD10
CAS4	other	2.71E-02	PTK2
TMPPSS2	peptidase	2.71E-02	ERG
MARCHF6	enzyme	2.71E-02	DIO2
B3GNT6	enzyme	2.71E-02	MUC2
USP9Y	peptidase	2.71E-02	MUC2
B3GALT1	enzyme	2.71E-02	B3GALT5
CARF	transcription regulator	2.71E-02	BDNF
Pantr2	other	2.71E-02	POU3F3
CDCA4	other	2.71E-02	GMNN
NLRP6	G-protein coupled receptor	2.71E-02	IL22RA2
CCDC47	other	2.71E-02	TRPC6
HOXD13	transcription regulator	2.71E-02	HOXD9
CLSTN1	other	2.71E-02	GRIN2B
EMC6	other	2.71E-02	TRPC6
Chr	group	2.71E-02	BDNF
black cohosh extract	chemical drug	2.71E-02	SERPINE1
USP39	peptidase	2.71E-02	MDM4
ginsenoside Rh1	chemical - endogenous non-mammalian	2.71E-02	BDNF
PRCC	other	2.71E-02	SERPINE1
DYNLRB1	other	2.71E-02	SERPINE1
BSN	other	2.71E-02	BDNF
MYLFP	other	2.71E-02	ACTA2
CXCR5	G-protein coupled receptor	2.71E-02	TNFSF11
PRL-3 inhibitor 1	chemical reagent	2.71E-02	ULBP2
KIF5A	transporter	2.71E-02	GABRB2
TSTA3	enzyme	2.71E-02	ACTA2
UBE2K	transcription regulator	2.71E-02	UBD
miR-1258 (miRNAs w/seed GUUAGGA)	mature microRNA	2.71E-02	HPSE
mir-1258	microRNA	2.71E-02	HPSE
miR-2861 (and other miRNAs w/seed GGGCCUG)	mature microRNA	2.71E-02	HDC5
miR-571 (miRNAs w/seed GAGUUGG)	mature microRNA	2.71E-02	GMNN
miR-1275 (and other miRNAs w/seed UGGGGGA)	mature microRNA	2.71E-02	HAND2,AS1
KREMEN2	other	2.71E-02	AXIN2
IFI6	other	2.71E-02	BCL2L1
HCN1	ion channel	2.71E-02	BDNF
3,4-diaminopyridine	chemical drug	2.71E-02	BDNF
GPRASP1	transporter	2.71E-02	CNR1
WDR61	other	2.71E-02	HOXA9
ITH5	other	2.71E-02	ACTA2
MYT1L	transcription regulator	2.71E-02	RBFOX1
GRIN2A	ion channel	2.71E-02	BDNF
SEM1	peptidase	2.71E-02	BRCA2
KIF17	transporter	2.71E-02	GRIN2B
WDR830S	other	2.71E-02	TRPC6
RXF1	G-protein coupled receptor	2.71E-02	ACTA2
ADAM19	peptidase	2.71E-02	EGR2
GDF10	growth factor	2.71E-02	SERPINE1
alpelisib	chemical drug	2.71E-02	BCL2L1
UBL5	other	2.71E-02	MDM4
NTSR1	G-protein coupled receptor	2.71E-02	BDNF
EEF2	translation regulator	2.71E-02	BDNF
UNC0224	chemical reagent	2.71E-02	BDNF
diacetylbis(4-methylthiosemicarbazonato)copper(II)	chemical reagent	2.71E-02	SOD1
NHP2	other	2.71E-02	TERC
GDC-0623	chemical drug	2.71E-02	BCL2L1
annonacin	chemical reagent	2.71E-02	MAPT
ralaniten	chemical reagent	2.71E-02	UBE2C
methaneselelol	chemical - endogenous non-mammalian	2.71E-02	ULBP2
AZ10606120	chemical reagent	2.71E-02	CD86
atomoxetine	chemical drug	2.71E-02	BDNF
zolpidem	chemical drug	2.71E-02	BDNF
rivastigmine	chemical drug	2.71E-02	BDNF
SU9597	chemical - kinase inhibitor	2.71E-02	PAX6

SDM25N	chemical reagent	2.71E-02	CD86
GSK2656157	chemical - kinase inhibitor	2.71E-02	BDNF
N-acetylsertotonin	chemical - endogenous mammalian	2.71E-02	BDNF
myrcene	chemical - endogenous non-mammalian	2.71E-02	SOD1
cineole	chemical drug	2.71E-02	SOD1
SMAD3-EP300	complex	2.71E-02	SERPINE1
cyclololeucine	chemical toxicant	2.71E-02	PHB
fucose	chemical - endogenous mammalian	2.71E-02	ACTA2
Cr3+	chemical reagent	2.71E-02	TNFSF11
3,4,5,3',4'-pentachlorobiphenyl	chemical toxicant	2.78E-02	AKR1A1,BDNF,BMP4,PTGFR,SLCO2B1,SLCO3A1
cercosporin	chemical - endogenous non-mammalian	2.85E-02	ACTA2,AXIN2
SPRY4-IT1	other	2.85E-02	CDH2,CLDN3
MEOX1	transcription regulator	2.85E-02	BMP4,GATA4
RELN	peptidase	2.85E-02	BDNF,GRIN2B
GBX2	transcription regulator	2.85E-02	EGR2,EN1
HOXA1	transcription regulator	2.85E-02	EGR2,GATA4
midazolam	chemical drug	2.85E-02	BDNF,CD86
CGP 42112	chemical reagent	2.85E-02	MAPT,UBE2V2
EED	transcription regulator	2.85E-02	BDNF,GATA4,HOXC12,OLIG1
pituitary adenylate cyclase-activating polypeptide	biologic drug	2.85E-02	AXIN2,DUSP6,ERRF1,SEMA6D
EBF2	transcription regulator	2.92E-02	DIO2,NTM,THBS4
LRPAP1	other	2.92E-02	ACTA2,SERPINA3,SERPINE1
kainic acid	chemical toxicant	3.04E-02	BDNF,CIART,CNR1,CRMP1,EGR2,ERRF1,GABRB2,NPTX2,NR3C2
MET	kinase	3.07E-02	BMP1,CDH2,FBXO32,HSPB1,MPP7,ONECLT2,SLCO3A1,SOD1
SNAI2	transcription regulator	3.13E-02	BCL2L11,BRCA2,CDH2,EGR2,TWIST2
tretinoin	chemical - endogenous mammalian	3.19E-02	AKR1A1,APBA2,B3GALT5,BMP4,CBR1,CD101,CD47,CD82,CD86,CDH2
tetrachlorodibenzodioxin	chemical toxicant	3.20E-02	AKR1A1,BDNF,BMP4,CBR1,CD86,ESRRG,FZD7,HDAC5,HOXD10,KCNA3
TGFBR1	kinase	3.22E-02	ACTA2,BMP4,CD86,EGR2,MUC2,SERPINE1
PHF1	transcription regulator	3.23E-02	HOXA9,HOXD10,HOXD9
AZGP1	transporter	3.23E-02	BMP4,FBXO32,GYS1
K-252	chemical drug	3.23E-02	BDNF,HPSE,NRN1
EFNA5	kinase	3.31E-02	BDNF,DUSP6,NTM,UBE2C
PCGF2	transcription regulator	3.31E-02	CDH2,GATA4,HOXA7,NKX2-2
INS	other	3.37E-02	ACTA2,EGR2,EIF4E,ERRF1,PRDM16,SDHC,SOD1,SSTR1,YAP1
EPHB1	kinase	3.42E-02	EGR2,SERPINE1
RLIM	enzyme	3.42E-02	CDH2,SERPINE1
HAS2	enzyme	3.42E-02	ACTA2,PTK2
TBX1	transcription regulator	3.42E-02	BMP4,GBX2
ATP7A	transporter	3.42E-02	PAM,PTK2
ENTPD1	enzyme	3.42E-02	CD86,SERPINE1
carbamazepine	chemical drug	3.42E-02	BDNF,HDAC5
rosmarinic acid	chemical - endogenous non-mammalian	3.42E-02	ACTA2,BDNF
scopolamine	chemical drug	3.42E-02	BDNF,MAPT
MYC	transcription regulator	3.47E-02	AEBP2,BCL2L11,BDNF,CASP10,CD47,CD86,CDH2,DNPH1,DUSP6,EGR2
bucladesine	chemical toxicant	3.48E-02	AXIN2,BDNF,CD86,CDH2,DIO2,DUSP6,EGR2,ERRF1,PDE4B,PDE4C
MAPK9	kinase	3.49E-02	BCL2L11,BMP1,BMP4,DIO2,EIF4E,MUC5B,NR3C2,SELPGLG,SERPINA1
POLR2A	enzyme	3.50E-02	EGR2,GATA4,HOXA9,UHMK1,YAP1
ZFX3	transcription regulator	3.54E-02	RPL37,RPLP2,SERPINA1,SIX6,SP9,VAX1
HOTAIR	other	3.55E-02	ACTA2,CDH2,LAMC2,PCDH10
UTP	chemical - endogenous mammalian	3.57E-02	CDH2,KCNA4,SERPINE1
NKX2-2-AS1	other	3.57E-02	EBF2,PHYH,PRDM16
DTX1	transcription regulator	3.57E-02	CD82,DUSP6,UHMK1
IL15	cytokine	3.64E-02	BCL2L11,CD226,CD86,EGR2,EIF4E,IL1R1,IL21R,KIR2DL1,KIR2DL3,KLRG1,KLRD1
FOXA1	transcription regulator	3.72E-02	ACTA2,EN1,HNF4G,MUC2,MUC5B,NPTX2,PAM,PAX6,SOD1
SPHK1	kinase	3.80E-02	ACTA2,BCL2L11,MAP2K6,SERPINE1
SLC13A1	transporter	3.88E-02	GPC6,HSPB1,NRN1,RAD51B,RPN1,TFG
collagen type I (family)	group	3.92E-02	CDH2,SERPINE1,TWIST2
beraprost	chemical drug	4.04E-02	CD86,SOD1
WWC1	transcription regulator	4.04E-02	CDH2,YAP1
LAMTOR5	other	4.04E-02	EIF4E,LIN28B
STAR	transporter	4.04E-02	CD86,NR1H2
CCR7	G-protein coupled receptor	4.04E-02	BCL2L11,CD86
SH3BP1	other	4.04E-02	CD86,SERPINE1
CDH5	other	4.04E-02	CDH2,TIAM1
ELN	other	4.04E-02	CD86,PTK2
Col17a1	other	4.04E-02	AXIN2,SERPINA1
bisphenol A diglycidyl ether	chemical reagent	4.04E-02	ACTA2,SERPINE1
PFS43	chemical - kinase inhibitor	4.05E-02	ACTA2,DIO2,FGR,XIRP1
DK1	growth factor	4.11E-02	ACTA2,AXIN2,BDNF,BMP4,LBH
PPARGC1A	transcription regulator	4.20E-02	BMP4,DIO2,EBF2,FBXO32,GPC6,LAMB1,LDHB,MAP2K6,PGAM1,PHYH
HOXA7	transcription regulator	4.28E-02	ERG,HOXA7,KCNA3
NFATC3	transcription regulator	4.33E-02	ACTA2,CASP10,EGR2,MUC2,TNFSF11
GDNF	growth factor	4.33E-02	BDNF,EGR2,NNAT,NRN1,PAX6
CG	complex	4.65E-02	ACTA2,BDNF,CDH2,DUSP6,EIF4E,GATA4,GREM1,HPSE,LIN28B,NR1H2
KDM6B	enzyme	4.67E-02	BHLHE23,CDH2,HOXC12
WP1066	chemical drug	4.69E-02	ACTA2,CD86
PPP3CB	phosphatase	4.69E-02	FBXO32,KLRD1
EN1	transcription regulator	4.69E-02	PAX6,TNFSF11
methylene blue	chemical drug	4.69E-02	BDNF,MAPT
S-equal	chemical drug	4.69E-02	CD86,SERPINE1
Calcineurin protein(s)	complex	4.78E-02	BCL2L11,BDNF,EGR2,SERPINE1,TRPC6
CDX2	transcription regulator	4.85E-02	AXIN2,B3GALT5,HOXA5,HOXA7,HOXA9,KCN115,LAMC2,MUC2
PLK1	kinase	4.89E-02	ACTA2,BCL2L11,CDH2,GMNN
BRD2	kinase	4.89E-02	CD47,LIN28B,LV9,RPN1
MYCN	transcription regulator	4.98E-02	AEBP2,GATA4,HDAC5,OLIG1,PHB,PTK2,RPL22,RPL37,RPLP1,RPLP2