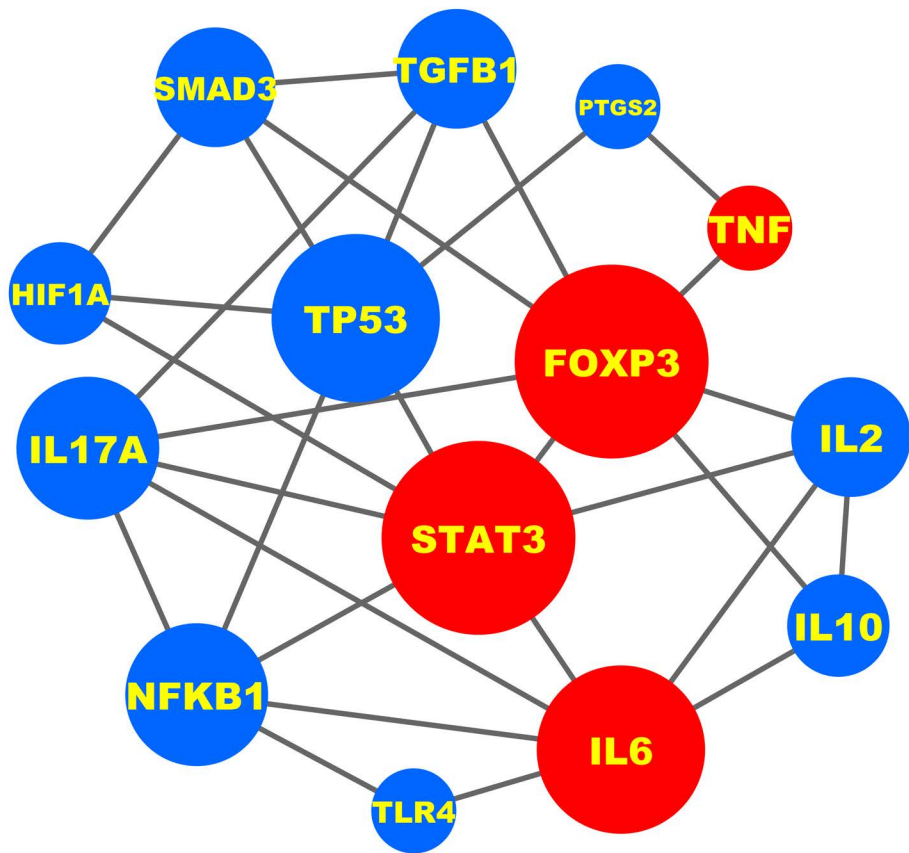


Supplemental figure 1. Interaction network of subcore genes. Interaction network of subcore genes, and grey edges indicating functional interaction obtained from the STRING database (version 10.0) with minimum required interaction score larger or equal to 0.95. The size of the nodes is proportional to the number of edges connected to the node. Red represents the key genes; blue represents the genes most shared among the cholangiopathies.

Supplemental figure 2. Comparison of genes, biological processes and experimental phenotypes among core genes and genes associated with intrahepatic cholestasis (IHC) and polycystic liver disease (PLD). (A) Venn diagram showing the degree of overlap of the 34 core genes in BA, PBC and PSC and the genes associated with IHC and PLD. (B) Top 10 enriched biological processes for genes associated with IHC and PLD. (C) Top 10 enriched mouse phenotypes for genes associated with IHC and PLD.

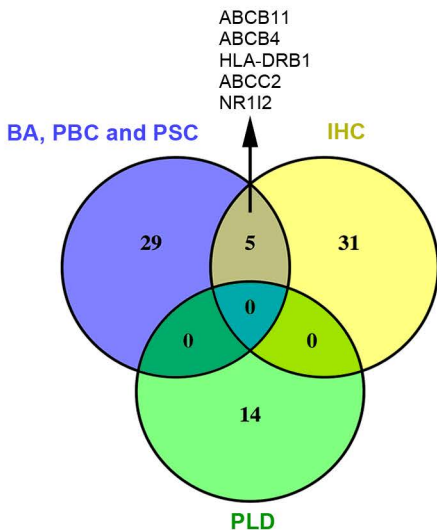
Supplemental figure 3. Expression of genes following the activation of RAGE signaling in cholangiocytes. mRNA expression levels of *TNF*, *ACTA2*, *COL1A1*, *SMAD3*, *STAT3*, and *NFKB1* in H69 cells treated with PBS control, HMGB1 or HMGB1 plus RAGE Fc protein. Expression was normalized against *GAPDH*. Values as mean \pm SD, N=3.

Supplemental figure 1

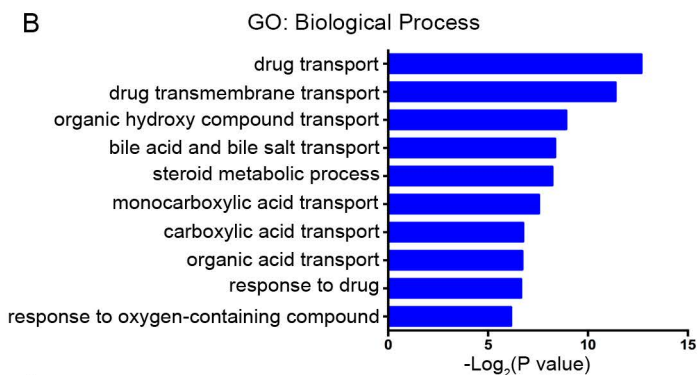


Supplemental figure 2

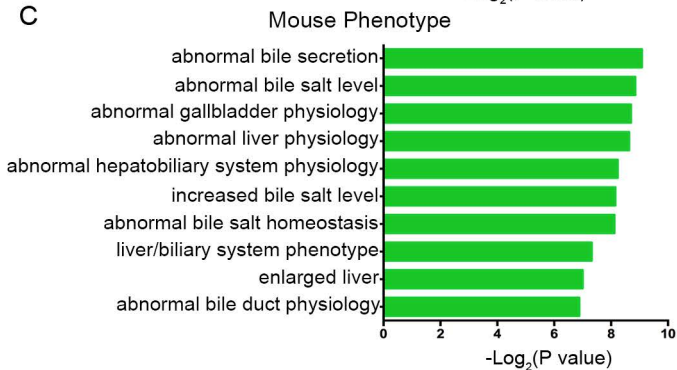
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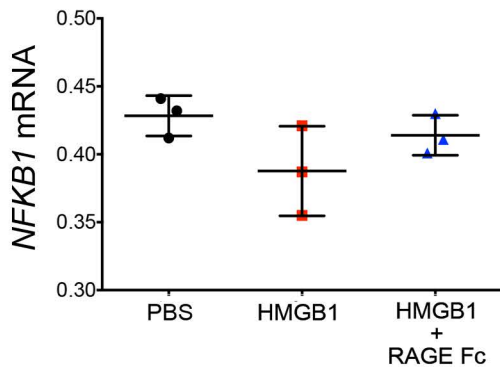
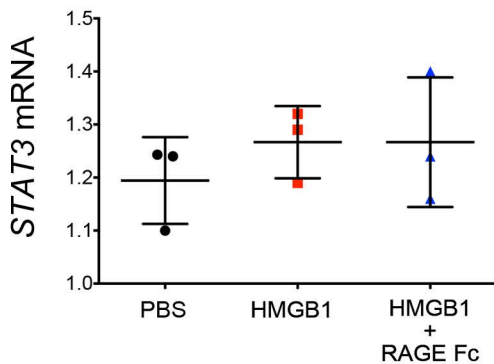
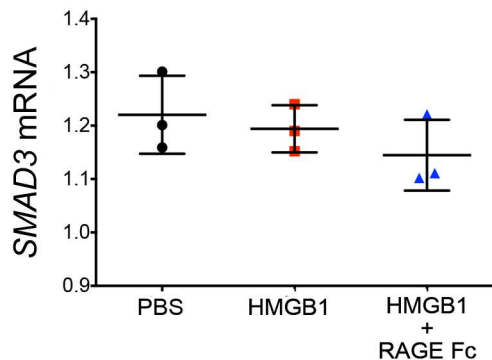
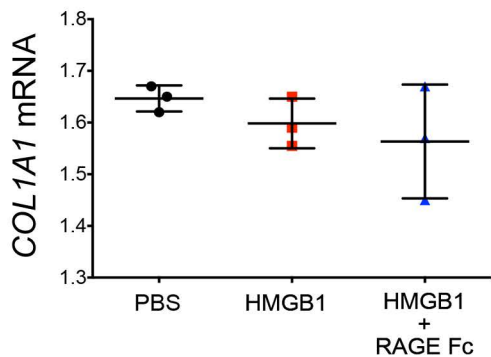
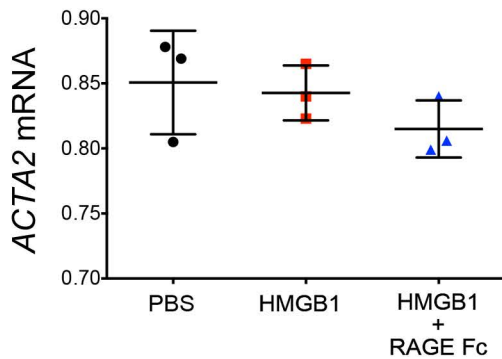
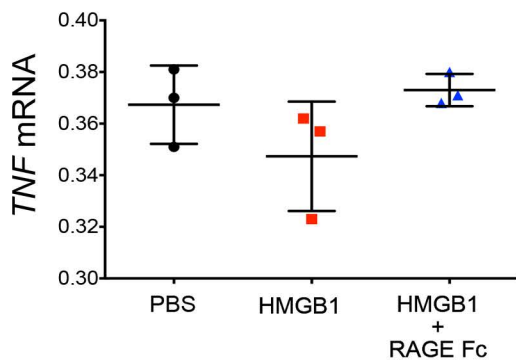
B



C



Supplemental figure 3



SUPPORTING METHODS

“Gene-disease associations identify a connectome with shared molecular pathways in human cholangiopathies” Luo Z, et al.

Mining tools and databases

The human interactome was downloaded from Menche et al (1). The interactome contained 13,460 proteins with 141,296 interactions. It had several sources of protein interactions, including: (i) transcription factor (TF) regulatory interactions (ii) binary interactions from yeast two-hybrid assay; (iii) literature-curated interactions; (iv) metabolic enzyme-coupled interactions; (v) kinase-substrate pairs, and (vi) signaling interactions. Hub genes were defined by the top 20% of nodes ranked by degree in the human interactome.

The essential gene list was downloaded from Dickinson et al (2), an updated list that contains 3,326 genes by combining the published data from the MGI database and 608 genes identified in the IMPC effort as causing lethality and subviability.

To compile information on experimental human TF binding, we downloaded ChEA_2015 and ENCODE_TF_ChIP-seq_2015 datasets from Enrichr, and TF binding information between 1 kb upstream and downstream of transcription initiation sites (TSSs) from ChIPbase V2.0 databases (3, 4). These datasets contain experimentally validated TF binding information collected from literatures and the ENCODE project (5). We merged the duplication information and removed mouse TF binding information from these datasets. Experimentally

verified human miRNA target information was compiled from miRecords (version 4, April 27, 2013), miRTarBase (Release 6.1) and miRWalk 2.0 databases (6-8). We constructed a TF-miRNA-subcore gene co-regulatory network by combining experimental human TF binding information, experimental miRNAs target information and subcore genes lists. The lists of TFs and miRNAs that target subcore genes and co-regulatory network are summarized in Supplemental Table 3, 4 and 5. We identified TF feed forward loops, miRNA feed forward loops and TF-miRNA composite feed forward loops using in-house Python scripts which is available in <https://github.com/Zhenhualuo/TFs-miRNAs-Feed-Forward-Loop>. In TF-FFL, TF is the master regulator that regulates miRNA and their shared target, while in miRNA-FFL, miRNA is the master regulator. TF-FFL and miRNA-FFL can be concatenated into TF-miRNA composite FFL, in which TF and miRNA regulate each other. All the TF-FFL, miRNA-FFL and TF-miRNA composite FFLs are summarized in Supplemental Table 6.

High confidence protein interaction information of subcore genes was collected from STRING database (version: 10.0) (9). To collect high confidence information, we set the minimum required interaction score to high confidence (0.950).

Statistics tests

We performed 1,000 random permutation and calculated z-score to test the significance of disease associated gene localization and network-based disease separation S using methods from Menche et al(1). The resulting Z-score is defined:

$$Z\text{-score} = \frac{\text{Observed} - \langle \text{Randomized} \rangle}{\sigma}$$

where Observed is observed value, and $\langle \text{Randomized} \rangle$ and σ are the mean and standard deviation, respectively, of values obtained across all randomized permutation sets.

To test whether disease associated proteins have a tendency to agglomerate in neighborhoods in human interactome, we compared the observed LCC size with the size expected for randomly distributed nodes of a set of the same size obtained from 1,000 simulations by computing the z-score.

To quantify the network-based separation S of two cholangiopathies A and B, we compared the mean shortest distances d_{AA} and d_{BB} within the respective diseases with the mean shortest distance d_{AB} between their proteins:

$$S = d_{AB} - \frac{d_{AA} - d_{BB}}{2}$$

To test the significance of network separation of disease pairs, we compared the observed network-based separation S with the size expected for randomly distributed nodes of a set of the same size obtained from 10,000 simulations by

computing the Z-score. The LCC size, network-based disease separation S and Z-score were calculated using methods and Python scripts from Menche et al (1). We performed random permutation analysis to evaluate if the feed forward loops (FFLs) we observed were significantly enriched against cholangiopathies associated gene background using in-house Python scripts (<https://github.com/Zhenhualuo/TFs-miRNAs-Feed-Forward-Loop>). We fixed TFs and miRNAs, and randomly selected cholangiopathies associated genes with the same number of subcore genes. Then, we calculated number of FFLs in the permutation network. We repeated random permutation 1,000 times. To test the significance, we compared the number of observed FFLs with the number of random permuted FFLs by computing Z-score.

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Author names in bold designate shared co-first authorship.

Supplemental Table 1: The cholangiopathies gene associations. This table shows the cholangiopathies (Biliary Atresia, Primary Biliary Cholangitis and Primary Sclerosing Cholangitis) gene associations information.

Disease	Entrez ID	Gene Symbol	Association Evident	PubMed ID
Biliary Atresia	728294	D2HGDH	Genetic association	20358598
Biliary Atresia	653437	AQP12B	Genetic association	20358598
Biliary Atresia	375318	AQP12A	Genetic association	20358598
Biliary Atresia	285193	DUSP28	Genetic association	20358598
Biliary Atresia	285093	RTP5	Genetic association	20358598
Biliary Atresia	222546	RFX6	Mutation	26761945
Biliary Atresia	206338	LVRN	Genetic association	26379158
Biliary Atresia	150684	COMMD1	Genetic association	20358598
Biliary Atresia	149233	IL23R	Experimental model study	26404950
Biliary Atresia	144165	PRICKLE1	Mutation, Experimental model study	26883626
Biliary Atresia	112744	IL17F	Experimental model study	26404950
Biliary Atresia	90865	IL33	Abnormal expression pattern or level, Experimental model study	24892809
Biliary Atresia	89782	LMLN	Mutation	11935322
Biliary Atresia	84289	ING5	Genetic association	20358598
Biliary Atresia	84216	TMEM117	Genetic association	20460270
Biliary Atresia	84141	EVA1A	Genetic association	20358598
Biliary Atresia	80781	COL18A1	Genetic association	26379158
Biliary Atresia	80329	ULBP1	Experimental model study	19662681
Biliary Atresia	80328	ULBP2	Experimental model study	19662681
Biliary Atresia	79919	C2orf54	Genetic association	20358598
Biliary Atresia	79875	THSD4	Genetic association	26379158

Biliary Atresia	79465	ULBP3	Experimental model study	19662681
Biliary Atresia	64788	LMF1	Genetic association	20460270
Biliary Atresia	64321	SOX17	Experimental model study	27081925
Biliary Atresia	57817	HAMP	Genetic association, Abnormal expression pattern or level	18970934
Biliary Atresia	57658	CALCOCO1	Genetic association	20460270
Biliary Atresia	57623	ZFAT	Genetic association	26379158
Biliary Atresia	57140	RNPEPL1	Genetic association	20358598
Biliary Atresia	56955	MEPE	Genetic association	20460270
Biliary Atresia	56253	CRTAM	Experimental model study	19662681
Biliary Atresia	55997	CFC1	Mutation	18162845
Biliary Atresia	54039	PCBP3	Genetic association	20460270
Biliary Atresia	51348	KLRF1	Experimental model study	19662681
Biliary Atresia	51311	TLR8	Abnormal expression pattern or level	21832949
Biliary Atresia	51284	TLR7	Abnormal expression pattern or level	17075576
Biliary Atresia	51281	ANKMY1	Genetic association	20358598
Biliary Atresia	51078	THAP4	Genetic association	20358598
Biliary Atresia	50964	SOST	Abnormal expression pattern or level, Associated with clinical parameters	25659290
Biliary Atresia	50943	FOXP3	Abnormal expression pattern or level, Experimental model study	20347178
Biliary Atresia	27130	INVS	Mutation	11935322
Biliary Atresia	26525	IL36RN	Experimental model study	16328331
Biliary Atresia	26291	FGF21	Abnormal expression pattern or level	27003131
Biliary Atresia	26135	SERBP1	Experimental model study	20097372
Biliary Atresia	25992	SNED1	Genetic association	20358598
Biliary Atresia	25805	BAMBI	Experimental model study	19116990
Biliary Atresia	23192	ATG4B	Genetic association	20358598
Biliary Atresia	23178	PASK	Genetic association	20358598
Biliary Atresia	22914	KLRK1	Experimental model study	19662681

Biliary Atresia	11132	CAPN10	Genetic association	20358598
Biliary Atresia	10653	SPINT2	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	21898507
Biliary Atresia	10631	POSTN	Abnormal expression pattern or level, Associated with clinical parameters	25980529
Biliary Atresia	10563	CXCL13	Abnormal expression pattern or level, Experimental model study	26059850
Biliary Atresia	10494	STK25	Genetic association	20358598
Biliary Atresia	10413	YAP1	Abnormal expression pattern or level, Biomarker	24746211
Biliary Atresia	10379	IRF9	Abnormal expression pattern or level	16083724
Biliary Atresia	9971	NR1H4	Experimental model study	19581828
Biliary Atresia	9970	NR1I3	Abnormal expression pattern or level	18327154
Biliary Atresia	9855	FARP2	Genetic association	20358598
Biliary Atresia	9839	ZEB2	Experimental model study	21336163
Biliary Atresia	9759	HDAC4	Abnormal expression pattern or level, Experimental model study	26109312
Biliary Atresia	9370	ADIPOQ	Genetic association	26884098
Biliary Atresia	9235	IL32	Abnormal expression pattern or level, Experimental model study	23607494
Biliary Atresia	8930	MBD4	Abnormal DNA methylation	21857377
Biliary Atresia	8862	APLN	Abnormal expression pattern or level, Biomarker	23160902
Biliary Atresia	8857	FCGBP	Abnormal expression pattern or level	22761039
Biliary Atresia	8856	NR1I2	Experimental model study	19581828
Biliary Atresia	8842	PROM1	Abnormal expression pattern or level, Associated with clinical parameters, Experimental model study	24798639
Biliary Atresia	8788	DLK1	Abnormal expression pattern or level	14743499
Biliary Atresia	8743	TNFSF10	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	8647	ABCB11	Experimental model study	19581828
Biliary Atresia	8549	LGR5	Abnormal expression pattern or level, Biomarker	27019151
Biliary Atresia	8431	NR0B2	Abnormal expression pattern or level	16628629
Biliary Atresia	8302	KLRC4	Experimental model study	19662681
Biliary Atresia	7547	ZIC3	Mutation	14681828

Biliary Atresia	7511	XPNPEP1	Genetic association	22118303
Biliary Atresia	7431	VIM	Abnormal expression pattern or level	27059791
Biliary Atresia	7429	VIL1	Abnormal expression pattern or level, Associated with clinical parameters	14550699
Biliary Atresia	7422	VEGFA	Abnormal expression pattern or level	26510548
Biliary Atresia	7392	USF2	Genetic association, Abnormal expression pattern or level	18970934
Biliary Atresia	7157	TP53	Abnormal expression pattern or level	20422055
Biliary Atresia	7148	TNXB	Abnormal expression pattern or level	11204487
Biliary Atresia	7124	TNF	Abnormal expression pattern or level, Experimental model study	18393301
Biliary Atresia	7099	TLR4	Abnormal expression pattern or level, Experimental model study	24651485
Biliary Atresia	7098	TLR3	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	7097	TLR2	Experimental model study	24651485
Biliary Atresia	7079	TIMP4	Abnormal expression pattern or level, Experimental model study	26225831
Biliary Atresia	7078	TIMP3	Abnormal expression pattern or level	16226986
Biliary Atresia	7077	TIMP2	Abnormal expression pattern or level	16226986
Biliary Atresia	7076	TIMP1	Experimental model study	20097372
Biliary Atresia	7066	THPO	Abnormal expression pattern or level, Associated with clinical parameters	12149701
Biliary Atresia	7042	TGFB2	Abnormal expression pattern or level, Associated with clinical parameters	15137003
Biliary Atresia	7040	TGFB1	Abnormal expression pattern or level, Associated with clinical parameters, Experimental model study	24798639
Biliary Atresia	7010	TEK	Abnormal expression pattern or level, Associated with clinical parameters	24126820
Biliary Atresia	6928	HNF1B	Mutation, Associated with clinical parameters	25741167
Biliary Atresia	6778	STAT6	Experimental model study	22005305
Biliary Atresia	6774	STAT3	Abnormal expression pattern or level, Experimental model study	25450715
Biliary Atresia	6772	STAT1	Experimental model study	22005305
Biliary Atresia	6696	SPP1	Experimental model study	21742364
Biliary Atresia	6692	SPINT1	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	21898507
Biliary Atresia	6662	SOX9	Abnormal expression pattern or level, Associated with clinical parameters	24658905

Biliary Atresia	6615	SNAI1	Abnormal expression pattern or level	27059791
Biliary Atresia	6555	SLC10A2	Abnormal expression pattern or level	16628629
Biliary Atresia	6554	SLC10A1	Experimental model study	19581828
Biliary Atresia	6469	SHH	Abnormal DNA methylation	27010479
Biliary Atresia	6441	SFTPD	Abnormal expression pattern or level	25638623
Biliary Atresia	6403	SELP	Abnormal expression pattern or level	26102172
Biliary Atresia	6401	SELE	Abnormal expression pattern or level, Associated with clinical parameters	18704886
Biliary Atresia	6387	CXCL12	Abnormal expression pattern or level	25846069
Biliary Atresia	6376	CX3CL1	Abnormal expression pattern or level	23162109
Biliary Atresia	6374	CXCL5	Abnormal expression pattern or level, Experimental model study	26059850
Biliary Atresia	6373	CXCL11	Abnormal expression pattern or level	19788687
Biliary Atresia	6352	CCL5	Experimental model study	16328331
Biliary Atresia	6348	CCL3	Abnormal expression pattern or level, Experimental model study	26059850
Biliary Atresia	6347	CCL2	Experimental model study	16328331
Biliary Atresia	6275	S100A4	Experimental model study	19116990
Biliary Atresia	6237	RRAS	Associated with clinical parameters, Biomarker	21390152
Biliary Atresia	6097	RORC	Experimental model study	26404950
Biliary Atresia	5950	RBP4	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	21484122
Biliary Atresia	5788	PTPRC	Abnormal expression pattern or level, Associated with clinical parameters	14697969
Biliary Atresia	5743	PTGS2	Abnormal expression pattern or level, Associated with clinical parameters	20084600
Biliary Atresia	5728	PTEN	Abnormal expression pattern or level	25487473
Biliary Atresia	5599	MAPK8	Experimental model study	24651485
Biliary Atresia	5594	MAPK1	Experimental model study	24651485
Biliary Atresia	5551	PRF1	Experimental model study	24096050
Biliary Atresia	5520	PPP2R2A	Abnormal expression pattern or level, Experimental model study	25238119
Biliary Atresia	5478	PPIA	Abnormal expression pattern or level, Experimental model study	26225831
Biliary Atresia	5412	UBL3	Genetic association	20460270

Biliary Atresia	5328	PLAU	Abnormal expression pattern or level, Experimental model study	24838399
Biliary Atresia	5245	PHB	Abnormal expression pattern or level, Experimental model study	26109312
Biliary Atresia	5244	ABCB4	Abnormal expression pattern or level	18327154
Biliary Atresia	5168	ENPP2	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	25536867
Biliary Atresia	5154	PDGFA	Abnormal DNA methylation	27010479
Biliary Atresia	4982	TNFRSF11B	Abnormal expression pattern or level, Associated with clinical parameters	19184056
Biliary Atresia	4854	NOTCH3	Abnormal expression pattern or level	15307138
Biliary Atresia	4853	NOTCH2	Abnormal expression pattern or level	15307138
Biliary Atresia	4843	NOS2	Abnormal expression pattern or level	18564140
Biliary Atresia	4842	NOS1	Abnormal expression pattern or level	18564140
Biliary Atresia	4818	NKG7	Experimental model study	19662681
Biliary Atresia	4790	NFKB1	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	4735	SEPTIN2	Genetic association	20358598
Biliary Atresia	4684	NCAM1	Abnormal expression pattern or level	9149340
Biliary Atresia	4600	MX2	Genetic association	26379158
Biliary Atresia	4599	MX1	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	4318	MMP9	Abnormal expression pattern or level, Experimental model study	19084240
Biliary Atresia	4316	MMP7	Abnormal expression pattern or level	15696117
Biliary Atresia	4314	MMP3	Abnormal expression pattern or level, Associated with clinical parameters	21191599
Biliary Atresia	4313	MMP2	Abnormal expression pattern or level	16226986
Biliary Atresia	4312	MMP1	Abnormal expression pattern or level	8608892
Biliary Atresia	4283	CXCL9	Abnormal expression pattern or level	16083724
Biliary Atresia	4282	MIF	Genetic association	16385258
Biliary Atresia	4152	MBD1	Abnormal DNA methylation	21857377
Biliary Atresia	4129	MAOB	Abnormal expression pattern or level, Associated with clinical parameters	27257052
Biliary Atresia	4088	SMAD3	Abnormal expression pattern or level, Associated with clinical parameters, Experimental model study	24798639

Biliary Atresia	3958	LGALS3	Abnormal expression pattern or level, Associated with clinical parameters	21487991
Biliary Atresia	3952	LEP	Abnormal expression pattern or level, Associated with clinical parameters	18177445
Biliary Atresia	3918	LAMC2	Abnormal expression pattern or level	24493287
Biliary Atresia	3912	LAMB1	Abnormal expression pattern or level	25565194
Biliary Atresia	3875	KRT18	Mutation	12724528
Biliary Atresia	3856	KRT8	Mutation	12724528
Biliary Atresia	3855	KRT7	Abnormal expression pattern or level	25406900
Biliary Atresia	3822	KLRC2	Experimental model study	19662681
Biliary Atresia	3815	KIT	Abnormal expression pattern or level, Associated with clinical parameters	11727048
Biliary Atresia	3791	KDR	Abnormal expression pattern or level	26510548
Biliary Atresia	3696	ITGB8	Abnormal expression pattern or level	25079481
Biliary Atresia	3689	ITGB2	Genetic association	23921155
Biliary Atresia	3683	ITGAL	Abnormal DNA methylation	22206678
Biliary Atresia	3675	ITGA3	Abnormal expression pattern or level	25565194
Biliary Atresia	3673	ITGA2	Experimental model study	18436621
Biliary Atresia	3665	IRF7	Abnormal expression pattern or level	16083724
Biliary Atresia	3661	IRF3	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	3627	CXCL10	Abnormal expression pattern or level	16083724
Biliary Atresia	3606	IL18	Abnormal expression pattern or level	10726686
Biliary Atresia	3605	IL17A	Experimental model study	26404950
Biliary Atresia	3600	IL15	Experimental model study	26325187
Biliary Atresia	3596	IL13	Experimental model study	24892809
Biliary Atresia	3593	IL12B	Experimental model study	16623951
Biliary Atresia	3586	IL10	Abnormal expression pattern or level	17596879
Biliary Atresia	3579	CXCR2	Experimental model study	24493287
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Biliary Atresia	3570	IL6R	Abnormal expression pattern or level, Experimental model study	25450715

Biliary Atresia	3569	IL6	Experimental model study, Abnormal expression pattern or level	26325187
Biliary Atresia	3558	IL2	Abnormal expression pattern or level	26765485
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Biliary Atresia	3486	IGFBP3	Abnormal expression pattern or level, Associated with clinical parameters	22631062
Biliary Atresia	3484	IGFBP1	Abnormal expression pattern or level	9398004
Biliary Atresia	3479	IGF1	Abnormal expression pattern or level, Associated with clinical parameters	22631062
Biliary Atresia	3458	IFNG	Abnormal expression pattern or level, Experimental model study	15286798
Biliary Atresia	3456	IFNB1	Abnormal expression pattern or level, Experimental model study	17661372
Biliary Atresia	3383	ICAM1	Genetic association	18401716
Biliary Atresia	3320	HSP90AA1	Biomarker	22569524
Biliary Atresia	3280	HES1	Abnormal expression pattern or level	16822088
Biliary Atresia	3241	HPCAL1	Genetic association	20460270
Biliary Atresia	3229	HOXC13	Genetic association	20460270
Biliary Atresia	3170	FOXA2	Mutation	25765999
Biliary Atresia	3146	HMGB1	Experimental model study	24651485
Biliary Atresia	3126	HLA-DRB4	Abnormal expression pattern or level, Experimental model study	24838399
Biliary Atresia	3123	HLA-DRB1	Genetic association	15784468
Biliary Atresia	3106	HLA-B	Genetic association	15784468
Biliary Atresia	3105	HLA-A	Genetic association	15784468
Biliary Atresia	3091	HIF1A	Abnormal expression pattern or level	26510548
Biliary Atresia	3082	HGF	Abnormal expression pattern or level	18639691
Biliary Atresia	3069	HDLBP	Genetic association	20358598
Biliary Atresia	3067	HDC	Abnormal expression pattern or level, Associated with clinical parameters	27257052
Biliary Atresia	3002	GZMB	Experimental model study	24096050
Biliary Atresia	3001	GZMA	Experimental model study	24096050
Biliary Atresia	2938	GSTA1	Abnormal expression pattern or level, Biomarker	10898234
Biliary Atresia	2920	CXCL2	Experimental model study	20234283

Biliary Atresia	2908	NR3C1	Abnormal expression pattern or level, Associated with clinical parameters	16226987
Biliary Atresia	2875	GPT	Abnormal expression pattern or level, Associated with clinical parameters	12018907
Biliary Atresia	2859	GPR35	Genetic association	20358598
Biliary Atresia	2833	CXCR3	Abnormal expression pattern or level	16677891
Biliary Atresia	2817	GPC1	Mutation	23336978
Biliary Atresia	2736	GLI2	Abnormal DNA methylation	27010479
Biliary Atresia	2690	GHR	Abnormal expression pattern or level	9398004
Biliary Atresia	2625	GATA3	Mutation	26800885
Biliary Atresia	2271	FH	Mutation	22922375
Biliary Atresia	2247	FGF2	Experimental model study	19116990
Biliary Atresia	2215	FCGR3B	Experimental model study	23991203
Biliary Atresia	2214	FCGR3A	Abnormal expression pattern or level	23162109
Biliary Atresia	2034	EPAS1	Abnormal expression pattern or level	26510548
Biliary Atresia	2023	ENO1	Auto-antigen	20659472
Biliary Atresia	2022	ENG	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	20383820
Biliary Atresia	1950	EGF	Abnormal expression pattern or level, Associated with clinical parameters	19012231
Biliary Atresia	1906	EDN1	Abnormal expression pattern or level, Associated with clinical parameters	12748798
Biliary Atresia	1841	DTYMK	Genetic association	20358598
Biliary Atresia	1803	DPP4	Biomarker, Experimental model study	10402060
Biliary Atresia	1800	DPEP1	Abnormal DNA methylation	21857377
Biliary Atresia	1788	DNMT3A	Abnormal DNA methylation	21857377
Biliary Atresia	1786	DNMT1	Abnormal DNA methylation	21857377
Biliary Atresia	1741	DLG3	Genetic association	26379158
Biliary Atresia	1581	CYP7A1	Experimental model study	19581828
Biliary Atresia	1576	CYP3A4	Abnormal expression pattern or level, Associated with clinical parameters	23150427
Biliary Atresia	1571	CYP2E1	Abnormal expression pattern or level, Associated with clinical parameters	23150427
Biliary Atresia	1557	CYP2C19	Abnormal expression pattern or level, Associated with clinical parameters	23150427

Biliary Atresia	1555	CYP2B6	Abnormal expression pattern or level, Associated with clinical parameters	23150427
Biliary Atresia	1544	CYP1A2	Abnormal expression pattern or level, Associated with clinical parameters	23150427
Biliary Atresia	1524	CX3CR1	Abnormal expression pattern or level	23162109
Biliary Atresia	1490	CTGF	Abnormal expression pattern or level, Associated with clinical parameters	26909983
Biliary Atresia	1282	COL4A1	Abnormal expression pattern or level, Associated with clinical parameters	9473113
Biliary Atresia	1281	COL3A1	Abnormal expression pattern or level, Associated with clinical parameters	8035273
Biliary Atresia	1278	COL1A2	Associated with clinical parameters	26452701
Biliary Atresia	1277	COL1A1	Associated with clinical parameters	26452701
Biliary Atresia	1244	ABCC2	Experimental model study	19581828
Biliary Atresia	1235	CCR6	Experimental model study	26404950
Biliary Atresia	1234	CCR5	Experimental model study	16328331
Biliary Atresia	1046	CDX4	Genetic association	26379158
Biliary Atresia	999	CDH1	Abnormal expression pattern or level, Associated with clinical parameters	11844064
Biliary Atresia	969	CD69	Experimental model study	24651485
Biliary Atresia	968	CD68	Abnormal expression pattern or level	16080928
Biliary Atresia	958	CD40	Abnormal expression pattern or level, Associated with clinical parameters	12778387
Biliary Atresia	947	CD34	Abnormal expression pattern or level, Associated with clinical parameters	24696612
Biliary Atresia	942	CD86	Abnormal expression pattern or level, Associated with clinical parameters	12778387
Biliary Atresia	941	CD80	Abnormal expression pattern or level, Associated with clinical parameters	12778387
Biliary Atresia	929	CD14	Genetic association	16061600
Biliary Atresia	925	CD8A	Experimental model study	17631148
Biliary Atresia	920	CD4	Abnormal expression pattern or level, Experimental model study	15286798
Biliary Atresia	836	CASP3	Abnormal expression pattern or level, Experimental model study	18393301
Biliary Atresia	834	CASP1	Abnormal expression pattern or level, Experimental model study	23607494
Biliary Atresia	719	C3AR1	Abnormal expression pattern or level	16083724
Biliary Atresia	712	C1QA	Abnormal expression pattern or level	16083724
Biliary Atresia	666	BOK	Genetic association	20358598

Biliary Atresia	655	BMP7	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	19387926
Biliary Atresia	566	AZU1	Abnormal expression pattern or level	20399025
Biliary Atresia	547	KIF1A	Genetic association	20358598
Biliary Atresia	382	ARF6	Genetic association	26379158
Biliary Atresia	356	FASLG	Abnormal expression pattern or level, Associated with clinical parameters	11083430
Biliary Atresia	355	FAS	Abnormal expression pattern or level, Associated with clinical parameters	11083430
Biliary Atresia	345	APOC3	Biomarker	22569524
Biliary Atresia	344	APOC2	Biomarker	22569524
Biliary Atresia	285	ANGPT2	Abnormal expression pattern or level, Associated with clinical parameters	24126820
Biliary Atresia	284	ANGPT1	Abnormal expression pattern or level, Associated with clinical parameters	24126820
Biliary Atresia	207	AKT1	Abnormal expression pattern or level	25487473
Biliary Atresia	189	AGXT	Genetic association	20358598
Biliary Atresia	182	JAG1	Mutation	12297837
Biliary Atresia	120	ADD3	Genetic association, Abnormal expression pattern or level	24104524
Biliary Atresia	58	ACTA1	Abnormal expression pattern or level, Associated with clinical parameters	24798639
Primary Biliary Cholangitis	8647	ABCB11	Genetic association	14999697
Primary Biliary Cholangitis	5244	ABCB4	Mutation	26324191
Primary Biliary Cholangitis	1244	ABCC2	Abnormal expression pattern or level	12084558
Primary Biliary Cholangitis	8714	ABCC3	Abnormal expression pattern or level, Experimental model study	12898590
Primary Biliary Cholangitis	10257	ABCC4	Abnormal expression pattern or level	17696930
Primary Biliary Cholangitis	10057	ABCC5	Abnormal expression pattern or level	17627974
Primary Biliary Cholangitis	9429	ABCG2	Abnormal expression pattern or level	17627974
Primary Biliary Cholangitis	26523	AGO1	Auto-antigen	22647870
Primary Biliary Cholangitis	326	AIRE	Auto-antigen	11343230
Primary Biliary Cholangitis	11215	AKAP11	Genetic association	22936693
Primary Biliary Cholangitis	207	AKT1	Abnormal expression pattern or level, Associated with clinical parameters	17164408
Primary Biliary Cholangitis	213	ALB	Auto-antigen	8460168

Primary Biliary Cholangitis	217	ALDH2	Genetic association	26394269
Primary Biliary Cholangitis	249	ALPL	Abnormal expression pattern or level	16567122
Primary Biliary Cholangitis	290	ANPEP	Abnormal expression pattern or level, Biomarker	12636933
Primary Biliary Cholangitis	302	ANXA2	Abnormal expression pattern or level	19823170
Primary Biliary Cholangitis	8639	AOC3	Abnormal expression pattern or level	9686623
Primary Biliary Cholangitis	348	APOE	Biomarker	11592592
Primary Biliary Cholangitis	350	APOH	Auto-antigen, Associated with clinical parameters	18551357
Primary Biliary Cholangitis	358	AQP1	Abnormal expression pattern or level, Associated with clinical parameters	23949237
Primary Biliary Cholangitis	408	ARRB1	Abnormal expression pattern or level	21243522
Primary Biliary Cholangitis	472	ATM	Abnormal expression pattern or level	18456456
Primary Biliary Cholangitis	6311	ATXN2	Genetic association	22961000
Primary Biliary Cholangitis	27087	B3GAT1	Abnormal expression pattern or level	21735469
Primary Biliary Cholangitis	596	BCL2	Abnormal expression pattern or level	26429926
Primary Biliary Cholangitis	10018	BCL2L11	Abnormal expression pattern or level, Experimental model study	23295054
Primary Biliary Cholangitis	602	BCL3	Abnormal expression pattern or level	24293610
Primary Biliary Cholangitis	635	BHMT	Abnormal expression pattern or level	24620780
Primary Biliary Cholangitis	648	BMI1	Abnormal expression pattern or level, Experimental model study	16936260
Primary Biliary Cholangitis	8315	BRAP	Genetic association	22961000
Primary Biliary Cholangitis	56244	BTNL2	Genetic association	20639880
Primary Biliary Cholangitis	712	C1QA	Abnormal expression pattern or level	22727562
Primary Biliary Cholangitis	718	C3	Abnormal expression pattern or level	7507546
Primary Biliary Cholangitis	720	C4A	Genetic association	1936808
Primary Biliary Cholangitis	721	C4B	Genetic association	3496684
Primary Biliary Cholangitis	727	C5	Genetic association	23710202
Primary Biliary Cholangitis	90355	C5orf30	Genetic association	26394269
Primary Biliary Cholangitis	10665	C6orf10	Genetic association	20639880
Primary Biliary Cholangitis	760	CA2	Auto-antigen	10433013

Primary Biliary Cholangitis	133690	CAPSL	Genetic association	22961000
Primary Biliary Cholangitis	857	CAV1	Abnormal expression pattern or level	15968725
Primary Biliary Cholangitis	858	CAV2	Abnormal expression pattern or level	15968725
Primary Biliary Cholangitis	283234	CCDC88B	Genetic association	26394269
Primary Biliary Cholangitis	6364	CCL20	Genetic association	26394269
Primary Biliary Cholangitis	56477	CCL28	Abnormal expression pattern or level, Experimental model study	16785557
Primary Biliary Cholangitis	6354	CCL7	Abnormal expression pattern or level	11169522
Primary Biliary Cholangitis	6355	CCL8	Abnormal expression pattern or level	11169522
Primary Biliary Cholangitis	2826	CCR10	Abnormal expression pattern or level, Experimental model study	16785557
Primary Biliary Cholangitis	729230	CCR2	Abnormal expression pattern or level	24185682
Primary Biliary Cholangitis	1234	CCR5	Genetic association	15566517
Primary Biliary Cholangitis	1236	CCR7	Abnormal expression pattern or level	22727562
Primary Biliary Cholangitis	9398	CD101	Auto-antigen, Experimental model study	21613619
Primary Biliary Cholangitis	929	CD14	Abnormal expression pattern or level, Associated with clinical parameters	26403460
Primary Biliary Cholangitis	4064	CD180	Abnormal expression pattern or level	17448566
Primary Biliary Cholangitis	930	CD19	Abnormal expression pattern or level, Experimental model study	25627620
Primary Biliary Cholangitis	909	CD1a	Abnormal expression pattern or level	22498823
Primary Biliary Cholangitis	911	CD1C	Abnormal expression pattern or level	21092071
Primary Biliary Cholangitis	912	CD1d	Auto-antigen, Abnormal expression pattern or level	25855031
Primary Biliary Cholangitis	939	CD27	Abnormal expression pattern or level	15685542
Primary Biliary Cholangitis	29126	CD274	Abnormal expression pattern or level, Experimental model study	21120594
Primary Biliary Cholangitis	940	CD28	Abnormal expression pattern or level	9924426
Primary Biliary Cholangitis	920	CD4	Abnormal expression pattern or level	20729906
Primary Biliary Cholangitis	958	CD40	Abnormal expression pattern or level	26388238
Primary Biliary Cholangitis	959	CD40LG	Abnormal DNA methylation	21898485
Primary Biliary Cholangitis	960	CD44	Abnormal expression pattern or level	10674028
Primary Biliary Cholangitis	968	CD68	Abnormal expression pattern or level	10847481

Primary Biliary Cholangitis	972	CD74	Abnormal expression pattern or level, Biomarker	23913513
Primary Biliary Cholangitis	973	CD79A	Experimental model study	21274873
Primary Biliary Cholangitis	941	CD80	Genetic association	25690649
Primary Biliary Cholangitis	9308	CD83	Abnormal expression pattern or level	22727562
Primary Biliary Cholangitis	942	CD86	Abnormal expression pattern or level	26388238
Primary Biliary Cholangitis	925	CD8A	Abnormal expression pattern or level	21735469
Primary Biliary Cholangitis	1026	CDKN1A	Abnormal expression pattern or level	18456456
Primary Biliary Cholangitis	1027	CDKN1B	Abnormal expression pattern or level	24741631
Primary Biliary Cholangitis	1029	CDKN2A	Abnormal expression pattern or level	18456456
Primary Biliary Cholangitis	1059	CENPB	Auto-antigen	22647870
Primary Biliary Cholangitis	1131	CHRM3	Auto-antigen, Biomarker	24750585
Primary Biliary Cholangitis	1147	CHUK	Abnormal expression pattern or level	20940109
Primary Biliary Cholangitis	493856	CISD2	Genetic association	26394269
Primary Biliary Cholangitis	23562	CLDN14	Genetic association	26842849
Primary Biliary Cholangitis	23274	CLEC16A	Genetic association	21399635
Primary Biliary Cholangitis	1268	CNR1	Abnormal expression pattern or level, Genetic association	19730968
Primary Biliary Cholangitis	1269	CNR2	Abnormal expression pattern or level, Genetic association	19730968
Primary Biliary Cholangitis	1302	COL11A2	Genetic association	20639880
Primary Biliary Cholangitis	1277	COL1A1	Genetic association	11230734
Primary Biliary Cholangitis	1394	CRHR1	Genetic association	22961000
Primary Biliary Cholangitis	1401	CRP	Auto-antigen	9737658
Primary Biliary Cholangitis	1493	CTLA4	Genetic association	18778710
Primary Biliary Cholangitis	6376	CX3CL1	Abnormal expression pattern or level	24185682
Primary Biliary Cholangitis	1524	CX3CR1	Abnormal expression pattern or level	24185682
Primary Biliary Cholangitis	3627	CXCL10	Abnormal expression pattern or level	16243485
Primary Biliary Cholangitis	6387	CXCL12	Abnormal expression pattern or level	12746476
Primary Biliary Cholangitis	10563	CXCL13	Abnormal expression pattern or level, Experimental model study	25627620

Primary Biliary Cholangitis	58191	CXCL16	Abnormal expression pattern or level	19575365
Primary Biliary Cholangitis	3576	CXCL8	Abnormal expression pattern or level	16730427
Primary Biliary Cholangitis	4283	CXCL9	Abnormal expression pattern or level	23480180
Primary Biliary Cholangitis	2833	CXCR3	Abnormal expression pattern or level, Associated with clinical parameters	23480180
Primary Biliary Cholangitis	643	CXCR5	Genetic association	21399635
Primary Biliary Cholangitis	1571	CYP2E1	Genetic association	15690482
Primary Biliary Cholangitis	1581	CYP7A1	Genetic association, Experimental model study	23354620
Primary Biliary Cholangitis	1629	DBT	Auto-antigen	11451161
Primary Biliary Cholangitis	780	DDR1	Abnormal expression pattern or level, Experimental model study	21356365
Primary Biliary Cholangitis	4921	DDR2	Abnormal expression pattern or level	12765478
Primary Biliary Cholangitis	1656	DDX6	Genetic association	21399635
Primary Biliary Cholangitis	1672	DEFB1	Abnormal expression pattern or level	15382127
Primary Biliary Cholangitis	1673	DEFB4A	Abnormal expression pattern or level	15382127
Primary Biliary Cholangitis	163486	DENND1B	Genetic association	21399635
Primary Biliary Cholangitis	28955	DEXI	Genetic association	26394269
Primary Biliary Cholangitis	1609	DGKQ	Genetic association	26394269
Primary Biliary Cholangitis	1737	DLAT	Abnormal expression pattern or level, Associated with clinical parameters	23231002
Primary Biliary Cholangitis	10301	DLEU1	Genetic association	26394269
Primary Biliary Cholangitis	1743	DLST	Auto-antigen, Experimental model study	16849474
Primary Biliary Cholangitis	1755	DMBT1	Abnormal expression pattern or level	15101998
Primary Biliary Cholangitis	1803	DPP4	Abnormal expression pattern or level	10207821
Primary Biliary Cholangitis	9166	EBAG9	Auto-antigen	12044529
Primary Biliary Cholangitis	1907	EDN2	Abnormal expression pattern or level	15691296
Primary Biliary Cholangitis	5610	EIF2AK2	Abnormal expression pattern or level	11169059
Primary Biliary Cholangitis	134505	EIF3KP1	Genetic association	26394269
Primary Biliary Cholangitis	9844	ELMO1	Genetic association	21399635
Primary Biliary Cholangitis	2023	ENO1	Auto-antigen	9126798

Primary Biliary Cholangitis	953	ENTPD1	Abnormal expression pattern or level	20638239
Primary Biliary Cholangitis	954	ENTPD2	Abnormal expression pattern or level, Experimental model study	15651265
Primary Biliary Cholangitis	2056	EPO	Auto-antigen	15908264
Primary Biliary Cholangitis	2099	ESR1	Abnormal expression pattern or level, Associated with clinical parameters	15645536
Primary Biliary Cholangitis	2100	ESR2	Genetic association	26608979
Primary Biliary Cholangitis	2104	ESRRG	Abnormal expression pattern or level, Experimental model study	24687322
Primary Biliary Cholangitis	91828	EXOC3L4	Genetic association	26394269
Primary Biliary Cholangitis	1E+08	FAM183DP	Genetic association	26394269
Primary Biliary Cholangitis	355	FAS	Abnormal expression pattern or level	26429926
Primary Biliary Cholangitis	356	FASLG	Abnormal expression pattern or level, Associated with clinical parameters	24759184
Primary Biliary Cholangitis	84961	FBXL20	Genetic association	21399635
Primary Biliary Cholangitis	2212	FCGR2A	Abnormal expression pattern or level	1889700
Primary Biliary Cholangitis	2214	FCGR3A	Abnormal expression pattern or level	23179144
Primary Biliary Cholangitis	2215	FCGR3B	Auto-antigen	18023559
Primary Biliary Cholangitis	115352	FCRL3	Genetic association	21299530
Primary Biliary Cholangitis	9965	FGF19	Abnormal expression pattern or level, Associated with clinical parameters	26293907
Primary Biliary Cholangitis	53834	FGFRL1	Genetic association	26394269
Primary Biliary Cholangitis	2271	FH	Auto-antigen	18355017
Primary Biliary Cholangitis	2335	FN1	Abnormal expression pattern or level	10640998
Primary Biliary Cholangitis	2309	FOXO3	Abnormal expression pattern or level, Experimental model study	23295054
Primary Biliary Cholangitis	50943	FOXP3	Genetic association, Abnormal expression pattern or level	16126962
Primary Biliary Cholangitis	2580	GAK	Genetic association	26394269
Primary Biliary Cholangitis	2653	GCSH	Auto-antigen	10094940
Primary Biliary Cholangitis	51738	GHRL	Abnormal expression pattern or level	15052530
Primary Biliary Cholangitis	54826	GIN1	Genetic association	26394269
Primary Biliary Cholangitis	2736	GLI2	Abnormal expression pattern or level	17464985
Primary Biliary Cholangitis	10578	GNLY	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	18584314

Primary Biliary Cholangitis	56850	GRIPAP1	Auto-antigen	21091667
Primary Biliary Cholangitis	55876	GSDMB	Genetic association	22961000
Primary Biliary Cholangitis	2944	GSTM1	Genetic association	8491405
Primary Biliary Cholangitis	2952	GSTT1	Auto-antigen	18242955
Primary Biliary Cholangitis	57817	HAMP	Abnormal expression pattern or level	26270641
Primary Biliary Cholangitis	9759	HDAC4	Abnormal expression pattern or level, Experimental model study	26109312
Primary Biliary Cholangitis	85441	HELZ2	Genetic association	27047549
Primary Biliary Cholangitis	3091	HIF1A	Abnormal expression pattern or level, Experimental model study	22271822
Primary Biliary Cholangitis	3098	HK1	Auto-antigen	22647870
Primary Biliary Cholangitis	3105	HLA-A	Auto-antigen	12395322
Primary Biliary Cholangitis	3106	HLA-B	Genetic association	23809616
Primary Biliary Cholangitis	3115	HLA-DPB1	Abnormal expression pattern or level	7709759
Primary Biliary Cholangitis	3117	HLA-DQA1	Genetic association	22961000
Primary Biliary Cholangitis	3118	HLA-DQA2	Genetic association	22936693
Primary Biliary Cholangitis	3119	HLA-DQB1	Genetic association	22961000
Primary Biliary Cholangitis	3120	HLA-DQB2	Genetic association	24265779
Primary Biliary Cholangitis	3122	HLA-DRA	Genetic association	20639880
Primary Biliary Cholangitis	3123	HLA-DRB1	Genetic association	22961000
Primary Biliary Cholangitis	3126	HLA-DRB4	Genetic association	7536796
Primary Biliary Cholangitis	3156	HMGCR	Drug target	11943414
Primary Biliary Cholangitis	3308	HSPA4	Abnormal expression pattern or level	10726964
Primary Biliary Cholangitis	3383	ICAM1	Abnormal expression pattern or level	14606706
Primary Biliary Cholangitis	29851	ICOS	Genetic association	19333938
Primary Biliary Cholangitis	23308	ICOSLG	Genetic association	26084578
Primary Biliary Cholangitis	3620	IDO1	Abnormal expression pattern or level	18176870
Primary Biliary Cholangitis	3425	IDUA	Genetic association	26394269
Primary Biliary Cholangitis	3439	IFNA1	Abnormal expression pattern or level	21400555

Primary Biliary Cholangitis	3458	IFNG	Abnormal expression pattern or level	24375552
Primary Biliary Cholangitis	57560	IFT80	Genetic association	22936693
Primary Biliary Cholangitis	3479	IGF1	Abnormal expression pattern or level, Associated with clinical parameters	17164408
Primary Biliary Cholangitis	3480	IGF1R	Abnormal expression pattern or level, Associated with clinical parameters	17164408
Primary Biliary Cholangitis	3549	IHH	Abnormal expression pattern or level	17464985
Primary Biliary Cholangitis	22806	IKZF3	Genetic association	20639879
Primary Biliary Cholangitis	3586	IL10	Abnormal expression pattern or level	8811053
Primary Biliary Cholangitis	3592	IL12A	Genetic association	19458352
Primary Biliary Cholangitis	7048	IL12A	Experimental model study	22576253
Primary Biliary Cholangitis	3593	IL12B	Genetic association	26394269
Primary Biliary Cholangitis	3595	IL12RB2	Genetic association	19458352
Primary Biliary Cholangitis	3605	IL17A	Abnormal expression pattern or level, Associated with clinical parameters	23910013
Primary Biliary Cholangitis	3606	IL18	Abnormal expression pattern or level, Associated with clinical parameters	11091279
Primary Biliary Cholangitis	8809	IL18R1	Genetic association	26394269
Primary Biliary Cholangitis	8807	IL18RAP	Genetic association	26394269
Primary Biliary Cholangitis	3553	IL1B	Genetic association	11171832
Primary Biliary Cholangitis	3554	IL1R1	Genetic association	26394269
Primary Biliary Cholangitis	9173	IL1RL1	Genetic association	26394269
Primary Biliary Cholangitis	8808	IL1RL2	Genetic association	26394269
Primary Biliary Cholangitis	3557	IL1RN	Genetic association	15884119
Primary Biliary Cholangitis	3558	IL2	Abnormal expression pattern or level	8565296
Primary Biliary Cholangitis	59067	IL21	Abnormal expression pattern or level, Experimental model study	25627620
Primary Biliary Cholangitis	51561	IL23A	Abnormal expression pattern or level	24375552
Primary Biliary Cholangitis	149233	IL23R	Abnormal expression pattern or level	24375552
Primary Biliary Cholangitis	3559	IL2RA	Abnormal expression pattern or level	20729906
Primary Biliary Cholangitis	90865	IL33	Abnormal expression pattern or level, Experimental model study	25400121
Primary Biliary Cholangitis	3565	IL4	Abnormal expression pattern or level, Associated with clinical parameters	10606324

Primary Biliary Cholangitis	3567	IL5	Abnormal expression pattern or level, Associated with clinical parameters	10634216
Primary Biliary Cholangitis	3569	IL6	Experimental model study, Abnormal expression pattern or level	20578264
Primary Biliary Cholangitis	3570	IL6R	Abnormal expression pattern or level, Associated with clinical parameters	9524291
Primary Biliary Cholangitis	3575	IL7R	Genetic association	21399635
Primary Biliary Cholangitis	3663	IRF5	Genetic association	20639879
Primary Biliary Cholangitis	3394	IRF8	Genetic association	21399635
Primary Biliary Cholangitis	3676	ITGA4	Abnormal expression pattern or level	10640998
Primary Biliary Cholangitis	3678	ITGA5	Genetic association	21116829
Primary Biliary Cholangitis	3687	ITGAX	Abnormal expression pattern or level	26388238
Primary Biliary Cholangitis	3689	ITGB2	Abnormal expression pattern or level	14606706
Primary Biliary Cholangitis	182	JAG1	Abnormal expression pattern or level	12000721
Primary Biliary Cholangitis	284058	KANSL1	Genetic association	22961000
Primary Biliary Cholangitis	59349	KLHL12	Auto-antigen	22647870
Primary Biliary Cholangitis	55975	KLHL7	Auto-antigen	22647870
Primary Biliary Cholangitis	3875	KRT18	Abnormal expression pattern or level, Genetic association	19585610
Primary Biliary Cholangitis	3880	KRT19	Abnormal expression pattern or level	22911653
Primary Biliary Cholangitis	25984	KRT23	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	27151178
Primary Biliary Cholangitis	3855	KRT7	Abnormal expression pattern or level	21681009
Primary Biliary Cholangitis	3856	KRT8	Abnormal expression pattern or level, Genetic association	19585610
Primary Biliary Cholangitis	3916	LAMP1	Abnormal expression pattern or level, Experimental model study	22098537
Primary Biliary Cholangitis	3920	LAMP2	Biomarker	24007661
Primary Biliary Cholangitis	81606	LBH	Genetic association	26394269
Primary Biliary Cholangitis	3930	LBR	Auto-antigen	22647870
Primary Biliary Cholangitis	3952	LEP	Abnormal expression pattern or level	15052530
Primary Biliary Cholangitis	3959	LGALS3BP	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	26418076
Primary Biliary Cholangitis	1E+08	LOC100533842	Genetic association	26394269
Primary Biliary Cholangitis	1E+08	LOC102723649	Genetic association	26394269

Primary Biliary Cholangitis	285626	LOC285626	Genetic association	26394269
Primary Biliary Cholangitis	442263	LOC442263	Genetic association	26394269
Primary Biliary Cholangitis	644172	LOC644172	Genetic association	22961000
Primary Biliary Cholangitis	4015	LOX	Abnormal expression pattern or level, Experimental model study	16023247
Primary Biliary Cholangitis	4017	LOXL2	Abnormal expression pattern or level, Experimental model study	16023247
Primary Biliary Cholangitis	26065	LSM14A	Auto-antigen	21091667
Primary Biliary Cholangitis	4049	LTA	Abnormal expression pattern or level	1506629
Primary Biliary Cholangitis	4052	LTBP1	Abnormal expression pattern or level	9620332
Primary Biliary Cholangitis	4053	LTBP2	Abnormal expression pattern or level	9620332
Primary Biliary Cholangitis	4055	LTBR	Genetic association	21399635
Primary Biliary Cholangitis	4126	MANBA	Genetic association	22961000
Primary Biliary Cholangitis	4137	MAPT	Genetic association	20639879
Primary Biliary Cholangitis	4153	MBL2	Genetic association	11712863
Primary Biliary Cholangitis	4282	MIF	Abnormal expression pattern or level, Biomarker	23913513
Primary Biliary Cholangitis	1E+08	MIR4772	Genetic association	26394269
Primary Biliary Cholangitis	79258	MMEL1	Genetic association	20639879
Primary Biliary Cholangitis	4353	MPO	Abnormal expression pattern or level	14512889
Primary Biliary Cholangitis	931	MS4A1	Experimental model study	19877182
Primary Biliary Cholangitis	4489	MT1A	Abnormal expression pattern or level, Associated with clinical parameters	1959846
Primary Biliary Cholangitis	4582	MUC1	Abnormal expression pattern or level	8675144
Primary Biliary Cholangitis	4588	MUC6	Abnormal expression pattern or level	9713347
Primary Biliary Cholangitis	4606	MYBPC2	Genetic association	26394269
Primary Biliary Cholangitis	4615	MYD88	Abnormal expression pattern or level	17448566
Primary Biliary Cholangitis	4664	NAB1	Genetic association	26394269
Primary Biliary Cholangitis	4684	NCAM1	Abnormal expression pattern or level, Associated with clinical parameters	24759184
Primary Biliary Cholangitis	4763	NF1	Genetic association	25899471
Primary Biliary Cholangitis	4780	NFE2L2	Drug target	20055754

Primary Biliary Cholangitis	4790	NFKB1	Genetic association	21399635
Primary Biliary Cholangitis	4846	NOS3	Genetic association	22609442
Primary Biliary Cholangitis	1728	NQO1	Abnormal expression pattern or level	16610002
Primary Biliary Cholangitis	8856	NR1I2	Experimental model study	20416375
Primary Biliary Cholangitis	2908	NR3C1	Abnormal expression pattern or level, Associated with clinical parameters	15635817
Primary Biliary Cholangitis	4905	NSF	Genetic association	22961000
Primary Biliary Cholangitis	23225	NUP210	Auto-antigen	23814122
Primary Biliary Cholangitis	23636	NUP62	Auto-antigen	17960595
Primary Biliary Cholangitis	4967	OGDH	Auto-antigen	11050037
Primary Biliary Cholangitis	167826	OLIG3	Genetic association	26394269
Primary Biliary Cholangitis	4988	OPRM1	Genetic association	18709298
Primary Biliary Cholangitis	94103	ORMDL3	Genetic association	20639879
Primary Biliary Cholangitis	5066	PAM	Genetic association	26394269
Primary Biliary Cholangitis	5133	PDCD1	Genetic association	18041714
Primary Biliary Cholangitis	5155	PDGFB	Genetic association	22961000
Primary Biliary Cholangitis	8050	PDHX	Auto-antigen	22647870
Primary Biliary Cholangitis	5166	PKD4	Abnormal expression pattern or level	24293610
Primary Biliary Cholangitis	5245	PHB	Abnormal expression pattern or level, Experimental model study	26109312
Primary Biliary Cholangitis	23228	PLCL2	Genetic association	21399635
Primary Biliary Cholangitis	55200	PLEKHG6	Genetic association	26394269
Primary Biliary Cholangitis	5371	PML	Auto-antigen	22503841
Primary Biliary Cholangitis	56983	POGLUT1	Genetic association	22961000
Primary Biliary Cholangitis	5450	POU2AF1	Genetic association	23000144
Primary Biliary Cholangitis	5468	PPARG	Abnormal expression pattern or level, Experimental model study	15880426
Primary Biliary Cholangitis	23262	PPIP5K2	Genetic association	26394269
Primary Biliary Cholangitis	5551	PRF1	Abnormal expression pattern or level	23179144
Primary Biliary Cholangitis	5619	PRM1	Genetic association	22961000

Primary Biliary Cholangitis	5620	PRM2	Genetic association	22961000
Primary Biliary Cholangitis	5727	PTCH1	Abnormal expression pattern or level	17464985
Primary Biliary Cholangitis	5743	PTGS2	Abnormal expression pattern or level	11584358
Primary Biliary Cholangitis	26191	PTPN22	Genetic association	26000122
Primary Biliary Cholangitis	5890	RAD51B	Genetic association	21399635
Primary Biliary Cholangitis	54715	RBFOX1	Genetic association	20153395
Primary Biliary Cholangitis	1E+08	RNA5SP121	Genetic association	26394269
Primary Biliary Cholangitis	153830	RNF145	Genetic association	26394269
Primary Biliary Cholangitis	1E+08	RNU4ATAC2P	Genetic association	26394269
Primary Biliary Cholangitis	6122	RPL3	Genetic association	22961000
Primary Biliary Cholangitis	8986	RPS6KA4	Genetic association	21399635
Primary Biliary Cholangitis	6283	S100A12	Abnormal expression pattern or level	25313445
Primary Biliary Cholangitis	29970	SCHIP1	Genetic association	26394269
Primary Biliary Cholangitis	6337	SCNN1A	Genetic association	22961000
Primary Biliary Cholangitis	6401	SELE	Abnormal expression pattern or level	7545197
Primary Biliary Cholangitis	6402	SELL	Abnormal expression pattern or level	7515343
Primary Biliary Cholangitis	6711	SEPTBN1	Experimental model study	15566516
Primary Biliary Cholangitis	26135	SERBP1	Genetic association	26394269
Primary Biliary Cholangitis	5265	SERPINA1	Mutation	7964438
Primary Biliary Cholangitis	10019	SH2B3	Genetic association	21399635
Primary Biliary Cholangitis	54414	SIAE	Genetic association	22257840
Primary Biliary Cholangitis	6614	SIGLEC1	Abnormal expression pattern or level	20653431
Primary Biliary Cholangitis	6554	SLC10A1	Abnormal expression pattern or level, Associated with clinical parameters	12763363
Primary Biliary Cholangitis	6580	SLC22A1	Genetic association	23612856
Primary Biliary Cholangitis	23446	SLC44A1	Abnormal expression pattern or level	24620780
Primary Biliary Cholangitis	6522	SLC4A2	Experimental model study	26396175
Primary Biliary Cholangitis	200931	SLC51A	Abnormal expression pattern or level, Experimental model study	16423920

Primary Biliary Cholangitis	123264	SLC51B	Abnormal expression pattern or level, Experimental model study	16423920
Primary Biliary Cholangitis	9368	SLC9A3R1	Abnormal expression pattern or level, Experimental model study	19234136
Primary Biliary Cholangitis	10599	SLCO1B1	Abnormal expression pattern or level, Associated with clinical parameters	12763363
Primary Biliary Cholangitis	4087	SMAD2	Experimental model study	15566516
Primary Biliary Cholangitis	4088	SMAD3	Experimental model study	15566516
Primary Biliary Cholangitis	1E+08	SNRPGP8	Genetic association	26394269
Primary Biliary Cholangitis	8651	SOCS1	Genetic association	21399635
Primary Biliary Cholangitis	50964	SOST	Abnormal expression pattern or level, Associated with clinical parameters	27019303
Primary Biliary Cholangitis	9580	SOX13	Auto-antigen	12473246
Primary Biliary Cholangitis	6662	SOX9	Abnormal expression pattern or level	17464985
Primary Biliary Cholangitis	6672	SP100	Auto-antigen	23859785
Primary Biliary Cholangitis	11262	SP140	Auto-antigen	22647870
Primary Biliary Cholangitis	93349	SP140L	Auto-antigen, Abnormal expression pattern or level, Experimental model study	26347895
Primary Biliary Cholangitis	79925	SPEF2	Genetic association	22961000
Primary Biliary Cholangitis	6689	SPIB	Genetic association	20639880
Primary Biliary Cholangitis	6692	SPINT1	Abnormal expression pattern or level	16941151
Primary Biliary Cholangitis	6696	SPP1	Abnormal expression pattern or level	12558864
Primary Biliary Cholangitis	162540	SPPL2C	Genetic association	22961000
Primary Biliary Cholangitis	8878	SQSTM1	Abnormal expression pattern or level, Experimental model study	22098537
Primary Biliary Cholangitis	6772	STAT1	Genetic association	21399635
Primary Biliary Cholangitis	6774	STAT3	Abnormal expression pattern or level	12547716
Primary Biliary Cholangitis	6775	STAT4	Genetic association	21399635
Primary Biliary Cholangitis	6822	SULT2A1	Abnormal expression pattern or level	10726960
Primary Biliary Cholangitis	7341	SUMO1	Auto-antigen	15726652
Primary Biliary Cholangitis	6613	SUMO2	Auto-antigen	15726652
Primary Biliary Cholangitis	9145	SYNGR1	Genetic association	21399635
Primary Biliary Cholangitis	10454	TAB1	Genetic association	21399635

Primary Biliary Cholangitis	7032	TFF2	Abnormal expression pattern or level	15101998
Primary Biliary Cholangitis	7033	TFF3	Abnormal expression pattern or level	12395334
Primary Biliary Cholangitis	7040	TGFB1	Experimental model study	24124327
Primary Biliary Cholangitis	7043	TGFB3	Abnormal expression pattern or level	20976842
Primary Biliary Cholangitis	7048	TGFBR2	Experimental model study	22576253
Primary Biliary Cholangitis	51300	TIMMDC1	Genetic association	22961000
Primary Biliary Cholangitis	21782	TJP1	Abnormal expression pattern or level	11391535
Primary Biliary Cholangitis	7098	TLR3	Abnormal expression pattern or level	23026026
Primary Biliary Cholangitis	7099	TLR4	Abnormal expression pattern or level	23026026
Primary Biliary Cholangitis	54106	TLR9	Abnormal expression pattern or level	23026026
Primary Biliary Cholangitis	84286	TMEM175	Genetic association	26394269
Primary Biliary Cholangitis	55254	TMEM39A	Genetic association	22961000
Primary Biliary Cholangitis	7124	TNF	Abnormal expression pattern or level	23011034
Primary Biliary Cholangitis	7127	TNFAIP2	Genetic association	26394269
Primary Biliary Cholangitis	7128	TNFAIP3	Genetic association	26394269
Primary Biliary Cholangitis	79626	TNFAIP8L2	Abnormal expression pattern or level, Experimental model study	26644386
Primary Biliary Cholangitis	8795	TNFRSF10B	Abnormal expression pattern or level, Experimental model study	18667695
Primary Biliary Cholangitis	4982	TNFRSF11B	Abnormal expression pattern or level	12663228
Primary Biliary Cholangitis	7132	TNFRSF1A	Genetic association	21399635
Primary Biliary Cholangitis	8771	TNFRSF6B	Abnormal expression pattern or level	24016146
Primary Biliary Cholangitis	943	TNFRSF8	Abnormal expression pattern or level, Auto-antigen	8811053
Primary Biliary Cholangitis	8743	TNFSF10	Abnormal expression pattern or level, Experimental model study	18667695
Primary Biliary Cholangitis	8600	TNFSF11	Genetic association	21399635
Primary Biliary Cholangitis	10673	TNFSF13B	Abnormal expression pattern or level	23681290
Primary Biliary Cholangitis	9966	TNFSF15	Genetic association	25899471
Primary Biliary Cholangitis	7292	TNFSF4	Genetic association	23622253
Primary Biliary Cholangitis	8744	TNFSF9	Abnormal expression pattern or level, Associated with clinical parameters	20303781

Primary Biliary Cholangitis	7142	TNP2	Genetic association	22936693
Primary Biliary Cholangitis	23534	TNPO3	Genetic association	22961000
Primary Biliary Cholangitis	27327	TNRC6A	Auto-antigen	21091667
Primary Biliary Cholangitis	7157	TP53	Abnormal expression pattern or level	11394648
Primary Biliary Cholangitis	7172	TPMT	Genetic association	17241387
Primary Biliary Cholangitis	7185	TRAF1	Genetic association	23125866
Primary Biliary Cholangitis	10906	TRAFD1	Genetic association	26394269
Primary Biliary Cholangitis	7297	TYK2	Genetic association	20639879
Primary Biliary Cholangitis	7305	TYROBP	Abnormal expression pattern or level	23179144
Primary Biliary Cholangitis	134510	UBLCP1	Genetic association	26394269
Primary Biliary Cholangitis	7351	UCP2	Abnormal expression pattern or level	12445169
Primary Biliary Cholangitis	133688	UGT3A1	Genetic association	22961000
Primary Biliary Cholangitis	7412	VCAM1	Abnormal expression pattern or level	24338559
Primary Biliary Cholangitis	7415	VCP	Auto-antigen, Biomarker	16640662
Primary Biliary Cholangitis	7421	VDR	Genetic association	22690210
Primary Biliary Cholangitis	7422	VEGFA	Experimental model study	10514389
Primary Biliary Cholangitis	79679	VTCN1	Abnormal expression pattern or level	21120594
Primary Biliary Cholangitis	7448	VTN	Abnormal expression pattern or level	7507546
Primary Biliary Cholangitis	7480	WNT10B	Abnormal expression pattern or level	11559656
Primary Biliary Cholangitis	7472	WNT2	Abnormal expression pattern or level	11559656
Primary Biliary Cholangitis	7482	WNT2B	Genetic association	11488641
Primary Biliary Cholangitis	2547	XRCC6	Abnormal expression pattern or level	11559656
Primary Biliary Cholangitis	57621	ZBTB2	Auto-antigen	22647870
Primary Biliary Cholangitis	7538	ZFP36	Abnormal expression pattern or level	11559656
Primary Biliary Cholangitis	124626	ZPBP2	Genetic association	22961000
Primary Sclerosing Cholangitis	80339	PNPLA3	Genetic association	23505555
Primary Sclerosing Cholangitis	4254	KITLG	Associated with clinical parameters	15777700

Primary Sclerosing Cholangitis	2309	FOXO3	Abnormal expression pattern or level	23295054
Primary Sclerosing Cholangitis	50674	NEUROG3	Abnormal expression pattern or level, Experimental model study	24925797
Primary Sclerosing Cholangitis	57379	AICDA	Abnormal expression pattern or level	18306229
Primary Sclerosing Cholangitis	249	ALPL	Abnormal expression pattern or level, Associated with clinical parameters	26945698
Primary Sclerosing Cholangitis	7082	TJP1	Abnormal expression pattern or level	11391535
Primary Sclerosing Cholangitis	55188	RIC8B	Genetic association	26974007
Primary Sclerosing Cholangitis	4790	NFKB1	Genetic association	26974007
Primary Sclerosing Cholangitis	4053	LTBP2	Abnormal expression pattern or level	9620332
Primary Sclerosing Cholangitis	4052	LTBP1	Abnormal expression pattern or level	9620332
Primary Sclerosing Cholangitis	1131	CHRM3	Auto-antigen	24750585
Primary Sclerosing Cholangitis	5657	PRTN3	Auto-antigen, Biomarker	22107137
Primary Sclerosing Cholangitis	4057	LTF	Auto-antigen	11472410
Primary Sclerosing Cholangitis	1511	CTSG	Auto-antigen	1327593
Primary Sclerosing Cholangitis	3123	HLA-DRB1	Genetic association	25655558
Primary Sclerosing Cholangitis	3106	HLA-B	Genetic association	25655558
Primary Sclerosing Cholangitis	7124	TNF	Genetic association	11454808
Primary Sclerosing Cholangitis	432	ASGR1	Auto-antigen	26220739
Primary Sclerosing Cholangitis	2952	GSTT1	Auto-antigen	18242955
Primary Sclerosing Cholangitis	5970	RELA	Abnormal expression pattern or level, Experimental model study	26526716
Primary Sclerosing Cholangitis	4792	NFKBIA	Abnormal expression pattern or level, Experimental model study	26526716
Primary Sclerosing Cholangitis	602	BCL3	Abnormal expression pattern or level, Experimental model study	26526716
Primary Sclerosing Cholangitis	7099	TLR4	Abnormal expression pattern or level	17408653
Primary Sclerosing Cholangitis	5595	MAPK3	Abnormal expression pattern or level	17408653
Primary Sclerosing Cholangitis	5594	MAPK1	Abnormal expression pattern or level	17408653
Primary Sclerosing Cholangitis	2002	ELK1	Abnormal expression pattern or level	17408653
Primary Sclerosing Cholangitis	947	CD34	Abnormal expression pattern or level, Experimental model study	19827165
Primary Sclerosing Cholangitis	79661	NEIL1	Mutation, Experimental model study	19443904

Primary Sclerosing Cholangitis	4595	MUTYH	Mutation, Experimental model study	19443904
Primary Sclerosing Cholangitis	929	CD14	Abnormal expression pattern or level, Associated with clinical parameters	26970220
Primary Sclerosing Cholangitis	925	CD8A	Experimental model study	24038154
Primary Sclerosing Cholangitis	339221	ENPP7	Abnormal expression pattern or level	25100243
Primary Sclerosing Cholangitis	79048	SECISBP2	Abnormal expression pattern or level, Experimental model study	17109383
Primary Sclerosing Cholangitis	761	CA3	Abnormal expression pattern or level, Experimental model study	17109383
Primary Sclerosing Cholangitis	22914	KLRK1	Genetic association	18023027
Primary Sclerosing Cholangitis	5054	SERPINE1	Abnormal expression pattern or level, Experimental model study	24390753
Primary Sclerosing Cholangitis	4893	NRAS	Abnormal expression pattern or level, Experimental model study	24390753
Primary Sclerosing Cholangitis	3569	IL6	Abnormal expression pattern or level, Experimental model study	24390753
Primary Sclerosing Cholangitis	6347	CCL2	Abnormal expression pattern or level, Experimental model study	24390753
Primary Sclerosing Cholangitis	920	CD4	Abnormal expression pattern or level	23306841
Primary Sclerosing Cholangitis	3122	HLA-DRA	Genetic association	17394153
Primary Sclerosing Cholangitis	3119	HLA-DQB1	Genetic association	17394153
Primary Sclerosing Cholangitis	3117	HLA-DQA1	Genetic association	17394153
Primary Sclerosing Cholangitis	1080	CFTR	Genetic association	18992954
Primary Sclerosing Cholangitis	4843	NOS2	Abnormal expression pattern or level, Experimental model study	12612912
Primary Sclerosing Cholangitis	8743	TNFSF10	Experimental model study	18667695
Primary Sclerosing Cholangitis	8795	TNFRSF10B	Experimental model study	18667695
Primary Sclerosing Cholangitis	29888	STRN4	Genetic association	23603763
Primary Sclerosing Cholangitis	23235	SIK2	Genetic association	23603763
Primary Sclerosing Cholangitis	10019	SH2B3	Genetic association	23603763
Primary Sclerosing Cholangitis	8624	PSMG1	Genetic association	23603763
Primary Sclerosing Cholangitis	25865	PRKD2	Genetic association	23603763
Primary Sclerosing Cholangitis	59067	IL21	Genetic association	23603763
Primary Sclerosing Cholangitis	3558	IL2	Genetic association	23603763
Primary Sclerosing Cholangitis	51564	HDAC7	Genetic association	23603763

Primary Sclerosing Cholangitis	940	CD28	Genetic association	23603763
Primary Sclerosing Cholangitis	10666	CD226	Genetic association	23603763
Primary Sclerosing Cholangitis	60468	BACH2	Genetic association	23603763
Primary Sclerosing Cholangitis	6311	ATXN2	Genetic association	23603763
Primary Sclerosing Cholangitis	7448	VTN	Abnormal expression pattern or level	7507546
Primary Sclerosing Cholangitis	718	C3	Abnormal expression pattern or level	7507546
Primary Sclerosing Cholangitis	5743	PTGS2	Abnormal expression pattern or level	11584358
Primary Sclerosing Cholangitis	9536	PTGES	Abnormal expression pattern or level	23900502
Primary Sclerosing Cholangitis	4921	DDR2	Abnormal expression pattern or level	12765478
Primary Sclerosing Cholangitis	3576	CXCL8	Abnormal expression pattern or level	26866350
Primary Sclerosing Cholangitis	9965	FGF19	Experimental model study	26418580
Primary Sclerosing Cholangitis	5645	PRSS2	Biomarker	17640760
Primary Sclerosing Cholangitis	3371	TNC	Abnormal expression pattern or level, Associated with clinical parameters	10605691
Primary Sclerosing Cholangitis	2833	CXCR3	Abnormal expression pattern or level, Experimental model study	16785557
Primary Sclerosing Cholangitis	2826	CCR10	Abnormal expression pattern or level, Experimental model study	16785557
Primary Sclerosing Cholangitis	56477	CCL28	Abnormal expression pattern or level, Experimental model study	16785557
Primary Sclerosing Cholangitis	7157	TP53	Abnormal expression pattern or level, Biomarker	23599650
Primary Sclerosing Cholangitis	942	CD86	Abnormal expression pattern or level	9924426
Primary Sclerosing Cholangitis	4072	EPCAM	Abnormal expression pattern or level	16364680
Primary Sclerosing Cholangitis	10599	SLCO1B1	Abnormal expression pattern or level	11454187
Primary Sclerosing Cholangitis	1244	ABCC2	Abnormal expression pattern or level	11454187
Primary Sclerosing Cholangitis	5244	ABCB4	Mutation	26324191
Primary Sclerosing Cholangitis	8764	TNFRSF14	Genetic association	22521342
Primary Sclerosing Cholangitis	79258	MMEL1	Genetic association	22521342
Primary Sclerosing Cholangitis	84162	KIAA1109	Genetic association	22521342
Primary Sclerosing Cholangitis	2524	FUT2	Genetic association	22521342
Primary Sclerosing Cholangitis	9368	SLC9A3R1	Abnormal expression pattern or level, Experimental model study	19234136

Primary Sclerosing Cholangitis	9971	NR1H4	Abnormal expression pattern or level, Associated with clinical parameters	23348121
Primary Sclerosing Cholangitis	2191	FAP	Abnormal expression pattern or level	10347120
Primary Sclerosing Cholangitis	3559	IL2RA	Genetic association	22554193
Primary Sclerosing Cholangitis	5293	PIK3CD	Mutation	25352054
Primary Sclerosing Cholangitis	7130	TNFAIP6	Abnormal expression pattern or level	17162367
Primary Sclerosing Cholangitis	4090	SMAD5	Abnormal expression pattern or level	17162367
Primary Sclerosing Cholangitis	931	MS4A1	Abnormal expression pattern or level	17162367
Primary Sclerosing Cholangitis	4314	MMP3	Genetic association	21134112
Primary Sclerosing Cholangitis	10082	GPC6	Genetic association	19944697
Primary Sclerosing Cholangitis	4485	MST1	Genetic association	21151127
Primary Sclerosing Cholangitis	10018	BCL2L11	Genetic association	21151127
Primary Sclerosing Cholangitis	6925	TCF4	Genetic association	22821403
Primary Sclerosing Cholangitis	2859	GPR35	Genetic association	22821403
Primary Sclerosing Cholangitis	3240	HP	Genetic association	17357835
Primary Sclerosing Cholangitis	10803	CCR9	Abnormal expression pattern or level, Experimental model study	15557349
Primary Sclerosing Cholangitis	6370	CCL25	Abnormal expression pattern or level, Experimental model study	15557349
Primary Sclerosing Cholangitis	8174	MADCAM1	Abnormal expression pattern or level, Experimental model study	11943728
Primary Sclerosing Cholangitis	1236	CCR7	Abnormal expression pattern or level, Experimental model study	11943728
Primary Sclerosing Cholangitis	6366	CCL21	Abnormal expression pattern or level, Experimental model study	11943728
Primary Sclerosing Cholangitis	960	CD44	Abnormal expression pattern or level	12077104
Primary Sclerosing Cholangitis	3126	HLA-DRB4	Biomarker	8276178
Primary Sclerosing Cholangitis	3107	HLA-C	Genetic association	24744588
Primary Sclerosing Cholangitis	3091	HIF1A	Abnormal expression pattern or level, Experimental model study	22271822
Primary Sclerosing Cholangitis	2023	ENO1	Auto-antigen	9649223
Primary Sclerosing Cholangitis	5174	PDZK1	Auto-antigen	19653288
Primary Sclerosing Cholangitis	2064	ERBB2	Abnormal expression pattern or level	1374219
Primary Sclerosing Cholangitis	3605	IL17A	Abnormal expression pattern or level	23564624

Primary Sclerosing Cholangitis	7012	TERC	Mutation	23933276
Primary Sclerosing Cholangitis	3875	KRT18	Abnormal expression pattern or level, Associated with clinical parameters	26195313
Primary Sclerosing Cholangitis	4851	NOTCH1	Abnormal expression pattern or level	15887117
Primary Sclerosing Cholangitis	2525	FUT3	Genetic association	26192140
Primary Sclerosing Cholangitis	5009	OTC	Abnormal expression pattern or level, Biomarker	24930642
Primary Sclerosing Cholangitis	1956	EGFR	Abnormal expression pattern or level, Experimental model study	25915403
Primary Sclerosing Cholangitis	6822	SULT2A1	Abnormal expression pattern or level	26504856
Primary Sclerosing Cholangitis	8856	NR1I2	Abnormal expression pattern or level	26504856
Primary Sclerosing Cholangitis	57817	HAMP	Abnormal expression pattern or level	26270641
Primary Sclerosing Cholangitis	4313	MMP2	Genetic association	23809662
Primary Sclerosing Cholangitis	4586	MUC5AC	Abnormal expression pattern or level	18475301
Primary Sclerosing Cholangitis	4585	MUC4	Abnormal expression pattern or level	18475301
Primary Sclerosing Cholangitis	4854	NOTCH3	Abnormal expression pattern or level	11732008
Primary Sclerosing Cholangitis	3845	KRAS	Mutation, Associated with clinical parameters	11180865
Primary Sclerosing Cholangitis	1E+08	MICA	Genetic association	17383044
Primary Sclerosing Cholangitis	3280	HES1	Abnormal expression pattern or level, Experimental model study	23207146
Primary Sclerosing Cholangitis	3651	PDX1	Abnormal expression pattern or level, Experimental model study	23207146
Primary Sclerosing Cholangitis	1673	DEFB4A	Abnormal expression pattern or level	15382127
Primary Sclerosing Cholangitis	1672	DEFB1	Abnormal expression pattern or level	15382127
Primary Sclerosing Cholangitis	6555	SLC10A2	Experimental model study	26172874
Primary Sclerosing Cholangitis	1237	CCR8	Abnormal expression pattern or level	23811304
Primary Sclerosing Cholangitis	6346	CCL1	Abnormal expression pattern or level	23811304
Primary Sclerosing Cholangitis	4277	MICB	Genetic association	11584356
Primary Sclerosing Cholangitis	3128	HLA-DRB6	Genetic association	17257319
Primary Sclerosing Cholangitis	3125	HLA-DRB3	Genetic association	17257319
Primary Sclerosing Cholangitis	1029	CDKN2A	Abnormal DNA methylation	12738733
Primary Sclerosing Cholangitis	720	C4A	Abnormal expression pattern or level	24551304

Primary Sclerosing Cholangitis	50943	FOXP3	Abnormal expression pattern or level	24412607
Primary Sclerosing Cholangitis	28231	SLCO4A1	Experimental model study	12044520
Primary Sclerosing Cholangitis	8647	ABCB11	Experimental model study	12044520
Primary Sclerosing Cholangitis	6280	S100A9	Abnormal expression pattern or level, Biomarker	22253789
Primary Sclerosing Cholangitis	3586	IL10	Abnormal expression pattern or level	9543183
Primary Sclerosing Cholangitis	6774	STAT3	Experimental model study	20193684
Primary Sclerosing Cholangitis	7033	TFF3	Abnormal expression pattern or level	15101998
Primary Sclerosing Cholangitis	1755	DMBT1	Abnormal expression pattern or level	15101998
Primary Sclerosing Cholangitis	7852	CXCR4	Abnormal expression pattern or level	12746476
Primary Sclerosing Cholangitis	6387	CXCL12	Abnormal expression pattern or level	12746476
Primary Sclerosing Cholangitis	3383	ICAM1	Genetic association	15123348
Primary Sclerosing Cholangitis	151306	GPBAR1	Genetic association	21691110
Primary Sclerosing Cholangitis	912	CD1D	Abnormal expression pattern or level	25855031
Primary Sclerosing Cholangitis	1234	CCR5	Mutation	21134114
Primary Sclerosing Cholangitis	6352	CCL5	Genetic association	17519498
Primary Sclerosing Cholangitis	7046	TGFBR1	Experimental model study	27115285
Primary Sclerosing Cholangitis	7040	TGFB1	Experimental model study	27115285
Primary Sclerosing Cholangitis	4088	SMAD3	Experimental model study	27115285
Primary Sclerosing Cholangitis	4087	SMAD2	Experimental model study	27115285
Primary Sclerosing Cholangitis	6344	SCTR	Experimental model study	27115285
Primary Sclerosing Cholangitis	4803	NGF	Experimental model study	27115285
Primary Sclerosing Cholangitis	7296	TXNRD1	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	22370917
Primary Sclerosing Cholangitis	2745	GLRX	Abnormal expression pattern or level, Associated with clinical parameters, Biomarker	22370917
Primary Sclerosing Cholangitis	5966	REL	Genetic association	21425313
Primary Sclerosing Cholangitis	64170	CARD9	Genetic association	21425313
Primary Sclerosing Cholangitis	54106	TLR9	Abnormal expression pattern or level, Biomarker	25160604
Primary Sclerosing Cholangitis	114548	NLRP3	Abnormal expression pattern or level, Biomarker	25160604

Primary Sclerosing Cholangitis	7412	VCAM1	Abnormal expression pattern or level	24338559
Primary Sclerosing Cholangitis	154	ADRB2	Experimental model study	20921947

Supplemental Table 2: Overlapping of the cholangiopathies associated genes. This table shows the cholangiopathies (Biliary Atresia, Primary Biliary Cholangitis and Primary Sclerosing Cholangitis) overlapping gene information and Genes associated with IHC (intrahepatic cholestasis) and PLD (polycystic liver disease).

Categories	Gene Symbol
Genes shared by BA, PBC and PSC	HAMP, FOXP3, NR1I2, TNFSF10, ABCB11, TP53, TNF, TLR4, TGFB1, STAT3, CXCL12, PTGS2, ABCB4, NFKB1, SMAD3, KRT18, IL17A, IL10, CXCL8, IL6, IL2, ICAM1, HLA-DRB4, HLA-DRB1, HLA-B, HIF1A, CXCR3, ENO1, ABCC2, CCR5, CD86, CD14, CD8A, CD4
Genes shared by BA and PBC, not associated with PSC	IL23R, IL33, SOST, SERBP1, CXCL13, HDAC4, VEGFA, TLR3, STAT1, SPP1, SPINT1, SOX9, SLC10A1, SELE, CX3CL1, PRF1, PHB, TNFRSF11B, NCAM1, CXCL9, MIF, LEP, KRT8, KRT7, ITGB2, CXCL10, IL18, IL12B, IL6R, IL1RN, IGF1, IFNG, HLA-A, NR3C1, GLI2, FH, FCGR3B, FCGR3A, DPP4, CYP7A1, CYP2E1, CX3CR1, COL1A1, CD68, CD40, CD80, C1QA, FASLG, FAS, AKT1, JAG1
Genes shared by BA and PSC, not associated with PBC	KLRK1, NR1H4, SLC10A2, CCL5, CCL2, MAPK1, NOTCH3, NOS2, MMP3, MMP2, HES1, GPR35, CD34

<p>Genes shared by PBC and PSC, not associated with BA</p>	<p>ALPL, ATXN2, BCL2L11, BCL3, C3, C4A, CCL28, CCR10, CCR7, CD28, CD44, CDKN2A, CHRM3, DDR2, DEFB1, DEFB4A, DMBT1, FGF19, FOXO3, GSTT1, HLA-DQA1, HLA-DQB1, HLA-DRA, IL21, IL2RA, LTBP1, LTBP2, MMEL1, MS4A1, SH2B3, SLC9A3R1, SLCO1B1, SMAD2, SULT2A1, TFF3, TLR9, TNFRSF10B, VCAM1, VTN</p>
<p>Unique genes in BA</p>	<p>D2HGDH, AQP12B, AQP12A, DUSP28, RTP5, RFX6, LVRN, COMMD1, PRICKLE1, IL17F, LMLN, ING5, TMEM117, EVA1A, COL18A1, ULBP1, ULBP2, C2orf54, THSD4, ULBP3, LMF1, SOX17, CALCOCO1, ZFAT, RNPEPL1, MEPE, CRTAM, CFC1, PCBP3, KLRF1, TLR8, TLR7, ANKMY1, THAP4, INVS, IL36RN, FGF21, SNED1, BAMBI, ATG4B, PASK, CAPN10, SPINT2, POSTN, STK25, YAP1, IRF9, NR1I3, FARP2, ZEB2, ADIPOQ, IL32, MBD4, APLN, FCGBP, PROM1, DLK1, LGR5, NR0B2, KLRC4, ZIC3, XPNPEP1, VIM, VIL1, USF2, TNXB, TLR2, TIMP4, TIMP3, TIMP2, TIMP1, THPO, TGFB2, TEK, HNF1B, STAT6, SNAI1, SHH, SFTPD, SELP, CXCL5, CXCL11, CCL3, S100A4, RRAS, RORC, RBP4, PTPRC,</p>

<p>Unique genes in BA (continued)</p>	<p>PTEN, MAPK8, PPP2R2A, PPIA, UBL3, PLAU, ENPP2, PDGFA, NOTCH2, NOS1, NKG7, SEPTIN2, MX2, MX1, MMP9, MMP7, MMP1, MBD1, MAOB, LGALS3, LAMC2, LAMB1, KLRC2, KIT, KDR, ITGB8, ITGAL, ITGA3, ITGA2, IRF7, IRF3, IL15, IL13, CXCR2, IGFBP3, IGFBP1, IFNB1, HSP90AA1, HPCAL1, HOXC13, FOXA2, HMGB1, HGF, HDLBP, HDC, GZMB, GZMA, GSTA1, CXCL2, GPT, GPC1, GHR, GATA3, FGF2, EPAS1, ENG, EGF, EDN1, DTYMK, DPEP1, DNMT3A, DNMT1, DLG3, CYP3A4, CYP2C19, CYP2B6, CYP1A2, CTGF, COL4A1, COL3A1, COL1A2, CCR6, CDX4, CDH1, CD69, CASP3, CASP1, C3AR1, BOK, BMP7, AZU1, KIF1A, ARF6, APOC3, APOC2, ANGPT2, ANGPT1, AGXT, ADD3, ACTA1</p>
<p>Unique genes in PBC</p>	<p>ABCC3, ABCC4, ABCC5, ABCG2, AGO1, AIRE, AKAP11, ALB, ALDH2, ANPEP, ANXA2, AOC3, APOE, APOH, AQP1, ARRB1, ATM, B3GAT1, BCL2, BHMT, BMI1, BRAP, BTNL2, C4B, C5, C5orf30, C6orf10, CA2, CAPSL, CAV1, CAV2, CCDC88B, CCL20, CCL7, CCL8, CCR2, CD101, CD180, CD19, CD1a, CD1C, CD1d, CD27, CD274, CD40LG, CD74, CD79A, CD83, CDKN1A, CDKN1B, CENPB,</p>

Unique genes in PBC (continued)

CHUK, CISD2, CLDN14, CLEC16A, CNR1, CNR2, COL11A2, CRHR1, CRP, CTLA4, CXCL16, CXCR5, DBT, DDR1, DDX6, DENND1B, DEXI, DGKQ, DLAT, DLEU1, DLST, EBAG9, EDN2, EIF2AK2, EIF3KP1, ELMO1, ENTPD1, ENTPD2, EPO, ESR1, ESR2, ESRRG, EXOC3L4, FAM183DP, FBXL20, FCGR2A, FCRL3, FGFR1, FN1, GAK, GCSH, GHRL, GIN1, GNLY, GRIPAP1, GSDMB, GSTM1, HELZ2, HK1, HLA-DPB1, HLA-DQA2, HLA-DQB2, HMGCR, HSPA4, ICOS, ICOSLG, IDO1, IDUA, IFNA1, IFT80, IGF1R, IHH, IKZF3, IL12A, IL12A, IL12RB2, IL18R1, IL18RAP, IL1B, IL1R1, IL1RL1, IL1RL2, IL23A, IL4, IL5, IL7R, IRF5, IRF8, ITGA4, ITGA5, ITGAX, KANSL1, KLHL12, KLHL7, KRT19, KRT23, LAMP1, LAMP2, LBH, LBR, LGALS3BP, LOC100533842, LOC102723649, LOC285626, LOC442263, LOC644172, LOX, LOXL2, LSM14A, LTA, LTBR, MANBA, MAPT, MBL2, MIR4772, MPO, MT1A, MUC1, MUC6, MYBPC2, MYD88, NAB1, NF1, NFE2L2, NOS3, NQO1, NSF, NUP210, NUP62, OGDH, OLIG3, OPRM1, ORMDL3, PAM, PDCD1, PDGFB, PDHX, PDK4, PLCL2, PLEKHG6, PML, POGLUT1,

<p>Unique genes in PBC (continued)</p>	<p>POU2AF1, PPARG, PPIP5K2, PRM1, PRM2, PTCH1, PTPN22, RAD51B, RBFOX1, RNA5SP121, RNF145, RNU4ATAC2P, RPL3, RPS6KA4, S100A12, SCHIP1, SCNN1A, SELL, SEPTIN1, SERPINA1, SIAE, SIGLEC1, SLC22A1, SLC44A1, SLC4A2, SLC51A, SLC51B, SNRPGP8, SOCS1, SOX13, SP100, SP140, SP140L, SPEF2, SPIB, SPPL2C, SQSTM1, STAT4, SUMO1, SUMO2, SYNGR1, TAB1, TFF2, TGFB3, TGFB2, TIMMDC1, TJP1, TMEM175, TMEM39A, TNFAIP2, TNFAIP3, TNFAIP8L2, TNFRSF1A, TNFRSF6B, TNFRSF8, TNFSF11, TNFSF13B, TNFSF15, TNFSF4, TNFSF9, TNP2, TNPO3, TNRC6A, TPMT, TRAF1, TRAFD1, TYK2, TYROBP, UBLCP1, UCP2, UGT3A1, VCP, VDR, VTCN1, WNT10B, WNT2, WNT2B, XRCC6, ZBTB2, ZFP36, ZBPB2</p>
<p>Unique genes in PSC</p>	<p>PNPLA3, KITLG, NEUROG3, AICDA, TJP1, RIC8B, PRTN3, LTF, CTSG, ASGR1, RELA, NFKBIA, MAPK3, ELK1, NEIL1, MUTYH, ENPP7, SECISBP2, CA3, SERPINE1, NRAS, CFTR, STRN4, SIK2, PSMG1, PRKD2, HDAC7, CD226, BACH2, PTGES, PRSS2, TNC, EPCAM, TNFRSF14, KIAA1109, FUT2, FAP, PIK3CD, TNFAIP6,</p>

Unique genes in PSC (continued)	SMAD5, GPC6, MST1, TCF4, HP, CCR9, CCL25, MADCAM1, CCL21, HLA-C, PDZK1, ERBB2, TERC, NOTCH1, FUT3, OTC, EGFR, MUC5AC, MUC4, KRAS, MICA, PDX1, CCR8, CCL1, MICB, HLA-DRB6, HLA-DRB3, SLCO4A1, S100A9, CXCR4, GPBAR1, CD1D, TGFB1, SCTR, NGF, TXNRD1, GLRX, REL, CARD9, NLRP3, ADRB2
Genes associated with IHC	ABCB11, AT8B1, TJP2, AP1S1, MAFG, MAF, EGR1, NR1H4, NROB2, CXCL2, SLC22A1, SLC22A2, ENTPD1, ABCB4, HLA-DRB1, ABCC2, SLC25A13, HLA-DQB1, NR1I2, ESR2, SHBG, APOE, HLA-G, CYP1A1, CYP1B1, GGTL1, CIRH1A, VPS33B, ARC, NR1I3, FGF19, GPD2, NOL3, SERPINA1, TEK, SLC10A2
Genes associated with PLD	PRKCSH, SEC63, LRP5, HDAC6, PRKD2, PKD2, PRKD1, PKD1, NXN, CDC25A, PKD2L1, RASGRF1, CDC25C, SIL1

Supplemental Table 3: Summary of Transcription factors and miRNAs subcore genes co-regulatory network

Terms	Number
Nodes	589
Interactions	11,553
subcore genes	14
Transcription factors	282
miRNAs	297
TF feed forward loops	5,575
miRNA feed forward loops	1,385
TF-miRNA composite feed forward loops	332

Supplemental Table 4: Lists of transcription factors and miRNAs that regulate subcore genes. This table shows transcription factors and miRNAs that regulate subcore genes.

Categories	Gene Symbol
Subcore genes	FOXP3, HIF1A, IL10, IL17A, IL2, IL6, NFKB1, PTGS2, SMAD3, STAT3, TGFB1, TLR4, TNF, TP53
Transcription factors that target subcore genes	ADNP, AEBP2, AFF1, AHR, AR, ARID3A, ARNT, ARNTL, ASCL1, ASCL2, ATF1, ATF2, ATF3, ATF5, ATOH1, BACH1, BACH2, BARHL1, BARX1, BARX2, BATF, BCL11A, BCL6, BCLAF1, BHLHE40, CASZ1, CDX2, CEBPA, CEBPB, CEPD, CEPG, CLOCK, CREB1, CREBL2, CTCF, CTCFL, CUX1, DBP, DLX1, E2F1, E2F2, E2F3, E2F4, E2F6, E2F7, E2F8, EBF1, EGR1, EGR2, EHF, ELF1, ELF2, ELF3, ELK1, ELK3, ELK4, EOMES, ERF, ERG, ESR1, ESR2, ESRRA, ETS1, ETS2, ETV1, ETV4, ETV5, ETV7, FEV, FOS, FOSL1, FOSL2, FOXA1, FOXA2, FOXD2, FOXG1, FOXH1, FOXM1, FOXO3, FOXP1, FOXP2, FOXP3, GABPA, GATA1, GATA2, GATA3, GATA4, GATA6, GLI2, GLI3, GLIS1, GMEB1, GMEB2, HAND1, HBP1, HES1, HES4, HEY1, HIF1A, HINFP, HMGN3, HNF4A,

Transcription factors that target subcore genes (continued)

HNF4G, HOXA1, HOXA10, HOXA13, HOXA2, HOXA5, HOXA6, HOXA7, HOXB13, HOXC13, HOXC6, HOXC9, HSF1, HSF2, ID1, ID2, IKZF1, IRF1, IRF2, IRF3, IRF4, IRF5, JUN, JUNB, JUND, KDM5A, KDM5B, KLF1, KLF3, KLF4, KLF5, KLF9, LEF1, LHX2, LHX4, LYL1, MAF, MAFB, MAFF, MAFK, MAX, MAZ, MBD3, MBD4, MECOM, MEF2A, MEF2C, MITF, MNT, MTA3, MXD1, MXI1, MYB, MYBL1, MYBL2, MYC, MYOD1, MZF1, NANOG, NCOR1, NCOR2, NFAT5, NFATC1, NFE2, NFE2L2, NFIC, NFYA, NFYB, NKX2-1, NKX2-2, NKX2-5, NR1D1, NR2C2, NR2F1, NR2F2, NR3C1, NR5A1, NR5A2, NRF1, OTX2, OVOL2, PATZ1, PAX5, PAX6, PBX1, PBX2, PBX3, PGR, POU2F2, POU5F1, PPARG, PRDM1, PROX1, RARG, RCOR1, RELA, REST, RFX1, RFX2, RFX5, RUNX1, RUNX3, RXRA, SALL4, SETDB1, SIX5, SMAD1, SMAD2, SMAD3, SMAD4, SMARCC1, SMARCC2, SNAI2, SOX17, SOX2, SOX4, SOX9, SP1, SP2, SP3, SP4, SPDEF, SPI1, SPIB, SREBF1, SRF, STAT1, STAT2, STAT3, STAT4, STAT5A, T, TAL1, TBP, TCF12, TCF21, TCF3, TCF4, TCF7L2, TEAD1, TEAD2, TEAD4, TFAM, TFAP2A, TFAP2C, TFAP4,

<p>Transcription factors that target subcore genes (continued)</p>	<p>TFDP1, TFE3, TFEB, THAP1, THAP11, TP53, TP63, TP73, UBTF, USF1, USF2, VDR, VEZF1, WHSC1, WIZ, XBP1, YY1, ZBED4, ZBTB4, ZBTB7A, ZEB1, ZFH3, ZFP42, ZFX, ZKSCAN1, ZMIZ1, ZNF143, ZNF217, ZNF250, ZNF263, ZNF384, ZNF407, ZNF552, ZNF83</p>
<p>miRNAs that target subcore genes</p>	<p>hsa-let-7a-5p, hsa-let-7b-5p, hsa-let-7c-5p, hsa-let-7e-5p, hsa-let-7i-5p, hsa-miR-100-5p, hsa-miR-101-3p, hsa-miR-106a-3p, hsa-miR-106a-5p, hsa-miR-106b-3p, hsa-miR-106b-5p, hsa-miR-107, hsa-miR-10b-5p, hsa-miR-1178-3p, hsa-miR-1181, hsa-miR-1207-5p, hsa-miR-122-5p, hsa-miR-1233-5p, hsa-miR-1234-3p, hsa-miR-124-3p, hsa-miR-1249-5p, hsa-miR-125a-5p, hsa-miR-125b-5p, hsa-miR-1264, hsa-miR-1273f, hsa-miR-128-3p, hsa-miR-1285-3p, hsa-miR-1288-5p, hsa-miR-1296-3p, hsa-miR-130a-3p, hsa-miR-130b-3p, hsa-miR-1322, hsa-miR-132-3p, hsa-miR-137, hsa-miR-138-2-3p, hsa-miR-138-5p, hsa-miR-139-5p, hsa-miR-1-3p, hsa-miR-142-3p, hsa-miR-143-3p, hsa-miR-144-3p, hsa-miR-145-5p, hsa-miR-1468-3p, hsa-miR-146a-5p, hsa-miR-146b-5p, hsa-miR-149-3p, hsa-miR-149-5p,</p>

miRNAs that target subcore genes (continued)

hsa-miR-150-5p, hsa-miR-151a-3p, hsa-miR-153-5p, hsa-miR-155-5p, hsa-miR-15a-5p, hsa-miR-15b-5p, hsa-miR-16-5p, hsa-miR-17-5p, hsa-miR-181a-5p, hsa-miR-181c-5p, hsa-miR-185-5p, hsa-miR-187-3p, hsa-miR-18a-3p, hsa-miR-18a-5p, hsa-miR-18b-5p, hsa-miR-1908-5p, hsa-miR-1909-3p, hsa-miR-1910-3p, hsa-miR-193b-3p, hsa-miR-194-3p, hsa-miR-195-5p, hsa-miR-1972, hsa-miR-199a-3p, hsa-miR-199a-5p, hsa-miR-199b-5p, hsa-miR-19a-3p, hsa-miR-19b-3p, hsa-miR-200a-3p, hsa-miR-203a-3p, hsa-miR-20a-5p, hsa-miR-20b-5p, hsa-miR-210-3p, hsa-miR-2110, hsa-miR-211-5p, hsa-miR-214-3p, hsa-miR-21-5p, hsa-miR-217, hsa-miR-221-3p, hsa-miR-222-3p, hsa-miR-223-3p, hsa-miR-22-3p, hsa-miR-24-3p, hsa-miR-25-3p, hsa-miR-2682-5p, hsa-miR-26a-5p, hsa-miR-26b-5p, hsa-miR-27a-3p, hsa-miR-296-3p, hsa-miR-299-5p, hsa-miR-29b-3p, hsa-miR-3065-5p, hsa-miR-3074-3p, hsa-miR-30a-5p, hsa-miR-30b-5p, hsa-miR-30c-5p, hsa-miR-30d-5p, hsa-miR-30e-5p, hsa-miR-3121-3p, hsa-miR-3128, hsa-miR-31-5p, hsa-miR-3160-3p, hsa-miR-3165, hsa-miR-3199, hsa-miR-320a, hsa-miR-324-3p, hsa-miR-324-5p, hsa-miR-329-5p, hsa-

miRNAs that target subcore genes (continued)

miR-335-5p, hsa-miR-337-3p, hsa-miR-33a-5p, hsa-miR-34a-5p, hsa-miR-34b-5p, hsa-miR-3529-3p, hsa-miR-3609, hsa-miR-3658, hsa-miR-365a-3p, hsa-miR-365a-5p, hsa-miR-365b-5p, hsa-miR-3662, hsa-miR-3668, hsa-miR-371b-3p, hsa-miR-375, hsa-miR-379-3p, hsa-miR-380-5p, hsa-miR-3934-5p, hsa-miR-424-5p, hsa-miR-4270, hsa-miR-4271, hsa-miR-4279, hsa-miR-4282, hsa-miR-4286, hsa-miR-4290, hsa-miR-4306, hsa-miR-4418, hsa-miR-4419a, hsa-miR-4434, hsa-miR-4438, hsa-miR-4441, hsa-miR-4463, hsa-miR-4464, hsa-miR-4470, hsa-miR-4487, hsa-miR-4499, hsa-miR-449c-5p, hsa-miR-4510, hsa-miR-4516, hsa-miR-452-5p, hsa-miR-4531, hsa-miR-454-3p, hsa-miR-4644, hsa-miR-4650-5p, hsa-miR-4651, hsa-miR-4659a-3p, hsa-miR-4659b-3p, hsa-miR-4662a-5p, hsa-miR-4682, hsa-miR-4684-5p, hsa-miR-4685-5p, hsa-miR-4694-3p, hsa-miR-4697-3p, hsa-miR-4698, hsa-miR-4720-3p, hsa-miR-4725-3p, hsa-miR-4728-5p, hsa-miR-4735-3p, hsa-miR-4736, hsa-miR-4738-3p, hsa-miR-4742-3p, hsa-miR-4748, hsa-miR-4763-3p, hsa-miR-4768-5p, hsa-miR-4778-3p, hsa-miR-4795-5p, hsa-miR-4799-5p, hsa-miR-4804-3p, hsa-

miRNAs that target subcore genes (continued)

miR-484, hsa-miR-485-5p, hsa-miR-491-5p, hsa-miR-494-3p, hsa-miR-5003-5p, hsa-miR-500b-3p, hsa-miR-504-5p, hsa-miR-5089-3p, hsa-miR-509-3-5p, hsa-miR-5094, hsa-miR-5095, hsa-miR-509-5p, hsa-miR-513b-3p, hsa-miR-5193, hsa-miR-5196-3p, hsa-miR-5197-5p, hsa-miR-519c-3p, hsa-miR-519d-3p, hsa-miR-526b-5p, hsa-miR-548ah-5p, hsa-miR-548g-3p, hsa-miR-548n, hsa-miR-558, hsa-miR-5581-3p, hsa-miR-5681a, hsa-miR-5681b, hsa-miR-5692a, hsa-miR-5693, hsa-miR-5702, hsa-miR-5703, hsa-miR-576-3p, hsa-miR-589-3p, hsa-miR-589-5p, hsa-miR-605-5p, hsa-miR-6077, hsa-miR-608, hsa-miR-612, hsa-miR-6127, hsa-miR-6129, hsa-miR-6130, hsa-miR-6133, hsa-miR-618, hsa-miR-622, hsa-miR-625-3p, hsa-miR-630, hsa-miR-633, hsa-miR-6511a-5p, hsa-miR-652-3p, hsa-miR-660-3p, hsa-miR-663a, hsa-miR-6722-3p, hsa-miR-6731-5p, hsa-miR-6749-3p, hsa-miR-6751-5p, hsa-miR-6752-5p, hsa-miR-6754-5p, hsa-miR-6755-5p, hsa-miR-6756-5p, hsa-miR-6760-5p, hsa-miR-6762-3p, hsa-miR-6766-5p, hsa-miR-6778-5p, hsa-miR-6780b-5p, hsa-miR-6785-5p, hsa-miR-6789-3p, hsa-miR-6797-5p, hsa-miR-6803-5p, hsa-miR-

miRNAs that target subcore genes (continued)

6806-5p, hsa-miR-6807-3p, hsa-miR-6807-5p, hsa-miR-6808-5p, hsa-miR-6809-3p, hsa-miR-6815-3p, hsa-miR-6825-5p, hsa-miR-6833-3p, hsa-miR-6835-5p, hsa-miR-6837-5p, hsa-miR-6842-5p, hsa-miR-6845-3p, hsa-miR-6871-3p, hsa-miR-6872-3p, hsa-miR-6875-3p, hsa-miR-6878-5p, hsa-miR-6880-5p, hsa-miR-6882-5p, hsa-miR-6883-5p, hsa-miR-6893-5p, hsa-miR-7110-3p, hsa-miR-7110-5p, hsa-miR-7113-5p, hsa-miR-7150, hsa-miR-7151-3p, hsa-miR-7158-5p, hsa-miR-744-5p, hsa-miR-7-5p, hsa-miR-8052, hsa-miR-8055, hsa-miR-8071, hsa-miR-8085, hsa-miR-874-3p, hsa-miR-877-3p, hsa-miR-889-3p, hsa-miR-922, hsa-miR-92a-1-5p, hsa-miR-92a-2-5p, hsa-miR-92a-3p, hsa-miR-92b-3p, hsa-miR-935, hsa-miR-93-5p, hsa-miR-937-5p, hsa-miR-940, hsa-miR-942-5p, hsa-miR-9-5p, hsa-miR-98-5p, hsa-miR-99a-5p

Supplemental Table 5: Transcription factors and miRNAs**subcore genes co-regulatory network.** This table shows

transcription factors, miRNAs and subcore genes relationship.

Transcription factors or miRNAs in Source column regulate

genes or miRNAs in Target column.

Source	Target
ADNP	SMAD3
ADNP	hsa-miR-6815-3p
ADNP	hsa-miR-6789-3p
ADNP	hsa-miR-5702
ADNP	hsa-miR-484
ADNP	hsa-miR-1181
AEBP2	TGFB1
AEBP2	hsa-miR-6875-3p
AFF1	HIF1A
AFF1	NFKB1
AFF1	hsa-miR-4736
AFF1	hsa-miR-199a-5p
AFF1	hsa-miR-199a-3p
AFF1	hsa-miR-142-3p
AHR	IL6
AHR	hsa-miR-146a-5p
AHR	hsa-miR-21-5p
AR	IL6
AR	STAT3
AR	TP53
AR	TLR4
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CDX2	TP53
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CDX2	hsa-miR-93-5p

CDX2	hsa-miR-9-5p
CDX2	hsa-miR-874-3p
CDX2	hsa-miR-8085
CDX2	hsa-miR-744-5p
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CDX2	hsa-miR-6893-5p
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CDX2	hsa-miR-107
CDX2	hsa-miR-106b-5p
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CDX2	hsa-miR-1-3p
CDX2	hsa-let-7b-5p
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CEBPA	SMAD3
CEBPA	STAT3
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CEBPA	hsa-miR-625-3p
CEBPA	hsa-miR-612
CEBPA	hsa-miR-5193
CEBPA	hsa-miR-4768-5p
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CEBPB	IL10
CEBPB	IL2
CEBPB	IL6
CEBPB	NFKB1
CEBPB	PTGS2
CEBPB	SMAD3
CEBPB	STAT3
CEBPB	TGFB1
CEBPB	TNF
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CEBPD	hsa-miR-132-3p
CEBPG	TP53
CLOCK	IL6
CLOCK	SMAD3
CLOCK	STAT3
CLOCK	TP53
CLOCK	hsa-miR-9-5p
CLOCK	hsa-miR-5702
CLOCK	hsa-miR-558
CLOCK	hsa-miR-449c-5p
CLOCK	hsa-miR-19a-3p
CLOCK	hsa-miR-194-3p
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CREB1	HIF1A
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CREB1	PTGS2
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CREB1	STAT3
CREB1	TGFB1
CREB1	TP53
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CREB1	hsa-let-7i-5p
CREB1	hsa-let-7b-5p
CREBL2	FOXP3
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CTCF	IL6
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CTCF	hsa-miR-132-3p
CTCF	hsa-miR-1296-3p
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CTCF	hsa-miR-128-3p
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CTCFL	TP53
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DBP	NFKB1
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ELK4	TLR4
ELK4	TP53
ELK4	hsa-let-7i-5p
ELK4	hsa-miR-1181
ELK4	hsa-miR-320a
ELK4	hsa-miR-4470
ELK4	hsa-miR-612
ELK4	hsa-miR-663a
EOMES	IL2
EOMES	IL6
EOMES	NFKB1
EOMES	SMAD3
EOMES	STAT3
EOMES	TP53
EOMES	TGFB1
EOMES	hsa-miR-874-3p
EOMES	hsa-miR-7150
EOMES	hsa-miR-7-5p
EOMES	hsa-miR-618
EOMES	hsa-miR-5702
EOMES	hsa-miR-4768-5p
EOMES	hsa-miR-4650-5p
EOMES	hsa-miR-449c-5p
EOMES	hsa-miR-375
EOMES	hsa-miR-3658
EOMES	hsa-miR-30a-5p
EOMES	hsa-miR-21-5p
EOMES	hsa-miR-1322
EOMES	hsa-miR-1249-5p
EOMES	hsa-miR-122-5p

EOMES	hsa-miR-1207-5p
EOMES	hsa-let-7a-5p
ERF	HIF1A
ERF	hsa-miR-6806-5p
ERF	hsa-miR-130b-3p
ERG	HIF1A
ERG	NFKB1
ERG	PTGS2
ERG	STAT3
ERG	TLR4
ERG	TP53
ERG	IL2
ERG	hsa-let-7a-5p
ERG	hsa-miR-100-5p
ERG	hsa-miR-101-3p
ERG	hsa-miR-144-3p
ERG	hsa-miR-16-5p
ERG	hsa-miR-214-3p
ERG	hsa-miR-589-3p
ERG	hsa-miR-589-5p
ERG	hsa-miR-874-3p
ERG	hsa-miR-942-5p
ERG	hsa-miR-937-5p
ERG	hsa-miR-935
ERG	hsa-miR-92b-3p
ERG	hsa-miR-92a-3p
ERG	hsa-miR-92a-1-5p
ERG	hsa-miR-9-5p
ERG	hsa-miR-7158-5p
ERG	hsa-miR-7-5p
ERG	hsa-miR-6815-3p
ERG	hsa-miR-6789-3p
ERG	hsa-miR-663a
ERG	hsa-miR-633
ERG	hsa-miR-612
ERG	hsa-miR-5703
ERG	hsa-miR-5702
ERG	hsa-miR-5681b
ERG	hsa-miR-5681a
ERG	hsa-miR-5193

ERG	hsa-miR-484
ERG	hsa-miR-4804-3p
ERG	hsa-miR-4799-5p
ERG	hsa-miR-4795-5p
ERG	hsa-miR-4742-3p
ERG	hsa-miR-4738-3p
ERG	hsa-miR-4736
ERG	hsa-miR-4516
ERG	hsa-miR-4434
ERG	hsa-miR-4290
ERG	hsa-miR-4279
ERG	hsa-miR-3934-5p
ERG	hsa-miR-320a
ERG	hsa-miR-3199
ERG	hsa-miR-3165
ERG	hsa-miR-3121-3p
ERG	hsa-miR-29b-3p
ERG	hsa-miR-27a-3p
ERG	hsa-miR-2682-5p
ERG	hsa-miR-24-3p
ERG	hsa-miR-2110
ERG	hsa-miR-210-3p
ERG	hsa-miR-20a-5p
ERG	hsa-miR-203a-3p
ERG	hsa-miR-19b-3p
ERG	hsa-miR-19a-3p
ERG	hsa-miR-1908-5p
ERG	hsa-miR-18a-5p
ERG	hsa-miR-18a-3p
ERG	hsa-miR-17-5p
ERG	hsa-miR-155-5p
ERG	hsa-miR-149-5p
ERG	hsa-miR-149-3p
ERG	hsa-miR-137
ERG	hsa-miR-132-3p
ERG	hsa-miR-124-3p
ERG	hsa-miR-1181
ERG	hsa-miR-1-3p
ERG	hsa-let-7i-5p
ESR1	HIF1A

ESR1	NFKB1
ESR1	STAT3
ESR1	TLR4
ESR1	TGFB1
ESR1	TP53
ESR1	IL10
ESR1	PTGS2
ESR1	hsa-miR-24-3p
ESR1	hsa-miR-27a-3p
ESR1	hsa-miR-30a-5p
ESR1	hsa-miR-365b-5p
ESR1	hsa-miR-4698
ESR1	hsa-miR-4725-3p
ESR1	hsa-miR-589-3p
ESR1	hsa-miR-589-5p
ESR1	hsa-miR-612
ESR1	hsa-miR-937-5p
ESR1	hsa-miR-935
ESR1	hsa-miR-92b-3p
ESR1	hsa-miR-92a-3p
ESR1	hsa-miR-92a-1-5p
ESR1	hsa-miR-9-5p
ESR1	hsa-miR-8085
ESR1	hsa-miR-8071
ESR1	hsa-miR-744-5p
ESR1	hsa-miR-7158-5p
ESR1	hsa-miR-7150
ESR1	hsa-miR-7113-5p
ESR1	hsa-miR-6893-5p
ESR1	hsa-miR-6882-5p
ESR1	hsa-miR-6880-5p
ESR1	hsa-miR-6875-3p
ESR1	hsa-miR-6872-3p
ESR1	hsa-miR-6871-3p
ESR1	hsa-miR-6845-3p
ESR1	hsa-miR-6837-5p
ESR1	hsa-miR-6825-5p
ESR1	hsa-miR-6815-3p
ESR1	hsa-miR-6809-3p
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ESR1	hsa-miR-6797-5p
ESR1	hsa-miR-6789-3p
ESR1	hsa-miR-6756-5p
ESR1	hsa-miR-6754-5p
ESR1	hsa-miR-6752-5p
ESR1	hsa-miR-6751-5p
ESR1	hsa-miR-6722-3p
ESR1	hsa-miR-663a
ESR1	hsa-miR-6511a-5p
ESR1	hsa-miR-630
ESR1	hsa-miR-618
ESR1	hsa-miR-6129
ESR1	hsa-miR-6127
ESR1	hsa-miR-608
ESR1	hsa-miR-5703
ESR1	hsa-miR-5681b
ESR1	hsa-miR-5681a
ESR1	hsa-miR-5197-5p
ESR1	hsa-miR-5193
ESR1	hsa-miR-5089-3p
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ESR1	hsa-miR-491-5p
ESR1	hsa-miR-485-5p
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ESR1	hsa-miR-4795-5p
ESR1	hsa-miR-4778-3p
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ESR1	hsa-miR-4651
ESR1	hsa-miR-4644
ESR1	hsa-miR-4531
ESR1	hsa-miR-452-5p
ESR1	hsa-miR-449c-5p
ESR1	hsa-miR-4487
ESR1	hsa-miR-4470
ESR1	hsa-miR-4434
ESR1	hsa-miR-4418
ESR1	hsa-miR-4306
ESR1	hsa-miR-4279
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ESR1	hsa-miR-375
ESR1	hsa-miR-365a-5p
ESR1	hsa-miR-365a-3p
ESR1	hsa-miR-3609
ESR1	hsa-miR-337-3p
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ESR1	hsa-miR-324-5p
ESR1	hsa-miR-324-3p
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ESR1	hsa-miR-3199
ESR1	hsa-miR-3165
ESR1	hsa-miR-3160-3p
ESR1	hsa-miR-30b-5p
ESR1	hsa-miR-3074-3p
ESR1	hsa-miR-3065-5p
ESR1	hsa-miR-299-5p
ESR1	hsa-miR-223-3p
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ESR1	hsa-miR-211-5p
ESR1	hsa-miR-210-3p
ESR1	hsa-miR-21-5p
ESR1	hsa-miR-20a-5p
ESR1	hsa-miR-203a-3p

ESR1	hsa-miR-200a-3p
ESR1	hsa-miR-19b-3p
ESR1	hsa-miR-19a-3p
ESR1	hsa-miR-199a-5p
ESR1	hsa-miR-199a-3p
ESR1	hsa-miR-195-5p
ESR1	hsa-miR-193b-3p
ESR1	hsa-miR-1908-5p
ESR1	hsa-miR-18a-5p
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ESR1	hsa-miR-187-3p
ESR1	hsa-miR-185-5p
ESR1	hsa-miR-181c-5p
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ESR1	hsa-miR-132-3p
ESR1	hsa-miR-130b-3p
ESR1	hsa-miR-1288-5p
ESR1	hsa-miR-1285-3p
ESR1	hsa-miR-1273f
ESR1	hsa-miR-125a-5p
ESR1	hsa-miR-1249-5p
ESR1	hsa-miR-124-3p
ESR1	hsa-miR-1234-3p
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ESR1	hsa-miR-10b-5p
ESR1	hsa-miR-1-3p
ESR1	hsa-let-7i-5p

ESR1	hsa-let-7e-5p
ESR1	hsa-let-7b-5p
ESR1	hsa-let-7a-5p
ESR2	STAT3
ESR2	hsa-miR-935
ESR2	hsa-miR-7150
ESR2	hsa-miR-7113-5p
ESR2	hsa-miR-6882-5p
ESR2	hsa-miR-6872-3p
ESR2	hsa-miR-6871-3p
ESR2	hsa-miR-589-5p
ESR2	hsa-miR-589-3p
ESR2	hsa-miR-452-5p
ESR2	hsa-miR-375
ESR2	hsa-miR-324-5p
ESR2	hsa-miR-324-3p
ESR2	hsa-miR-3165
ESR2	hsa-miR-211-5p
ESR2	hsa-miR-203a-3p
ESR2	hsa-miR-1178-3p
ESR2	hsa-miR-1-3p
ESRRA	PTGS2
ESRRA	hsa-miR-1207-5p
ESRRA	hsa-miR-4651
ESRRA	hsa-miR-663a
ESRRA	hsa-miR-937-5p
ESRRA	hsa-miR-92a-3p
ESRRA	hsa-miR-92a-1-5p
ESRRA	hsa-miR-6797-5p
ESRRA	hsa-miR-3199
ESRRA	hsa-miR-19b-3p
ESRRA	hsa-miR-194-3p
ETS1	HIF1A
ETS1	NFKB1
ETS1	SMAD3
ETS1	STAT3
ETS1	TGFB1
ETS1	TNF
ETS1	TP53
ETS1	PTGS2

ETS1	hsa-miR-142-3p
ETS1	hsa-miR-9-5p
ETS1	hsa-miR-7-5p
ETS1	hsa-miR-6815-3p
ETS1	hsa-miR-6807-5p
ETS1	hsa-miR-6807-3p
ETS1	hsa-miR-5703
ETS1	hsa-miR-5193
ETS1	hsa-miR-484
ETS1	hsa-miR-4795-5p
ETS1	hsa-miR-4738-3p
ETS1	hsa-miR-4531
ETS1	hsa-miR-449c-5p
ETS1	hsa-miR-4470
ETS1	hsa-miR-4434
ETS1	hsa-miR-365a-5p
ETS1	hsa-miR-365a-3p
ETS1	hsa-miR-320a
ETS1	hsa-miR-27a-3p
ETS1	hsa-miR-26a-5p
ETS1	hsa-miR-24-3p
ETS1	hsa-miR-21-5p
ETS1	hsa-miR-199b-5p
ETS1	hsa-miR-193b-3p
ETS1	hsa-miR-1908-5p
ETS1	hsa-miR-155-5p
ETS1	hsa-miR-150-5p
ETS1	hsa-miR-145-5p
ETS2	HIF1A
ETS2	NFKB1
ETS2	PTGS2
ETS2	SMAD3
ETS2	STAT3
ETS2	TLR4
ETS2	TP53
ETS2	hsa-miR-942-5p
ETS2	hsa-miR-7-5p
ETS2	hsa-miR-6797-5p
ETS2	hsa-miR-4659b-3p
ETS2	hsa-miR-449c-5p

ETS2	hsa-miR-1322
ETV1	HIF1A
ETV1	NFKB1
ETV1	PTGS2
ETV1	STAT3
ETV1	TGFB1
ETV1	TP53
ETV1	hsa-miR-5089-3p
ETV1	hsa-miR-3934-5p
ETV1	hsa-miR-365a-5p
ETV1	hsa-miR-365a-3p
ETV1	hsa-miR-3199
ETV1	hsa-miR-195-5p
ETV1	hsa-miR-181c-5p
ETV1	hsa-miR-149-5p
ETV1	hsa-miR-149-3p
ETV1	hsa-miR-124-3p
ETV4	NFKB1
ETV4	STAT3
ETV4	hsa-miR-7113-5p
ETV4	hsa-miR-194-3p
ETV5	HIF1A
ETV5	PTGS2
ETV5	SMAD3
ETV5	TP53
ETV5	hsa-miR-3128
ETV5	hsa-miR-29b-3p
ETV5	hsa-miR-16-5p
ETV5	hsa-miR-15b-5p
ETV5	hsa-miR-155-5p
ETV7	HIF1A
FEV	HIF1A
FEV	hsa-miR-3074-3p
FEV	hsa-miR-24-3p
FOS	HIF1A
FOS	IL6
FOS	NFKB1
FOS	PTGS2
FOS	STAT3
FOS	TGFB1

FOS	TLR4
FOS	TP53
FOS	hsa-let-7a-5p
FOS	hsa-let-7i-5p
FOS	hsa-miR-1181
FOS	hsa-miR-1207-5p
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FOS	hsa-miR-144-3p
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FOS	hsa-miR-155-5p
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FOS	hsa-miR-199b-5p
FOS	hsa-miR-21-5p
FOS	hsa-miR-210-3p
FOS	hsa-miR-2110
FOS	hsa-miR-214-3p
FOS	hsa-miR-30b-5p
FOS	hsa-miR-3165
FOS	hsa-miR-3199
FOS	hsa-miR-3609
FOS	hsa-miR-4279
FOS	hsa-miR-4434
FOS	hsa-miR-4470
FOS	hsa-miR-4510
FOS	hsa-miR-4720-3p
FOS	hsa-miR-4736
FOS	hsa-miR-4738-3p
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FOS	hsa-miR-484
FOS	hsa-miR-663a
FOS	hsa-miR-942-5p
FOS	hsa-miR-92b-3p
FOS	hsa-miR-8052
FOS	hsa-miR-7-5p
FOS	hsa-miR-6872-3p
FOS	hsa-miR-6871-3p
FOS	hsa-miR-6825-5p
FOS	hsa-miR-6815-3p

FOS	hsa-miR-6809-3p
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FOS	hsa-miR-6797-5p
FOS	hsa-miR-6780b-5p
FOS	hsa-miR-6762-3p
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FOS	hsa-miR-6133
FOS	hsa-miR-589-5p
FOS	hsa-miR-589-3p
FOS	hsa-miR-5703
FOS	hsa-miR-5702
FOS	hsa-miR-548g-3p
FOS	hsa-miR-5197-5p
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FOS	hsa-miR-4694-3p
FOS	hsa-miR-4651
FOS	hsa-miR-4531
FOS	hsa-miR-449c-5p
FOS	hsa-miR-4438
FOS	hsa-miR-4418
FOS	hsa-miR-4290
FOS	hsa-miR-4282
FOS	hsa-miR-3934-5p
FOS	hsa-miR-375
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FOS	hsa-miR-365a-5p
FOS	hsa-miR-365a-3p
FOS	hsa-miR-34b-5p
FOS	hsa-miR-3128
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FOS	hsa-miR-30a-5p
FOS	hsa-miR-27a-3p
FOS	hsa-miR-26a-5p
FOS	hsa-miR-24-3p
FOS	hsa-miR-211-5p
FOS	hsa-miR-203a-3p
FOS	hsa-miR-199a-5p
FOS	hsa-miR-199a-3p
FOS	hsa-miR-185-5p
FOS	hsa-miR-16-5p

FOS	hsa-miR-128-3p
FOS	hsa-miR-125b-5p
FOS	hsa-miR-107
FOSL1	TP53
FOSL1	hsa-let-7a-5p
FOSL1	hsa-miR-1207-5p
FOSL1	hsa-miR-1288-5p
FOSL1	hsa-miR-142-3p
FOSL1	hsa-miR-155-5p
FOSL1	hsa-miR-21-5p
FOSL1	hsa-miR-22-3p
FOSL1	hsa-miR-30b-5p
FOSL1	hsa-miR-4736
FOSL1	hsa-miR-4738-3p
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FOSL1	hsa-miR-618
FOSL1	hsa-miR-663a
FOSL1	hsa-miR-210-3p
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FOSL1	hsa-miR-100-5p
FOSL2	HIF1A
FOSL2	IL6
FOSL2	PTGS2
FOSL2	SMAD3
FOSL2	STAT3
FOSL2	TGFB1
FOSL2	TP53
FOSL2	hsa-let-7a-5p
FOSL2	hsa-miR-1288-5p
FOSL2	hsa-miR-155-5p
FOSL2	hsa-miR-1908-5p
FOSL2	hsa-miR-21-5p
FOSL2	hsa-miR-320a
FOSL2	hsa-miR-4434
FOSL2	hsa-miR-4470
FOSL2	hsa-miR-663a
FOSL2	hsa-miR-942-5p
FOSL2	hsa-miR-92b-3p
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FOSL2	hsa-miR-7-5p
FOSL2	hsa-miR-6875-3p
FOSL2	hsa-miR-6809-3p
FOSL2	hsa-miR-6797-5p
FOSL2	hsa-miR-6789-3p
FOSL2	hsa-miR-6511a-5p
FOSL2	hsa-miR-6133
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FOSL2	hsa-miR-589-3p
FOSL2	hsa-miR-5703
FOSL2	hsa-miR-5692a
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FOSL2	hsa-miR-5197-5p
FOSL2	hsa-miR-484
FOSL2	hsa-miR-4738-3p
FOSL2	hsa-miR-4728-5p
FOSL2	hsa-miR-4531
FOSL2	hsa-miR-4516
FOSL2	hsa-miR-4510
FOSL2	hsa-miR-449c-5p
FOSL2	hsa-miR-4441
FOSL2	hsa-miR-4282
FOSL2	hsa-miR-365a-5p
FOSL2	hsa-miR-365a-3p
FOSL2	hsa-miR-3658
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FOSL2	hsa-miR-3074-3p
FOSL2	hsa-miR-27a-3p
FOSL2	hsa-miR-24-3p
FOSL2	hsa-miR-22-3p
FOSL2	hsa-miR-2110
FOSL2	hsa-miR-211-5p
FOSL2	hsa-miR-199a-5p
FOSL2	hsa-miR-199a-3p
FOSL2	hsa-miR-150-5p
FOSL2	hsa-miR-132-3p
FOSL2	hsa-miR-128-3p
FOSL2	hsa-miR-1181
FOSL2	hsa-let-7i-5p
FOXA1	IL2

FOXA1	IL6
FOXA1	NFKB1
FOXA1	TGFB1
FOXA1	TP53
FOXA1	HIF1A
FOXA1	STAT3
FOXA1	SMAD3
FOXA1	hsa-let-7a-5p
FOXA1	hsa-miR-1178-3p
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FOXA1	hsa-miR-30b-5p
FOXA1	hsa-miR-30e-5p
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FOXA1	hsa-miR-4470
FOXA1	hsa-miR-4651
FOXA1	hsa-miR-484
FOXA1	hsa-miR-491-5p
FOXA1	hsa-miR-612
FOXA1	hsa-miR-618
FOXA1	hsa-miR-663a
FOXA1	hsa-miR-7-5p
FOXA1	hsa-miR-937-5p
FOXA1	hsa-miR-92b-3p
FOXA1	hsa-miR-92a-3p
FOXA1	hsa-miR-92a-2-5p
FOXA1	hsa-miR-92a-1-5p
FOXA1	hsa-miR-9-5p
FOXA1	hsa-miR-874-3p
FOXA1	hsa-miR-744-5p
FOXA1	hsa-miR-7158-5p
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FOXA1	hsa-miR-6872-3p

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GLI2	hsa-miR-484
GLI2	hsa-miR-3199
GLI2	hsa-miR-2110
GLI2	hsa-miR-203a-3p
GLI3	HIF1A
GLI3	PTGS2
GLI3	STAT3
GLI3	TP53
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GLIS1	hsa-miR-150-5p
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HOXC9	hsa-miR-335-5p
HOXC9	hsa-miR-92b-3p
HOXC9	hsa-miR-8085
HOXC9	hsa-miR-6815-3p
HOXC9	hsa-miR-6731-5p

HOXC9	hsa-miR-618
HOXC9	hsa-miR-5703
HOXC9	hsa-miR-5193
HOXC9	hsa-miR-4738-3p
HOXC9	hsa-miR-4650-5p
HOXC9	hsa-miR-449c-5p
HOXC9	hsa-miR-4487
HOXC9	hsa-miR-4282
HOXC9	hsa-miR-214-3p
HOXC9	hsa-miR-199b-5p
HOXC9	hsa-miR-199a-5p
HOXC9	hsa-miR-199a-3p
HOXC9	hsa-miR-16-5p
HOXC9	hsa-miR-15b-5p
HOXC9	hsa-miR-137
HOXC9	hsa-miR-125b-5p
HOXC9	hsa-miR-1207-5p
HOXC9	hsa-let-7a-5p
hsa-let-7a-5p	MYC
hsa-let-7a-5p	PRDM1
hsa-let-7a-5p	FOXA1
hsa-let-7a-5p	VDR
hsa-let-7a-5p	E2F1
hsa-let-7a-5p	E2F2
hsa-let-7a-5p	SP1
hsa-let-7a-5p	HSF2
hsa-let-7a-5p	HOXA6
hsa-let-7a-5p	BACH1
hsa-let-7a-5p	MXD1
hsa-let-7a-5p	AHR
hsa-let-7a-5p	ARID3A
hsa-let-7a-5p	HAND1
hsa-let-7a-5p	E2F6
hsa-let-7a-5p	STAT2
hsa-let-7a-5p	IL6
hsa-let-7a-5p	NFKB1
hsa-let-7a-5p	PTGS2
hsa-let-7b-5p	E2F6
hsa-let-7b-5p	SOX9
hsa-let-7b-5p	ARID3A

hsa-let-7b-5p	PRDM1
hsa-let-7b-5p	SMARCC1
hsa-let-7b-5p	GATA6
hsa-let-7b-5p	E2F3
hsa-let-7b-5p	HIF1A
hsa-let-7b-5p	HES1
hsa-let-7b-5p	AR
hsa-let-7b-5p	NCOR1
hsa-let-7b-5p	SMARCC2
hsa-let-7b-5p	HSF2
hsa-let-7b-5p	HAND1
hsa-let-7b-5p	NFATC1
hsa-let-7b-5p	E2F7
hsa-let-7b-5p	MYC
hsa-let-7b-5p	ADNP
hsa-let-7b-5p	MEF2C
hsa-let-7b-5p	SP1
hsa-let-7b-5p	ELK4
hsa-let-7b-5p	CTCF
hsa-let-7b-5p	CUX1
hsa-let-7b-5p	BACH1
hsa-let-7b-5p	MXD1
hsa-let-7b-5p	AHR
hsa-let-7b-5p	STAT2
hsa-let-7b-5p	PTGS2
hsa-let-7b-5p	TLR4
hsa-let-7c-5p	MYC
hsa-let-7c-5p	FOXO3
hsa-let-7c-5p	MEF2C
hsa-let-7c-5p	SMARCC1
hsa-let-7c-5p	BACH1
hsa-let-7c-5p	MXD1
hsa-let-7c-5p	CEBPB
hsa-let-7c-5p	PBX2
hsa-let-7c-5p	XBP1
hsa-let-7c-5p	USF2
hsa-let-7c-5p	STAT2
hsa-let-7c-5p	SREBF1
hsa-let-7c-5p	SPDEF
hsa-let-7c-5p	SETDB1

hsa-let-7c-5p	PBX3
hsa-let-7c-5p	ID1
hsa-let-7c-5p	HSF1
hsa-let-7c-5p	ARID3A
hsa-let-7c-5p	AHR
hsa-let-7c-5p	HAND1
hsa-let-7c-5p	E2F6
hsa-let-7c-5p	IL10
hsa-let-7c-5p	IL6
hsa-let-7c-5p	PTGS2
hsa-let-7e-5p	SREBF1
hsa-let-7e-5p	AEBP2
hsa-let-7e-5p	STAT3
hsa-let-7e-5p	TCF4
hsa-let-7e-5p	BACH1
hsa-let-7e-5p	MXD1
hsa-let-7e-5p	MYC
hsa-let-7e-5p	AHR
hsa-let-7e-5p	ARID3A
hsa-let-7e-5p	HAND1
hsa-let-7e-5p	E2F6
hsa-let-7e-5p	STAT2
hsa-let-7i-5p	KDM5B
hsa-let-7i-5p	BACH1
hsa-let-7i-5p	MXD1
hsa-let-7i-5p	ASCL1
hsa-let-7i-5p	MYC
hsa-let-7i-5p	AHR
hsa-let-7i-5p	ARID3A
hsa-let-7i-5p	HAND1
hsa-let-7i-5p	E2F6
hsa-let-7i-5p	STAT2
hsa-let-7i-5p	TLR4
hsa-miR-1-3p	CEBPA
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hsa-miR-1-3p	GATA4
hsa-miR-1-3p	FOXP1
hsa-miR-1-3p	ZNF384
hsa-miR-1-3p	GATA6
hsa-miR-1-3p	SNAI2

hsa-miR-1-3p	SOX9
hsa-miR-1-3p	SRF
hsa-miR-1-3p	UBTF
hsa-miR-1-3p	PPARG
hsa-miR-1-3p	ETV7
hsa-miR-1-3p	NR5A2
hsa-miR-1-3p	LHX4
hsa-miR-1-3p	SMARCC1
hsa-miR-1-3p	GLI2
hsa-miR-1-3p	GATA3
hsa-miR-1-3p	SP1
hsa-miR-1-3p	ETS1
hsa-miR-1-3p	NFAT5
hsa-miR-1-3p	TFAM
hsa-miR-1-3p	IL6
hsa-miR-1-3p	TLR4
hsa-miR-100-5p	EGR2
hsa-miR-100-5p	ID1
hsa-miR-100-5p	FOXP1
hsa-miR-100-5p	PATZ1
hsa-miR-100-5p	NCOR2
hsa-miR-100-5p	HOXA1
hsa-miR-100-5p	ESR1
hsa-miR-100-5p	PTGS2
hsa-miR-101-3p	FOS
hsa-miR-101-3p	SOX9
hsa-miR-101-3p	GMEB2
hsa-miR-101-3p	NR2F2
hsa-miR-101-3p	JUN
hsa-miR-101-3p	E2F3
hsa-miR-101-3p	TFAP4
hsa-miR-101-3p	ZFX
hsa-miR-101-3p	AEBP2
hsa-miR-101-3p	ZEB1
hsa-miR-101-3p	MITF
hsa-miR-101-3p	ZBTB7A
hsa-miR-101-3p	PTGS2
hsa-miR-106a-3p	GATA6
hsa-miR-106a-3p	HIF1A
hsa-miR-106a-3p	SMAD2

hsa-miR-106a-5p	E2F1
hsa-miR-106a-5p	RUNX1
hsa-miR-106a-5p	STAT3
hsa-miR-106a-5p	RUNX3
hsa-miR-106a-5p	SMAD4
hsa-miR-106a-5p	KLF3
hsa-miR-106a-5p	SOX4
hsa-miR-106a-5p	HBP1
hsa-miR-106a-5p	SP4
hsa-miR-106a-5p	NFAT5
hsa-miR-106a-5p	CREB1
hsa-miR-106a-5p	REST
hsa-miR-106a-5p	TP53
hsa-miR-106a-5p	TFAM
hsa-miR-106a-5p	ZBTB4
hsa-miR-106a-5p	GATA6
hsa-miR-106a-5p	ELK4
hsa-miR-106a-5p	NR2C2
hsa-miR-106a-5p	TCF7L2
hsa-miR-106a-5p	ZBTB7A
hsa-miR-106a-5p	SPIB
hsa-miR-106a-5p	ESR2
hsa-miR-106a-5p	IL10
hsa-miR-106b-3p	NFE2L2
hsa-miR-106b-3p	HIF1A
hsa-miR-106b-3p	ELF2
hsa-miR-106b-5p	E2F1
hsa-miR-106b-5p	E2F3
hsa-miR-106b-5p	EOMES
hsa-miR-106b-5p	MXI1
hsa-miR-106b-5p	ELK3
hsa-miR-106b-5p	CLOCK
hsa-miR-106b-5p	STAT3
hsa-miR-106b-5p	ZBTB4
hsa-miR-106b-5p	HIF1A
hsa-miR-106b-5p	SMAD4
hsa-miR-106b-5p	KLF3
hsa-miR-106b-5p	SOX4
hsa-miR-106b-5p	HBP1
hsa-miR-106b-5p	SP4

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hsa-miR-106b-5p	CREB1
hsa-miR-106b-5p	REST
hsa-miR-106b-5p	AFF1
hsa-miR-106b-5p	RUNX3
hsa-miR-106b-5p	TP53
hsa-miR-106b-5p	MYC
hsa-miR-106b-5p	ZBTB7A
hsa-miR-106b-5p	TCF4
hsa-miR-106b-5p	NR2C2
hsa-miR-106b-5p	E2F2
hsa-miR-106b-5p	TFAM
hsa-miR-106b-5p	GATA6
hsa-miR-106b-5p	ELK4
hsa-miR-106b-5p	TCF7L2
hsa-miR-106b-5p	SPIB
hsa-miR-106b-5p	ESR2
hsa-miR-107	MYB
hsa-miR-107	HIF1A
hsa-miR-107	ARNT
hsa-miR-107	KLF4
hsa-miR-107	SALL4
hsa-miR-107	ELK4
hsa-miR-107	IL6
hsa-miR-10b-5p	KLF4
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hsa-miR-10b-5p	TFAP2C
hsa-miR-10b-5p	TP53
hsa-miR-10b-5p	PAX6
hsa-miR-10b-5p	GATA3
hsa-miR-10b-5p	SREBF1
hsa-miR-10b-5p	RARG
hsa-miR-10b-5p	LYL1
hsa-miR-10b-5p	DLX1
hsa-miR-10b-5p	ASCL2
hsa-miR-10b-5p	NR2C2
hsa-miR-10b-5p	POU2F2
hsa-miR-1178-3p	STAT3
hsa-miR-1178-3p	TP63

hsa-miR-1181	STAT3
hsa-miR-1181	SOX2
hsa-miR-1181	NKX2-2
hsa-miR-1181	FOXP1
hsa-miR-1207-5p	TP53
hsa-miR-1207-5p	TEAD1
hsa-miR-1207-5p	SP2
hsa-miR-1207-5p	MBD4
hsa-miR-1207-5p	HAND1
hsa-miR-122-5p	SRF
hsa-miR-122-5p	FOXP1
hsa-miR-122-5p	SOX2
hsa-miR-122-5p	ZBTB4
hsa-miR-122-5p	MAZ
hsa-miR-122-5p	CREB1
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hsa-miR-122-5p	UBTF
hsa-miR-122-5p	PATZ1
hsa-miR-122-5p	SPIB
hsa-miR-122-5p	GMEB1
hsa-miR-122-5p	MAFF
hsa-miR-122-5p	TGFB1
hsa-miR-1233-5p	E2F3
hsa-miR-1233-5p	TP53
hsa-miR-1233-5p	E2F6
hsa-miR-1233-5p	AHR
hsa-miR-1233-5p	ZMIZ1
hsa-miR-1234-3p	STAT3
hsa-miR-1234-3p	TCF21
hsa-miR-1234-3p	FOS
hsa-miR-1234-3p	SPIB
hsa-miR-1234-3p	IRF1
hsa-miR-1234-3p	ESR2
hsa-miR-124-3p	SOX9
hsa-miR-124-3p	CEBPA
hsa-miR-124-3p	RARG
hsa-miR-124-3p	NFIC
hsa-miR-124-3p	RELA
hsa-miR-124-3p	AHR
hsa-miR-124-3p	SP1

hsa-miR-124-3p	TEAD1
hsa-miR-124-3p	SNAI2
hsa-miR-124-3p	NFATC1
hsa-miR-124-3p	ELK3
hsa-miR-124-3p	NR3C1
hsa-miR-124-3p	E2F6
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hsa-miR-124-3p	E2F4
hsa-miR-124-3p	BCL6
hsa-miR-124-3p	ID1
hsa-miR-124-3p	EGR2
hsa-miR-124-3p	TFAP4
hsa-miR-124-3p	NRF1
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hsa-miR-124-3p	TP63
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hsa-miR-124-3p	ERF
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hsa-miR-124-3p	KLF9
hsa-miR-124-3p	PBX1
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hsa-miR-124-3p	ELF3
hsa-miR-124-3p	TFEB
hsa-miR-124-3p	MAZ
hsa-miR-124-3p	HOXC9
hsa-miR-124-3p	STAT5A
hsa-miR-124-3p	RFX2
hsa-miR-124-3p	ID2
hsa-miR-124-3p	EGR1
hsa-miR-124-3p	TCF3
hsa-miR-124-3p	STAT3
hsa-miR-124-3p	CLOCK
hsa-miR-124-3p	REST
hsa-miR-124-3p	IL6
hsa-miR-124-3p	PTGS2
hsa-miR-1249-5p	MAZ

hsa-miR-1249-5p	TP53
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hsa-miR-1249-5p	NFAT5
hsa-miR-1249-5p	GATA6
hsa-miR-1249-5p	NCOR2
hsa-miR-1249-5p	NRF1
hsa-miR-125a-5p	TP53
hsa-miR-125a-5p	SMAD4
hsa-miR-125a-5p	E2F7
hsa-miR-125a-5p	SP1
hsa-miR-125a-5p	STAT2
hsa-miR-125a-5p	IRF4
hsa-miR-125a-5p	REST
hsa-miR-125a-5p	PRDM1
hsa-miR-125a-5p	ESRRA
hsa-miR-125a-5p	MYC
hsa-miR-125b-5p	TP53
hsa-miR-125b-5p	VDR
hsa-miR-125b-5p	CEBPG
hsa-miR-125b-5p	PRDM1
hsa-miR-125b-5p	IRF4
hsa-miR-125b-5p	STAT3
hsa-miR-125b-5p	E2F3
hsa-miR-125b-5p	ETS1
hsa-miR-125b-5p	SMAD4
hsa-miR-125b-5p	E2F2
hsa-miR-125b-5p	HOXA13
hsa-miR-125b-5p	E2F7
hsa-miR-125b-5p	CEBPA
hsa-miR-125b-5p	BACH1
hsa-miR-125b-5p	ARID3A
hsa-miR-125b-5p	NCOR2
hsa-miR-125b-5p	MXD1
hsa-miR-125b-5p	REST
hsa-miR-1264	ID2
hsa-miR-1264	TP53
hsa-miR-1273f	TP53
hsa-miR-1273f	THAP1
hsa-miR-128-3p	E2F3
hsa-miR-128-3p	GATA6

hsa-miR-128-3p	HOXC6
hsa-miR-128-3p	SOX2
hsa-miR-128-3p	KLF4
hsa-miR-128-3p	ZNF552
hsa-miR-128-3p	POU5F1
hsa-miR-128-3p	KLF5
hsa-miR-128-3p	E2F7
hsa-miR-128-3p	NANOG
hsa-miR-128-3p	SNAI2
hsa-miR-128-3p	SREBF1
hsa-miR-128-3p	RXRA
hsa-miR-128-3p	ZFHX3
hsa-miR-128-3p	SP1
hsa-miR-128-3p	HOXA10
hsa-miR-128-3p	NR2F2
hsa-miR-128-3p	RUNX1
hsa-miR-128-3p	PTGS2
hsa-miR-1285-3p	TP53
hsa-miR-1285-3p	RUNX1
hsa-miR-1288-5p	STAT3
hsa-miR-1288-5p	MBD3
hsa-miR-1296-3p	TP53
hsa-miR-1296-3p	UBTF
hsa-miR-130a-3p	HOXA5
hsa-miR-130a-3p	MAFB
hsa-miR-130a-3p	HOXA10
hsa-miR-130a-3p	KLF4
hsa-miR-130a-3p	PPARG
hsa-miR-130a-3p	ESR1
hsa-miR-130a-3p	RUNX3
hsa-miR-130a-3p	SMAD4
hsa-miR-130a-3p	SOX4
hsa-miR-130a-3p	HBP1
hsa-miR-130a-3p	YY1
hsa-miR-130a-3p	ZBTB4
hsa-miR-130a-3p	TCF7L2
hsa-miR-130a-3p	IRF1
hsa-miR-130a-3p	TGFB1
hsa-miR-130a-3p	TNF
hsa-miR-130b-3p	RUNX3

hsa-miR-130b-3p	PPARG
hsa-miR-130b-3p	ZEB1
hsa-miR-130b-3p	NR3C1
hsa-miR-130b-3p	AHR
hsa-miR-130b-3p	EGR2
hsa-miR-130b-3p	SMAD4
hsa-miR-130b-3p	HOXA5
hsa-miR-130b-3p	ZBTB4
hsa-miR-130b-3p	KLF9
hsa-miR-130b-3p	E2F1
hsa-miR-130b-3p	ZNF217
hsa-miR-130b-3p	TCF4
hsa-miR-130b-3p	STAT3
hsa-miR-130b-3p	SOX4
hsa-miR-130b-3p	HBP1
hsa-miR-130b-3p	YY1
hsa-miR-130b-3p	ESR1
hsa-miR-130b-3p	TCF7L2
hsa-miR-130b-3p	IRF1
hsa-miR-132-3p	MEF2A
hsa-miR-132-3p	GATA3
hsa-miR-132-3p	PTGS2
hsa-miR-1322	HIF1A
hsa-miR-1322	CTCF
hsa-miR-137	E2F6
hsa-miR-137	MITF
hsa-miR-137	ESRRA
hsa-miR-137	KLF4
hsa-miR-137	NFYB
hsa-miR-137	NR3C1
hsa-miR-137	PTGS2
hsa-miR-138-2-3p	ZFH3
hsa-miR-138-2-3p	STAT3
hsa-miR-138-2-3p	REST
hsa-miR-138-5p	CEBPA
hsa-miR-138-5p	PPARG
hsa-miR-138-5p	FOSL1
hsa-miR-138-5p	HIF1A
hsa-miR-138-5p	MXD1
hsa-miR-138-5p	SOX4

hsa-miR-138-5p	SNAI2
hsa-miR-138-5p	NR3C1
hsa-miR-139-5p	FOS
hsa-miR-139-5p	JUN
hsa-miR-139-5p	NR5A2
hsa-miR-139-5p	TCF12
hsa-miR-139-5p	NFKB1
hsa-miR-142-3p	ARNTL
hsa-miR-142-3p	HOXA13
hsa-miR-142-3p	CLOCK
hsa-miR-142-3p	EGR2
hsa-miR-142-3p	BACH1
hsa-miR-142-3p	ATF5
hsa-miR-142-3p	AFF1
hsa-miR-142-3p	HOXA10
hsa-miR-142-3p	HOXA7
hsa-miR-142-3p	ZNF217
hsa-miR-142-3p	ZFX
hsa-miR-142-3p	WIZ
hsa-miR-142-3p	BCLAF1
hsa-miR-142-3p	WHSC1
hsa-miR-142-3p	ESR1
hsa-miR-142-3p	IRF1
hsa-miR-142-3p	IL6
hsa-miR-143-3p	KLF5
hsa-miR-143-3p	SMAD3
hsa-miR-143-3p	NR2C2
hsa-miR-143-3p	HNF4A
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hsa-miR-143-3p	NFYB
hsa-miR-143-3p	THAP1
hsa-miR-143-3p	PTGS2
hsa-miR-143-3p	TNF
hsa-miR-144-3p	NFE2L2
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hsa-miR-144-3p	NR2F2
hsa-miR-144-3p	HOXA10
hsa-miR-144-3p	TFAP4
hsa-miR-144-3p	NR3C1
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hsa-miR-144-3p	TGFB1
hsa-miR-145-5p	KLF5
hsa-miR-145-5p	SOX2
hsa-miR-145-5p	KLF4
hsa-miR-145-5p	STAT1
hsa-miR-145-5p	MYC
hsa-miR-145-5p	POU5F1
hsa-miR-145-5p	ESR1
hsa-miR-145-5p	ERG
hsa-miR-145-5p	NANOG
hsa-miR-145-5p	ETS1
hsa-miR-145-5p	SOX9
hsa-miR-145-5p	SMAD3
hsa-miR-145-5p	SMAD4
hsa-miR-145-5p	SP1
hsa-miR-145-5p	E2F3
hsa-miR-145-5p	NFATC1
hsa-miR-1468-3p	HBP1
hsa-miR-1468-3p	ETS2
hsa-miR-1468-3p	NFAT5
hsa-miR-1468-3p	FOXP1
hsa-miR-1468-3p	ZFHX3
hsa-miR-1468-3p	YY1
hsa-miR-1468-3p	SOX4
hsa-miR-1468-3p	SMAD4
hsa-miR-1468-3p	CREBL2
hsa-miR-1468-3p	E2F8
hsa-miR-1468-3p	MYBL1
hsa-miR-1468-3p	GATA6
hsa-miR-1468-3p	NFYA
hsa-miR-1468-3p	TLR4
hsa-miR-146a-5p	SMAD4
hsa-miR-146a-5p	STAT1
hsa-miR-146a-5p	SMAD2
hsa-miR-146a-5p	MBD4
hsa-miR-146a-5p	NFKB1
hsa-miR-146a-5p	PTGS2
hsa-miR-146a-5p	TLR4
hsa-miR-146b-5p	MBD4
hsa-miR-146b-5p	NFKB1

hsa-miR-146b-5p	TLR4
hsa-miR-149-3p	E2F1
hsa-miR-149-3p	MYBL2
hsa-miR-149-3p	JUN
hsa-miR-149-3p	MAZ
hsa-miR-149-3p	ZFHX3
hsa-miR-149-3p	TP53
hsa-miR-149-3p	NFAT5
hsa-miR-149-3p	GATA6
hsa-miR-149-3p	NCOR2
hsa-miR-149-3p	SREBF1
hsa-miR-149-3p	CASZ1
hsa-miR-149-3p	ASCL2
hsa-miR-149-3p	HOXB13
hsa-miR-149-3p	CREBL2
hsa-miR-149-3p	MNT
hsa-miR-149-3p	NFIC
hsa-miR-149-3p	NRF1
hsa-miR-149-3p	ZNF250
hsa-miR-149-3p	WIZ
hsa-miR-149-3p	FOSL2
hsa-miR-149-3p	AHR
hsa-miR-149-5p	SP1
hsa-miR-149-5p	USF1
hsa-miR-149-5p	PBX1
hsa-miR-149-5p	HES4
hsa-miR-149-5p	ETS2
hsa-miR-149-5p	E2F3
hsa-miR-149-5p	NR2F1
hsa-miR-149-5p	HOXA10
hsa-miR-149-5p	JUN
hsa-miR-149-5p	FOXM1
hsa-miR-149-5p	IL6
hsa-miR-150-5p	MYB
hsa-miR-150-5p	EGR2
hsa-miR-150-5p	ZEB1
hsa-miR-150-5p	TP53
hsa-miR-150-5p	ZBTB7A
hsa-miR-150-5p	SP1
hsa-miR-150-5p	SPIB

hsa-miR-150-5p	NFYA
hsa-miR-150-5p	ELK1
hsa-miR-150-5p	NKX2-1
hsa-miR-150-5p	NR2F2
hsa-miR-150-5p	THAP1
hsa-miR-150-5p	ESR2
hsa-miR-150-5p	TEAD1
hsa-miR-151a-3p	HIF1A
hsa-miR-153-5p	FOXG1
hsa-miR-153-5p	HIF1A
hsa-miR-153-5p	MTA3
hsa-miR-153-5p	ZBTB7A
hsa-miR-153-5p	PAX5
hsa-miR-153-5p	RFX1
hsa-miR-153-5p	VDR
hsa-miR-153-5p	NFIC
hsa-miR-155-5p	BACH1
hsa-miR-155-5p	SMAD1
hsa-miR-155-5p	RCOR1
hsa-miR-155-5p	CEBPB
hsa-miR-155-5p	CUX1
hsa-miR-155-5p	SPI1
hsa-miR-155-5p	FOXO3
hsa-miR-155-5p	MAFB
hsa-miR-155-5p	ETS1
hsa-miR-155-5p	VEZF1
hsa-miR-155-5p	SMAD2
hsa-miR-155-5p	MYB
hsa-miR-155-5p	JUN
hsa-miR-155-5p	BCL6
hsa-miR-155-5p	MITF
hsa-miR-155-5p	MEF2A
hsa-miR-155-5p	ESRRA
hsa-miR-155-5p	JUNB
hsa-miR-155-5p	NR3C1
hsa-miR-155-5p	SMAD4
hsa-miR-155-5p	ZNF384
hsa-miR-155-5p	SMAD3
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hsa-miR-155-5p	ZNF83

hsa-miR-155-5p	TCF12
hsa-miR-155-5p	STAT3
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hsa-miR-155-5p	E2F2
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hsa-miR-155-5p	MYC
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hsa-miR-15a-5p	BHLHE40
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hsa-miR-15a-5p	RCOR1
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hsa-miR-15a-5p	IRF4
hsa-miR-15a-5p	ELK4
hsa-miR-15a-5p	GABPA
hsa-miR-15a-5p	TFAP2A
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hsa-miR-15a-5p	E2F7
hsa-miR-15a-5p	HOXA10
hsa-miR-15a-5p	MBD4
hsa-miR-15a-5p	TCF3
hsa-miR-15a-5p	NR2C2
hsa-miR-15a-5p	NCOR2
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hsa-miR-15b-5p	ZNF217
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hsa-miR-15b-5p	MAFK
hsa-miR-15b-5p	RCOR1
hsa-miR-15b-5p	SMAD3
hsa-miR-15b-5p	IRF4
hsa-miR-15b-5p	ELK4
hsa-miR-15b-5p	GABPA
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hsa-miR-15b-5p	E2F7
hsa-miR-15b-5p	HOXA10
hsa-miR-15b-5p	MBD4
hsa-miR-15b-5p	CREBL2
hsa-miR-15b-5p	TCF3
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hsa-miR-15b-5p	NCOR2
hsa-miR-16-5p	CREBL2
hsa-miR-16-5p	JUN
hsa-miR-16-5p	MYB
hsa-miR-16-5p	ZNF384
hsa-miR-16-5p	TP53
hsa-miR-16-5p	NCOR2
hsa-miR-16-5p	SMAD1
hsa-miR-16-5p	SP1
hsa-miR-16-5p	TFAP4
hsa-miR-16-5p	TFAP2A
hsa-miR-16-5p	ZFH3
hsa-miR-16-5p	E2F7
hsa-miR-16-5p	E2F3
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hsa-miR-16-5p	RCOR1
hsa-miR-16-5p	SMAD3
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hsa-miR-16-5p	ELK4
hsa-miR-16-5p	GABPA
hsa-miR-16-5p	MYC

hsa-miR-16-5p	NFIC
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hsa-miR-16-5p	MBD4
hsa-miR-16-5p	TCF3
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hsa-miR-17-5p	HIF1A
hsa-miR-17-5p	MYC
hsa-miR-17-5p	SMAD4
hsa-miR-17-5p	E2F3
hsa-miR-17-5p	TCF3
hsa-miR-17-5p	HBP1
hsa-miR-17-5p	SOX4
hsa-miR-17-5p	ATF3
hsa-miR-17-5p	NFAT5
hsa-miR-17-5p	SMAD3
hsa-miR-17-5p	MNT
hsa-miR-17-5p	ZBTB4
hsa-miR-17-5p	STAT3
hsa-miR-17-5p	KLF3
hsa-miR-17-5p	SP4
hsa-miR-17-5p	WHSC1
hsa-miR-17-5p	CREB1
hsa-miR-17-5p	REST
hsa-miR-17-5p	AFF1
hsa-miR-17-5p	ETV1
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hsa-miR-17-5p	GATA6
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hsa-miR-17-5p	ESR2
hsa-miR-17-5p	TCF4

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hsa-miR-17-5p	CLOCK
hsa-miR-17-5p	PTGS2
hsa-miR-17-5p	TGFB1
hsa-miR-181a-5p	GATA6
hsa-miR-181a-5p	CDX2
hsa-miR-181a-5p	PROX1
hsa-miR-181a-5p	FOS
hsa-miR-181a-5p	TCF21
hsa-miR-181a-5p	OTX2
hsa-miR-181a-5p	SNAI2
hsa-miR-181a-5p	NFYB
hsa-miR-181a-5p	MAZ
hsa-miR-181a-5p	TEAD4
hsa-miR-181a-5p	PBX3
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hsa-miR-181a-5p	SMAD2
hsa-miR-181a-5p	RCOR1
hsa-miR-181a-5p	ELK4
hsa-miR-181a-5p	WHSC1
hsa-miR-181a-5p	AHR
hsa-miR-181a-5p	STAT3
hsa-miR-181a-5p	ZNF83
hsa-miR-181a-5p	ETS1
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hsa-miR-181a-5p	KDM5A
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hsa-miR-181c-5p	GATA6
hsa-miR-181c-5p	CDX2
hsa-miR-181c-5p	RCOR1
hsa-miR-181c-5p	ELK4
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hsa-miR-181c-5p	ZNF83
hsa-miR-181c-5p	ETS1
hsa-miR-181c-5p	ZBTB4
hsa-miR-181c-5p	KDM5A
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hsa-miR-185-5p	AR
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hsa-miR-185-5p	TFDP1
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hsa-miR-185-5p	GATA6
hsa-miR-185-5p	HOXC6
hsa-miR-187-3p	TNF
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hsa-miR-18a-3p	NFIC
hsa-miR-18a-3p	UBTF
hsa-miR-18a-3p	SMAD3
hsa-miR-18a-5p	ESR1
hsa-miR-18a-5p	NR3C1
hsa-miR-18a-5p	HIF1A
hsa-miR-18a-5p	SMAD4
hsa-miR-18a-5p	HSF2
hsa-miR-18a-5p	SMAD3
hsa-miR-18a-5p	GABPA
hsa-miR-18a-5p	CREBL2
hsa-miR-18a-5p	ETS2
hsa-miR-18a-5p	SMAD2
hsa-miR-18a-5p	TP53
hsa-miR-18a-5p	IRF2
hsa-miR-18b-5p	ESR1
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hsa-miR-18b-5p	HIF1A
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hsa-miR-18b-5p	IRF2
hsa-miR-1908-5p	BARHL1
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hsa-miR-1909-3p	TP53
hsa-miR-1909-3p	SP2
hsa-miR-1909-3p	MBD4
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hsa-miR-193b-3p	ESR1
hsa-miR-193b-3p	ETS1
hsa-miR-193b-3p	DLX1
hsa-miR-193b-3p	LEF1
hsa-miR-193b-3p	WHSC1
hsa-miR-193b-3p	E2F6
hsa-miR-193b-3p	MAX
hsa-miR-193b-3p	MYBL1
hsa-miR-193b-3p	E2F1
hsa-miR-193b-3p	ELK3
hsa-miR-193b-3p	E2F2
hsa-miR-193b-3p	MYB
hsa-miR-193b-3p	TEAD2
hsa-miR-193b-3p	SMAD3
hsa-miR-193b-3p	MAZ
hsa-miR-193b-3p	TCF7L2
hsa-miR-193b-3p	YY1
hsa-miR-193b-3p	ZNF384
hsa-miR-193b-3p	IRF1
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hsa-miR-195-5p	TFAP2A
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hsa-miR-195-5p	E2F7
hsa-miR-195-5p	HOXA10
hsa-miR-195-5p	MBD4
hsa-miR-195-5p	CREBL2
hsa-miR-195-5p	TCF3
hsa-miR-195-5p	NR2C2
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hsa-miR-1972	TP53
hsa-miR-199a-3p	ETS2

hsa-miR-199a-3p	JUNB
hsa-miR-199a-3p	ID2
hsa-miR-199a-3p	E2F2
hsa-miR-199a-3p	ZNF384
hsa-miR-199a-3p	PTGS2
hsa-miR-199a-5p	JUNB
hsa-miR-199a-5p	ETS2
hsa-miR-199a-5p	HIF1A
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hsa-miR-199a-5p	SMAD4
hsa-miR-199a-5p	MAFB
hsa-miR-199a-5p	E2F3
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hsa-miR-199a-5p	PTGS2
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hsa-miR-19a-3p	ESR1
hsa-miR-19a-3p	SMAD4
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hsa-miR-19a-3p	SOX4
hsa-miR-19a-3p	HBP1
hsa-miR-19a-3p	RCOR1
hsa-miR-19a-3p	IKZF1
hsa-miR-19a-3p	AFF1
hsa-miR-19a-3p	MYC
hsa-miR-19a-3p	YY1
hsa-miR-19a-3p	CREBL2
hsa-miR-19a-3p	CLOCK
hsa-miR-19a-3p	E2F8
hsa-miR-19a-3p	CASZ1
hsa-miR-19a-3p	MBD3
hsa-miR-19a-3p	ZNF217
hsa-miR-19a-3p	TP53
hsa-miR-19a-3p	MEF2A
hsa-miR-19a-3p	MBD4

hsa-miR-19a-3p	FOXP1
hsa-miR-19a-3p	TNF
hsa-miR-19b-3p	ESR1
hsa-miR-19b-3p	NR3C1
hsa-miR-19b-3p	SMAD4
hsa-miR-19b-3p	GMEB2
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hsa-miR-19b-3p	HOXA5
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hsa-miR-19b-3p	CREB1
hsa-miR-19b-3p	TP53
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hsa-miR-19b-3p	CLOCK
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hsa-miR-19b-3p	MEF2A
hsa-miR-19b-3p	MBD4
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hsa-miR-200a-3p	GATA6
hsa-miR-200a-3p	SRF
hsa-miR-200a-3p	SMAD2
hsa-miR-200a-3p	SMAD3
hsa-miR-200a-3p	MYB
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hsa-miR-200a-3p	TP53
hsa-miR-203a-3p	TP63
hsa-miR-203a-3p	SMAD4

hsa-miR-203a-3p	E2F1
hsa-miR-203a-3p	E2F3
hsa-miR-203a-3p	CREB1
hsa-miR-203a-3p	SNAI2
hsa-miR-203a-3p	JUN
hsa-miR-203a-3p	NFYA
hsa-miR-203a-3p	TCF4
hsa-miR-203a-3p	ZEB1
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hsa-miR-203a-3p	HOXA1
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hsa-miR-203a-3p	GATA6
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hsa-miR-203a-3p	SMAD2
hsa-miR-203a-3p	IL6
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hsa-miR-20a-5p	E2F1
hsa-miR-20a-5p	RUNX1
hsa-miR-20a-5p	MYC
hsa-miR-20a-5p	SMAD4
hsa-miR-20a-5p	E2F3
hsa-miR-20a-5p	IRF2
hsa-miR-20a-5p	PPARG
hsa-miR-20a-5p	NCOR2
hsa-miR-20a-5p	VEZF1
hsa-miR-20a-5p	STAT3
hsa-miR-20a-5p	GATA6
hsa-miR-20a-5p	BACH1
hsa-miR-20a-5p	EGR2
hsa-miR-20a-5p	KLF3
hsa-miR-20a-5p	SOX4
hsa-miR-20a-5p	HBP1
hsa-miR-20a-5p	SP4
hsa-miR-20a-5p	NFAT5
hsa-miR-20a-5p	WHSC1
hsa-miR-20a-5p	CREB1
hsa-miR-20a-5p	REST

hsa-miR-20a-5p	AFF1
hsa-miR-20a-5p	ETV1
hsa-miR-20a-5p	TP53
hsa-miR-20a-5p	ZBTB7A
hsa-miR-20a-5p	ZBTB4
hsa-miR-20a-5p	TCF4
hsa-miR-20a-5p	NR2C2
hsa-miR-20a-5p	MXI1
hsa-miR-20a-5p	E2F2
hsa-miR-20a-5p	CLOCK
hsa-miR-20a-5p	TFAM
hsa-miR-20a-5p	ELK4
hsa-miR-20a-5p	TCF7L2
hsa-miR-20a-5p	RUNX3
hsa-miR-20a-5p	SPIB
hsa-miR-20a-5p	ESR2
hsa-miR-20b-5p	STAT3
hsa-miR-20b-5p	HIF1A
hsa-miR-20b-5p	PPARG
hsa-miR-20b-5p	ESR1
hsa-miR-20b-5p	SMAD4
hsa-miR-20b-5p	KLF3
hsa-miR-20b-5p	SOX4
hsa-miR-20b-5p	HBP1
hsa-miR-20b-5p	SP4
hsa-miR-20b-5p	NFAT5
hsa-miR-20b-5p	WHSC1
hsa-miR-20b-5p	CREB1
hsa-miR-20b-5p	REST
hsa-miR-20b-5p	AFF1
hsa-miR-20b-5p	E2F3
hsa-miR-20b-5p	TFAM
hsa-miR-20b-5p	ZBTB4
hsa-miR-20b-5p	GATA6
hsa-miR-20b-5p	ELK4
hsa-miR-20b-5p	NR2C2
hsa-miR-20b-5p	TCF7L2
hsa-miR-20b-5p	RUNX3
hsa-miR-20b-5p	ZBTB7A
hsa-miR-20b-5p	SPIB

hsa-miR-20b-5p	ESR2
hsa-miR-20b-5p	TCF4
hsa-miR-20b-5p	MXI1
hsa-miR-20b-5p	E2F2
hsa-miR-20b-5p	E2F1
hsa-miR-20b-5p	CLOCK
hsa-miR-21-5p	REST
hsa-miR-21-5p	E2F2
hsa-miR-21-5p	E2F1
hsa-miR-21-5p	MYC
hsa-miR-21-5p	TP63
hsa-miR-21-5p	MEF2C
hsa-miR-21-5p	SP1
hsa-miR-21-5p	TCF21
hsa-miR-21-5p	CLOCK
hsa-miR-21-5p	SOX2
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hsa-miR-21-5p	NR2C2
hsa-miR-21-5p	ADNP
hsa-miR-21-5p	ZNF217
hsa-miR-21-5p	NFAT5
hsa-miR-21-5p	KLF5
hsa-miR-21-5p	PBX1
hsa-miR-21-5p	KLF9
hsa-miR-21-5p	ATF2
hsa-miR-21-5p	STAT3
hsa-miR-21-5p	BCL6
hsa-miR-21-5p	FOXO3
hsa-miR-21-5p	HIF1A
hsa-miR-21-5p	E2F3
hsa-miR-21-5p	NFKB1
hsa-miR-21-5p	TGFB1
hsa-miR-21-5p	TLR4
hsa-miR-210-3p	HOXA1
hsa-miR-210-3p	ELK3
hsa-miR-210-3p	E2F3
hsa-miR-210-3p	MNT
hsa-miR-210-3p	HIF1A
hsa-miR-210-3p	NFIC

hsa-miR-210-3p	MITF
hsa-miR-210-3p	FOXP3
hsa-miR-210-3p	NFKB1
hsa-miR-211-5p	TCF12
hsa-miR-211-5p	NFAT5
hsa-miR-211-5p	MTA3
hsa-miR-211-5p	POU2F2
hsa-miR-211-5p	ZFHX3
hsa-miR-211-5p	SP1
hsa-miR-211-5p	SPIB
hsa-miR-211-5p	SNAI2
hsa-miR-211-5p	NFATC1
hsa-miR-211-5p	TCF7L2
hsa-miR-211-5p	BACH2
hsa-miR-211-5p	TGFB1
hsa-miR-2110	NCOR2
hsa-miR-2110	BCL11A
hsa-miR-2110	E2F3
hsa-miR-2110	TP53
hsa-miR-2110	MAX
hsa-miR-2110	AR
hsa-miR-2110	HAND1
hsa-miR-2110	SP1
hsa-miR-214-3p	XBP1
hsa-miR-214-3p	TP53
hsa-miR-214-3p	TFAP2A
hsa-miR-214-3p	NFIC
hsa-miR-214-3p	TFAP2C
hsa-miR-217	E2F3
hsa-miR-217	FOXO3
hsa-miR-217	TCF7L2
hsa-miR-217	HOXA13
hsa-miR-217	HIF1A
hsa-miR-217	BACH2
hsa-miR-217	MXD1
hsa-miR-217	HINFP
hsa-miR-22-3p	ESR1
hsa-miR-22-3p	IRF5
hsa-miR-22-3p	RCOR1
hsa-miR-22-3p	SP1

hsa-miR-22-3p	MAX
hsa-miR-22-3p	FOXP1
hsa-miR-22-3p	ZNF217
hsa-miR-22-3p	E2F2
hsa-miR-22-3p	NR3C1
hsa-miR-22-3p	HIF1A
hsa-miR-221-3p	FOXO3
hsa-miR-221-3p	MYBL1
hsa-miR-221-3p	FOS
hsa-miR-221-3p	ESR1
hsa-miR-221-3p	TP53
hsa-miR-221-3p	ETS1
hsa-miR-221-3p	KLF9
hsa-miR-221-3p	E2F3
hsa-miR-221-3p	TFAP2A
hsa-miR-221-3p	YY1
hsa-miR-221-3p	NFYA
hsa-miR-221-3p	CTCF
hsa-miR-221-3p	RUNX1
hsa-miR-221-3p	ARNT
hsa-miR-221-3p	STAT5A
hsa-miR-222-3p	STAT5A
hsa-miR-222-3p	FOXO3
hsa-miR-222-3p	FOS
hsa-miR-222-3p	ESR1
hsa-miR-222-3p	TP53
hsa-miR-222-3p	ETS1
hsa-miR-222-3p	HES1
hsa-miR-222-3p	HOXA13
hsa-miR-222-3p	ZBTB7A
hsa-miR-222-3p	MAZ
hsa-miR-222-3p	PBX2
hsa-miR-222-3p	ATF5
hsa-miR-222-3p	MYC
hsa-miR-222-3p	TFAP2A
hsa-miR-223-3p	MEF2C
hsa-miR-223-3p	E2F1
hsa-miR-223-3p	SP3
hsa-miR-223-3p	TAL1
hsa-miR-223-3p	PRDM1

hsa-miR-223-3p	STAT5A
hsa-miR-223-3p	FOXO3
hsa-miR-223-3p	SP1
hsa-miR-223-3p	PAX6
hsa-miR-223-3p	TP53
hsa-miR-223-3p	IL6
hsa-miR-24-3p	MYC
hsa-miR-24-3p	E2F2
hsa-miR-24-3p	HNF4A
hsa-miR-24-3p	NFAT5
hsa-miR-24-3p	ZNF217
hsa-miR-24-3p	CTCF
hsa-miR-24-3p	HSF2
hsa-miR-24-3p	E2F3
hsa-miR-24-3p	E2F1
hsa-miR-24-3p	MXI1
hsa-miR-24-3p	MAFB
hsa-miR-24-3p	ATF3
hsa-miR-24-3p	ZKSCAN1
hsa-miR-24-3p	GMEB1
hsa-miR-24-3p	WIZ
hsa-miR-24-3p	FOSL2
hsa-miR-24-3p	GATA6
hsa-miR-24-3p	TGFB1
hsa-miR-25-3p	KLF4
hsa-miR-25-3p	TP53
hsa-miR-25-3p	SREBF1
hsa-miR-25-3p	RCOR1
hsa-miR-25-3p	SOX4
hsa-miR-25-3p	MYC
hsa-miR-25-3p	GATA6
hsa-miR-25-3p	NFYB
hsa-miR-25-3p	HOXA13
hsa-miR-2682-5p	MYC
hsa-miR-2682-5p	HIF1A
hsa-miR-26a-5p	SMAD1
hsa-miR-26a-5p	SMAD4
hsa-miR-26a-5p	MYC
hsa-miR-26a-5p	ESR1
hsa-miR-26a-5p	E2F7

hsa-miR-26a-5p	TFAM
hsa-miR-26a-5p	NKX2-5
hsa-miR-26a-5p	UBTF
hsa-miR-26a-5p	AHR
hsa-miR-26a-5p	FOXO3
hsa-miR-26a-5p	RCOR1
hsa-miR-26a-5p	IRF4
hsa-miR-26a-5p	MTA3
hsa-miR-26a-5p	ZKSCAN1
hsa-miR-26a-5p	IL6
hsa-miR-26b-5p	GATA4
hsa-miR-26b-5p	NFE2L2
hsa-miR-26b-5p	CLOCK
hsa-miR-26b-5p	SRF
hsa-miR-26b-5p	MEF2C
hsa-miR-26b-5p	ATF3
hsa-miR-26b-5p	SIX5
hsa-miR-26b-5p	ADNP
hsa-miR-26b-5p	HSF2
hsa-miR-26b-5p	ID1
hsa-miR-26b-5p	FOXG1
hsa-miR-26b-5p	PBX3
hsa-miR-26b-5p	MXI1
hsa-miR-26b-5p	SP4
hsa-miR-26b-5p	JUN
hsa-miR-26b-5p	NKX2-2
hsa-miR-26b-5p	GATA2
hsa-miR-26b-5p	ETV4
hsa-miR-26b-5p	IKZF1
hsa-miR-26b-5p	GLI2
hsa-miR-26b-5p	FOXD2
hsa-miR-26b-5p	HSF1
hsa-miR-26b-5p	TCF12
hsa-miR-26b-5p	NKX2-5
hsa-miR-26b-5p	TFEB
hsa-miR-26b-5p	FOXM1
hsa-miR-26b-5p	BATF
hsa-miR-26b-5p	BCLAF1
hsa-miR-26b-5p	NR2C2
hsa-miR-26b-5p	RCOR1

hsa-miR-26b-5p	IRF4
hsa-miR-26b-5p	E2F7
hsa-miR-26b-5p	MTA3
hsa-miR-26b-5p	ZKSCAN1
hsa-miR-26b-5p	NFKB1
hsa-miR-26b-5p	PTGS2
hsa-miR-27a-3p	RUNX1
hsa-miR-27a-3p	SP4
hsa-miR-27a-3p	SP3
hsa-miR-27a-3p	SP1
hsa-miR-27a-3p	NFE2L2
hsa-miR-27a-3p	HOXC6
hsa-miR-27a-3p	TP53
hsa-miR-27a-3p	PPARG
hsa-miR-27a-3p	HOXA10
hsa-miR-27a-3p	GATA2
hsa-miR-27a-3p	ZNF384
hsa-miR-27a-3p	ZFHX3
hsa-miR-27a-3p	ARNTL
hsa-miR-27a-3p	SPIB
hsa-miR-27a-3p	NR2F2
hsa-miR-27a-3p	SMAD4
hsa-miR-27a-3p	ZFX
hsa-miR-27a-3p	SMAD2
hsa-miR-27a-3p	E2F7
hsa-miR-296-3p	HOXA6
hsa-miR-296-3p	SPI1
hsa-miR-296-3p	HES1
hsa-miR-296-3p	MTA3
hsa-miR-296-3p	IRF1
hsa-miR-296-3p	KDM5B
hsa-miR-296-3p	SETDB1
hsa-miR-296-3p	MAZ
hsa-miR-296-3p	TFAP2A
hsa-miR-296-3p	HAND1
hsa-miR-296-3p	PTGS2
hsa-miR-299-5p	SOX4
hsa-miR-299-5p	KLF3
hsa-miR-299-5p	HOXB13
hsa-miR-299-5p	HIF1A

hsa-miR-29b-3p	SP1
hsa-miR-29b-3p	ESR1
hsa-miR-29b-3p	FOS
hsa-miR-29b-3p	SMARCC1
hsa-miR-29b-3p	REST
hsa-miR-29b-3p	MAZ
hsa-miR-29b-3p	MXD1
hsa-miR-29b-3p	GATA3
hsa-miR-29b-3p	TGFB1
hsa-miR-3065-5p	SOX4
hsa-miR-3065-5p	SP1
hsa-miR-3065-5p	MYBL1
hsa-miR-3065-5p	TP53
hsa-miR-3074-3p	HIF1A
hsa-miR-3074-3p	MAFK
hsa-miR-3074-3p	AFF1
hsa-miR-30a-5p	JUN
hsa-miR-30a-5p	SMAD1
hsa-miR-30a-5p	PRDM1
hsa-miR-30a-5p	ESRRA
hsa-miR-30a-5p	ERG
hsa-miR-30a-5p	ESR2
hsa-miR-30a-5p	BCL11A
hsa-miR-30a-5p	TFDP1
hsa-miR-30a-5p	FOXG1
hsa-miR-30a-5p	SOX4
hsa-miR-30a-5p	SP4
hsa-miR-30a-5p	NFAT5
hsa-miR-30a-5p	ARID3A
hsa-miR-30a-5p	TP53
hsa-miR-30a-5p	FOXA1
hsa-miR-30a-5p	MYBL2
hsa-miR-30b-5p	SMAD1
hsa-miR-30b-5p	BCL6
hsa-miR-30b-5p	ARID3A
hsa-miR-30b-5p	SOX4
hsa-miR-30b-5p	KLF4
hsa-miR-30b-5p	HEY1
hsa-miR-30b-5p	ERG
hsa-miR-30b-5p	TFDP1

hsa-miR-30b-5p	FOXG1
hsa-miR-30b-5p	SP4
hsa-miR-30b-5p	NFAT5
hsa-miR-30b-5p	PRDM1
hsa-miR-30b-5p	TP53
hsa-miR-30b-5p	FOXA1
hsa-miR-30b-5p	MYBL2
hsa-miR-30c-5p	SMAD1
hsa-miR-30c-5p	E2F3
hsa-miR-30c-5p	SOX4
hsa-miR-30c-5p	MXI1
hsa-miR-30c-5p	ETS1
hsa-miR-30c-5p	NFYB
hsa-miR-30c-5p	NCOR2
hsa-miR-30c-5p	TFDP1
hsa-miR-30c-5p	FOXG1
hsa-miR-30c-5p	SP4
hsa-miR-30c-5p	NFAT5
hsa-miR-30c-5p	ARID3A
hsa-miR-30c-5p	PRDM1
hsa-miR-30c-5p	TP53
hsa-miR-30c-5p	SNAI2
hsa-miR-30c-5p	MYC
hsa-miR-30c-5p	FOXA1
hsa-miR-30c-5p	MYBL2
hsa-miR-30d-5p	TP53
hsa-miR-30d-5p	SMAD1
hsa-miR-30d-5p	IRF2
hsa-miR-30d-5p	MAZ
hsa-miR-30d-5p	ZBTB4
hsa-miR-30d-5p	TFDP1
hsa-miR-30d-5p	FOXG1
hsa-miR-30d-5p	SOX4
hsa-miR-30d-5p	SP4
hsa-miR-30d-5p	NFAT5
hsa-miR-30d-5p	ARID3A
hsa-miR-30d-5p	PRDM1
hsa-miR-30d-5p	MYC
hsa-miR-30d-5p	FOXA1
hsa-miR-30d-5p	MYBL2

hsa-miR-30e-5p	MYBL2
hsa-miR-30e-5p	RELA
hsa-miR-30e-5p	TFDP1
hsa-miR-30e-5p	FOXP1
hsa-miR-30e-5p	SOX4
hsa-miR-30e-5p	SP4
hsa-miR-30e-5p	NFAT5
hsa-miR-30e-5p	ARID3A
hsa-miR-30e-5p	PRDM1
hsa-miR-30e-5p	TP53
hsa-miR-30e-5p	FOXA1
hsa-miR-31	FOXP3
hsa-miR-31-5p	YY1
hsa-miR-31-5p	NFAT5
hsa-miR-31-5p	HOXC13
hsa-miR-31-5p	ETS1
hsa-miR-31-5p	GLI2
hsa-miR-31-5p	HOXA7
hsa-miR-31-5p	SP1
hsa-miR-31-5p	AR
hsa-miR-31-5p	AFF1
hsa-miR-31-5p	FOXP3
hsa-miR-3121-3p	HIF1A
hsa-miR-3121-3p	TAL1
hsa-miR-3128	E2F3
hsa-miR-3128	HIF1A
hsa-miR-3160-3p	ZFX
hsa-miR-3160-3p	ZNF250
hsa-miR-3160-3p	RUNX3
hsa-miR-3160-3p	HIF1A
hsa-miR-3165	MNT
hsa-miR-3165	TP53
hsa-miR-3199	ZKSCAN1
hsa-miR-3199	HINFP
hsa-miR-3199	STAT3
hsa-miR-320a	NANOG
hsa-miR-320a	TEAD1
hsa-miR-320a	TCF3
hsa-miR-320a	TFAP2A
hsa-miR-320a	NRF1

hsa-miR-320a	HOXA10
hsa-miR-320a	SMARCC2
hsa-miR-320a	XBP1
hsa-miR-320a	NCOR1
hsa-miR-320a	MYC
hsa-miR-320a	FOXP1
hsa-miR-320a	USF2
hsa-miR-320a	RELA
hsa-miR-320a	SRF
hsa-miR-320a	MAX
hsa-miR-320a	TAL1
hsa-miR-320a	TP73
hsa-miR-320a	PTGS2
hsa-miR-324-3p	SRF
hsa-miR-324-3p	SETDB1
hsa-miR-324-3p	MYC
hsa-miR-324-3p	TGFB1
hsa-miR-324-5p	WHSC1
hsa-miR-324-5p	TP53
hsa-miR-324-5p	WIZ
hsa-miR-324-5p	TCF7L2
hsa-miR-324-5p	RELA
hsa-miR-324-5p	NKX2-5
hsa-miR-324-5p	MAZ
hsa-miR-324-5p	SMAD2
hsa-miR-324-5p	MYOD1
hsa-miR-324-5p	ARNT
hsa-miR-324-5p	NFATC1
hsa-miR-329-5p	ZFX
hsa-miR-329-5p	ZNF83
hsa-miR-329-5p	HIF1A
hsa-miR-335-5p	SOX4
hsa-miR-335-5p	KDM5B
hsa-miR-335-5p	MEF2A
hsa-miR-335-5p	KLF4
hsa-miR-335-5p	SALL4
hsa-miR-335-5p	MAFB
hsa-miR-335-5p	HOXA2
hsa-miR-335-5p	HEY1
hsa-miR-335-5p	TEAD2

hsa-miR-335-5p	FOXA2
hsa-miR-335-5p	HOXC6
hsa-miR-335-5p	TFE3
hsa-miR-335-5p	FOXO3
hsa-miR-335-5p	IRF2
hsa-miR-335-5p	RARG
hsa-miR-335-5p	JUND
hsa-miR-335-5p	NANOG
hsa-miR-335-5p	ETV5
hsa-miR-335-5p	NR1D1
hsa-miR-335-5p	BARX2
hsa-miR-335-5p	BCL6
hsa-miR-335-5p	SP1
hsa-miR-335-5p	EHF
hsa-miR-335-5p	MXD1
hsa-miR-335-5p	ETV1
hsa-miR-335-5p	KDM5A
hsa-miR-335-5p	ATOH1
hsa-miR-335-5p	LYL1
hsa-miR-335-5p	KLF3
hsa-miR-335-5p	ZMIZ1
hsa-miR-335-5p	MXI1
hsa-miR-335-5p	SOX9
hsa-miR-335-5p	STAT2
hsa-miR-335-5p	GATA1
hsa-miR-335-5p	MYC
hsa-miR-335-5p	ESR2
hsa-miR-335-5p	BHLHE40
hsa-miR-335-5p	SP4
hsa-miR-335-5p	NFAT5
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hsa-miR-335-5p	USF2

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hsa-miR-335-5p	HBP1
hsa-miR-335-5p	CDX2
hsa-miR-335-5p	KLF9
hsa-miR-335-5p	SPDEF
hsa-miR-335-5p	REST
hsa-miR-335-5p	ZNF83
hsa-miR-335-5p	RFX2
hsa-miR-335-5p	ATF2
hsa-miR-335-5p	MYOD1
hsa-miR-335-5p	FOS
hsa-miR-335-5p	POU5F1
hsa-miR-335-5p	SOX17
hsa-miR-335-5p	IL17A
hsa-miR-335-5p	IL6
hsa-miR-335-5p	PTGS2
hsa-miR-335-5p	TLR4
hsa-miR-337-3p	STAT3
hsa-miR-337-3p	TFAM
hsa-miR-337-3p	MTA3
hsa-miR-33a-5p	ZNF217
hsa-miR-33a-5p	CEBPG
hsa-miR-33a-5p	HIF1A
hsa-miR-33a-5p	KLF9
hsa-miR-33a-5p	FOXP1
hsa-miR-33a-5p	MYC
hsa-miR-33a-5p	FOSL1
hsa-miR-33a-5p	SREBF1
hsa-miR-33a-5p	SP1
hsa-miR-34a-5p	MYC
hsa-miR-34a-5p	MYB
hsa-miR-34a-5p	E2F3
hsa-miR-34a-5p	HNF4A
hsa-miR-34a-5p	YY1
hsa-miR-34a-5p	E2F1
hsa-miR-34a-5p	FOXP1
hsa-miR-34a-5p	CEBPB
hsa-miR-34a-5p	SPI1

hsa-miR-34a-5p	NANOG
hsa-miR-34a-5p	SOX2
hsa-miR-34a-5p	FOSL1
hsa-miR-34a-5p	TP53
hsa-miR-34a-5p	BCLAF1
hsa-miR-34a-5p	STAT1
hsa-miR-34a-5p	LEF1
hsa-miR-34a-5p	ADNP
hsa-miR-34a-5p	SMARCC1
hsa-miR-34a-5p	SMARCC2
hsa-miR-34a-5p	TFAM
hsa-miR-34a-5p	GATA4
hsa-miR-34a-5p	AR
hsa-miR-34a-5p	KLF4
hsa-miR-34a-5p	POU5F1
hsa-miR-34a-5p	MAZ
hsa-miR-34a-5p	SMAD4
hsa-miR-34a-5p	CLOCK
hsa-miR-34a-5p	HOXA13
hsa-miR-34b-5p	CREB1
hsa-miR-34b-5p	MYB
hsa-miR-34b-5p	MYC
hsa-miR-34b-5p	HNF4A
hsa-miR-34b-5p	HIF1A
hsa-miR-3529-3p	SMAD3
hsa-miR-3529-3p	SOX4
hsa-miR-3529-3p	TFAP2A
hsa-miR-3529-3p	HOXA13
hsa-miR-3529-3p	TP53
hsa-miR-3609	SP4
hsa-miR-3609	REST
hsa-miR-3609	NFAT5
hsa-miR-3609	TFAM
hsa-miR-3609	HBP1
hsa-miR-3609	GATA6
hsa-miR-3609	RUNX3
hsa-miR-3609	HIF1A
hsa-miR-3658	SOX4
hsa-miR-3658	KLF3
hsa-miR-3658	IRF2

hsa-miR-3658	TLR4
hsa-miR-365a-3p	PAX6
hsa-miR-365a-3p	MAX
hsa-miR-365a-3p	IL6
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hsa-miR-365a-5p	HINFP
hsa-miR-365a-5p	STAT3
hsa-miR-365b-5p	ZKSCAN1
hsa-miR-365b-5p	HINFP
hsa-miR-365b-5p	STAT3
hsa-miR-3662	CTCF
hsa-miR-3662	ETS2
hsa-miR-3662	HIF1A
hsa-miR-3662	SOX4
hsa-miR-3668	HIF1A
hsa-miR-3668	BACH1
hsa-miR-3668	ESR1
hsa-miR-3668	CEBPD
hsa-miR-371b-3p	STAT3
hsa-miR-371b-3p	AFF1
hsa-miR-375	SP1
hsa-miR-375	GATA6
hsa-miR-375	HOXB13
hsa-miR-375	HEY1
hsa-miR-375	AEBP2
hsa-miR-375	TCF12
hsa-miR-375	MYBL1
hsa-miR-375	TP53
hsa-miR-375	MYC
hsa-miR-379-3p	HOXA10
hsa-miR-379-3p	NRF1
hsa-miR-379-3p	TFDP1
hsa-miR-379-3p	ELK4
hsa-miR-379-3p	PTGS2
hsa-miR-380-5p	TP53
hsa-miR-3934-5p	PAX5
hsa-miR-3934-5p	IRF1
hsa-miR-3934-5p	ZKSCAN1
hsa-miR-3934-5p	PTGS2
hsa-miR-424-5p	MYB

hsa-miR-424-5p	HIF1A
hsa-miR-424-5p	SPI1
hsa-miR-424-5p	CDX2
hsa-miR-424-5p	MAFK
hsa-miR-424-5p	ELK4
hsa-miR-424-5p	GABPA
hsa-miR-424-5p	TFAP2A
hsa-miR-424-5p	NFIC
hsa-miR-424-5p	E2F7
hsa-miR-424-5p	HOXA10
hsa-miR-424-5p	MBD4
hsa-miR-424-5p	CREBL2
hsa-miR-4270	TFDP1
hsa-miR-4270	ZFHX3
hsa-miR-4270	STAT3
hsa-miR-4270	ASCL2
hsa-miR-4271	TP53
hsa-miR-4271	MAX
hsa-miR-4271	E2F3
hsa-miR-4271	AR
hsa-miR-4271	FOSL1
hsa-miR-4271	SREBF1
hsa-miR-4271	JUND
hsa-miR-4271	SP1
hsa-miR-4279	YY1
hsa-miR-4279	AFF1
hsa-miR-4279	SOX4
hsa-miR-4279	E2F2
hsa-miR-4279	FOXO3
hsa-miR-4279	HINFP
hsa-miR-4279	THAP1
hsa-miR-4279	VDR
hsa-miR-4279	TLR4
hsa-miR-4282	HIF1A
hsa-miR-4282	HBP1
hsa-miR-4282	RCOR1
hsa-miR-4282	E2F7
hsa-miR-4282	NR3C1
hsa-miR-4282	NFYA
hsa-miR-4282	SP4

hsa-miR-4286	HOXA13
hsa-miR-4286	ZBTB7A
hsa-miR-4286	TP53
hsa-miR-4286	NFYA
hsa-miR-4286	SREBF1
hsa-miR-4290	SMAD3
hsa-miR-4290	ESR1
hsa-miR-4290	HOXA13
hsa-miR-4290	SREBF1
hsa-miR-4306	BACH1
hsa-miR-4306	TFDP1
hsa-miR-4306	TP53
hsa-miR-4306	MYBL1
hsa-miR-4306	GATA6
hsa-miR-4306	HOXC6
hsa-miR-4418	HBP1
hsa-miR-4418	ID2
hsa-miR-4418	TCF7L2
hsa-miR-4418	HIF1A
hsa-miR-4418	BACH2
hsa-miR-4419a	TP53
hsa-miR-4419a	SP2
hsa-miR-4419a	PAX5
hsa-miR-4419a	NFAT5
hsa-miR-4419a	MYBL1
hsa-miR-4419a	GATA6
hsa-miR-4419a	NCOR2
hsa-miR-4419a	HOXB13
hsa-miR-4419a	HOXC6
hsa-miR-4419a	NRF1
hsa-miR-4434	TP53
hsa-miR-4434	MBD4
hsa-miR-4434	GATA6
hsa-miR-4434	REST
hsa-miR-4434	MAF
hsa-miR-4434	SOX4
hsa-miR-4434	BACH2
hsa-miR-4438	FOS
hsa-miR-4438	ESR2
hsa-miR-4438	VDR

hsa-miR-4438	CREB1
hsa-miR-4438	ZKSCAN1
hsa-miR-4438	STAT3
hsa-miR-4441	TFDP1
hsa-miR-4441	ZFHX3
hsa-miR-4441	STAT3
hsa-miR-4441	ASCL2
hsa-miR-4463	THAP1
hsa-miR-4463	HIF1A
hsa-miR-4464	TEAD1
hsa-miR-4464	KLF9
hsa-miR-4464	HIF1A
hsa-miR-4464	GLI2
hsa-miR-4464	MAZ
hsa-miR-4470	SOX4
hsa-miR-4470	ZFHX3
hsa-miR-4470	LHX4
hsa-miR-4470	HIF1A
hsa-miR-4487	ZFX
hsa-miR-4487	NRF1
hsa-miR-4487	ZNF250
hsa-miR-4487	RUNX3
hsa-miR-4487	HIF1A
hsa-miR-4499	ZFX
hsa-miR-4499	HIF1A
hsa-miR-449c-5p	MYC
hsa-miR-449c-5p	HIF1A
hsa-miR-4510	MYC
hsa-miR-4510	TP53
hsa-miR-4510	SP2
hsa-miR-4510	PAX5
hsa-miR-4510	NFAT5
hsa-miR-4510	MYBL1
hsa-miR-4510	GATA6
hsa-miR-4510	NCOR2
hsa-miR-4510	HOXB13
hsa-miR-4510	HOXC6
hsa-miR-4510	NRF1
hsa-miR-4516	STAT3
hsa-miR-4516	TP53

hsa-miR-4516	MBD4
hsa-miR-4516	GATA6
hsa-miR-4516	REST
hsa-miR-4516	MAF
hsa-miR-4516	SOX4
hsa-miR-4516	BACH2
hsa-miR-452-5p	SMAD4
hsa-miR-452-5p	LEF1
hsa-miR-452-5p	TCF4
hsa-miR-452-5p	REST
hsa-miR-452-5p	TNF
hsa-miR-4531	SOX4
hsa-miR-4531	REST
hsa-miR-4531	TP53
hsa-miR-4531	MAF
hsa-miR-4531	PAX5
hsa-miR-4531	BACH2
hsa-miR-454-3p	SMAD4
hsa-miR-454-3p	ZBTB4
hsa-miR-454-3p	BHLHE40
hsa-miR-454-3p	TP53
hsa-miR-454-3p	SOX4
hsa-miR-454-3p	HBP1
hsa-miR-454-3p	YY1
hsa-miR-454-3p	ESR1
hsa-miR-454-3p	HOXA5
hsa-miR-454-3p	TCF7L2
hsa-miR-454-3p	IRF1
hsa-miR-4644	BACH1
hsa-miR-4644	TFDP1
hsa-miR-4644	TP53
hsa-miR-4644	MYBL1
hsa-miR-4644	AR
hsa-miR-4644	GATA6
hsa-miR-4644	HOXC6
hsa-miR-4650-5p	TP53
hsa-miR-4651	NKX2-2
hsa-miR-4651	UBTF
hsa-miR-4651	TP53
hsa-miR-4651	MAX

hsa-miR-4651	ZBTB7A
hsa-miR-4651	GLI2
hsa-miR-4659a-3p	ASCL1
hsa-miR-4659a-3p	NFIC
hsa-miR-4659a-3p	VDR
hsa-miR-4659a-3p	TLR4
hsa-miR-4659b-3p	ASCL1
hsa-miR-4659b-3p	NFIC
hsa-miR-4659b-3p	VDR
hsa-miR-4659b-3p	TLR4
hsa-miR-4662a-5p	KDM5A
hsa-miR-4662a-5p	HIF1A
hsa-miR-4682	TP53
hsa-miR-4684-5p	STAT3
hsa-miR-4684-5p	FOSL2
hsa-miR-4684-5p	ZNF552
hsa-miR-4685-5p	E2F1
hsa-miR-4685-5p	STAT3
hsa-miR-4694-3p	MAFK
hsa-miR-4694-3p	E2F3
hsa-miR-4694-3p	TLR4
hsa-miR-4697-3p	TP53
hsa-miR-4698	TCF7L2
hsa-miR-4698	E2F8
hsa-miR-4698	GATA6
hsa-miR-4698	E2F2
hsa-miR-4698	TLR4
hsa-miR-4720-3p	GATA6
hsa-miR-4720-3p	TFAP4
hsa-miR-4720-3p	JUN
hsa-miR-4720-3p	STAT3
hsa-miR-4725-3p	TP53
hsa-miR-4725-3p	MAX
hsa-miR-4725-3p	E2F3
hsa-miR-4725-3p	AR
hsa-miR-4725-3p	FOSL1
hsa-miR-4725-3p	SREBF1
hsa-miR-4725-3p	JUND
hsa-miR-4725-3p	SP1
hsa-miR-4728-5p	JUN

hsa-miR-4728-5p	MAZ
hsa-miR-4728-5p	ZFHX3
hsa-miR-4728-5p	TP53
hsa-miR-4728-5p	NFAT5
hsa-miR-4728-5p	GATA6
hsa-miR-4728-5p	NCOR2
hsa-miR-4728-5p	SREBF1
hsa-miR-4728-5p	CASZ1
hsa-miR-4728-5p	ASCL2
hsa-miR-4728-5p	HOXB13
hsa-miR-4728-5p	CREBL2
hsa-miR-4728-5p	MNT
hsa-miR-4728-5p	NFIC
hsa-miR-4728-5p	NRF1
hsa-miR-4728-5p	ZNF250
hsa-miR-4728-5p	WIZ
hsa-miR-4728-5p	FOSL2
hsa-miR-4728-5p	AHR
hsa-miR-4735-3p	HIF1A
hsa-miR-4735-3p	CREBL2
hsa-miR-4735-3p	IRF2
hsa-miR-4736	TP53
hsa-miR-4736	TEAD1
hsa-miR-4736	HAND1
hsa-miR-4738-3p	TLR4
hsa-miR-4742-3p	ZBTB7A
hsa-miR-4742-3p	TLR4
hsa-miR-4748	TEAD1
hsa-miR-4748	KLF9
hsa-miR-4748	HIF1A
hsa-miR-4748	GLI2
hsa-miR-4748	MAZ
hsa-miR-4763-3p	TP53
hsa-miR-4763-3p	TEAD1
hsa-miR-4763-3p	SP2
hsa-miR-4763-3p	MBD4
hsa-miR-4763-3p	HAND1
hsa-miR-4768-5p	POU2F2
hsa-miR-4768-5p	STAT3
hsa-miR-4768-5p	ZNF83

hsa-miR-4768-5p	SPIB
hsa-miR-4768-5p	STAT5A
hsa-miR-4768-5p	HOXA13
hsa-miR-4768-5p	ASCL1
hsa-miR-4778-3p	ASCL1
hsa-miR-4778-3p	NFIC
hsa-miR-4778-3p	STAT3
hsa-miR-4778-3p	JUND
hsa-miR-4778-3p	KDM5A
hsa-miR-4778-3p	AR
hsa-miR-4795-5p	SOX4
hsa-miR-4795-5p	MAZ
hsa-miR-4795-5p	FOXO3
hsa-miR-4795-5p	E2F3
hsa-miR-4795-5p	UBTF
hsa-miR-4795-5p	TP53
hsa-miR-4795-5p	FOXH1
hsa-miR-4799-5p	HIF1A
hsa-miR-4799-5p	SMAD4
hsa-miR-4799-5p	HNF4G
hsa-miR-4804-3p	TFAP4
hsa-miR-4804-3p	JUN
hsa-miR-4804-3p	STAT3
hsa-miR-484	ZBED4
hsa-miR-484	HOXA5
hsa-miR-484	AEBP2
hsa-miR-484	SREBF1
hsa-miR-484	TFAM
hsa-miR-484	ELK4
hsa-miR-484	YY1
hsa-miR-484	SRF
hsa-miR-484	ARID3A
hsa-miR-484	NCOR1
hsa-miR-484	UBTF
hsa-miR-484	ZFX
hsa-miR-484	CDX2
hsa-miR-484	SP3
hsa-miR-484	SMAD2
hsa-miR-484	RFX5
hsa-miR-484	ZBTB4

hsa-miR-484	IL2
hsa-miR-485-5p	TP53
hsa-miR-485-5p	THAP1
hsa-miR-485-5p	WIZ
hsa-miR-485-5p	FOSL2
hsa-miR-485-5p	STAT2
hsa-miR-491-5p	TP53
hsa-miR-491-5p	SMAD3
hsa-miR-491-5p	AR
hsa-miR-491-5p	UBTF
hsa-miR-491-5p	ASCL2
hsa-miR-491-5p	HOXC6
hsa-miR-491-5p	MAZ
hsa-miR-494-3p	ARNTL
hsa-miR-494-3p	ATF3
hsa-miR-494-3p	ZEB1
hsa-miR-494-3p	MYC
hsa-miR-494-3p	TFAM
hsa-miR-494-3p	REST
hsa-miR-494-3p	HOXA10
hsa-miR-494-3p	TEAD1
hsa-miR-494-3p	HIF1A
hsa-miR-5003-5p	HOXA5
hsa-miR-5003-5p	TFDP1
hsa-miR-5003-5p	HOXA13
hsa-miR-5003-5p	ETS1
hsa-miR-5003-5p	TP53
hsa-miR-500b-3p	ZBTB7A
hsa-miR-500b-3p	STAT3
hsa-miR-504-5p	TP53
hsa-miR-504-5p	NR2C2
hsa-miR-504-5p	TFAP2C
hsa-miR-504-5p	HOXA13
hsa-miR-504-5p	POU2F2
hsa-miR-5089-3p	FOS
hsa-miR-5089-3p	HIF1A
hsa-miR-5089-3p	ELK4
hsa-miR-5089-3p	SMAD2
hsa-miR-509-3-5p	HBP1
hsa-miR-509-3-5p	ID2

hsa-miR-509-3-5p	TCF7L2
hsa-miR-509-3-5p	HIF1A
hsa-miR-509-3-5p	BACH2
hsa-miR-509-5p	HBP1
hsa-miR-509-5p	ID2
hsa-miR-509-5p	TCF7L2
hsa-miR-509-5p	HIF1A
hsa-miR-509-5p	BACH2
hsa-miR-5094	HIF1A
hsa-miR-5094	ZBTB7A
hsa-miR-5095	FOS
hsa-miR-5095	ESR2
hsa-miR-5095	VDR
hsa-miR-5095	CREB1
hsa-miR-5095	ZKSCAN1
hsa-miR-5095	STAT3
hsa-miR-513b-3p	TP53
hsa-miR-513b-3p	VEZF1
hsa-miR-5193	NKX2-2
hsa-miR-5193	TCF7L2
hsa-miR-5193	AFF1
hsa-miR-5193	MAFK
hsa-miR-5193	ARID3A
hsa-miR-5193	TP53
hsa-miR-5193	SPIB
hsa-miR-5193	AR
hsa-miR-5193	HOXA13
hsa-miR-5196-3p	TP53
hsa-miR-5196-3p	SOX9
hsa-miR-5197-5p	MYC
hsa-miR-5197-5p	E2F3
hsa-miR-5197-5p	AFF1
hsa-miR-5197-5p	TP53
hsa-miR-5197-5p	ZFH3
hsa-miR-5197-5p	HOXA13
hsa-miR-519c-3p	HIF1A
hsa-miR-519c-3p	SMAD4
hsa-miR-519c-3p	SOX4
hsa-miR-519c-3p	HBP1
hsa-miR-519c-3p	NFAT5

hsa-miR-519c-3p	UBTF
hsa-miR-519c-3p	TFAM
hsa-miR-519c-3p	ZBTB4
hsa-miR-519c-3p	NR2C2
hsa-miR-519c-3p	IRF2
hsa-miR-519c-3p	TFAP4
hsa-miR-519c-3p	TCF7L2
hsa-miR-519c-3p	GATA6
hsa-miR-519c-3p	RUNX3
hsa-miR-519c-3p	NR2F2
hsa-miR-519c-3p	ESR1
hsa-miR-519d-3p	HIF1A
hsa-miR-519d-3p	SMAD4
hsa-miR-519d-3p	KLF3
hsa-miR-519d-3p	SOX4
hsa-miR-519d-3p	HBP1
hsa-miR-519d-3p	SP4
hsa-miR-519d-3p	NFAT5
hsa-miR-519d-3p	WHSC1
hsa-miR-519d-3p	CREB1
hsa-miR-519d-3p	REST
hsa-miR-519d-3p	AFF1
hsa-miR-519d-3p	E2F3
hsa-miR-519d-3p	TFAM
hsa-miR-519d-3p	ZBTB4
hsa-miR-519d-3p	GATA6
hsa-miR-519d-3p	ELK4
hsa-miR-519d-3p	NR2C2
hsa-miR-519d-3p	TCF7L2
hsa-miR-519d-3p	RUNX3
hsa-miR-519d-3p	ZBTB7A
hsa-miR-519d-3p	SPIB
hsa-miR-519d-3p	ESR2
hsa-miR-519d-3p	TCF4
hsa-miR-519d-3p	STAT3
hsa-miR-519d-3p	MXI1
hsa-miR-519d-3p	E2F2
hsa-miR-519d-3p	E2F1
hsa-miR-519d-3p	CLOCK
hsa-miR-526b-5p	FOXP1

hsa-miR-526b-5p	CLOCK
hsa-miR-526b-5p	CREB1
hsa-miR-526b-5p	GATA6
hsa-miR-526b-5p	TLR4
hsa-miR-548ah-5p	SP4
hsa-miR-548ah-5p	REST
hsa-miR-548ah-5p	NFAT5
hsa-miR-548ah-5p	TFAM
hsa-miR-548ah-5p	HBP1
hsa-miR-548ah-5p	GATA6
hsa-miR-548ah-5p	RUNX3
hsa-miR-548ah-5p	HIF1A
hsa-miR-548g-3p	MXI1
hsa-miR-548g-3p	E2F6
hsa-miR-548g-3p	VEZF1
hsa-miR-548g-3p	E2F3
hsa-miR-548g-3p	SMAD2
hsa-miR-548g-3p	TLR4
hsa-miR-548n	CEBPB
hsa-miR-548n	REST
hsa-miR-548n	ID2
hsa-miR-548n	STAT3
hsa-miR-548n	E2F7
hsa-miR-548n	E2F3
hsa-miR-548n	BCLAF1
hsa-miR-548n	KDM5A
hsa-miR-558	ZFX
hsa-miR-558	ZNF250
hsa-miR-558	RUNX3
hsa-miR-558	HIF1A
hsa-miR-558	PTGS2
hsa-miR-5581-3p	FOS
hsa-miR-5581-3p	STAT3
hsa-miR-5681a	ID2
hsa-miR-5681a	STAT3
hsa-miR-5681a	NFAT5
hsa-miR-5681a	HOXC6
hsa-miR-5681a	ZNF83
hsa-miR-5681b	WHSC1
hsa-miR-5681b	HIF1A

hsa-miR-5692a	MAFK
hsa-miR-5692a	HIF1A
hsa-miR-5692a	ID2
hsa-miR-5693	MAZ
hsa-miR-5693	TP53
hsa-miR-5693	SPIB
hsa-miR-5693	GATA6
hsa-miR-5702	TP53
hsa-miR-5702	CEBPG
hsa-miR-5702	SMAD2
hsa-miR-5703	TP53
hsa-miR-5703	MBD4
hsa-miR-5703	GATA6
hsa-miR-5703	REST
hsa-miR-5703	MAF
hsa-miR-5703	SOX4
hsa-miR-5703	BACH2
hsa-miR-576-3p	SOX4
hsa-miR-576-3p	HIF1A
hsa-miR-576-3p	NFIC
hsa-miR-576-3p	HINFP
hsa-miR-589-3p	HIF1A
hsa-miR-589-3p	AR
hsa-miR-589-5p	PTGS2
hsa-miR-605-5p	TP53
hsa-miR-605-5p	HOXA13
hsa-miR-605-5p	RUNX1
hsa-miR-605-5p	STAT1
hsa-miR-605-5p	NR2C2
hsa-miR-6077	TEAD1
hsa-miR-6077	FOS
hsa-miR-6077	GATA6
hsa-miR-6077	RELA
hsa-miR-6077	TLR4
hsa-miR-608	TP53
hsa-miR-608	NKX2-2
hsa-miR-608	UBTF
hsa-miR-608	MAX
hsa-miR-608	ZBTB7A
hsa-miR-608	GLI2

hsa-miR-612	TP53
hsa-miR-612	RUNX1
hsa-miR-6127	TP53
hsa-miR-6127	SP2
hsa-miR-6127	PAX5
hsa-miR-6127	NFAT5
hsa-miR-6127	MYBL1
hsa-miR-6127	GATA6
hsa-miR-6127	NCOR2
hsa-miR-6127	HOXB13
hsa-miR-6127	HOXC6
hsa-miR-6127	NRF1
hsa-miR-6129	TP53
hsa-miR-6129	SP2
hsa-miR-6129	PAX5
hsa-miR-6129	NFAT5
hsa-miR-6129	MYBL1
hsa-miR-6129	GATA6
hsa-miR-6129	NCOR2
hsa-miR-6129	HOXB13
hsa-miR-6129	HOXC6
hsa-miR-6129	NRF1
hsa-miR-6130	TP53
hsa-miR-6130	SP2
hsa-miR-6130	PAX5
hsa-miR-6130	NFAT5
hsa-miR-6130	MYBL1
hsa-miR-6130	GATA6
hsa-miR-6130	NCOR2
hsa-miR-6130	HOXB13
hsa-miR-6130	HOXC6
hsa-miR-6130	NRF1
hsa-miR-6133	TP53
hsa-miR-6133	SP2
hsa-miR-6133	PAX5
hsa-miR-6133	NFAT5
hsa-miR-6133	MYBL1
hsa-miR-6133	GATA6
hsa-miR-6133	NCOR2
hsa-miR-6133	HOXB13

hsa-miR-6133	HOXC6
hsa-miR-6133	NRF1
hsa-miR-618	NR3C1
hsa-miR-618	KDM5A
hsa-miR-618	MAF
hsa-miR-618	SOX4
hsa-miR-618	STAT3
hsa-miR-622	TP53
hsa-miR-622	MYC
hsa-miR-625-3p	XBP1
hsa-miR-625-3p	HIF1A
hsa-miR-630	SNAI2
hsa-miR-630	ZFHX3
hsa-miR-630	TLR4
hsa-miR-633	JUN
hsa-miR-633	TGFB1
hsa-miR-6511a-5p	HIF1A
hsa-miR-6511a-5p	UBTF
hsa-miR-6511a-5p	AR
hsa-miR-652-3p	SMAD2
hsa-miR-652-3p	CEBPG
hsa-miR-652-3p	ZBTB4
hsa-miR-652-3p	NFAT5
hsa-miR-652-3p	MTA3
hsa-miR-652-3p	PTGS2
hsa-miR-660-3p	RXRA
hsa-miR-660-3p	AFF1
hsa-miR-660-3p	ZKSCAN1
hsa-miR-660-3p	MAFK
hsa-miR-660-3p	ARID3A
hsa-miR-660-3p	TP53
hsa-miR-660-3p	SPIB
hsa-miR-660-3p	AR
hsa-miR-660-3p	HOXA13
hsa-miR-660-3p	E2F2
hsa-miR-663a	JUNB
hsa-miR-663a	JUND
hsa-miR-663a	KLF4
hsa-miR-663a	CEBPB
hsa-miR-663a	BARHL1

hsa-miR-663a	NKX2-5
hsa-miR-663a	TGFB1
hsa-miR-6722-3p	TP53
hsa-miR-6722-3p	SP2
hsa-miR-6722-3p	MBD4
hsa-miR-6722-3p	ARID3A
hsa-miR-6731-5p	TFDP1
hsa-miR-6731-5p	TP53
hsa-miR-6731-5p	SP2
hsa-miR-6731-5p	MYBL1
hsa-miR-6731-5p	GATA6
hsa-miR-6731-5p	BARHL1
hsa-miR-6731-5p	NFAT5
hsa-miR-6731-5p	HOXC6
hsa-miR-6731-5p	TFAM
hsa-miR-6731-5p	RUNX3
hsa-miR-6731-5p	AR
hsa-miR-6731-5p	FOSL2
hsa-miR-6749-3p	MAZ
hsa-miR-6749-3p	SP1
hsa-miR-6749-3p	ARID3A
hsa-miR-6749-3p	TP53
hsa-miR-6749-3p	SOX4
hsa-miR-6749-3p	SPI1
hsa-miR-6749-3p	CREBL2
hsa-miR-6749-3p	HOXA13
hsa-miR-6749-3p	SNAI2
hsa-miR-6749-3p	BHLHE40
hsa-miR-6749-3p	BACH2
hsa-miR-6749-3p	NR2F2
hsa-miR-6749-3p	MAFK
hsa-miR-6749-3p	SREBF1
hsa-miR-6751-5p	TP53
hsa-miR-6751-5p	RUNX3
hsa-miR-6752-5p	TP53
hsa-miR-6752-5p	RUNX3
hsa-miR-6754-5p	TFDP1
hsa-miR-6754-5p	ZFH3
hsa-miR-6754-5p	STAT3
hsa-miR-6754-5p	ASCL2

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hsa-miR-6755-5p	POU2F2
hsa-miR-6756-5p	NKX2-2
hsa-miR-6756-5p	UBTF
hsa-miR-6756-5p	TP53
hsa-miR-6756-5p	ZBTB7A
hsa-miR-6756-5p	NFIC
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hsa-miR-6760-5p	TFDP1
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hsa-miR-6760-5p	MYBL1
hsa-miR-6760-5p	GATA6
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hsa-miR-6778-5p	ZMIZ1
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hsa-miR-6780b-5p	FOSL1
hsa-miR-6780b-5p	SREBF1
hsa-miR-6780b-5p	JUND
hsa-miR-6780b-5p	SP1
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hsa-miR-6785-5p	GATA6
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hsa-miR-6785-5p	NRF1
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hsa-miR-6825-5p	UBTF
hsa-miR-6825-5p	ASCL2
hsa-miR-6825-5p	MNT
hsa-miR-6825-5p	ZBTB7A
hsa-miR-6825-5p	HOXC6
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hsa-miR-6833-3p	ZNF83
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hsa-miR-6833-3p	STAT5A
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hsa-miR-6845-3p	SPI1
hsa-miR-6845-3p	NFYA
hsa-miR-6845-3p	HOXA13
hsa-miR-6845-3p	STAT3
hsa-miR-6871-3p	STAT3
hsa-miR-6872-3p	THAP1
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hsa-miR-6872-3p	HINFP
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hsa-miR-6875-3p	STAT3
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hsa-miR-6878-5p	MBD4
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hsa-miR-6878-5p	NFAT5
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hsa-miR-6880-5p	TP53
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hsa-miR-6882-5p	E2F2
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hsa-miR-6883-5p	MAZ
hsa-miR-6883-5p	ZFHX3
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hsa-miR-6883-5p	GATA6
hsa-miR-6883-5p	NCOR2
hsa-miR-6883-5p	SREBF1
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hsa-miR-6883-5p	ASCL2
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hsa-miR-7-5p	PAX6
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hsa-miR-7-5p	TLR4
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hsa-miR-7110-3p	ARNT
hsa-miR-7110-3p	STAT5A
hsa-miR-7110-3p	STAT3
hsa-miR-7110-3p	ASCL1
hsa-miR-7110-5p	TP53

hsa-miR-7110-5p	RUNX3
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hsa-miR-7113-5p	ASCL2
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hsa-miR-7150	ETV5
hsa-miR-7150	HAND1
hsa-miR-7150	KDM5A
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hsa-miR-7151-3p	ESR2
hsa-miR-7151-3p	VDR
hsa-miR-7151-3p	CREB1
hsa-miR-7151-3p	ZKSCAN1
hsa-miR-7151-3p	STAT3
hsa-miR-7158-5p	STAT3
hsa-miR-744-5p	SREBF1
hsa-miR-744-5p	FOXO3
hsa-miR-744-5p	CEBPA
hsa-miR-744-5p	MYC
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hsa-miR-8071	TP53
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hsa-miR-8085	SP2
hsa-miR-8085	MYBL1
hsa-miR-8085	GATA6
hsa-miR-8085	BARHL1
hsa-miR-8085	NFAT5
hsa-miR-8085	HOXC6
hsa-miR-8085	TFAM
hsa-miR-8085	RUNX3

hsa-miR-8085	AR
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hsa-miR-874-3p	ESR1
hsa-miR-877-3p	CUX1
hsa-miR-877-3p	GMEB2
hsa-miR-877-3p	PBX1
hsa-miR-877-3p	PRDM1
hsa-miR-877-3p	MAZ
hsa-miR-877-3p	MBD3
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hsa-miR-877-3p	ZBTB7A
hsa-miR-877-3p	E2F2
hsa-miR-877-3p	STAT3
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hsa-miR-9-5p	ETS1
hsa-miR-9-5p	PRDM1
hsa-miR-9-5p	CDX2
hsa-miR-9-5p	SRF
hsa-miR-9-5p	ID2
hsa-miR-9-5p	FOXO3
hsa-miR-9-5p	ZNF407
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hsa-miR-9-5p	SPI1
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hsa-miR-9-5p	NKX2-2
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hsa-miR-922	ETV7
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hsa-miR-92a-1-5p	RFX1
hsa-miR-92a-2-5p	TP53
hsa-miR-92a-2-5p	MYC
hsa-miR-92a-2-5p	NKX2-2
hsa-miR-92a-2-5p	AR
hsa-miR-92a-2-5p	FOSL1
hsa-miR-92a-2-5p	SIX5
hsa-miR-92a-2-5p	HOXC6
hsa-miR-92a-3p	TP63
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hsa-miR-92a-3p	SMAD4
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hsa-miR-92a-3p	PBX2
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hsa-miR-92a-3p	GATA3

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hsa-miR-92b-3p	SMARCC2
hsa-miR-92b-3p	MAFK
hsa-miR-92b-3p	SOX4
hsa-miR-92b-3p	E2F3
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hsa-miR-92b-3p	MYC
hsa-miR-92b-3p	NFYB
hsa-miR-92b-3p	HOXA13
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hsa-miR-93-5p	MYC
hsa-miR-93-5p	TFAM
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hsa-miR-93-5p	ESR2
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hsa-miR-98-5p	E2F4
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hsa-miR-98-5p	HAND1
hsa-miR-98-5p	STAT2
hsa-miR-98-5p	IL6
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HSF1	HIF1A
HSF1	STAT3
HSF1	IL10
HSF1	hsa-miR-937-5p
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HSF1	hsa-miR-1288-5p
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HSF1	hsa-miR-124-3p
HSF1	hsa-let-7a-5p
HSF2	TGFB1
ID1	TGFB1
ID2	TP53
IKZF1	NFKB1
IKZF1	TNF
IKZF1	hsa-let-7a-5p
IKZF1	hsa-let-7i-5p
IKZF1	hsa-miR-1207-5p
IKZF1	hsa-miR-128-3p
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IKZF1	hsa-miR-155-5p
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IKZF1	hsa-miR-3529-3p
IKZF1	hsa-miR-365a-3p
IKZF1	hsa-miR-365a-5p
IKZF1	hsa-miR-4270

IKZF1	hsa-miR-4736
IKZF1	hsa-miR-484
IKZF1	hsa-miR-589-3p
IKZF1	hsa-miR-589-5p
IKZF1	hsa-miR-612
IKZF1	hsa-miR-7-5p
IKZF1	hsa-miR-5095
IRF1	HIF1A
IRF1	STAT3
IRF1	IL10
IRF1	IL6
IRF1	NFKB1
IRF1	SMAD3
IRF1	TGFB1
IRF1	TP53
IRF1	hsa-miR-1181
IRF1	hsa-miR-155-5p
IRF1	hsa-miR-2110
IRF1	hsa-miR-30e-5p
IRF1	hsa-miR-3199
IRF1	hsa-miR-320a
IRF1	hsa-miR-4470
IRF1	hsa-miR-4736
IRF1	hsa-miR-4738-3p
IRF1	hsa-miR-92b-3p
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IRF1	hsa-miR-195-5p
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IRF1	hsa-miR-1908-5p
IRF1	hsa-miR-18a-5p
IRF1	hsa-miR-18a-3p
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IRF1	hsa-miR-144-3p
IRF1	hsa-miR-142-3p
IRF1	hsa-miR-132-3p
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LEF1	hsa-miR-138-5p
LEF1	hsa-miR-132-3p
LEF1	hsa-miR-124-3p
LEF1	hsa-miR-1234-3p
LHX2	HIF1A
LHX4	IL10
LYL1	HIF1A
LYL1	PTGS2
LYL1	SMAD3
LYL1	STAT3
LYL1	TP53

LYL1	hsa-miR-92a-3p
LYL1	hsa-miR-92a-1-5p
LYL1	hsa-miR-6872-3p
LYL1	hsa-miR-6825-5p
LYL1	hsa-miR-6797-5p
LYL1	hsa-miR-6751-5p
LYL1	hsa-miR-4795-5p
LYL1	hsa-miR-20a-5p
LYL1	hsa-miR-19b-3p
LYL1	hsa-miR-19a-3p
LYL1	hsa-miR-18a-5p
LYL1	hsa-miR-18a-3p
LYL1	hsa-miR-17-5p
LYL1	hsa-let-7a-5p
MAF	HIF1A
MAFB	HIF1A
MAFB	PTGS2
MAFF	HIF1A
MAFF	IL10
MAFF	IL6
MAFF	SMAD3
MAFF	STAT3
MAFF	TP53
MAFF	hsa-miR-106a-3p
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MAFF	hsa-miR-106b-5p
MAFF	hsa-miR-155-5p
MAFF	hsa-miR-17-5p
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MAFF	hsa-miR-18a-5p
MAFF	hsa-miR-19a-3p
MAFF	hsa-miR-20a-5p
MAFF	hsa-miR-2110
MAFF	hsa-miR-320a
MAFF	hsa-miR-4271
MAFF	hsa-miR-4651
MAFF	hsa-miR-4738-3p
MAFF	hsa-miR-558
MAFF	hsa-miR-889-3p

MAFF	hsa-miR-93-5p
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MAFF	hsa-miR-5702
MAFK	HIF1A
MAFK	IL10
MAFK	IL17A
MAFK	IL6
MAFK	PTGS2
MAFK	SMAD3
MAFK	STAT3
MAFK	TGFB1
MAFK	TLR4
MAFK	TP53
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MAFK	hsa-miR-18b-5p
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MAFK	hsa-miR-193b-3p
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MAFK	hsa-let-7a-5p
MAX	HIF1A
MAX	IL6
MAX	NFKB1
MAX	PTGS2
MAX	SMAD3
MAX	STAT3
MAX	TGFB1
MAX	TLR4
MAX	TNF
MAX	TP53
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MAX	hsa-miR-379-3p

MAX	hsa-miR-375
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MAX	hsa-miR-146a-5p
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MAX	hsa-miR-137
MAX	hsa-miR-1322
MAX	hsa-miR-130a-3p

MAX	hsa-miR-1288-5p
MAX	hsa-miR-128-3p
MAX	hsa-miR-1273f
MAX	hsa-miR-125b-5p
MAX	hsa-miR-1181
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MAX	hsa-miR-106b-3p
MAZ	HIF1A
MAZ	IL6
MAZ	NFKB1
MAZ	PTGS2
MAZ	SMAD3
MAZ	STAT3
MAZ	TGFB1
MAZ	TNF
MAZ	TP53
MAZ	hsa-miR-130a-3p
MAZ	hsa-miR-130b-3p
MAZ	hsa-miR-1322
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MAZ	hsa-miR-150-5p
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MAZ	hsa-miR-22-3p
MAZ	hsa-miR-320a
MAZ	hsa-miR-3662
MAZ	hsa-miR-4271
MAZ	hsa-miR-449c-5p
MAZ	hsa-miR-9-5p
MAZ	hsa-miR-877-3p
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MAZ	hsa-miR-6875-3p
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MAZ	hsa-miR-633
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MAZ	hsa-miR-504-5p
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MAZ	hsa-miR-4736
MAZ	hsa-miR-4659b-3p
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MAZ	hsa-miR-138-5p
MAZ	hsa-miR-1285-3p
MAZ	hsa-miR-124-3p
MAZ	hsa-miR-1207-5p
MAZ	hsa-miR-100-5p
MAZ	hsa-let-7b-5p
MAZ	hsa-let-7a-5p
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MBD3	IL2
MBD3	NFKB1
MBD3	PTGS2
MBD3	SMAD3
MBD3	STAT3
MBD3	TGFB1
MBD3	TLR4
MBD3	TNF
MBD3	TP53
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MBD3	hsa-miR-6893-5p
MBD3	hsa-miR-6883-5p
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MBD3	hsa-miR-3658
MBD3	hsa-miR-337-3p
MBD3	hsa-miR-3165
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MBD3	hsa-miR-1288-5p
MBD3	hsa-miR-125a-5p
MBD4	SMAD3
MBD4	STAT3
MBD4	TP53
MBD4	hsa-miR-145-5p
MBD4	hsa-miR-1908-5p
MBD4	hsa-miR-320a
MBD4	hsa-miR-4470
MBD4	hsa-miR-4738-3p
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MECOM	HIF1A
MECOM	IL6
MECOM	PTGS2
MECOM	SMAD3
MECOM	STAT3
MECOM	TGFB1
MECOM	TP53
MECOM	hsa-miR-92a-3p
MECOM	hsa-miR-92a-1-5p
MECOM	hsa-miR-9-5p

MECOM	hsa-miR-5702
MECOM	hsa-miR-3199
MECOM	hsa-miR-222-3p
MECOM	hsa-miR-20a-5p
MECOM	hsa-miR-19b-3p
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MECOM	hsa-miR-18a-5p
MECOM	hsa-miR-18a-3p
MECOM	hsa-miR-17-5p
MEF2A	HIF1A
MEF2A	IL17A
MEF2A	NFKB1
MEF2A	STAT3
MEF2A	TGFB1
MEF2A	TNF
MEF2A	hsa-let-7i-5p
MEF2A	hsa-miR-1207-5p
MEF2A	hsa-miR-128-3p
MEF2A	hsa-miR-142-3p
MEF2A	hsa-miR-155-5p
MEF2A	hsa-miR-17-5p
MEF2A	hsa-miR-18a-3p
MEF2A	hsa-miR-18a-5p
MEF2A	hsa-miR-19a-3p
MEF2A	hsa-miR-20a-5p
MEF2A	hsa-miR-21-5p
MEF2A	hsa-miR-365a-3p
MEF2A	hsa-miR-365a-5p
MEF2A	hsa-miR-4659a-3p
MEF2A	hsa-miR-4659b-3p
MEF2A	hsa-miR-4736
MEF2A	hsa-miR-663a
MEF2A	hsa-miR-612
MEF2A	hsa-miR-5094
MEF2A	hsa-miR-3662
MEF2C	IL6
MEF2C	NFKB1
MEF2C	hsa-miR-142-3p
MEF2C	hsa-miR-663a
MEF2C	hsa-miR-5094

MEF2C	hsa-miR-1178-3p
MITF	HIF1A
MITF	NFKB1
MITF	PTGS2
MITF	STAT3
MITF	TP53
MITF	hsa-let-7a-5p
MITF	hsa-let-7b-5p
MITF	hsa-miR-101-3p
MITF	hsa-miR-1249-5p
MITF	hsa-miR-142-3p
MITF	hsa-miR-146a-5p
MITF	hsa-miR-185-5p
MITF	hsa-miR-193b-3p
MITF	hsa-miR-24-3p
MITF	hsa-miR-30d-5p
MITF	hsa-miR-34a-5p
MITF	hsa-miR-874-3p
MITF	hsa-miR-922
MITF	hsa-miR-92b-3p
MITF	hsa-miR-6875-3p
MITF	hsa-miR-4441
MITF	hsa-miR-4434
MITF	hsa-miR-3934-5p
MITF	hsa-miR-3074-3p
MITF	hsa-miR-296-3p
MITF	hsa-miR-26a-5p
MITF	hsa-miR-128-3p
MNT	HIF1A
MNT	PTGS2
MNT	SMAD3
MNT	STAT3
MNT	TGFB1
MNT	TP53
MNT	hsa-miR-7-5p
MNT	hsa-miR-6872-3p
MNT	hsa-miR-6835-5p
MNT	hsa-miR-6797-5p
MNT	hsa-miR-5703
MNT	hsa-miR-22-3p

MNT	hsa-miR-19a-3p
MNT	hsa-miR-18a-5p
MNT	hsa-miR-18a-3p
MNT	hsa-miR-17-5p
MNT	hsa-miR-130b-3p
MTA3	HIF1A
MTA3	IL10
MTA3	IL17A
MTA3	NFKB1
MTA3	STAT3
MTA3	TNF
MTA3	TP53
MTA3	hsa-miR-93-5p
MTA3	hsa-miR-6871-3p
MTA3	hsa-miR-6833-3p
MTA3	hsa-miR-6807-5p
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MTA3	hsa-miR-6797-5p
MTA3	hsa-miR-6752-5p
MTA3	hsa-miR-625-3p
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MTA3	hsa-miR-324-5p
MTA3	hsa-miR-324-3p
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MTA3	hsa-miR-21-5p
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MTA3	hsa-miR-106b-5p
MTA3	hsa-miR-106b-3p
MXD1	SMAD3
MXD1	STAT3
MXD1	TP53
MXD1	hsa-miR-5692a
MXD1	hsa-miR-4804-3p
MXD1	hsa-miR-3128
MXD1	hsa-miR-194-3p
MXD1	hsa-miR-16-5p
MXD1	hsa-miR-15b-5p

MXI1	HIF1A
MXI1	IL17A
MXI1	IL6
MXI1	NFKB1
MXI1	PTGS2
MXI1	SMAD3
MXI1	STAT3
MXI1	TGFB1
MXI1	TLR4
MXI1	TNF
MXI1	TP53
MXI1	hsa-miR-1181
MXI1	hsa-miR-124-3p
MXI1	hsa-miR-130a-3p
MXI1	hsa-miR-132-3p
MXI1	hsa-miR-1908-5p
MXI1	hsa-miR-22-3p
MXI1	hsa-miR-223-3p
MXI1	hsa-miR-320a
MXI1	hsa-miR-4470
MXI1	hsa-miR-449c-5p
MXI1	hsa-miR-4651
MXI1	hsa-miR-4738-3p
MXI1	hsa-miR-92b-3p
MXI1	hsa-miR-935
MXI1	hsa-miR-93-5p
MXI1	hsa-miR-92a-3p
MXI1	hsa-miR-92a-1-5p
MXI1	hsa-miR-8085
MXI1	hsa-miR-7-5p
MXI1	hsa-miR-6815-3p
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MXI1	hsa-miR-5197-5p
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MXI1	hsa-miR-4795-5p
MXI1	hsa-miR-4697-3p
MXI1	hsa-miR-4659a-3p
MXI1	hsa-miR-4441
MXI1	hsa-miR-4279

MXI1	hsa-miR-375
MXI1	hsa-miR-30c-5p
MXI1	hsa-miR-30b-5p
MXI1	hsa-miR-25-3p
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MXI1	hsa-miR-145-5p
MXI1	hsa-miR-142-3p
MXI1	hsa-miR-138-5p
MXI1	hsa-miR-1322
MXI1	hsa-miR-130b-3p
MXI1	hsa-miR-128-3p
MXI1	hsa-miR-1273f
MXI1	hsa-let-7a-5p
MYB	HIF1A
MYB	STAT3
MYB	hsa-miR-194-3p
MYB	hsa-let-7b-5p
MYBL1	STAT3
MYBL2	HIF1A
MYBL2	IL6
MYBL2	NFKB1
MYBL2	SMAD3
MYBL2	STAT3
MYBL2	TGFB1
MYBL2	TP53
MYBL2	hsa-miR-935
MYBL2	hsa-miR-7-5p
MYBL2	hsa-miR-6785-5p
MYBL2	hsa-miR-618
MYBL2	hsa-miR-5197-5p
MYBL2	hsa-miR-1273f
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MYC	HIF1A
MYC	IL6
MYC	NFKB1
MYC	PTGS2
MYC	STAT3
MYC	TGFB1
MYC	TP53
MYC	SMAD3
MYC	TLR4
MYC	TNF
MYC	hsa-let-7i-5p
MYC	hsa-miR-1181
MYC	hsa-miR-1207-5p
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MYC	hsa-miR-124-3p
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MYC	hsa-miR-155-5p
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MYC	hsa-miR-424-5p
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MYC	hsa-miR-4470
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MYC	hsa-miR-4736
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MYC	hsa-miR-509-5p
MYC	hsa-miR-663a
MYC	hsa-miR-7-5p
MYC	hsa-miR-744-5p
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MYC	hsa-miR-935
MYC	hsa-miR-93-5p
MYC	hsa-miR-92b-3p
MYC	hsa-miR-92a-3p
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MYC	hsa-miR-7150
MYC	hsa-miR-6875-3p
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MYC	hsa-miR-6809-3p
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MYC	hsa-miR-4659b-3p
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MYC	hsa-miR-4434
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MYC	hsa-miR-4286
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MYOD1	hsa-let-7b-5p
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NANOG	PTGS2
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NANOG	STAT3
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NANOG	hsa-miR-6751-5p
NANOG	hsa-miR-618
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NANOG	hsa-miR-5702
NANOG	hsa-miR-548n
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NANOG	hsa-miR-424-5p
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NANOG	hsa-miR-33a-5p
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NANOG	hsa-miR-10b-5p
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NCOR2	IL10
NCOR2	TLR4
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NFAT5	PTGS2
NFAT5	SMAD3
NFAT5	STAT3
NFAT5	TGFB1
NFAT5	TP53
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NFATC1	TGFB1
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NFATC1	hsa-miR-107
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NFE2L2	PTGS2
NFE2L2	SMAD3
NFE2L2	STAT3
NFE2L2	TP53
NFE2L2	hsa-miR-181c-5p
NFE2L2	hsa-miR-365a-3p
NFE2L2	hsa-miR-365a-5p
NFE2L2	hsa-miR-622
NFE2L2	hsa-miR-93-5p
NFE2L2	hsa-miR-6797-5p
NFE2L2	hsa-miR-4763-3p
NFE2L2	hsa-miR-3199
NFE2L2	hsa-miR-25-3p
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NFIC	HIF1A
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NFIC	NFKB1
NFIC	PTGS2
NFIC	SMAD3
NFIC	STAT3
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NFYA	HIF1A
NFYA	PTGS2
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NFYA	hsa-miR-18a-5p
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NFYB	HIF1A
NFYB	PTGS2
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NFYB	STAT3
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NFYB	hsa-miR-4736
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NFYB	hsa-miR-24-3p
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NFYB	hsa-miR-150-5p
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NKX2-1	HIF1A
NKX2-1	PTGS2
NKX2-1	STAT3
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PATZ1	hsa-miR-17-5p
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PPARG	hsa-miR-107
PPARG	hsa-miR-1-3p
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RCOR1	hsa-miR-223-3p
RCOR1	hsa-miR-199b-5p
RCOR1	hsa-miR-199a-5p
RCOR1	hsa-miR-199a-3p
RCOR1	hsa-miR-195-5p
RCOR1	hsa-miR-193b-3p
RCOR1	hsa-miR-181c-5p
RCOR1	hsa-miR-150-5p
RCOR1	hsa-miR-146b-5p
RCOR1	hsa-miR-146a-5p
RCOR1	hsa-miR-144-3p
RCOR1	hsa-miR-139-5p
RCOR1	hsa-miR-138-5p
RCOR1	hsa-miR-130a-3p
RCOR1	hsa-miR-1273f
RCOR1	hsa-miR-124-3p
RCOR1	hsa-miR-101-3p
RCOR1	hsa-let-7e-5p
RCOR1	hsa-let-7a-5p
RELA	HIF1A
RELA	IL10
RELA	NFKB1
RELA	PTGS2
RELA	SMAD3
RELA	STAT3
RELA	TGFB1
RELA	TLR4
RELA	TNF
RELA	TP53
RELA	IL17A
RELA	IL6
RELA	hsa-let-7i-5p
RELA	hsa-miR-1181
RELA	hsa-miR-1207-5p
RELA	hsa-miR-142-3p
RELA	hsa-miR-146a-5p
RELA	hsa-miR-155-5p
RELA	hsa-miR-1908-5p
RELA	hsa-miR-195-5p

RELA	hsa-miR-21-5p
RELA	hsa-miR-2110
RELA	hsa-miR-27a-3p
RELA	hsa-miR-320a
RELA	hsa-miR-365a-3p
RELA	hsa-miR-365a-5p
RELA	hsa-miR-4434
RELA	hsa-miR-4651
RELA	hsa-miR-4736
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RELA	hsa-miR-484
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RELA	hsa-miR-589-3p
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RELA	hsa-miR-4697-3p
RELA	hsa-miR-4531
RELA	hsa-miR-449c-5p
RELA	hsa-miR-4487
RELA	hsa-miR-4470
RELA	hsa-miR-3662
RELA	hsa-miR-3199

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RELA	hsa-miR-153-5p
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RELA	hsa-miR-138-5p
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RELA	hsa-miR-124-3p
REST	STAT3
REST	HIF1A
REST	IL6
REST	NFKB1
REST	SMAD3
REST	TP53
REST	PTGS2
REST	TGFB1
REST	TLR4
REST	TNF
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REST	hsa-miR-1181
REST	hsa-miR-1207-5p
REST	hsa-miR-124-3p
REST	hsa-miR-128-3p
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REST	hsa-miR-142-3p
REST	hsa-miR-17-5p
REST	hsa-miR-18a-3p
REST	hsa-miR-18a-5p
REST	hsa-miR-1908-5p

REST	hsa-miR-21-5p
REST	hsa-miR-22-3p
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REST	hsa-miR-4279
REST	hsa-miR-4470
REST	hsa-miR-4516
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REST	hsa-miR-935
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REST	hsa-miR-380-5p
REST	hsa-miR-375
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REST	hsa-miR-3199
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REST	hsa-miR-145-5p
REST	hsa-miR-144-3p
REST	hsa-miR-125b-5p
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RFX1	PTGS2
RFX1	SMAD3
RFX1	STAT3
RFX1	TGFB1
RFX1	TP53
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RFX1	hsa-miR-6893-5p
RFX1	hsa-miR-6751-5p

RFX1	hsa-miR-612
RFX1	hsa-miR-4763-3p
RFX1	hsa-miR-27a-3p
RFX1	hsa-miR-25-3p
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RFX1	hsa-miR-194-3p
RFX1	hsa-miR-106b-5p
RFX1	hsa-miR-106b-3p
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RFX2	SMAD3
RFX5	HIF1A
RFX5	IL6
RFX5	NFKB1
RFX5	PTGS2
RFX5	SMAD3
RFX5	STAT3
RFX5	TGFB1
RFX5	TP53
RFX5	hsa-let-7i-5p
RFX5	hsa-miR-107
RFX5	hsa-miR-1181
RFX5	hsa-miR-17-5p
RFX5	hsa-miR-1908-5p
RFX5	hsa-miR-2110
RFX5	hsa-miR-22-3p
RFX5	hsa-miR-320a
RFX5	hsa-miR-4470
RFX5	hsa-miR-4651
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RFX5	hsa-miR-92b-3p
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RFX5	hsa-miR-92a-1-5p
RFX5	hsa-miR-7-5p
RFX5	hsa-miR-6875-3p
RFX5	hsa-miR-6872-3p
RFX5	hsa-miR-6825-5p

RFX5	hsa-miR-6815-3p
RFX5	hsa-miR-6809-3p
RFX5	hsa-miR-6807-5p
RFX5	hsa-miR-6807-3p
RFX5	hsa-miR-6760-5p
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RFX5	hsa-miR-4795-5p
RFX5	hsa-miR-4736
RFX5	hsa-miR-4531
RFX5	hsa-miR-449c-5p
RFX5	hsa-miR-4434
RFX5	hsa-miR-4419a
RFX5	hsa-miR-4279
RFX5	hsa-miR-365a-5p
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RFX5	hsa-miR-3199
RFX5	hsa-miR-3128
RFX5	hsa-miR-30a-5p
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RFX5	hsa-miR-211-5p
RFX5	hsa-miR-210-3p
RFX5	hsa-miR-193b-3p
RFX5	hsa-miR-181c-5p
RFX5	hsa-miR-145-5p
RFX5	hsa-miR-138-5p
RFX5	hsa-miR-1273f
RFX5	hsa-miR-1264
RFX5	hsa-let-7c-5p
RUNX1	HIF1A
RUNX1	NFKB1
RUNX1	PTGS2
RUNX1	STAT3

RUNX1	TGFB1
RUNX1	TP53
RUNX1	hsa-let-7a-5p
RUNX1	hsa-miR-101-3p
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RUNX1	hsa-miR-424-5p
RUNX1	hsa-miR-612
RUNX1	hsa-miR-937-5p
RUNX1	hsa-miR-92a-3p
RUNX1	hsa-miR-92a-2-5p
RUNX1	hsa-miR-7158-5p
RUNX1	hsa-miR-6880-5p
RUNX1	hsa-miR-6871-3p
RUNX1	hsa-miR-6835-5p
RUNX1	hsa-miR-6780b-5p
RUNX1	hsa-miR-630
RUNX1	hsa-miR-5681b
RUNX1	hsa-miR-5681a
RUNX1	hsa-miR-548ah-5p
RUNX1	hsa-miR-5197-5p
RUNX1	hsa-miR-5193
RUNX1	hsa-miR-4804-3p
RUNX1	hsa-miR-4720-3p
RUNX1	hsa-miR-4487
RUNX1	hsa-miR-4290
RUNX1	hsa-miR-4279
RUNX1	hsa-miR-3934-5p
RUNX1	hsa-miR-365a-5p
RUNX1	hsa-miR-365a-3p
RUNX1	hsa-miR-3199

RUNX1	hsa-miR-27a-3p
RUNX1	hsa-miR-24-3p
RUNX1	hsa-miR-200a-3p
RUNX1	hsa-miR-199b-5p
RUNX1	hsa-miR-195-5p
RUNX1	hsa-miR-1909-3p
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RUNX1	hsa-miR-149-3p
RUNX1	hsa-miR-1288-5p
RUNX1	hsa-miR-128-3p
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RUNX3	IL17A
RUNX3	IL6
RUNX3	NFKB1
RUNX3	PTGS2
RUNX3	STAT3
RUNX3	TGFB1
RUNX3	TNF
RUNX3	TP53
RUNX3	hsa-miR-1322
RUNX3	hsa-miR-2110
RUNX3	hsa-miR-320a
RUNX3	hsa-miR-365a-3p
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RUNX3	hsa-miR-589-5p
RUNX3	hsa-miR-92b-3p
RUNX3	hsa-miR-9-5p
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RUNX3	hsa-miR-6871-3p
RUNX3	hsa-miR-6825-5p
RUNX3	hsa-miR-6760-5p
RUNX3	hsa-miR-625-3p
RUNX3	hsa-miR-612
RUNX3	hsa-miR-5703
RUNX3	hsa-miR-5193

RUNX3	hsa-miR-5094
RUNX3	hsa-miR-4799-5p
RUNX3	hsa-miR-4795-5p
RUNX3	hsa-miR-4659b-3p
RUNX3	hsa-miR-4659a-3p
RUNX3	hsa-miR-4531
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RUNX3	hsa-miR-4487
RUNX3	hsa-miR-4434
RUNX3	hsa-miR-4270
RUNX3	hsa-miR-3662
RUNX3	hsa-miR-3529-3p
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RUNX3	hsa-miR-124-3p
RUNX3	hsa-miR-1207-5p
RUNX3	hsa-let-7a-5p
RXRA	HIF1A
RXRA	PTGS2
RXRA	SMAD3
RXRA	STAT3
RXRA	TGFB1
RXRA	TLR4
RXRA	TP53
RXRA	hsa-let-7i-5p
RXRA	hsa-miR-142-3p
RXRA	hsa-miR-21-5p
RXRA	hsa-miR-4516

RXRA	hsa-miR-4651
RXRA	hsa-miR-4736
RXRA	hsa-miR-663a
RXRA	hsa-miR-7-5p
RXRA	hsa-miR-6880-5p
RXRA	hsa-miR-6722-3p
RXRA	hsa-miR-6511a-5p
RXRA	hsa-miR-4763-3p
RXRA	hsa-miR-375
RXRA	hsa-miR-30c-5p
RXRA	hsa-miR-26a-5p
RXRA	hsa-miR-22-3p
RXRA	hsa-miR-199a-5p
RXRA	hsa-miR-199a-3p
RXRA	hsa-miR-1288-5p
RXRA	hsa-miR-107
RXRA	hsa-let-7b-5p
SALL4	HIF1A
SALL4	SMAD3
SALL4	hsa-miR-9-5p
SALL4	hsa-miR-5095
SALL4	hsa-miR-128-3p
SETDB1	HIF1A
SETDB1	NFKB1
SETDB1	PTGS2
SETDB1	SMAD3
SETDB1	STAT3
SETDB1	TP53
SETDB1	hsa-let-7i-5p
SETDB1	hsa-miR-153-5p
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SETDB1	hsa-miR-17-5p
SETDB1	hsa-miR-18a-3p
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SETDB1	hsa-miR-4470
SETDB1	hsa-miR-663a
SETDB1	hsa-miR-9-5p
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SETDB1	hsa-miR-92a-1-5p
SETDB1	hsa-miR-922
SETDB1	hsa-miR-7-5p
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SETDB1	hsa-miR-4290
SETDB1	hsa-miR-4286
SETDB1	hsa-miR-3165
SETDB1	hsa-miR-29b-3p
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SETDB1	hsa-miR-181c-5p
SETDB1	hsa-miR-144-3p
SETDB1	hsa-miR-1207-5p
SETDB1	hsa-miR-1181
SIX5	SMAD3
SIX5	STAT3
SIX5	TGFB1
SIX5	TP53
SIX5	hsa-miR-320a
SIX5	hsa-miR-4516
SIX5	hsa-miR-4651
SIX5	hsa-miR-4738-3p
SIX5	hsa-miR-663a
SIX5	hsa-miR-6789-3p
SIX5	hsa-miR-5703
SIX5	hsa-miR-4795-5p
SIX5	hsa-miR-27a-3p
SIX5	hsa-miR-24-3p
SIX5	hsa-miR-22-3p
SIX5	hsa-miR-210-3p

SIX5	hsa-miR-1908-5p
SIX5	hsa-miR-150-5p
SIX5	hsa-miR-145-5p
SIX5	hsa-miR-142-3p
SMAD1	HIF1A
SMAD1	NFKB1
SMAD1	PTGS2
SMAD1	SMAD3
SMAD1	STAT3
SMAD1	TGFB1
SMAD1	TP53
SMAD1	hsa-miR-935
SMAD1	hsa-miR-92b-3p
SMAD1	hsa-miR-9-5p
SMAD1	hsa-miR-8085
SMAD1	hsa-miR-6875-3p
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SMAD1	hsa-miR-132-3p
SMAD1	hsa-miR-130b-3p
SMAD1	hsa-miR-124-3p
SMAD1	hsa-miR-1234-3p
SMAD1	hsa-miR-1207-5p
SMAD1	hsa-miR-1181
SMAD1	hsa-let-7i-5p
SMAD2	TGFB1
SMAD2	IL2
SMAD2	SMAD3
SMAD2	TNF
SMAD2	hsa-miR-98-5p
SMAD2	hsa-miR-744-5p
SMAD2	hsa-miR-7158-5p
SMAD2	hsa-miR-7150
SMAD2	hsa-miR-7113-5p
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SMAD2	hsa-miR-6845-3p
SMAD2	hsa-miR-6807-5p
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SMAD2	hsa-miR-6778-5p
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SMAD2	hsa-miR-6722-3p
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SMAD2	hsa-miR-630
SMAD2	hsa-miR-612
SMAD2	hsa-miR-605-5p
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SMAD2	hsa-miR-5702
SMAD2	hsa-miR-5581-3p
SMAD2	hsa-miR-519c-3p
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SMAD2	hsa-miR-4470
SMAD2	hsa-miR-4463
SMAD2	hsa-miR-4419a
SMAD2	hsa-miR-4418
SMAD2	hsa-miR-4290
SMAD2	hsa-miR-4286
SMAD2	hsa-miR-4282
SMAD2	hsa-miR-4270
SMAD2	hsa-miR-424-5p
SMAD2	hsa-miR-380-5p
SMAD2	hsa-miR-365a-5p
SMAD2	hsa-miR-365a-3p

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SMAD2	hsa-let-7a-5p
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SMAD4	SMAD3
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SMARCC1	hsa-miR-92b-3p
SMARCC1	hsa-miR-7113-5p
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SMARCC1	hsa-miR-145-5p
SMARCC1	hsa-miR-1273f
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SMARCC2	PTGS2
SMARCC2	STAT3
SMARCC2	TLR4
SMARCC2	TP53

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SMARCC2	hsa-miR-4738-3p
SMARCC2	hsa-miR-663a
SMARCC2	hsa-miR-7-5p
SMARCC2	hsa-miR-3165
SMARCC2	hsa-miR-181c-5p
SMARCC2	hsa-miR-130a-3p
SNAI2	PTGS2
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SNAI2	HIF1A
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SP2	hsa-miR-663a
SP3	STAT3
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SREBF1	hsa-miR-4659b-3p
SREBF1	hsa-miR-4659a-3p

SRF	PTGS2
SRF	STAT3
SRF	TP53
SRF	HIF1A
SRF	IL6
SRF	NFKB1
SRF	TGFB1
SRF	TNF
SRF	SMAD3
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SRF	hsa-miR-124-3p

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SRF	hsa-let-7i-5p
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STAT1	NFKB1
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STAT1	TP53
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TCF12	hsa-miR-589-5p
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TCF7L2	STAT3
TCF7L2	TGFB1
TCF7L2	TP53
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TCF7L2	hsa-miR-6789-3p
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USF2	hsa-miR-19b-3p
USF2	hsa-miR-19a-3p
USF2	hsa-miR-199b-5p
USF2	hsa-miR-1908-5p
USF2	hsa-miR-17-5p
USF2	hsa-miR-146b-5p
USF2	hsa-miR-1249-5p
USF2	hsa-miR-1207-5p
USF2	hsa-miR-106b-5p
USF2	hsa-miR-106b-3p
USF2	hsa-let-7b-5p
USF2	hsa-let-7a-5p

VDR	STAT3
VDR	TGFB1
VDR	TP53
VDR	TNF
VDR	HIF1A
VDR	hsa-let-7a-5p
VDR	hsa-miR-1207-5p
VDR	hsa-miR-1288-5p
VDR	hsa-miR-139-5p
VDR	hsa-miR-142-3p
VDR	hsa-miR-150-5p
VDR	hsa-miR-153-5p
VDR	hsa-miR-1908-5p
VDR	hsa-miR-1910-3p
VDR	hsa-miR-21-5p
VDR	hsa-miR-211-5p
VDR	hsa-miR-30d-5p
VDR	hsa-miR-7-5p
VDR	hsa-miR-92b-3p
VDR	hsa-miR-9-5p
VDR	hsa-miR-6872-3p
VDR	hsa-miR-6789-3p
VDR	hsa-miR-663a
VDR	hsa-miR-612
VDR	hsa-miR-5703
VDR	hsa-miR-4795-5p
VDR	hsa-miR-4763-3p
VDR	hsa-miR-4738-3p
VDR	hsa-miR-4651
VDR	hsa-miR-4434
VDR	hsa-miR-3662
VDR	hsa-miR-320a
VDR	hsa-miR-2110
VDR	hsa-miR-194-3p
VDR	hsa-miR-155-5p
VDR	hsa-let-7i-5p
VDR	hsa-let-7b-5p
VEZF1	PTGS2
VEZF1	SMAD3
VEZF1	STAT3

VEZF1	TP53
VEZF1	hsa-miR-92b-3p
VEZF1	hsa-miR-92a-3p
VEZF1	hsa-miR-92a-1-5p
VEZF1	hsa-miR-9-5p
VEZF1	hsa-miR-6789-3p
VEZF1	hsa-miR-484
VEZF1	hsa-miR-4651
VEZF1	hsa-miR-4434
VEZF1	hsa-miR-2110
VEZF1	hsa-miR-20a-5p
VEZF1	hsa-miR-203a-3p
VEZF1	hsa-miR-19b-3p
VEZF1	hsa-miR-19a-3p
VEZF1	hsa-miR-194-3p
VEZF1	hsa-miR-18a-5p
VEZF1	hsa-miR-18a-3p
VEZF1	hsa-miR-17-5p
VEZF1	hsa-miR-1181
WHSC1	HIF1A
WHSC1	NFKB1
WHSC1	STAT3
WHSC1	TP53
WHSC1	hsa-let-7a-5p
WHSC1	hsa-miR-101-3p
WHSC1	hsa-miR-146b-5p
WHSC1	hsa-miR-187-3p
WHSC1	hsa-miR-449c-5p
WHSC1	hsa-miR-4748
WHSC1	hsa-miR-622
WHSC1	hsa-miR-942-5p
WHSC1	hsa-miR-940
WHSC1	hsa-miR-922
WHSC1	hsa-miR-877-3p
WHSC1	hsa-miR-6807-5p
WHSC1	hsa-miR-6807-3p
WHSC1	hsa-miR-6797-5p
WHSC1	hsa-miR-6778-5p
WHSC1	hsa-miR-6751-5p
WHSC1	hsa-miR-625-3p

WHSC1	hsa-miR-5089-3p
WHSC1	hsa-miR-4728-5p
WHSC1	hsa-miR-4659b-3p
WHSC1	hsa-miR-4659a-3p
WHSC1	hsa-miR-4487
WHSC1	hsa-miR-3658
WHSC1	hsa-miR-335-5p
WHSC1	hsa-miR-3199
WHSC1	hsa-miR-3128
WHSC1	hsa-miR-30b-5p
WHSC1	hsa-miR-3074-3p
WHSC1	hsa-miR-27a-3p
WHSC1	hsa-miR-24-3p
WHSC1	hsa-miR-195-5p
WHSC1	hsa-miR-151a-3p
WHSC1	hsa-miR-144-3p
WHSC1	hsa-miR-1285-3p
WHSC1	hsa-miR-128-3p
WHSC1	hsa-miR-1273f
WIZ	IL6
WIZ	hsa-miR-630
WIZ	hsa-miR-452-5p
XBP1	HIF1A
XBP1	STAT3
XBP1	TP53
XBP1	hsa-miR-6845-3p
XBP1	hsa-miR-589-5p
XBP1	hsa-miR-589-3p
XBP1	hsa-miR-4470
XBP1	hsa-miR-4279
XBP1	hsa-miR-3165
XBP1	hsa-miR-199a-5p
XBP1	hsa-miR-199a-3p
XBP1	hsa-miR-1207-5p
XBP1	hsa-let-7i-5p
YY1	HIF1A
YY1	IL6
YY1	NFKB1
YY1	PTGS2
YY1	SMAD3

YY1	STAT3
YY1	TGFB1
YY1	TNF
YY1	TP53
YY1	hsa-miR-1181
YY1	hsa-miR-1234-3p
YY1	hsa-miR-124-3p
YY1	hsa-miR-144-3p
YY1	hsa-miR-199b-5p
YY1	hsa-miR-2110
YY1	hsa-miR-24-3p
YY1	hsa-miR-320a
YY1	hsa-miR-4470
YY1	hsa-miR-484
YY1	hsa-miR-589-3p
YY1	hsa-miR-589-5p
YY1	hsa-miR-608
YY1	hsa-miR-937-5p
YY1	hsa-miR-942-5p
YY1	hsa-miR-935
YY1	hsa-miR-93-5p
YY1	hsa-miR-92b-3p
YY1	hsa-miR-9-5p
YY1	hsa-miR-889-3p
YY1	hsa-miR-8085
YY1	hsa-miR-7150
YY1	hsa-miR-7113-5p
YY1	hsa-miR-7110-5p
YY1	hsa-miR-7110-3p
YY1	hsa-miR-7-5p
YY1	hsa-miR-6893-5p
YY1	hsa-miR-6875-3p
YY1	hsa-miR-6872-3p
YY1	hsa-miR-6842-5p
YY1	hsa-miR-6825-5p
YY1	hsa-miR-6815-3p
YY1	hsa-miR-6808-5p
YY1	hsa-miR-6806-5p
YY1	hsa-miR-6803-5p
YY1	hsa-miR-6789-3p

YY1	hsa-miR-6766-5p
YY1	hsa-miR-6760-5p
YY1	hsa-miR-6754-5p
YY1	hsa-miR-6752-5p
YY1	hsa-miR-6749-3p
YY1	hsa-miR-6722-3p
YY1	hsa-miR-663a
YY1	hsa-miR-622
YY1	hsa-miR-618
YY1	hsa-miR-5703
YY1	hsa-miR-5702
YY1	hsa-miR-5693
YY1	hsa-miR-5681b
YY1	hsa-miR-5681a
YY1	hsa-miR-5193
YY1	hsa-miR-485-5p
YY1	hsa-miR-4795-5p
YY1	hsa-miR-4748
YY1	hsa-miR-4738-3p
YY1	hsa-miR-4736
YY1	hsa-miR-4728-5p
YY1	hsa-miR-4697-3p
YY1	hsa-miR-4684-5p
YY1	hsa-miR-4682
YY1	hsa-miR-4659b-3p
YY1	hsa-miR-4651
YY1	hsa-miR-4531
YY1	hsa-miR-4510
YY1	hsa-miR-449c-5p
YY1	hsa-miR-4487
YY1	hsa-miR-4418
YY1	hsa-miR-4306
YY1	hsa-miR-4290
YY1	hsa-miR-4286
YY1	hsa-miR-4279
YY1	hsa-miR-424-5p
YY1	hsa-miR-3934-5p
YY1	hsa-miR-380-5p
YY1	hsa-miR-375
YY1	hsa-miR-371b-3p

YY1	hsa-miR-365a-5p
YY1	hsa-miR-365a-3p
YY1	hsa-miR-3658
YY1	hsa-miR-34b-5p
YY1	hsa-miR-33a-5p
YY1	hsa-miR-329-5p
YY1	hsa-miR-324-5p
YY1	hsa-miR-324-3p
YY1	hsa-miR-3199
YY1	hsa-miR-3165
YY1	hsa-miR-30c-5p
YY1	hsa-miR-3074-3p
YY1	hsa-miR-299-5p
YY1	hsa-miR-27a-3p
YY1	hsa-miR-26b-5p
YY1	hsa-miR-26a-5p
YY1	hsa-miR-2682-5p
YY1	hsa-miR-25-3p
YY1	hsa-miR-22-3p
YY1	hsa-miR-211-5p
YY1	hsa-miR-210-3p
YY1	hsa-miR-21-5p
YY1	hsa-miR-203a-3p
YY1	hsa-miR-200a-3p
YY1	hsa-miR-199a-5p
YY1	hsa-miR-199a-3p
YY1	hsa-miR-195-5p
YY1	hsa-miR-194-3p
YY1	hsa-miR-193b-3p
YY1	hsa-miR-1910-3p
YY1	hsa-miR-1908-5p
YY1	hsa-miR-185-5p
YY1	hsa-miR-155-5p
YY1	hsa-miR-153-5p
YY1	hsa-miR-149-5p
YY1	hsa-miR-149-3p
YY1	hsa-miR-146b-5p
YY1	hsa-miR-145-5p
YY1	hsa-miR-143-3p
YY1	hsa-miR-142-3p

YY1	hsa-miR-138-5p
YY1	hsa-miR-137
YY1	hsa-miR-1322
YY1	hsa-miR-132-3p
YY1	hsa-miR-130b-3p
YY1	hsa-miR-1249-5p
YY1	hsa-miR-1207-5p
YY1	hsa-miR-106b-5p
YY1	hsa-miR-106b-3p
YY1	hsa-miR-101-3p
YY1	hsa-let-7i-5p
YY1	hsa-let-7a-5p
ZBED4	HIF1A
ZBED4	SMAD3
ZBED4	STAT3
ZBED4	hsa-miR-6797-5p
ZBED4	hsa-miR-6778-5p
ZBTB4	TGFB1
ZBTB7A	HIF1A
ZBTB7A	NFKB1
ZBTB7A	SMAD3
ZBTB7A	STAT3
ZBTB7A	TGFB1
ZBTB7A	hsa-miR-210-3p
ZBTB7A	hsa-miR-2110
ZBTB7A	hsa-miR-320a
ZBTB7A	hsa-miR-663a
ZBTB7A	hsa-miR-92b-3p
ZBTB7A	hsa-miR-9-5p
ZBTB7A	hsa-miR-8085
ZBTB7A	hsa-miR-7-5p
ZBTB7A	hsa-miR-6872-3p
ZBTB7A	hsa-miR-6833-3p
ZBTB7A	hsa-miR-6809-3p
ZBTB7A	hsa-miR-6760-5p
ZBTB7A	hsa-miR-612
ZBTB7A	hsa-miR-5193
ZBTB7A	hsa-miR-4795-5p
ZBTB7A	hsa-miR-4736
ZBTB7A	hsa-miR-4531

ZBTB7A	hsa-miR-449c-5p
ZBTB7A	hsa-miR-4487
ZBTB7A	hsa-miR-4470
ZBTB7A	hsa-miR-4434
ZBTB7A	hsa-miR-34b-5p
ZBTB7A	hsa-miR-200a-3p
ZBTB7A	hsa-miR-199b-5p
ZBTB7A	hsa-miR-195-5p
ZBTB7A	hsa-miR-193b-3p
ZBTB7A	hsa-miR-181c-5p
ZBTB7A	hsa-miR-150-5p
ZBTB7A	hsa-miR-146b-5p
ZBTB7A	hsa-miR-145-5p
ZBTB7A	hsa-miR-144-3p
ZBTB7A	hsa-miR-143-3p
ZBTB7A	hsa-miR-142-3p
ZBTB7A	hsa-miR-138-5p
ZBTB7A	hsa-miR-125a-5p
ZBTB7A	hsa-miR-1234-3p
ZBTB7A	hsa-miR-1207-5p
ZBTB7A	hsa-let-7e-5p
ZBTB7A	hsa-let-7a-5p
ZEB1	HIF1A
ZEB1	NFKB1
ZEB1	PTGS2
ZEB1	SMAD3
ZEB1	STAT3
ZEB1	TGFB1
ZEB1	TNF
ZEB1	TP53
ZEB1	hsa-miR-142-3p
ZEB1	hsa-miR-2110
ZEB1	hsa-miR-320a
ZEB1	hsa-miR-6872-3p
ZEB1	hsa-miR-6749-3p
ZEB1	hsa-miR-589-5p
ZEB1	hsa-miR-589-3p
ZEB1	hsa-miR-5193
ZEB1	hsa-miR-4531
ZEB1	hsa-miR-150-5p

ZEB1	hsa-miR-139-5p
ZFHX3	PTGS2
ZFHX3	TP53
ZFP42	HIF1A
ZFP42	STAT3
ZFP42	TGFB1
ZFP42	TP53
ZFP42	hsa-miR-9-5p
ZFP42	hsa-miR-4271
ZFP42	hsa-miR-1234-3p
ZFX	HIF1A
ZFX	NFKB1
ZFX	TP53
ZFX	hsa-miR-942-5p
ZFX	hsa-miR-27a-3p
ZFX	hsa-miR-24-3p
ZFX	hsa-miR-199a-5p
ZFX	hsa-miR-199a-3p
ZKSCAN1	HIF1A
ZKSCAN1	PTGS2
ZKSCAN1	SMAD3
ZKSCAN1	STAT3
ZKSCAN1	TP53
ZKSCAN1	hsa-miR-132-3p
ZKSCAN1	hsa-miR-1908-5p
ZKSCAN1	hsa-miR-22-3p
ZKSCAN1	hsa-miR-31-5p
ZMIZ1	HIF1A
ZMIZ1	IL6
ZMIZ1	NFKB1
ZMIZ1	SMAD3
ZMIZ1	STAT3
ZMIZ1	TGFB1
ZMIZ1	TP53
ZMIZ1	hsa-miR-106b-3p
ZMIZ1	hsa-miR-106b-5p
ZMIZ1	hsa-miR-1181
ZMIZ1	hsa-miR-320a
ZMIZ1	hsa-miR-6835-5p
ZMIZ1	hsa-miR-5193

ZMIZ1	hsa-miR-424-5p
ZMIZ1	hsa-miR-30b-5p
ZNF143	HIF1A
ZNF143	IL6
ZNF143	NFKB1
ZNF143	PTGS2
ZNF143	SMAD3
ZNF143	STAT3
ZNF143	TGFB1
ZNF143	TNF
ZNF143	TP53
ZNF143	hsa-miR-1207-5p
ZNF143	hsa-miR-130a-3p
ZNF143	hsa-miR-132-3p
ZNF143	hsa-miR-143-3p
ZNF143	hsa-miR-145-5p
ZNF143	hsa-miR-155-5p
ZNF143	hsa-miR-1908-5p
ZNF143	hsa-miR-193b-3p
ZNF143	hsa-miR-2110
ZNF143	hsa-miR-22-3p
ZNF143	hsa-miR-4470
ZNF143	hsa-miR-484
ZNF143	hsa-miR-9-5p
ZNF143	hsa-miR-935
ZNF143	hsa-miR-8085
ZNF143	hsa-miR-7151-3p
ZNF143	hsa-miR-7110-5p
ZNF143	hsa-miR-7110-3p
ZNF143	hsa-miR-7-5p
ZNF143	hsa-miR-6809-3p
ZNF143	hsa-miR-6785-5p
ZNF143	hsa-miR-6760-5p
ZNF143	hsa-miR-625-3p
ZNF143	hsa-miR-618
ZNF143	hsa-miR-589-5p
ZNF143	hsa-miR-589-3p
ZNF143	hsa-miR-5196-3p
ZNF143	hsa-miR-4736
ZNF143	hsa-miR-4697-3p

ZNF143	hsa-miR-4290
ZNF143	hsa-miR-4279
ZNF143	hsa-miR-3662
ZNF143	hsa-miR-3529-3p
ZNF143	hsa-miR-324-5p
ZNF143	hsa-miR-324-3p
ZNF143	hsa-miR-30e-5p
ZNF143	hsa-miR-222-3p
ZNF143	hsa-miR-195-5p
ZNF143	hsa-miR-1468-3p
ZNF143	hsa-miR-1322
ZNF143	hsa-miR-128-3p
ZNF143	hsa-miR-1249-5p
ZNF143	hsa-miR-124-3p
ZNF143	hsa-let-7a-5p
ZNF217	NFKB1
ZNF217	SMAD3
ZNF217	hsa-let-7e-5p
ZNF217	hsa-miR-155-5p
ZNF217	hsa-miR-21-5p
ZNF217	hsa-miR-211-5p
ZNF217	hsa-miR-24-3p
ZNF217	hsa-miR-27a-3p
ZNF217	hsa-miR-365a-3p
ZNF217	hsa-miR-365a-5p
ZNF217	hsa-miR-4698
ZNF217	hsa-miR-4738-3p
ZNF217	hsa-miR-92b-3p
ZNF217	hsa-miR-937-5p
ZNF217	hsa-miR-4799-5p
ZNF250	HIF1A
ZNF250	IL6
ZNF250	PTGS2
ZNF250	SMAD3
ZNF250	STAT3
ZNF250	TP53
ZNF250	hsa-miR-1273f
ZNF250	hsa-miR-1178-3p
ZNF263	HIF1A
ZNF263	SMAD3

ZNF263	STAT3
ZNF263	TGFB1
ZNF263	FOXP3
ZNF263	IL6
ZNF263	NFKB1
ZNF263	PTGS2
ZNF263	TP53
ZNF263	hsa-let-7e-5p
ZNF263	hsa-miR-106b-3p
ZNF263	hsa-miR-106b-5p
ZNF263	hsa-miR-1249-5p
ZNF263	hsa-miR-125a-5p
ZNF263	hsa-miR-142-3p
ZNF263	hsa-miR-17-5p
ZNF263	hsa-miR-18a-3p
ZNF263	hsa-miR-18a-5p
ZNF263	hsa-miR-19a-3p
ZNF263	hsa-miR-20a-5p
ZNF263	hsa-miR-2110
ZNF263	hsa-miR-320a
ZNF263	hsa-miR-663a
ZNF263	hsa-miR-93-5p
ZNF263	hsa-miR-9-5p
ZNF263	hsa-miR-8085
ZNF263	hsa-miR-6882-5p
ZNF263	hsa-miR-6845-3p
ZNF263	hsa-miR-6808-5p
ZNF263	hsa-miR-6797-5p
ZNF263	hsa-miR-6785-5p
ZNF263	hsa-miR-4728-5p
ZNF263	hsa-miR-3934-5p
ZNF263	hsa-miR-3199
ZNF263	hsa-miR-26b-5p
ZNF263	hsa-miR-26a-5p
ZNF263	hsa-miR-25-3p
ZNF263	hsa-miR-150-5p
ZNF263	hsa-miR-139-5p
ZNF263	hsa-miR-124-3p
ZNF384	FOXP3
ZNF384	HIF1A

ZNF384	STAT3
ZNF384	TGFB1
ZNF384	TNF
ZNF384	TP53
ZNF384	hsa-miR-2110
ZNF384	hsa-miR-22-3p
ZNF384	hsa-miR-320a
ZNF384	hsa-miR-4470
ZNF384	hsa-miR-449c-5p
ZNF384	hsa-miR-484
ZNF384	hsa-miR-9-5p
ZNF384	hsa-miR-7-5p
ZNF384	hsa-miR-6833-3p
ZNF384	hsa-miR-6815-3p
ZNF384	hsa-miR-5196-3p
ZNF384	hsa-miR-5094
ZNF384	hsa-miR-504-5p
ZNF384	hsa-miR-4650-5p
ZNF384	hsa-miR-4531
ZNF384	hsa-miR-4487
ZNF384	hsa-miR-4270
ZNF384	hsa-miR-3165
ZNF384	hsa-miR-3128
ZNF384	hsa-miR-30e-5p
ZNF384	hsa-miR-27a-3p
ZNF384	hsa-miR-24-3p
ZNF384	hsa-miR-199b-5p
ZNF384	hsa-miR-193b-3p
ZNF384	hsa-miR-155-5p
ZNF384	hsa-miR-144-3p
ZNF384	hsa-miR-143-3p
ZNF384	hsa-miR-142-3p
ZNF384	hsa-miR-138-5p
ZNF384	hsa-miR-130a-3p
ZNF384	hsa-miR-1285-3p
ZNF384	hsa-miR-1273f
ZNF384	hsa-miR-124-3p
ZNF384	hsa-miR-1207-5p
ZNF384	hsa-miR-101-3p
ZNF407	IL6

ZNF407	SMAD3
ZNF407	STAT3
ZNF407	TP53
ZNF552	TGFB1
ZNF552	hsa-miR-940
ZNF552	hsa-miR-937-5p
ZNF552	hsa-miR-935
ZNF552	hsa-miR-8085
ZNF552	hsa-miR-6893-5p
ZNF552	hsa-miR-6845-3p
ZNF552	hsa-miR-6808-5p
ZNF552	hsa-miR-6807-5p
ZNF552	hsa-miR-6807-3p
ZNF552	hsa-miR-6749-3p
ZNF552	hsa-miR-6511a-5p
ZNF552	hsa-miR-5193
ZNF552	hsa-miR-484
ZNF552	hsa-miR-449c-5p
ZNF552	hsa-miR-4487
ZNF552	hsa-miR-365a-5p
ZNF552	hsa-miR-365a-3p
ZNF552	hsa-miR-2682-5p
ZNF552	hsa-miR-210-3p
ZNF552	hsa-miR-203a-3p
ZNF552	hsa-miR-200a-3p
ZNF552	hsa-miR-199b-5p
ZNF552	hsa-miR-193b-3p
ZNF552	hsa-miR-1909-3p
ZNF552	hsa-miR-150-5p
ZNF552	hsa-miR-149-5p
ZNF552	hsa-miR-149-3p
ZNF552	hsa-miR-146b-5p
ZNF552	hsa-miR-142-3p
ZNF552	hsa-miR-139-5p
ZNF552	hsa-miR-137
ZNF552	hsa-miR-132-3p
ZNF552	hsa-miR-124-3p
ZNF83	HIF1A
ZNF83	STAT3
ZNF83	hsa-miR-6875-3p

ZNF83

hsa-miR-4799-5p

ZNF83

hsa-miR-1249-5p

Supplemental Table 6: Transcription factors and miRNAs feed forward loops. This table shows transcription factors feed forward loops, miRNAs feed forward loops and transcription factors-miRNAs composite feed forward loops. In TF FFLs, TFs regulate miRNAs, TFs regulate subcore genes and miRNAs regulate subcore genes, while miRNAs do not regulate subcore genes. In miRNAs FFLs, miRNAs regulate TFs, miRNAs regulate subcore genes and TFs regulate subcore genes, while TFs do not regulate miRNAs. In TF-miRNA composite FFL, both TFs and miRNAs regulate each other and subcore genes.

Transcription factor FFL			miRNA FFL			TF-miRNA composite FFL		
TF	miRNAs	Subcore genes	miRNAs	TF	Subcore genes	TF	miRNAs	Subcore genes
AFF1	hsa-miR-199a-5p	NFKB1	hsa-let-7a-5p	AHR	IL6	AR	hsa-miR-124-3p	IL6
AFF1	hsa-miR-199a-5p	HIF1A	hsa-let-7a-5p	E2F2	PTGS2	AR	hsa-miR-124-3p	STAT3
AR	hsa-miR-3165	TP53	hsa-let-7a-5p	E2F1	PTGS2	AR	hsa-miR-491-5p	TP53
AR	hsa-miR-26a-5p	IL6	hsa-let-7a-5p	E2F1	NFKB1	AR	hsa-miR-491-5p	SMAD3
AR	hsa-miR-203a-3p	IL6	hsa-let-7a-5p	E2F6	IL6	AR	hsa-miR-92a-2-5p	TP53
AR	hsa-miR-210-3p	NFKB1	hsa-let-7a-5p	E2F6	PTGS2	AR	hsa-miR-6511a-5p	HIF1A
AR	hsa-miR-210-3p	HIF1A	hsa-let-7a-5p	E2F6	NFKB1	AR	hsa-miR-5193	TP53
AR	hsa-miR-150-5p	TP53	hsa-let-7a-5p	BACH1	IL6	AR	hsa-miR-6809-3p	STAT3
AR	hsa-miR-365a-3p	IL6	hsa-let-7a-5p	BACH1	PTGS2	AR	hsa-let-7b-5p	TLR4
AR	hsa-miR-130b-3p	STAT3	hsa-let-7a-5p	BACH1	NFKB1	AR	hsa-let-7b-5p	HIF1A
AR	hsa-miR-877-3p	STAT3	hsa-let-7a-5p	PRDM1	IL6	AR	hsa-miR-4725-3p	TP53
AR	hsa-miR-143-3p	SMAD3	hsa-let-7a-5p	HAND1	NFKB1	ARID3A	hsa-miR-30b-5p	TP53
AR	hsa-miR-149-3p	TP53	hsa-let-7b-5p	SMARCC2	PTGS2	ARID3A	hsa-let-7a-5p	IL6
AR	hsa-miR-22-3p	HIF1A	hsa-let-7b-5p	SMARCC2	TLR4	ARID3A	hsa-let-7a-5p	NFKB1
AR	hsa-miR-622	TP53	hsa-let-7b-5p	SMARCC2	HIF1A	ATF2	hsa-miR-19b-3p	TGFB1
AR	hsa-miR-6722-3p	TP53	hsa-let-7b-5p	NFATC1	HIF1A	ATF2	hsa-miR-19b-3p	TP53
AR	hsa-miR-4470	HIF1A	hsa-let-7b-5p	SMARCC1	PTGS2	BCL6	hsa-miR-9-5p	NFKB1
AR	hsa-miR-4282	HIF1A	hsa-let-7b-5p	SMARCC1	TLR4	BCL6	hsa-miR-30b-5p	TP53
AR	hsa-miR-6845-3p	STAT3	hsa-let-7b-5p	SMARCC1	HIF1A	BCL6	hsa-miR-124-3p	IL6
AR	hsa-miR-146b-5p	NFKB1	hsa-let-7b-5p	HIF1A	PTGS2	BCL6	hsa-miR-124-3p	STAT3
AR	hsa-miR-146b-5p	TLR4	hsa-let-7b-5p	HAND1	HIF1A	BCLAF1	hsa-miR-142-3p	IL6
AR	hsa-miR-92a-3p	NFKB1	hsa-let-7b-5p	BACH1	PTGS2	BHLHE40	hsa-miR-195-5p	SMAD3
AR	hsa-miR-18b-5p	HIF1A	hsa-let-7b-5p	BACH1	HIF1A	CDX2	hsa-miR-9-5p	NFKB1
AR	hsa-miR-8055	HIF1A	hsa-let-7b-5p	MYC	PTGS2	CEBPA	hsa-miR-744-5p	PTGS2

AR	hsa-miR-324-3p	TGFB1	hsa-let-7b-5p	MYC	TLR4	CEBPB	hsa-miR-663a	TGFB1
AR	hsa-miR-30d-5p	TP53	hsa-let-7b-5p	MYC	HIF1A	CEBPB	hsa-miR-155-5p	IL6
AR	hsa-miR-5681a	STAT3	hsa-let-7b-5p	E2F7	PTGS2	CEBPB	hsa-miR-155-5p	NFKB1
AR	hsa-miR-5681b	HIF1A	hsa-let-7b-5p	E2F7	HIF1A	CEBPB	hsa-miR-155-5p	IL2
AR	hsa-let-7i-5p	TLR4	hsa-let-7b-5p	SP1	PTGS2	CEBPB	hsa-miR-155-5p	SMAD3
AR	hsa-miR-6755-5p	HIF1A	hsa-let-7b-5p	SP1	HIF1A	CLOCK	hsa-miR-19a-3p	TP53
AR	hsa-miR-92b-3p	SMAD3	hsa-let-7b-5p	CUX1	TLR4	CREB1	hsa-miR-9-5p	NFKB1
AR	hsa-miR-106b-5p	STAT3	hsa-let-7b-5p	CUX1	HIF1A	CREB1	hsa-miR-93-5p	TGFB1
AR	hsa-miR-106b-5p	HIF1A	hsa-let-7b-5p	ARID3A	HIF1A	CREB1	hsa-miR-93-5p	STAT3
AR	hsa-miR-3662	HIF1A	hsa-let-7b-5p	E2F6	PTGS2	CREB1	hsa-miR-93-5p	HIF1A
AR	hsa-miR-199b-5p	HIF1A	hsa-let-7b-5p	E2F6	HIF1A	CREB1	hsa-miR-106b-5p	STAT3
AR	hsa-miR-365b-5p	STAT3	hsa-let-7b-5p	E2F3	HIF1A	CREB1	hsa-miR-106b-5p	HIF1A
AR	hsa-miR-92a-1-5p	TP53	hsa-let-7b-5p	PRDM1	HIF1A	CTCF	hsa-miR-24-3p	TGFB1
AR	hsa-miR-18a-3p	SMAD3	hsa-let-7b-5p	ELK4	PTGS2	CTCF	hsa-miR-1322	HIF1A
AR	hsa-miR-7110-3p	STAT3	hsa-let-7b-5p	ELK4	TLR4	CTCF	hsa-let-7b-5p	PTGS2
AR	hsa-miR-4799-5p	HIF1A	hsa-let-7b-5p	HES1	HIF1A	CTCF	hsa-let-7b-5p	TLR4
AR	hsa-miR-4685-5p	STAT3	hsa-let-7c-5p	HSF1	IL10	CTCF	hsa-let-7b-5p	HIF1A
AR	hsa-miR-365a-5p	STAT3	hsa-let-7c-5p	SMARCC1	PTGS2	CTCF	hsa-miR-3662	HIF1A
AR	hsa-miR-6754-5p	STAT3	hsa-let-7c-5p	FOXO3	PTGS2	CUX1	hsa-miR-155-5p	IL6
AR	hsa-miR-15b-5p	SMAD3	hsa-let-7c-5p	CEBPB	IL6	CUX1	hsa-miR-155-5p	NFKB1
AR	hsa-miR-7-5p	TLR4	hsa-let-7c-5p	CEBPB	PTGS2	CUX1	hsa-miR-155-5p	SMAD3
AR	hsa-miR-3658	TLR4	hsa-let-7c-5p	CEBPB	IL10	E2F2	hsa-miR-22-3p	HIF1A
AR	hsa-miR-155-5p	IL6	hsa-let-7c-5p	AHR	IL6	E2F3	hsa-miR-106b-5p	HIF1A
AR	hsa-miR-155-5p	NFKB1	hsa-let-7c-5p	BACH1	IL6	E2F3	hsa-miR-93-5p	HIF1A
AR	hsa-miR-155-5p	SMAD3	hsa-let-7c-5p	BACH1	PTGS2	E2F4	hsa-miR-124-3p	IL6
AR	hsa-miR-5692a	HIF1A	hsa-let-7c-5p	USF2	PTGS2	E2F4	hsa-miR-124-3p	PTGS2
AR	hsa-miR-4499	HIF1A	hsa-let-7c-5p	MYC	IL6	E2F4	hsa-miR-124-3p	STAT3
AR	hsa-miR-4738-3p	TLR4	hsa-let-7c-5p	MYC	PTGS2	E2F6	hsa-miR-124-3p	IL6
AR	hsa-miR-6871-3p	STAT3	hsa-let-7c-5p	SETDB1	PTGS2	E2F6	hsa-miR-124-3p	PTGS2
AR	hsa-miR-93-5p	TGFB1	hsa-let-7c-5p	ARID3A	IL6	E2F6	hsa-miR-124-3p	STAT3
AR	hsa-miR-93-5p	STAT3	hsa-let-7c-5p	E2F6	IL6	EGR1	hsa-miR-124-3p	PTGS2
AR	hsa-miR-93-5p	HIF1A	hsa-let-7c-5p	E2F6	PTGS2	EGR1	hsa-miR-124-3p	STAT3
AR	hsa-miR-5702	TP53	hsa-let-7c-5p	SPDEF	PTGS2	ELK1	hsa-miR-150-5p	TP53
AR	hsa-miR-8071	TP53	hsa-let-7c-5p	MEF2C	IL6	ESR1	hsa-miR-130b-3p	STAT3
AR	hsa-miR-4290	SMAD3	hsa-let-7c-5p	SREBF1	PTGS2	ESR1	hsa-miR-18a-5p	TP53
AR	hsa-miR-6893-5p	HIF1A	hsa-let-7e-5p	ARID3A	STAT3	ESR1	hsa-miR-18a-5p	HIF1A

AR	hsa-miR-337-3p	STAT3	hsa-let-7e-5p	TCF4	STAT3	ESR1	hsa-miR-9-5p	NFKB1
AR	hsa-miR-663a	TGFB1	hsa-let-7e-5p	STAT2	STAT3	ESR1	hsa-miR-19a-3p	TP53
AR	hsa-miR-6789-3p	STAT3	hsa-let-7e-5p	E2F6	STAT3	ESR1	hsa-miR-22-3p	HIF1A
AR	hsa-miR-6875-3p	STAT3	hsa-let-7e-5p	BACH1	STAT3	ESR1	hsa-miR-19b-3p	TGFB1
AR	hsa-miR-138-5p	HIF1A	hsa-let-7e-5p	SREBF1	STAT3	ESR1	hsa-miR-19b-3p	TP53
AR	hsa-miR-19b-3p	TGFB1	hsa-let-7e-5p	MYC	STAT3	ETS1	hsa-miR-9-5p	NFKB1
AR	hsa-miR-19b-3p	TP53	hsa-let-7e-5p	MXD1	STAT3	ETS1	hsa-miR-193b-3p	SMAD3
AR	hsa-miR-633	TGFB1	hsa-miR-100-5p	ESR1	PTGS2	ETS1	hsa-miR-145-5p	SMAD3
AR	hsa-miR-26b-5p	NFKB1	hsa-miR-100-5p	EGR2	PTGS2	ETS1	hsa-miR-155-5p	NFKB1
AR	hsa-miR-18a-5p	TP53	hsa-miR-100-5p	HOXA1	PTGS2	ETS1	hsa-miR-155-5p	SMAD3
AR	hsa-miR-18a-5p	HIF1A	hsa-miR-100-5p	PATZ1	PTGS2	FOS	hsa-miR-6872-3p	STAT3
AR	hsa-miR-18a-5p	SMAD3	hsa-miR-101-3p	FOS	PTGS2	FOS	hsa-miR-4438	STAT3
AR	hsa-miR-9-5p	NFKB1	hsa-miR-101-3p	JUN	PTGS2	FOS	hsa-miR-155-5p	IL6
AR	hsa-miR-371b-3p	STAT3	hsa-miR-101-3p	NR2F2	PTGS2	FOS	hsa-miR-155-5p	NFKB1
AR	hsa-miR-6808-5p	HIF1A	hsa-miR-101-3p	GMEB2	PTGS2	FOSL2	hsa-miR-24-3p	TGFB1
AR	hsa-miR-16-5p	NFKB1	hsa-miR-101-3p	ZEB1	PTGS2	FOXA1	hsa-miR-30d-5p	TP53
AR	hsa-miR-16-5p	TP53	hsa-miR-106a-3p	GATA6	HIF1A	FOXA1	hsa-miR-30e-5p	TP53
AR	hsa-miR-16-5p	SMAD3	hsa-miR-106a-5p	SMAD4	TP53	FOXA1	hsa-let-7a-5p	IL6
AR	hsa-miR-6760-5p	TP53	hsa-miR-106a-5p	ELK4	TP53	FOXA1	hsa-let-7a-5p	NFKB1
AR	hsa-miR-5197-5p	TP53	hsa-miR-106a-5p	SP4	TP53	FOXA1	hsa-miR-30b-5p	TP53
AR	hsa-miR-19a-3p	TP53	hsa-miR-106a-5p	CREB1	TP53	FOXP1	hsa-miR-19a-3p	TP53
AR	hsa-miR-4742-3p	TLR4	hsa-miR-106a-5p	SPIB	IL10	FOXP1	hsa-miR-19b-3p	TGFB1
AR	hsa-miR-2682-5p	HIF1A	hsa-miR-106a-5p	SPIB	TP53	FOXP1	hsa-miR-19b-3p	TP53
AR	hsa-miR-142-3p	IL6	hsa-miR-106a-5p	REST	TP53	GABPA	hsa-miR-195-5p	SMAD3
AR	hsa-miR-6815-3p	HIF1A	hsa-miR-106a-5p	GATA6	TP53	GATA1	hsa-miR-335-5p	PTGS2
AR	hsa-miR-153-5p	HIF1A	hsa-miR-106a-5p	NFAT5	TP53	GATA1	hsa-miR-335-5p	TLR4
AR	hsa-miR-3074-3p	HIF1A	hsa-miR-106a-5p	E2F1	TP53	GATA3	hsa-miR-92a-3p	NFKB1
AR	hsa-miR-17-5p	TGFB1	hsa-miR-106a-5p	TCF7L2	TP53	GATA3	hsa-miR-132-3p	PTGS2
AR	hsa-miR-17-5p	TP53	hsa-miR-106a-5p	RUNX3	IL10	GATA6	hsa-miR-149-3p	TP53
AR	hsa-miR-17-5p	HIF1A	hsa-miR-106a-5p	RUNX3	TP53	GATA6	hsa-miR-199b-5p	HIF1A
AR	hsa-miR-17-5p	SMAD3	hsa-miR-106a-5p	RUNX1	TP53	GATA6	hsa-miR-7-5p	TLR4
AR	hsa-let-7a-5p	IL6	hsa-miR-106a-5p	NR2C2	TP53	GATA6	hsa-miR-6760-5p	TP53
AR	hsa-let-7a-5p	NFKB1	hsa-miR-106b-5p	CLOCK	STAT3	GATA6	hsa-miR-200a-3p	TP53
AR	hsa-miR-106a-3p	HIF1A	hsa-miR-106b-5p	SMAD4	STAT3	GATA6	hsa-miR-200a-3p	SMAD3
AR	hsa-miR-4279	TLR4	hsa-miR-106b-5p	SMAD4	HIF1A	GATA6	hsa-miR-548ah-5p	HIF1A
AR	hsa-miR-4720-3p	STAT3	hsa-miR-106b-5p	SOX4	STAT3	GATA6	hsa-miR-203a-3p	IL6

AR	hsa-miR-149-5p	IL6	hsa-miR-106b-5p	RUNX3	STAT3	GATA6	hsa-let-7b-5p	PTGS2
AR	hsa-miR-1-3p	IL6	hsa-miR-106b-5p	RUNX3	HIF1A	GATA6	hsa-let-7b-5p	TLR4
AR	hsa-miR-1-3p	TLR4	hsa-miR-106b-5p	AFF1	HIF1A	GATA6	hsa-let-7b-5p	HIF1A
AR	hsa-miR-6837-5p	STAT3	hsa-miR-106b-5p	EOMES	STAT3	GATA6	hsa-miR-1-3p	IL6
AR	hsa-miR-494-3p	HIF1A	hsa-miR-106b-5p	KLF3	HIF1A	GATA6	hsa-miR-1-3p	TLR4
AR	hsa-miR-1234-3p	STAT3	hsa-miR-106b-5p	TCF4	STAT3	GATA6	hsa-miR-4720-3p	STAT3
AR	hsa-miR-193b-3p	SMAD3	hsa-miR-106b-5p	TCF4	HIF1A	GATA6	hsa-miR-4698	TLR4
AR	hsa-miR-30b-5p	TP53	hsa-miR-106b-5p	ZBTB7A	STAT3	GATA6	hsa-miR-181a-5p	PTGS2
AR	hsa-miR-21-5p	TGFB1	hsa-miR-106b-5p	ZBTB7A	HIF1A	GATA6	hsa-miR-181a-5p	STAT3
AR	hsa-miR-21-5p	TLR4	hsa-miR-106b-5p	SP4	STAT3	GATA6	hsa-miR-128-3p	PTGS2
AR	hsa-miR-21-5p	HIF1A	hsa-miR-106b-5p	SP4	HIF1A	GATA6	hsa-miR-3609	HIF1A
AR	hsa-miR-21-5p	NFKB1	hsa-miR-106b-5p	REST	STAT3	HNF4A	hsa-miR-143-3p	PTGS2
AR	hsa-miR-211-5p	TGFB1	hsa-miR-106b-5p	REST	HIF1A	HNF4A	hsa-miR-143-3p	SMAD3
AR	hsa-miR-199a-5p	NFKB1	hsa-miR-106b-5p	GATA6	STAT3	HNF4A	hsa-miR-6875-3p	STAT3
AR	hsa-miR-199a-5p	HIF1A	hsa-miR-106b-5p	GATA6	HIF1A	IRF1	hsa-miR-142-3p	IL6
AR	hsa-miR-24-3p	TGFB1	hsa-miR-106b-5p	E2F2	HIF1A	JUN	hsa-miR-4720-3p	STAT3
AR	hsa-miR-20b-5p	HIF1A	hsa-miR-106b-5p	E2F1	STAT3	JUN	hsa-miR-155-5p	IL6
AR	hsa-miR-20a-5p	TP53	hsa-miR-106b-5p	E2F1	HIF1A	JUN	hsa-miR-155-5p	NFKB1
AR	hsa-miR-20a-5p	HIF1A	hsa-miR-106b-5p	ESR2	STAT3	JUN	hsa-miR-155-5p	IL2
AR	hsa-miR-106b-3p	HIF1A	hsa-miR-106b-5p	MXI1	STAT3	JUN	hsa-miR-155-5p	SMAD3
AR	hsa-miR-299-5p	HIF1A	hsa-miR-106b-5p	MXI1	HIF1A	JUND	hsa-miR-4271	TP53
AR	hsa-miR-7158-5p	STAT3	hsa-miR-106b-5p	TCF7L2	STAT3	JUND	hsa-miR-663a	TGFB1
AR	hsa-miR-106a-5p	IL10	hsa-miR-106b-5p	TCF7L2	HIF1A	JUND	hsa-miR-6875-3p	STAT3
AR	hsa-miR-106a-5p	TP53	hsa-miR-106b-5p	HBP1	STAT3	JUND	hsa-miR-1908-5p	PTGS2
ARID3A	hsa-miR-18a-5p	TP53	hsa-miR-106b-5p	HBP1	HIF1A	KLF4	hsa-miR-107	HIF1A
ARID3A	hsa-miR-18a-5p	HIF1A	hsa-miR-106b-5p	ELK3	STAT3	KLF5	hsa-miR-9-5p	NFKB1
ARID3A	hsa-miR-18a-5p	SMAD3	hsa-miR-106b-5p	ELK4	STAT3	KLF5	hsa-miR-21-5p	TGFB1
ARID3A	hsa-miR-16-5p	NFKB1	hsa-miR-106b-5p	WHSC1	STAT3	KLF5	hsa-miR-21-5p	HIF1A
ARID3A	hsa-miR-16-5p	TP53	hsa-miR-106b-5p	WHSC1	HIF1A	KLF5	hsa-miR-21-5p	NFKB1
ARID3A	hsa-miR-16-5p	SMAD3	hsa-miR-107	ARNT	IL6	MAFK	hsa-miR-15b-5p	SMAD3
ARID3A	hsa-miR-15b-5p	SMAD3	hsa-miR-107	ARNT	HIF1A	MAFK	hsa-miR-16-5p	PTGS2
ARID3A	hsa-miR-19a-3p	TP53	hsa-miR-107	HIF1A	IL6	MAFK	hsa-miR-16-5p	TP53
ARID3A	hsa-miR-142-3p	IL6	hsa-miR-107	SALL4	HIF1A	MAFK	hsa-miR-16-5p	SMAD3
ARID3A	hsa-miR-92a-3p	NFKB1	hsa-miR-107	MYB	HIF1A	MAFK	hsa-miR-5193	TP53
ARID3A	hsa-miR-223-3p	IL6	hsa-miR-10b-5p	DLX1	TP53	MAFK	hsa-miR-92b-3p	SMAD3
ARID3A	hsa-miR-223-3p	TP53	hsa-miR-10b-5p	ASCL2	TP53	MAX	hsa-miR-22-3p	HIF1A

ARID3A	hsa-miR-21-5p	TGFB1	hsa-miR-10b-5p	GATA3	TP53	MAX	hsa-miR-320a	PTGS2
ARID3A	hsa-miR-21-5p	HIF1A	hsa-miR-10b-5p	NR2C2	TP53	MAX	hsa-miR-365a-3p	IL6
ARID3A	hsa-miR-21-5p	NFKB1	hsa-miR-10b-5p	KLF4	TP53	MAX	hsa-miR-193b-3p	SMAD3
ARID3A	hsa-miR-424-5p	HIF1A	hsa-miR-10b-5p	LYL1	TP53	MAZ	hsa-miR-877-3p	STAT3
ARID3A	hsa-miR-3160-3p	HIF1A	hsa-miR-10b-5p	SREBF1	TP53	MAZ	hsa-miR-124-3p	IL6
ARID3A	hsa-miR-19b-3p	TGFB1	hsa-miR-10b-5p	POU2F2	TP53	MAZ	hsa-miR-124-3p	PTGS2
ARID3A	hsa-miR-19b-3p	TP53	hsa-miR-1178-3p	TP63	STAT3	MAZ	hsa-miR-124-3p	STAT3
ARID3A	hsa-miR-145-5p	SMAD3	hsa-miR-1181	NKX2-2	STAT3	MBD3	hsa-miR-877-3p	STAT3
ARID3A	hsa-miR-17-5p	TGFB1	hsa-miR-1181	FOXP1	STAT3	MEF2A	hsa-miR-19a-3p	TNF
ARID3A	hsa-miR-17-5p	TP53	hsa-miR-122-5p	FOXP1	TGFB1	MEF2A	hsa-miR-21-5p	TGFB1
ARID3A	hsa-miR-17-5p	HIF1A	hsa-miR-122-5p	SRF	TGFB1	MEF2A	hsa-miR-21-5p	HIF1A
ARID3A	hsa-miR-17-5p	SMAD3	hsa-miR-122-5p	ZBTB4	TGFB1	MEF2A	hsa-miR-21-5p	NFKB1
ARID3A	hsa-miR-144-3p	TGFB1	hsa-miR-122-5p	MAZ	TGFB1	MEF2A	hsa-miR-155-5p	NFKB1
ARID3A	hsa-miR-618	STAT3	hsa-miR-122-5p	CREB1	TGFB1	MITF	hsa-miR-101-3p	PTGS2
ARID3A	hsa-miR-20a-5p	TP53	hsa-miR-122-5p	MAFK	TGFB1	MNT	hsa-miR-17-5p	TGFB1
ARID3A	hsa-miR-20a-5p	HIF1A	hsa-miR-122-5p	UBTF	TGFB1	MNT	hsa-miR-17-5p	PTGS2
ARID3A	hsa-miR-199b-5p	HIF1A	hsa-miR-1233-5p	ZMIZ1	TP53	MNT	hsa-miR-17-5p	HIF1A
ARID3A	hsa-miR-155-5p	IL6	hsa-miR-1233-5p	E2F3	TP53	MNT	hsa-miR-17-5p	SMAD3
ARID3A	hsa-miR-155-5p	NFKB1	hsa-miR-1233-5p	E2F6	TP53	MNT	hsa-miR-17-5p	TP53
ARID3A	hsa-miR-155-5p	SMAD3	hsa-miR-1234-3p	IRF1	STAT3	MXI1	hsa-miR-20a-5p	TP53
ARID3A	hsa-miR-92a-1-5p	TP53	hsa-miR-1234-3p	ESR2	STAT3	MXI1	hsa-miR-20a-5p	HIF1A
ARID3A	hsa-miR-18a-3p	SMAD3	hsa-miR-1234-3p	FOS	STAT3	MXI1	hsa-miR-93-5p	TGFB1
ARNT	hsa-miR-132-3p	PTGS2	hsa-miR-124-3p	HOXC9	STAT3	MXI1	hsa-miR-93-5p	STAT3
ARNT	hsa-miR-149-5p	IL6	hsa-miR-124-3p	NFATC1	STAT3	MXI1	hsa-miR-93-5p	HIF1A
ARNT	hsa-miR-146a-5p	PTGS2	hsa-miR-124-3p	CLOCK	IL6	MYC	hsa-miR-92a-3p	NFKB1
ARNT	hsa-miR-146a-5p	NFKB1	hsa-miR-124-3p	CLOCK	STAT3	MYC	hsa-let-7i-5p	TLR4
ARNT	hsa-miR-149-3p	TP53	hsa-miR-124-3p	SNAI2	PTGS2	MYC	hsa-miR-92b-3p	SMAD3
ARNT	hsa-miR-24-3p	TGFB1	hsa-miR-124-3p	SNAI2	STAT3	MYC	hsa-miR-106b-5p	STAT3
ARNT	hsa-miR-6722-3p	TP53	hsa-miR-124-3p	ELF3	IL6	MYC	hsa-miR-106b-5p	HIF1A
ARNT	hsa-miR-935	HIF1A	hsa-miR-124-3p	XBP1	STAT3	MYC	hsa-miR-744-5p	PTGS2
ARNT	hsa-miR-608	TP53	hsa-miR-124-3p	TP63	PTGS2	MYC	hsa-miR-744-5p	TGFB1
ARNT	hsa-miR-296-3p	PTGS2	hsa-miR-124-3p	TP63	STAT3	MYC	hsa-miR-92a-1-5p	TP53
ARNT	hsa-miR-21-5p	TGFB1	hsa-miR-124-3p	CEBPA	PTGS2	MYC	hsa-miR-7-5p	TLR4
ARNT	hsa-miR-21-5p	HIF1A	hsa-miR-124-3p	CEBPA	STAT3	MYC	hsa-miR-26a-5p	IL6
ARNT	hsa-miR-21-5p	NFKB1	hsa-miR-124-3p	STAT3	IL6	MYC	hsa-miR-155-5p	IL6
ARNT	hsa-miR-5193	TP53	hsa-miR-124-3p	STAT3	PTGS2	MYC	hsa-miR-155-5p	NFKB1

ARNT	hsa-miR-203a-3p	IL6	hsa-miR-124-3p	RARG	PTGS2	MYC	hsa-miR-155-5p	SMAD3
ARNT	hsa-let-7b-5p	PTGS2	hsa-miR-124-3p	RARG	STAT3	MYC	hsa-miR-93-5p	TGFB1
ARNT	hsa-let-7b-5p	HIF1A	hsa-miR-124-3p	EGR2	PTGS2	MYC	hsa-miR-93-5p	STAT3
ARNT	hsa-miR-4270	STAT3	hsa-miR-124-3p	EGR2	STAT3	MYC	hsa-miR-93-5p	HIF1A
ARNT	hsa-miR-124-3p	IL6	hsa-miR-124-3p	KLF4	STAT3	MYC	hsa-miR-320a	PTGS2
ARNT	hsa-miR-124-3p	PTGS2	hsa-miR-124-3p	KLF9	STAT3	MYC	hsa-miR-5197-5p	TP53
ARNT	hsa-miR-124-3p	STAT3	hsa-miR-124-3p	NR3C1	IL6	MYC	hsa-miR-19a-3p	TNF
ARNT	hsa-miR-138-5p	HIF1A	hsa-miR-124-3p	NR3C1	PTGS2	MYC	hsa-miR-19a-3p	TP53
ASCL2	hsa-miR-210-3p	NFKB1	hsa-miR-124-3p	NR3C1	STAT3	MYC	hsa-miR-17-5p	TGFB1
ASCL2	hsa-miR-210-3p	HIF1A	hsa-miR-124-3p	TFEB	STAT3	MYC	hsa-miR-17-5p	PTGS2
ASCL2	hsa-let-7b-5p	PTGS2	hsa-miR-124-3p	SP3	STAT3	MYC	hsa-miR-17-5p	HIF1A
ASCL2	hsa-let-7b-5p	HIF1A	hsa-miR-124-3p	GATA6	IL6	MYC	hsa-miR-17-5p	SMAD3
ATF1	hsa-miR-4441	STAT3	hsa-miR-124-3p	GATA6	PTGS2	MYC	hsa-miR-17-5p	TP53
ATF1	hsa-miR-155-5p	IL6	hsa-miR-124-3p	GATA6	STAT3	MYC	hsa-let-7a-5p	IL6
ATF1	hsa-miR-5702	TP53	hsa-miR-124-3p	PBX1	STAT3	MYC	hsa-let-7a-5p	PTGS2
ATF2	hsa-miR-18a-5p	TP53	hsa-miR-124-3p	TFAP4	STAT3	MYC	hsa-let-7a-5p	NFKB1
ATF2	hsa-miR-18a-5p	HIF1A	hsa-miR-124-3p	RFX1	PTGS2	MYC	hsa-miR-24-3p	TGFB1
ATF2	hsa-miR-18a-5p	SMAD3	hsa-miR-124-3p	RFX1	STAT3	MYC	hsa-miR-21-5p	TGFB1
ATF2	hsa-miR-9-5p	NFKB1	hsa-miR-124-3p	AHR	IL6	MYC	hsa-miR-21-5p	TLR4
ATF2	hsa-miR-20a-5p	TP53	hsa-miR-124-3p	ELK3	PTGS2	MYC	hsa-miR-21-5p	HIF1A
ATF2	hsa-miR-20a-5p	HIF1A	hsa-miR-124-3p	ELK3	STAT3	MYC	hsa-miR-21-5p	NFKB1
ATF2	hsa-miR-4720-3p	STAT3	hsa-miR-124-3p	MBD3	PTGS2	MYC	hsa-miR-145-5p	SMAD3
ATF2	hsa-miR-558	HIF1A	hsa-miR-124-3p	MBD3	STAT3	MYC	hsa-miR-449c-5p	HIF1A
ATF2	hsa-miR-625-3p	HIF1A	hsa-miR-124-3p	NRF1	STAT3	MYC	hsa-miR-20a-5p	TP53
ATF2	hsa-miR-6837-5p	STAT3	hsa-miR-125a-5p	E2F7	TP53	MYC	hsa-miR-20a-5p	HIF1A
ATF2	hsa-miR-4748	HIF1A	hsa-miR-125a-5p	STAT2	TP53	NANOG	hsa-miR-145-5p	SMAD3
ATF2	hsa-miR-151a-3p	HIF1A	hsa-miR-125a-5p	IRF4	TP53	NANOG	hsa-miR-128-3p	PTGS2
ATF2	hsa-miR-146a-5p	NFKB1	hsa-miR-125a-5p	SMAD4	TP53	NCOR1	hsa-let-7b-5p	PTGS2
ATF2	hsa-miR-130a-3p	TGFB1	hsa-miR-125a-5p	REST	TP53	NCOR1	hsa-let-7b-5p	TLR4
ATF2	hsa-miR-130a-3p	TNF	hsa-miR-125a-5p	MYC	TP53	NCOR1	hsa-let-7b-5p	HIF1A
ATF2	hsa-miR-22-3p	HIF1A	hsa-miR-1264	ID2	TP53	NFAT5	hsa-miR-9-5p	NFKB1
ATF2	hsa-miR-365a-3p	IL6	hsa-miR-128-3p	E2F7	PTGS2	NFAT5	hsa-miR-106b-5p	STAT3
ATF2	hsa-miR-4470	HIF1A	hsa-miR-128-3p	SNAI2	PTGS2	NFAT5	hsa-miR-106b-5p	HIF1A
ATF2	hsa-miR-26a-5p	IL6	hsa-miR-128-3p	HOXA10	PTGS2	NFAT5	hsa-miR-93-5p	TGFB1
ATF2	hsa-miR-935	HIF1A	hsa-miR-128-3p	RXRA	PTGS2	NFAT5	hsa-miR-93-5p	STAT3
ATF2	hsa-miR-19a-3p	TNF	hsa-miR-128-3p	ZFHX3	PTGS2	NFAT5	hsa-miR-93-5p	HIF1A

ATF2	hsa-miR-19a-3p	TP53	hsa-miR-128-3p	HOXC6	PTGS2	NFIC	hsa-miR-149-3p	TP53
ATF2	hsa-miR-17-5p	TGFB1	hsa-miR-128-3p	NR2F2	PTGS2	NFIC	hsa-miR-210-3p	NFKB1
ATF2	hsa-miR-17-5p	TP53	hsa-miR-128-3p	KLF5	PTGS2	NFIC	hsa-miR-210-3p	HIF1A
ATF2	hsa-miR-17-5p	HIF1A	hsa-miR-128-3p	SREBF1	PTGS2	NFIC	hsa-miR-124-3p	PTGS2
ATF2	hsa-miR-17-5p	SMAD3	hsa-miR-1296-3p	UBTF	TP53	NFIC	hsa-miR-124-3p	STAT3
ATF2	hsa-miR-24-3p	TGFB1	hsa-miR-130a-3p	IRF1	TGFB1	NFIC	hsa-miR-195-5p	SMAD3
ATF2	hsa-miR-92a-3p	NFKB1	hsa-miR-130a-3p	YY1	TGFB1	NFIC	hsa-miR-6875-3p	STAT3
ATF2	hsa-miR-6871-3p	STAT3	hsa-miR-130a-3p	YY1	TNF	NR2F2	hsa-miR-203a-3p	IL6
ATF2	hsa-miR-93-5p	TGFB1	hsa-miR-130a-3p	ESR1	TGFB1	NR2F2	hsa-miR-150-5p	TP53
ATF2	hsa-miR-93-5p	STAT3	hsa-miR-130a-3p	SMAD4	TGFB1	NR2F2	hsa-miR-144-3p	TGFB1
ATF2	hsa-miR-93-5p	HIF1A	hsa-miR-130a-3p	ZBTB4	TGFB1	NR2F2	hsa-miR-935	HIF1A
ATF2	hsa-miR-4419a	TP53	hsa-miR-130a-3p	RUNX3	TGFB1	NR3C1	hsa-miR-22-3p	HIF1A
ATF2	hsa-miR-5193	TP53	hsa-miR-130a-3p	RUNX3	TNF	NR3C1	hsa-miR-19b-3p	TGFB1
ATF2	hsa-miR-30e-5p	TP53	hsa-miR-130a-3p	TCF7L2	TGFB1	NR3C1	hsa-miR-19b-3p	TP53
ATF2	hsa-miR-663a	TGFB1	hsa-miR-130a-3p	HOXA5	TGFB1	NRF1	hsa-miR-4487	HIF1A
ATF2	hsa-miR-6760-5p	TP53	hsa-miR-130a-3p	KLF4	TGFB1	PAX5	hsa-miR-153-5p	HIF1A
ATF2	hsa-miR-98-5p	IL6	hsa-miR-130a-3p	HBP1	TGFB1	PAX5	hsa-miR-4531	TP53
ATF2	hsa-miR-6807-3p	HIF1A	hsa-miR-130b-3p	TCF4	STAT3	POU5F1	hsa-miR-128-3p	PTGS2
ATF2	hsa-miR-6807-5p	STAT3	hsa-miR-130b-3p	NR3C1	STAT3	PPARG	hsa-miR-1-3p	TLR4
ATF2	hsa-miR-3662	HIF1A	hsa-miR-130b-3p	E2F1	STAT3	RCOR1	hsa-miR-22-3p	HIF1A
ATF2	hsa-miR-106b-5p	STAT3	hsa-miR-130b-3p	PPARG	STAT3	RCOR1	hsa-miR-26b-5p	NFKB1
ATF2	hsa-miR-106b-5p	HIF1A	hsa-miR-130b-3p	EGR2	STAT3	RCOR1	hsa-miR-26b-5p	PTGS2
ATF2	hsa-miR-124-3p	IL6	hsa-miR-130b-3p	IRF1	STAT3	RCOR1	hsa-miR-26a-5p	IL6
ATF2	hsa-miR-124-3p	STAT3	hsa-miR-130b-3p	TCF7L2	STAT3	RCOR1	hsa-miR-155-5p	IL6
ATF2	hsa-miR-365a-5p	STAT3	hsa-miR-130b-3p	HBP1	STAT3	RCOR1	hsa-miR-155-5p	NFKB1
ATF2	hsa-miR-106b-3p	HIF1A	hsa-miR-130b-3p	RUNX3	STAT3	RCOR1	hsa-miR-155-5p	SMAD3
ATF2	hsa-miR-1181	STAT3	hsa-miR-130b-3p	KLF9	STAT3	RCOR1	hsa-miR-195-5p	SMAD3
ATF2	hsa-miR-92a-1-5p	TP53	hsa-miR-130b-3p	ZEB1	STAT3	RELA	hsa-miR-7-5p	TLR4
ATF2	hsa-miR-18a-3p	SMAD3	hsa-miR-130b-3p	SOX4	STAT3	RELA	hsa-miR-320a	PTGS2
ATF3	hsa-miR-132-3p	PTGS2	hsa-miR-130b-3p	SMAD4	STAT3	RELA	hsa-miR-124-3p	IL6
ATF3	hsa-miR-150-5p	TP53	hsa-miR-137	E2F6	PTGS2	RELA	hsa-miR-124-3p	PTGS2
ATF3	hsa-miR-6760-5p	TP53	hsa-miR-137	NR3C1	PTGS2	RELA	hsa-miR-124-3p	STAT3
ATF3	hsa-miR-4470	HIF1A	hsa-miR-137	ESRRA	PTGS2	REST	hsa-miR-124-3p	IL6
ATF3	hsa-miR-30b-5p	TP53	hsa-miR-137	NFYB	PTGS2	REST	hsa-miR-124-3p	PTGS2
ATF3	hsa-miR-142-3p	IL6	hsa-miR-137	MITF	PTGS2	REST	hsa-miR-124-3p	STAT3
ATF3	hsa-miR-4531	TP53	hsa-miR-138-2-3p	REST	STAT3	REST	hsa-miR-9-5p	NFKB1

ATF3	hsa-miR-21-5p	TGFB1	hsa-miR-138-5p	NR3C1	HIF1A	REST	hsa-miR-4531	TP53
ATF3	hsa-miR-21-5p	HIF1A	hsa-miR-138-5p	PPARG	HIF1A	REST	hsa-miR-17-5p	TGFB1
ATF3	hsa-miR-663a	TGFB1	hsa-miR-138-5p	SNAI2	HIF1A	REST	hsa-miR-17-5p	PTGS2
ATF3	hsa-miR-128-3p	PTGS2	hsa-miR-139-5p	JUN	NFKB1	REST	hsa-miR-17-5p	HIF1A
ATF3	hsa-miR-155-5p	IL6	hsa-miR-139-5p	FOS	NFKB1	REST	hsa-miR-17-5p	SMAD3
ATF3	hsa-miR-320a	PTGS2	hsa-miR-1-3p	SMARCC1	TLR4	REST	hsa-miR-17-5p	TP53
ATF5	hsa-miR-18a-5p	TP53	hsa-miR-1-3p	NR5A2	IL6	REST	hsa-miR-4516	STAT3
ATF5	hsa-miR-18a-5p	SMAD3	hsa-miR-1-3p	GATA4	IL6	REST	hsa-miR-4516	TP53
ATF5	hsa-miR-20a-5p	TP53	hsa-miR-1-3p	GATA4	TLR4	REST	hsa-miR-21-5p	TGFB1
ATF5	hsa-miR-17-5p	PTGS2	hsa-miR-1-3p	GATA3	TLR4	REST	hsa-miR-21-5p	TLR4
ATF5	hsa-miR-17-5p	TP53	hsa-miR-142-3p	CLOCK	IL6	REST	hsa-miR-21-5p	HIF1A
ATF5	hsa-miR-17-5p	SMAD3	hsa-miR-142-3p	BACH1	IL6	REST	hsa-miR-21-5p	NFKB1
ATF5	hsa-miR-18a-3p	SMAD3	hsa-miR-142-3p	HOXA7	IL6	RUNX1	hsa-miR-128-3p	PTGS2
ATF5	hsa-miR-19a-3p	TP53	hsa-miR-142-3p	WIZ	IL6	RUNX3	hsa-miR-4487	HIF1A
ATF5	hsa-miR-181a-5p	PTGS2	hsa-miR-143-3p	NFIC	PTGS2	SETDB1	hsa-miR-92a-3p	NFKB1
ATOH1	hsa-miR-106b-5p	STAT3	hsa-miR-143-3p	NFIC	TNF	SMAD4	hsa-miR-18a-5p	TP53
ATOH1	hsa-miR-106b-5p	HIF1A	hsa-miR-143-3p	NFIC	SMAD3	SMAD4	hsa-miR-18a-5p	HIF1A
ATOH1	hsa-miR-106b-3p	HIF1A	hsa-miR-143-3p	NFYB	PTGS2	SMAD4	hsa-miR-18a-5p	SMAD3
ATOH1	hsa-let-7b-5p	PTGS2	hsa-miR-143-3p	NFYB	TNF	SMAD4	hsa-miR-19a-3p	TP53
ATOH1	hsa-let-7b-5p	HIF1A	hsa-miR-143-3p	NFYB	SMAD3	SMAD4	hsa-miR-19b-3p	TGFB1
ATOH1	hsa-miR-93-5p	TGFB1	hsa-miR-143-3p	KLF5	PTGS2	SMAD4	hsa-miR-19b-3p	TP53
ATOH1	hsa-miR-93-5p	STAT3	hsa-miR-143-3p	KLF5	SMAD3	SMAD4	hsa-miR-17-5p	TGFB1
ATOH1	hsa-miR-93-5p	HIF1A	hsa-miR-144-3p	NR3C1	TGFB1	SMAD4	hsa-miR-17-5p	PTGS2
BACH1	hsa-miR-132-3p	PTGS2	hsa-miR-145-5p	SMAD4	SMAD3	SMAD4	hsa-miR-17-5p	HIF1A
BACH1	hsa-miR-150-5p	TP53	hsa-miR-145-5p	KLF5	SMAD3	SMAD4	hsa-miR-17-5p	SMAD3
BACH1	hsa-miR-1908-5p	PTGS2	hsa-miR-145-5p	POU5F1	SMAD3	SMAD4	hsa-miR-17-5p	TP53
BACH1	hsa-miR-365a-5p	STAT3	hsa-miR-145-5p	SOX2	SMAD3	SMAD4	hsa-miR-20a-5p	TP53
BACH1	hsa-miR-6815-3p	HIF1A	hsa-miR-1468-3p	ETS2	TLR4	SMAD4	hsa-miR-20a-5p	HIF1A
BACH1	hsa-miR-149-3p	TP53	hsa-miR-1468-3p	GATA6	TLR4	SNAI2	hsa-miR-9-5p	NFKB1
BACH1	hsa-miR-199b-5p	HIF1A	hsa-miR-146a-5p	SMAD4	PTGS2	SOX2	hsa-miR-21-5p	NFKB1
BACH1	hsa-miR-22-3p	HIF1A	hsa-miR-149-3p	NFAT5	TP53	SOX2	hsa-miR-21-5p	HIF1A
BACH1	hsa-miR-365a-3p	IL6	hsa-miR-149-3p	E2F1	TP53	SOX2	hsa-miR-1181	STAT3
BACH1	hsa-miR-935	HIF1A	hsa-miR-149-3p	ASCL2	TP53	SP1	hsa-miR-150-5p	TP53
BACH1	hsa-miR-622	TP53	hsa-miR-149-3p	MNT	TP53	SP1	hsa-miR-125a-5p	TP53
BACH1	hsa-miR-2682-5p	HIF1A	hsa-miR-149-3p	MAZ	TP53	SP1	hsa-miR-33a-5p	HIF1A
BACH1	hsa-miR-93-5p	TGFB1	hsa-miR-149-3p	JUN	TP53	SP1	hsa-miR-22-3p	HIF1A

BACH1	hsa-miR-93-5p	STAT3	hsa-miR-149-3p	FOSL2	TP53	SP1	hsa-miR-124-3p	PTGS2
BACH1	hsa-miR-93-5p	HIF1A	hsa-miR-149-3p	ZFH3	TP53	SP1	hsa-miR-124-3p	STAT3
BACH1	hsa-miR-137	PTGS2	hsa-miR-149-3p	SREBF1	TP53	SP1	hsa-let-7a-5p	PTGS2
BACH1	hsa-miR-149-5p	IL6	hsa-miR-149-3p	ZNF250	TP53	SP1	hsa-let-7a-5p	NFKB1
BACH1	hsa-miR-17-5p	PTGS2	hsa-miR-149-3p	MYBL2	TP53	SP1	hsa-miR-21-5p	TGFB1
BACH1	hsa-miR-17-5p	TGFB1	hsa-miR-149-3p	HOXB13	TP53	SP1	hsa-miR-21-5p	HIF1A
BACH1	hsa-miR-17-5p	HIF1A	hsa-miR-149-5p	JUN	IL6	SP1	hsa-miR-21-5p	NFKB1
BACH1	hsa-miR-17-5p	SMAD3	hsa-miR-149-5p	FOXO1	IL6	SP1	hsa-miR-145-5p	SMAD3
BACH1	hsa-miR-17-5p	TP53	hsa-miR-149-5p	HES4	IL6	SP1	hsa-miR-128-3p	PTGS2
BACH1	hsa-miR-6755-5p	HIF1A	hsa-miR-150-5p	THAP1	TP53	SPI1	hsa-miR-9-5p	NFKB1
BACH1	hsa-miR-9-5p	NFKB1	hsa-miR-150-5p	NKX2-1	TP53	SPI1	hsa-miR-155-5p	NFKB1
BACH1	hsa-miR-6875-3p	STAT3	hsa-miR-150-5p	EGR2	TP53	SPI1	hsa-miR-155-5p	IL2
BACH1	hsa-miR-124-3p	IL6	hsa-miR-150-5p	SPIB	TP53	SPI1	hsa-miR-155-5p	SMAD3
BACH1	hsa-miR-124-3p	PTGS2	hsa-miR-153-5p	NFIC	HIF1A	SRF	hsa-miR-9-5p	NFKB1
BACH1	hsa-miR-124-3p	STAT3	hsa-miR-153-5p	ZBTB7A	HIF1A	SRF	hsa-miR-1-3p	IL6
BACH1	hsa-miR-106b-5p	STAT3	hsa-miR-153-5p	FOXG1	HIF1A	SRF	hsa-miR-320a	PTGS2
BACH1	hsa-miR-106b-5p	HIF1A	hsa-miR-153-5p	RFX1	HIF1A	STAT1	hsa-miR-146a-5p	PTGS2
BACH1	hsa-miR-106b-3p	HIF1A	hsa-miR-153-5p	MTA3	HIF1A	STAT1	hsa-miR-146a-5p	TLR4
BACH1	hsa-miR-320a	PTGS2	hsa-miR-155-5p	SMAD4	SMAD3	STAT1	hsa-miR-146a-5p	NFKB1
BACH2	hsa-miR-922	STAT3	hsa-miR-155-5p	JUNB	IL6	STAT3	hsa-miR-92a-3p	NFKB1
BACH2	hsa-miR-3165	TP53	hsa-miR-155-5p	JUNB	NFKB1	STAT3	hsa-miR-17-5p	PTGS2
BACH2	hsa-miR-5193	TP53	hsa-miR-155-5p	JUNB	SMAD3	STAT3	hsa-miR-155-5p	IL6
BACH2	hsa-miR-365a-5p	STAT3	hsa-miR-155-5p	SMAD1	NFKB1	STAT3	hsa-miR-155-5p	NFKB1
BARHL1	hsa-miR-5692a	HIF1A	hsa-miR-155-5p	SMAD1	SMAD3	STAT3	hsa-miR-21-5p	NFKB1
BATF	hsa-miR-21-5p	NFKB1	hsa-miR-155-5p	SMAD2	IL2	STAT3	hsa-miR-21-5p	TLR4
BATF	hsa-miR-4270	STAT3	hsa-miR-155-5p	SMAD2	SMAD3	STAT3	hsa-miR-106a-5p	IL10
BATF	hsa-miR-124-3p	IL6	hsa-miR-155-5p	MITF	NFKB1	STAT5A	hsa-miR-223-3p	TP53
BATF	hsa-miR-124-3p	STAT3	hsa-miR-155-5p	BACH1	IL6	STAT5A	hsa-miR-124-3p	STAT3
BATF	hsa-miR-138-2-3p	STAT3	hsa-miR-155-5p	BACH1	NFKB1	TAL1	hsa-miR-6807-5p	STAT3
BATF	hsa-miR-155-5p	IL6	hsa-miR-155-5p	BACH1	SMAD3	TAL1	hsa-miR-320a	PTGS2
BATF	hsa-miR-155-5p	NFKB1	hsa-miR-155-5p	VEZF1	SMAD3	TAL1	hsa-miR-223-3p	IL6
BCL11A	hsa-miR-21-5p	NFKB1	hsa-miR-155-5p	KLF9	NFKB1	TAL1	hsa-miR-223-3p	TP53
BCL11A	hsa-miR-4516	STAT3	hsa-miR-155-5p	KLF9	SMAD3	TCF12	hsa-miR-139-5p	NFKB1
BCL11A	hsa-miR-146a-5p	NFKB1	hsa-miR-155-5p	TCF4	SMAD3	TCF12	hsa-miR-155-5p	IL6
BCL11A	hsa-miR-365a-5p	STAT3	hsa-miR-155-5p	NR3C1	IL6	TCF12	hsa-miR-155-5p	NFKB1
BCL11A	hsa-miR-130a-3p	TNF	hsa-miR-155-5p	NR3C1	SMAD3	TCF12	hsa-miR-155-5p	SMAD3

BCL6	hsa-miR-1178-3p	STAT3	hsa-miR-155-5p	SP1	NFKB1	TCF3	hsa-miR-124-3p	STAT3
BCL6	hsa-miR-139-5p	NFKB1	hsa-miR-155-5p	SP1	SMAD3	TCF7L2	hsa-miR-193b-3p	SMAD3
BCL6	hsa-miR-4799-5p	HIF1A	hsa-miR-155-5p	NFAT5	NFKB1	TCF7L2	hsa-miR-211-5p	TGFB1
BCL6	hsa-miR-365a-5p	STAT3	hsa-miR-155-5p	NFAT5	SMAD3	TEAD4	hsa-miR-181a-5p	PTGS2
BCL6	hsa-miR-6809-3p	STAT3	hsa-miR-155-5p	E2F2	SMAD3	TEAD4	hsa-miR-181a-5p	STAT3
BCL6	hsa-miR-630	TLR4	hsa-miR-155-5p	MXI1	IL6	TP63	hsa-miR-203a-3p	TNF
BCL6	hsa-miR-365a-3p	IL6	hsa-miR-155-5p	MXI1	NFKB1	UBTF	hsa-miR-6511a-5p	HIF1A
BCL6	hsa-miR-193b-3p	SMAD3	hsa-miR-155-5p	MXI1	SMAD3	UBTF	hsa-miR-1-3p	IL6
BCL6	hsa-miR-3165	TP53	hsa-miR-155-5p	HBP1	IL6	UBTF	hsa-miR-1-3p	TLR4
BCL6	hsa-miR-548g-3p	TLR4	hsa-miR-155-5p	HBP1	NFKB1	USF2	hsa-miR-320a	PTGS2
BCL6	hsa-miR-6845-3p	STAT3	hsa-miR-155-5p	HBP1	SMAD3	VDR	hsa-miR-153-5p	HIF1A
BCL6	hsa-miR-4531	TP53	hsa-miR-155-5p	ZKSCAN1	SMAD3	VEZF1	hsa-miR-20a-5p	TP53
BCL6	hsa-miR-6815-3p	HIF1A	hsa-miR-155-5p	BCL6	IL6	YY1	hsa-miR-130b-3p	STAT3
BCL6	hsa-miR-145-5p	SMAD3	hsa-miR-155-5p	BCL6	NFKB1	YY1	hsa-miR-93-5p	TGFB1
BCL6	hsa-miR-449c-5p	HIF1A	hsa-miR-155-5p	BCL6	SMAD3	YY1	hsa-miR-93-5p	STAT3
BCL6	hsa-miR-6875-3p	STAT3	hsa-miR-15a-5p	RCOR1	NFKB1	YY1	hsa-miR-93-5p	HIF1A
BCL6	hsa-miR-1322	HIF1A	hsa-miR-15a-5p	RCOR1	TP53	YY1	hsa-miR-193b-3p	SMAD3
BCL6	hsa-miR-4487	HIF1A	hsa-miR-15a-5p	RCOR1	SMAD3	ZBTB7A	hsa-miR-144-3p	TGFB1
BCL6	hsa-miR-92b-3p	SMAD3	hsa-miR-15a-5p	MAFK	TP53	ZEB1	hsa-miR-150-5p	TP53
BCL6	hsa-miR-922	STAT3	hsa-miR-15a-5p	MAFK	SMAD3	ZNF217	hsa-miR-21-5p	NFKB1
BCL6	hsa-miR-138-5p	HIF1A	hsa-miR-15a-5p	TFAP2A	NFKB1			
BCL6	hsa-miR-34b-5p	HIF1A	hsa-miR-15a-5p	TFAP2A	TP53			
BCL6	hsa-miR-199b-5p	HIF1A	hsa-miR-15a-5p	BHLHE40	NFKB1			
BCL6	hsa-miR-4464	HIF1A	hsa-miR-15a-5p	BHLHE40	TP53			
BCLAF1	hsa-miR-18a-5p	TP53	hsa-miR-15a-5p	BHLHE40	SMAD3			
BCLAF1	hsa-miR-18a-5p	HIF1A	hsa-miR-15a-5p	JUN	NFKB1			
BCLAF1	hsa-miR-21-5p	TGFB1	hsa-miR-15a-5p	JUN	TP53			
BCLAF1	hsa-miR-21-5p	HIF1A	hsa-miR-15a-5p	JUN	SMAD3			
BCLAF1	hsa-miR-21-5p	NFKB1	hsa-miR-15a-5p	HOXA10	NFKB1			
BCLAF1	hsa-miR-124-3p	IL6	hsa-miR-15a-5p	HOXA10	TP53			
BCLAF1	hsa-miR-124-3p	STAT3	hsa-miR-15a-5p	HOXA10	SMAD3			
BCLAF1	hsa-miR-625-3p	HIF1A	hsa-miR-15a-5p	KLF4	NFKB1			
BCLAF1	hsa-miR-146a-5p	NFKB1	hsa-miR-15a-5p	KLF4	TP53			
BCLAF1	hsa-miR-20a-5p	TP53	hsa-miR-15a-5p	E2F7	TP53			
BCLAF1	hsa-miR-20a-5p	HIF1A	hsa-miR-15a-5p	E2F7	SMAD3			
BCLAF1	hsa-miR-19a-3p	TNF	hsa-miR-15a-5p	TCF3	NFKB1			

BCLAF1	hsa-miR-19a-3p	TP53	hsa-miR-15a-5p	TCF3	TP53
BCLAF1	hsa-miR-92a-3p	NFKB1	hsa-miR-15a-5p	NR2C2	TP53
BCLAF1	hsa-miR-19b-3p	TGFB1	hsa-miR-15a-5p	E2F3	TP53
BCLAF1	hsa-miR-19b-3p	TP53	hsa-miR-15a-5p	NFIC	NFKB1
BCLAF1	hsa-miR-92a-1-5p	TP53	hsa-miR-15a-5p	NFIC	TP53
BCLAF1	hsa-miR-663a	TGFB1	hsa-miR-15a-5p	NFIC	SMAD3
BHLHE40	hsa-miR-139-5p	NFKB1	hsa-miR-15a-5p	TP53	NFKB1
BHLHE40	hsa-miR-210-3p	NFKB1	hsa-miR-15a-5p	TP53	SMAD3
BHLHE40	hsa-miR-210-3p	HIF1A	hsa-miR-15a-5p	IRF4	NFKB1
BHLHE40	hsa-miR-7110-3p	STAT3	hsa-miR-15a-5p	IRF4	TP53
BHLHE40	hsa-miR-942-5p	TLR4	hsa-miR-15a-5p	MBD4	TP53
BHLHE40	hsa-miR-6809-3p	STAT3	hsa-miR-15a-5p	MBD4	SMAD3
BHLHE40	hsa-miR-130a-3p	TGFB1	hsa-miR-15a-5p	ELK4	TP53
BHLHE40	hsa-miR-130a-3p	TNF	hsa-miR-15a-5p	GABPA	NFKB1
BHLHE40	hsa-miR-7-5p	TLR4	hsa-miR-15a-5p	GABPA	TP53
BHLHE40	hsa-miR-22-3p	HIF1A	hsa-miR-15a-5p	GABPA	SMAD3
BHLHE40	hsa-miR-193b-3p	SMAD3	hsa-miR-15a-5p	ATF2	NFKB1
BHLHE40	hsa-miR-4470	HIF1A	hsa-miR-15a-5p	ATF2	TP53
BHLHE40	hsa-miR-3128	HIF1A	hsa-miR-15a-5p	ATF2	SMAD3
BHLHE40	hsa-miR-30b-5p	TP53	hsa-miR-15b-5p	NFIC	SMAD3
BHLHE40	hsa-miR-4738-3p	TLR4	hsa-miR-15b-5p	E2F7	SMAD3
BHLHE40	hsa-miR-142-3p	IL6	hsa-miR-15b-5p	ZNF217	SMAD3
BHLHE40	hsa-miR-223-3p	IL6	hsa-miR-15b-5p	MBD4	SMAD3
BHLHE40	hsa-miR-223-3p	TP53	hsa-miR-15b-5p	BHLHE40	SMAD3
BHLHE40	hsa-miR-1322	HIF1A	hsa-miR-15b-5p	RCOR1	SMAD3
BHLHE40	hsa-miR-6815-3p	HIF1A	hsa-miR-15b-5p	GABPA	SMAD3
BHLHE40	hsa-miR-5193	TP53	hsa-miR-15b-5p	HOXA10	SMAD3
BHLHE40	hsa-miR-30e-5p	TP53	hsa-miR-16-5p	SMAD1	PTGS2
BHLHE40	hsa-miR-17-5p	TGFB1	hsa-miR-16-5p	SMAD1	TP53
BHLHE40	hsa-miR-17-5p	TP53	hsa-miR-16-5p	SMAD1	NFKB1
BHLHE40	hsa-miR-17-5p	HIF1A	hsa-miR-16-5p	SMAD1	SMAD3
BHLHE40	hsa-miR-17-5p	SMAD3	hsa-miR-16-5p	ZFH3	PTGS2
BHLHE40	hsa-miR-6760-5p	TP53	hsa-miR-16-5p	ZFH3	TP53
BHLHE40	hsa-let-7i-5p	TLR4	hsa-miR-16-5p	RCOR1	PTGS2
BHLHE40	hsa-miR-92b-3p	SMAD3	hsa-miR-16-5p	RCOR1	TP53
BHLHE40	hsa-miR-3662	HIF1A	hsa-miR-16-5p	RCOR1	NFKB1

BHLHE40	hsa-miR-329-5p	HIF1A	hsa-miR-16-5p	RCOR1	SMAD3
BHLHE40	hsa-miR-124-3p	IL6	hsa-miR-16-5p	ZNF384	TP53
BHLHE40	hsa-miR-124-3p	STAT3	hsa-miR-16-5p	MBD4	TP53
BHLHE40	hsa-miR-138-5p	HIF1A	hsa-miR-16-5p	MBD4	SMAD3
BHLHE40	hsa-miR-1181	STAT3	hsa-miR-16-5p	TFAP2A	PTGS2
BHLHE40	hsa-miR-155-5p	IL6	hsa-miR-16-5p	TFAP2A	TP53
BHLHE40	hsa-miR-155-5p	NFKB1	hsa-miR-16-5p	TFAP2A	NFKB1
BHLHE40	hsa-miR-155-5p	SMAD3	hsa-miR-16-5p	JUN	PTGS2
CDX2	hsa-miR-548ah-5p	HIF1A	hsa-miR-16-5p	JUN	TP53
CDX2	hsa-miR-4720-3p	STAT3	hsa-miR-16-5p	JUN	NFKB1
CDX2	hsa-miR-558	PTGS2	hsa-miR-16-5p	JUN	SMAD3
CDX2	hsa-miR-558	HIF1A	hsa-miR-16-5p	HOXA10	PTGS2
CDX2	hsa-miR-3934-5p	PTGS2	hsa-miR-16-5p	HOXA10	TP53
CDX2	hsa-miR-4799-5p	HIF1A	hsa-miR-16-5p	HOXA10	NFKB1
CDX2	hsa-miR-379-3p	PTGS2	hsa-miR-16-5p	HOXA10	SMAD3
CDX2	hsa-miR-125a-5p	TP53	hsa-miR-16-5p	MYC	PTGS2
CDX2	hsa-miR-146a-5p	PTGS2	hsa-miR-16-5p	MYC	TP53
CDX2	hsa-miR-146a-5p	TLR4	hsa-miR-16-5p	MYC	NFKB1
CDX2	hsa-miR-146a-5p	NFKB1	hsa-miR-16-5p	MYC	SMAD3
CDX2	hsa-miR-4698	TLR4	hsa-miR-16-5p	NFIC	PTGS2
CDX2	hsa-miR-1234-3p	STAT3	hsa-miR-16-5p	NFIC	TP53
CDX2	hsa-miR-130b-3p	STAT3	hsa-miR-16-5p	NFIC	NFKB1
CDX2	hsa-miR-214-3p	TP53	hsa-miR-16-5p	NFIC	SMAD3
CDX2	hsa-let-7b-5p	PTGS2	hsa-miR-16-5p	TCF3	NFKB1
CDX2	hsa-let-7b-5p	TLR4	hsa-miR-16-5p	TCF3	TP53
CDX2	hsa-let-7b-5p	HIF1A	hsa-miR-16-5p	SP1	PTGS2
CDX2	hsa-miR-24-3p	TGFB1	hsa-miR-16-5p	SP1	TP53
CDX2	hsa-miR-5581-3p	STAT3	hsa-miR-16-5p	SP1	NFKB1
CDX2	hsa-miR-6845-3p	STAT3	hsa-miR-16-5p	SP1	SMAD3
CDX2	hsa-miR-299-5p	HIF1A	hsa-miR-16-5p	NR2C2	TP53
CDX2	hsa-miR-33a-5p	HIF1A	hsa-miR-16-5p	E2F3	TP53
CDX2	hsa-miR-93-5p	TGFB1	hsa-miR-16-5p	E2F7	PTGS2
CDX2	hsa-miR-93-5p	STAT3	hsa-miR-16-5p	E2F7	TP53
CDX2	hsa-miR-93-5p	HIF1A	hsa-miR-16-5p	E2F7	SMAD3
CDX2	hsa-miR-4438	STAT3	hsa-miR-16-5p	TP53	PTGS2
CDX2	hsa-miR-29b-3p	TGFB1	hsa-miR-16-5p	TP53	NFKB1

CDX2	hsa-miR-494-3p	HIF1A	hsa-miR-16-5p	TP53	SMAD3
CDX2	hsa-miR-211-5p	TGFB1	hsa-miR-16-5p	TFAP4	NFKB1
CDX2	hsa-miR-874-3p	STAT3	hsa-miR-16-5p	IRF4	NFKB1
CDX2	hsa-miR-1-3p	TLR4	hsa-miR-16-5p	IRF4	TP53
CDX2	hsa-miR-3160-3p	HIF1A	hsa-miR-16-5p	TBP	PTGS2
CDX2	hsa-miR-526b-5p	TLR4	hsa-miR-16-5p	TBP	TP53
CDX2	hsa-miR-371b-3p	STAT3	hsa-miR-16-5p	TBP	NFKB1
CDX2	hsa-miR-4290	SMAD3	hsa-miR-16-5p	TBP	SMAD3
CDX2	hsa-miR-6893-5p	HIF1A	hsa-miR-16-5p	BHLHE40	NFKB1
CDX2	hsa-miR-128-3p	PTGS2	hsa-miR-16-5p	BHLHE40	TP53
CDX2	hsa-miR-30d-5p	TP53	hsa-miR-16-5p	BHLHE40	SMAD3
CDX2	hsa-miR-3658	TLR4	hsa-miR-16-5p	ELK4	PTGS2
CDX2	hsa-miR-4735-3p	HIF1A	hsa-miR-16-5p	ELK4	TP53
CDX2	hsa-miR-4684-5p	STAT3	hsa-miR-16-5p	GABPA	PTGS2
CDX2	hsa-miR-589-5p	PTGS2	hsa-miR-16-5p	GABPA	TP53
CDX2	hsa-miR-4659a-3p	TLR4	hsa-miR-16-5p	GABPA	NFKB1
CDX2	hsa-miR-940	HIF1A	hsa-miR-16-5p	GABPA	SMAD3
CDX2	hsa-miR-106b-3p	HIF1A	hsa-miR-17-5p	CLOCK	TP53
CDX2	hsa-miR-4271	TP53	hsa-miR-17-5p	CLOCK	SMAD3
CDX2	hsa-miR-200a-3p	TP53	hsa-miR-17-5p	HIF1A	TGFB1
CDX2	hsa-miR-200a-3p	SMAD3	hsa-miR-17-5p	HIF1A	PTGS2
CDX2	hsa-miR-4659b-3p	TLR4	hsa-miR-17-5p	ZBTB7A	TGFB1
CDX2	hsa-miR-6837-5p	STAT3	hsa-miR-17-5p	ZBTB7A	HIF1A
CDX2	hsa-miR-106b-5p	STAT3	hsa-miR-17-5p	ZBTB7A	SMAD3
CDX2	hsa-miR-106b-5p	HIF1A	hsa-miR-17-5p	SOX4	PTGS2
CDX2	hsa-miR-4279	TLR4	hsa-miR-17-5p	AFF1	HIF1A
CDX2	hsa-miR-5197-5p	TP53	hsa-miR-17-5p	KLF3	HIF1A
CDX2	hsa-miR-107	HIF1A	hsa-miR-17-5p	TCF4	TGFB1
CDX2	hsa-miR-744-5p	PTGS2	hsa-miR-17-5p	TCF4	TP53
CDX2	hsa-miR-744-5p	TGFB1	hsa-miR-17-5p	TCF4	HIF1A
CDX2	hsa-miR-4682	TP53	hsa-miR-17-5p	TCF4	SMAD3
CEBPA	hsa-miR-379-3p	PTGS2	hsa-miR-17-5p	TFAM	SMAD3
CEBPA	hsa-miR-193b-3p	SMAD3	hsa-miR-17-5p	TCF3	TGFB1
CEBPA	hsa-miR-4768-5p	STAT3	hsa-miR-17-5p	TCF3	TP53
CEBPA	hsa-let-7a-5p	PTGS2	hsa-miR-17-5p	TCF3	HIF1A
CEBPA	hsa-miR-4270	STAT3	hsa-miR-17-5p	ZBTB4	TGFB1

CEBPA	hsa-miR-4684-5p	STAT3	hsa-miR-17-5p	SP4	TGFB1
CEBPB	hsa-miR-3165	TP53	hsa-miR-17-5p	SP4	TP53
CEBPB	hsa-miR-558	PTGS2	hsa-miR-17-5p	SP4	HIF1A
CEBPB	hsa-miR-558	HIF1A	hsa-miR-17-5p	NR2C2	TP53
CEBPB	hsa-miR-210-3p	NFKB1	hsa-miR-17-5p	CREB1	TGFB1
CEBPB	hsa-miR-210-3p	HIF1A	hsa-miR-17-5p	CREB1	PTGS2
CEBPB	hsa-miR-150-5p	TP53	hsa-miR-17-5p	CREB1	HIF1A
CEBPB	hsa-miR-379-3p	PTGS2	hsa-miR-17-5p	CREB1	SMAD3
CEBPB	hsa-miR-4684-5p	STAT3	hsa-miR-17-5p	CREB1	TP53
CEBPB	hsa-miR-130b-3p	STAT3	hsa-miR-17-5p	GATA6	TGFB1
CEBPB	hsa-miR-143-3p	PTGS2	hsa-miR-17-5p	GATA6	PTGS2
CEBPB	hsa-miR-143-3p	TNF	hsa-miR-17-5p	GATA6	HIF1A
CEBPB	hsa-miR-143-3p	SMAD3	hsa-miR-17-5p	GATA6	SMAD3
CEBPB	hsa-miR-296-3p	PTGS2	hsa-miR-17-5p	GATA6	TP53
CEBPB	hsa-miR-22-3p	HIF1A	hsa-miR-17-5p	TP53	TGFB1
CEBPB	hsa-miR-4470	HIF1A	hsa-miR-17-5p	TP53	PTGS2
CEBPB	hsa-miR-484	IL2	hsa-miR-17-5p	TP53	SMAD3
CEBPB	hsa-miR-146b-5p	NFKB1	hsa-miR-17-5p	E2F2	PTGS2
CEBPB	hsa-miR-4270	STAT3	hsa-miR-17-5p	E2F2	TP53
CEBPB	hsa-miR-199a-3p	PTGS2	hsa-miR-17-5p	E2F2	HIF1A
CEBPB	hsa-miR-144-3p	TGFB1	hsa-miR-17-5p	E2F2	SMAD3
CEBPB	hsa-miR-6755-5p	HIF1A	hsa-miR-17-5p	ETV1	TGFB1
CEBPB	hsa-miR-92b-3p	SMAD3	hsa-miR-17-5p	ETV1	TP53
CEBPB	hsa-miR-124-3p	IL6	hsa-miR-17-5p	ETV1	HIF1A
CEBPB	hsa-miR-124-3p	PTGS2	hsa-miR-17-5p	ETV1	PTGS2
CEBPB	hsa-miR-124-3p	STAT3	hsa-miR-17-5p	NFAT5	TGFB1
CEBPB	hsa-miR-106b-5p	STAT3	hsa-miR-17-5p	NFAT5	PTGS2
CEBPB	hsa-miR-106b-5p	HIF1A	hsa-miR-17-5p	NFAT5	HIF1A
CEBPB	hsa-miR-181c-5p	IL2	hsa-miR-17-5p	NFAT5	SMAD3
CEBPB	hsa-miR-199b-5p	HIF1A	hsa-miR-17-5p	NFAT5	TP53
CEBPB	hsa-miR-101-3p	PTGS2	hsa-miR-17-5p	E2F3	TP53
CEBPB	hsa-miR-18a-3p	SMAD3	hsa-miR-17-5p	E2F3	HIF1A
CEBPB	hsa-miR-4799-5p	HIF1A	hsa-miR-17-5p	E2F1	PTGS2
CEBPB	hsa-miR-4282	HIF1A	hsa-miR-17-5p	E2F1	TP53
CEBPB	hsa-miR-24-3p	TGFB1	hsa-miR-17-5p	E2F1	HIF1A
CEBPB	hsa-miR-26a-5p	IL6	hsa-miR-17-5p	E2F1	SMAD3

CEBPB	hsa-miR-3128	HIF1A	hsa-miR-17-5p	WHSC1	TP53
CEBPB	hsa-miR-324-3p	TGFB1	hsa-miR-17-5p	WHSC1	HIF1A
CEBPB	hsa-miR-93-5p	TGFB1	hsa-miR-17-5p	TCF7L2	TGFB1
CEBPB	hsa-miR-93-5p	STAT3	hsa-miR-17-5p	TCF7L2	PTGS2
CEBPB	hsa-miR-93-5p	HIF1A	hsa-miR-17-5p	TCF7L2	HIF1A
CEBPB	hsa-miR-5702	TP53	hsa-miR-17-5p	TCF7L2	SMAD3
CEBPB	hsa-miR-137	PTGS2	hsa-miR-17-5p	TCF7L2	TP53
CEBPB	hsa-miR-19b-3p	TGFB1	hsa-miR-17-5p	HBP1	PTGS2
CEBPB	hsa-miR-19b-3p	TP53	hsa-miR-17-5p	HBP1	SMAD3
CEBPB	hsa-miR-589-5p	PTGS2	hsa-miR-17-5p	HBP1	HIF1A
CEBPB	hsa-miR-6789-3p	STAT3	hsa-miR-17-5p	HBP1	TGFB1
CEBPB	hsa-miR-1322	HIF1A	hsa-miR-17-5p	SPIB	TP53
CEBPB	hsa-miR-6875-3p	STAT3	hsa-miR-17-5p	RUNX3	PTGS2
CEBPB	hsa-miR-200a-3p	TP53	hsa-miR-17-5p	RUNX3	TP53
CEBPB	hsa-miR-200a-3p	SMAD3	hsa-miR-17-5p	RUNX3	HIF1A
CEBPB	hsa-miR-138-5p	HIF1A	hsa-miR-17-5p	RUNX3	TGFB1
CEBPB	hsa-miR-5197-5p	TP53	hsa-miR-17-5p	RUNX1	PTGS2
CEBPB	hsa-miR-34b-5p	HIF1A	hsa-miR-17-5p	RUNX1	TP53
CEBPB	hsa-miR-320a	PTGS2	hsa-miR-17-5p	RUNX1	HIF1A
CEBPB	hsa-miR-18a-5p	TP53	hsa-miR-17-5p	RUNX1	TGFB1
CEBPB	hsa-miR-18a-5p	HIF1A	hsa-miR-17-5p	ELK4	PTGS2
CEBPB	hsa-miR-18a-5p	SMAD3	hsa-miR-17-5p	ELK4	TP53
CEBPB	hsa-miR-9-5p	NFKB1	hsa-miR-17-5p	MXI1	TGFB1
CEBPB	hsa-miR-625-3p	HIF1A	hsa-miR-17-5p	MXI1	PTGS2
CEBPB	hsa-miR-1908-5p	PTGS2	hsa-miR-17-5p	MXI1	HIF1A
CEBPB	hsa-miR-5193	TP53	hsa-miR-17-5p	MXI1	SMAD3
CEBPB	hsa-miR-6809-3p	STAT3	hsa-miR-17-5p	MXI1	TP53
CEBPB	hsa-miR-19a-3p	TNF	hsa-miR-17-5p	ATF3	PTGS2
CEBPB	hsa-miR-19a-3p	TP53	hsa-miR-17-5p	ATF3	TP53
CEBPB	hsa-miR-6760-5p	TP53	hsa-miR-17-5p	ATF3	HIF1A
CEBPB	hsa-miR-365a-3p	IL6	hsa-miR-17-5p	ATF3	TGFB1
CEBPB	hsa-miR-935	HIF1A	hsa-miR-181a-5p	CDX2	PTGS2
CEBPB	hsa-miR-454-3p	TP53	hsa-miR-181a-5p	CDX2	STAT3
CEBPB	hsa-miR-2682-5p	HIF1A	hsa-miR-181a-5p	NFYB	PTGS2
CEBPB	hsa-miR-142-3p	IL6	hsa-miR-181a-5p	NFYB	STAT3
CEBPB	hsa-miR-6815-3p	HIF1A	hsa-miR-181a-5p	RCOR1	PTGS2

CEBPB	hsa-miR-30e-5p	TP53	hsa-miR-181a-5p	RCOR1	STAT3
CEBPB	hsa-miR-17-5p	TGFB1	hsa-miR-181a-5p	OTX2	PTGS2
CEBPB	hsa-miR-17-5p	PTGS2	hsa-miR-181a-5p	OTX2	STAT3
CEBPB	hsa-miR-17-5p	HIF1A	hsa-miR-181a-5p	STAT3	PTGS2
CEBPB	hsa-miR-17-5p	SMAD3	hsa-miR-181a-5p	PBX3	STAT3
CEBPB	hsa-miR-17-5p	TP53	hsa-miR-181a-5p	ETS1	PTGS2
CEBPB	hsa-let-7a-5p	IL6	hsa-miR-181a-5p	ETS1	STAT3
CEBPB	hsa-let-7a-5p	PTGS2	hsa-miR-181a-5p	TCF21	PTGS2
CEBPB	hsa-let-7a-5p	NFKB1	hsa-miR-181a-5p	FOS	PTGS2
CEBPB	hsa-miR-6872-3p	STAT3	hsa-miR-181a-5p	FOS	STAT3
CEBPB	hsa-miR-365a-5p	STAT3	hsa-miR-181a-5p	ZNF83	STAT3
CEBPB	hsa-miR-1181	STAT3	hsa-miR-181a-5p	SNAI2	PTGS2
CEBPB	hsa-miR-424-5p	HIF1A	hsa-miR-181a-5p	SNAI2	STAT3
CEBPB	hsa-miR-138-2-3p	STAT3	hsa-miR-181a-5p	WHSC1	STAT3
CEBPB	hsa-miR-100-5p	PTGS2	hsa-miR-181a-5p	MAZ	PTGS2
CEBPB	hsa-miR-193b-3p	SMAD3	hsa-miR-181a-5p	MAZ	STAT3
CEBPB	hsa-miR-4516	STAT3	hsa-miR-181a-5p	ELK4	PTGS2
CEBPB	hsa-miR-4516	TP53	hsa-miR-181a-5p	ELK4	STAT3
CEBPB	hsa-miR-21-5p	TGFB1	hsa-miR-181a-5p	KDM5A	PTGS2
CEBPB	hsa-miR-21-5p	HIF1A	hsa-miR-181a-5p	KDM5A	STAT3
CEBPB	hsa-miR-21-5p	NFKB1	hsa-miR-18a-3p	NFIC	SMAD3
CEBPB	hsa-miR-211-5p	TGFB1	hsa-miR-18a-3p	UBTF	SMAD3
CEBPB	hsa-miR-199a-5p	PTGS2	hsa-miR-18a-3p	SRF	SMAD3
CEBPB	hsa-miR-199a-5p	HIF1A	hsa-miR-18a-5p	IRF2	TP53
CEBPB	hsa-miR-199a-5p	NFKB1	hsa-miR-18a-5p	IRF2	HIF1A
CEBPB	hsa-miR-145-5p	SMAD3	hsa-miR-18a-5p	NR3C1	TP53
CEBPB	hsa-miR-449c-5p	HIF1A	hsa-miR-18a-5p	NR3C1	HIF1A
CEBPB	hsa-let-7b-5p	PTGS2	hsa-miR-18a-5p	NR3C1	SMAD3
CEBPB	hsa-let-7b-5p	HIF1A	hsa-miR-18a-5p	TP53	SMAD3
CEBPB	hsa-miR-3609	HIF1A	hsa-miR-18a-5p	ETS2	TP53
CEBPB	hsa-miR-20a-5p	TP53	hsa-miR-18a-5p	ETS2	HIF1A
CEBPB	hsa-miR-20a-5p	HIF1A	hsa-miR-18a-5p	ETS2	SMAD3
CEBPB	hsa-miR-106b-3p	HIF1A	hsa-miR-18a-5p	SMAD2	SMAD3
CEBPB	hsa-miR-7158-5p	STAT3	hsa-miR-18a-5p	GABPA	TP53
CEBPB	hsa-miR-107	IL6	hsa-miR-18a-5p	GABPA	HIF1A
CEBPB	hsa-miR-107	HIF1A	hsa-miR-18a-5p	GABPA	SMAD3

CEBPD	hsa-miR-618	STAT3	hsa-miR-18b-5p	IRF2	HIF1A
CEBPD	hsa-miR-4487	HIF1A	hsa-miR-18b-5p	ESR1	HIF1A
CEBPD	hsa-miR-200a-3p	TP53	hsa-miR-18b-5p	CUX1	HIF1A
CEBPD	hsa-miR-200a-3p	SMAD3	hsa-miR-1908-5p	BARHL1	PTGS2
CEBPD	hsa-miR-210-3p	HIF1A	hsa-miR-1910-3p	AR	HIF1A
CEBPD	hsa-miR-150-5p	TP53	hsa-miR-193b-3p	E2F6	SMAD3
CEBPD	hsa-miR-145-5p	SMAD3	hsa-miR-193b-3p	IRF1	SMAD3
CEBPD	hsa-miR-4441	STAT3	hsa-miR-193b-3p	E2F2	SMAD3
CEBPD	hsa-miR-5193	TP53	hsa-miR-193b-3p	E2F1	SMAD3
CEBPD	hsa-miR-663a	TGFB1	hsa-miR-193b-3p	MAZ	SMAD3
CLOCK	hsa-miR-18a-5p	TP53	hsa-miR-193b-3p	TEAD2	SMAD3
CLOCK	hsa-miR-18a-5p	SMAD3	hsa-miR-193b-3p	DLX1	SMAD3
CLOCK	hsa-miR-18a-3p	SMAD3	hsa-miR-195-5p	E2F7	SMAD3
CLOCK	hsa-miR-5702	TP53	hsa-miR-195-5p	MBD4	SMAD3
CREB1	hsa-miR-132-3p	PTGS2	hsa-miR-195-5p	MAFK	SMAD3
CREB1	hsa-miR-210-3p	NFKB1	hsa-miR-195-5p	HOXA10	SMAD3
CREB1	hsa-miR-210-3p	HIF1A	hsa-miR-199a-3p	E2F2	PTGS2
CREB1	hsa-miR-150-5p	TP53	hsa-miR-199a-3p	ETS2	PTGS2
CREB1	hsa-miR-1908-5p	PTGS2	hsa-miR-199a-5p	E2F3	HIF1A
CREB1	hsa-miR-365a-5p	STAT3	hsa-miR-199a-5p	SMAD4	PTGS2
CREB1	hsa-let-7b-5p	PTGS2	hsa-miR-199a-5p	SMAD4	HIF1A
CREB1	hsa-let-7b-5p	HIF1A	hsa-miR-199a-5p	JUNB	NFKB1
CREB1	hsa-miR-33a-5p	HIF1A	hsa-miR-199a-5p	JUNB	HIF1A
CREB1	hsa-miR-6809-3p	STAT3	hsa-miR-199a-5p	HIF1A	PTGS2
CREB1	hsa-miR-1181	STAT3	hsa-miR-199a-5p	HIF1A	NFKB1
CREB1	hsa-miR-22-3p	HIF1A	hsa-miR-199a-5p	ETS2	PTGS2
CREB1	hsa-miR-193b-3p	SMAD3	hsa-miR-199a-5p	ETS2	HIF1A
CREB1	hsa-miR-935	HIF1A	hsa-miR-199a-5p	ETS2	NFKB1
CREB1	hsa-miR-2682-5p	HIF1A	hsa-miR-199a-5p	GATA6	PTGS2
CREB1	hsa-miR-155-5p	NFKB1	hsa-miR-199a-5p	GATA6	HIF1A
CREB1	hsa-miR-155-5p	SMAD3	hsa-miR-199a-5p	GATA6	NFKB1
CREB1	hsa-miR-4531	TP53	hsa-miR-199a-5p	MAFB	PTGS2
CREB1	hsa-miR-21-5p	TGFB1	hsa-miR-199a-5p	MAFB	HIF1A
CREB1	hsa-miR-21-5p	HIF1A	hsa-miR-199b-5p	HES1	HIF1A
CREB1	hsa-miR-21-5p	NFKB1	hsa-miR-199b-5p	E2F3	HIF1A
CREB1	hsa-miR-6815-3p	HIF1A	hsa-miR-19a-3p	YY1	TNF

CREB1	hsa-miR-137	PTGS2	hsa-miR-19a-3p	YY1	TP53
CREB1	hsa-miR-449c-5p	HIF1A	hsa-miR-19a-3p	RCOR1	TNF
CREB1	hsa-miR-24-3p	TGFB1	hsa-miR-19a-3p	RCOR1	TP53
CREB1	hsa-miR-663a	TGFB1	hsa-miR-19a-3p	E2F8	TP53
CREB1	hsa-miR-6872-3p	STAT3	hsa-miR-19a-3p	IKZF1	TNF
CREB1	hsa-miR-6789-3p	STAT3	hsa-miR-19a-3p	MXD1	TP53
CREB1	hsa-miR-6875-3p	STAT3	hsa-miR-19a-3p	MBD4	TP53
CREB1	hsa-miR-3662	HIF1A	hsa-miR-19a-3p	MBD3	TNF
CREB1	hsa-miR-124-3p	PTGS2	hsa-miR-19a-3p	MBD3	TP53
CREB1	hsa-miR-124-3p	STAT3	hsa-miR-19b-3p	YY1	TGFB1
CREB1	hsa-miR-106b-3p	HIF1A	hsa-miR-19b-3p	YY1	TP53
CREB1	hsa-miR-92b-3p	SMAD3	hsa-miR-19b-3p	CLOCK	TP53
CREB1	hsa-miR-320a	PTGS2	hsa-miR-19b-3p	RCOR1	TGFB1
CTCF	hsa-miR-1178-3p	STAT3	hsa-miR-19b-3p	RCOR1	TP53
CTCF	hsa-miR-3165	TP53	hsa-miR-19b-3p	MYBL2	TGFB1
CTCF	hsa-miR-558	PTGS2	hsa-miR-19b-3p	MYBL2	TP53
CTCF	hsa-miR-558	HIF1A	hsa-miR-19b-3p	MEF2A	TGFB1
CTCF	hsa-miR-3934-5p	PTGS2	hsa-miR-19b-3p	MXD1	TP53
CTCF	hsa-miR-513b-3p	TP53	hsa-miR-19b-3p	TCF4	TGFB1
CTCF	hsa-miR-210-3p	FOXP3	hsa-miR-19b-3p	TCF4	TP53
CTCF	hsa-miR-210-3p	HIF1A	hsa-miR-19b-3p	ZBTB4	TGFB1
CTCF	hsa-miR-210-3p	NFKB1	hsa-miR-19b-3p	CREB1	TGFB1
CTCF	hsa-miR-150-5p	TP53	hsa-miR-19b-3p	CREB1	TP53
CTCF	hsa-miR-379-3p	PTGS2	hsa-miR-19b-3p	GMEB2	TGFB1
CTCF	hsa-miR-5094	HIF1A	hsa-miR-19b-3p	GMEB2	TP53
CTCF	hsa-miR-5095	STAT3	hsa-miR-19b-3p	TP53	TGFB1
CTCF	hsa-miR-4684-5p	STAT3	hsa-miR-19b-3p	E2F8	TP53
CTCF	hsa-miR-130b-3p	STAT3	hsa-miR-19b-3p	MBD4	TP53
CTCF	hsa-miR-18b-5p	HIF1A	hsa-miR-19b-3p	HOXA5	TGFB1
CTCF	hsa-miR-576-3p	HIF1A	hsa-miR-19b-3p	MBD3	TGFB1
CTCF	hsa-miR-877-3p	STAT3	hsa-miR-19b-3p	MBD3	TP53
CTCF	hsa-miR-942-5p	TLR4	hsa-miR-19b-3p	HBP1	TGFB1
CTCF	hsa-miR-143-3p	PTGS2	hsa-miR-200a-3p	SRF	TP53
CTCF	hsa-miR-143-3p	TNF	hsa-miR-200a-3p	SRF	SMAD3
CTCF	hsa-miR-143-3p	SMAD3	hsa-miR-200a-3p	TP53	SMAD3
CTCF	hsa-miR-214-3p	TP53	hsa-miR-200a-3p	SMAD2	SMAD3

CTCF	hsa-miR-296-3p	PTGS2	hsa-miR-200a-3p	TFAM	SMAD3
CTCF	hsa-miR-22-3p	HIF1A	hsa-miR-200a-3p	ZEB1	TP53
CTCF	hsa-miR-622	TP53	hsa-miR-200a-3p	ZEB1	SMAD3
CTCF	hsa-miR-6722-3p	TP53	hsa-miR-203a-3p	CLOCK	IL6
CTCF	hsa-miR-5681a	STAT3	hsa-miR-203a-3p	JUN	IL6
CTCF	hsa-miR-4282	HIF1A	hsa-miR-203a-3p	MAFK	IL6
CTCF	hsa-miR-484	IL2	hsa-miR-203a-3p	SMAD2	TNF
CTCF	hsa-miR-4748	HIF1A	hsa-miR-203a-3p	HOXA1	IL6
CTCF	hsa-miR-548g-3p	TLR4	hsa-miR-203a-3p	ZEB1	TNF
CTCF	hsa-miR-608	TP53	hsa-miR-20a-5p	CLOCK	TP53
CTCF	hsa-miR-6845-3p	STAT3	hsa-miR-20a-5p	EGR2	TP53
CTCF	hsa-miR-30b-5p	TP53	hsa-miR-20a-5p	EGR2	HIF1A
CTCF	hsa-miR-4768-5p	STAT3	hsa-miR-20a-5p	BACH1	TP53
CTCF	hsa-miR-146b-5p	NFKB1	hsa-miR-20a-5p	BACH1	HIF1A
CTCF	hsa-miR-146b-5p	TLR4	hsa-miR-20a-5p	AFF1	HIF1A
CTCF	hsa-miR-92a-3p	NFKB1	hsa-miR-20a-5p	KLF3	HIF1A
CTCF	hsa-miR-26a-5p	IL6	hsa-miR-20a-5p	TCF4	TP53
CTCF	hsa-miR-5681b	HIF1A	hsa-miR-20a-5p	TCF4	HIF1A
CTCF	hsa-miR-6807-3p	HIF1A	hsa-miR-20a-5p	ZBTB7A	HIF1A
CTCF	hsa-miR-199a-3p	PTGS2	hsa-miR-20a-5p	NFAT5	TP53
CTCF	hsa-miR-874-3p	STAT3	hsa-miR-20a-5p	NFAT5	HIF1A
CTCF	hsa-miR-3160-3p	HIF1A	hsa-miR-20a-5p	SP4	TP53
CTCF	hsa-miR-4271	TP53	hsa-miR-20a-5p	SP4	HIF1A
CTCF	hsa-miR-1972	TP53	hsa-miR-20a-5p	REST	TP53
CTCF	hsa-miR-548ah-5p	HIF1A	hsa-miR-20a-5p	REST	HIF1A
CTCF	hsa-miR-4270	STAT3	hsa-miR-20a-5p	NR2C2	TP53
CTCF	hsa-miR-8055	HIF1A	hsa-miR-20a-5p	PPARG	HIF1A
CTCF	hsa-miR-30d-5p	TP53	hsa-miR-20a-5p	CREB1	TP53
CTCF	hsa-miR-144-3p	TGFB1	hsa-miR-20a-5p	CREB1	HIF1A
CTCF	hsa-miR-98-5p	IL6	hsa-miR-20a-5p	GATA6	TP53
CTCF	hsa-miR-7113-5p	STAT3	hsa-miR-20a-5p	GATA6	HIF1A
CTCF	hsa-let-7i-5p	TLR4	hsa-miR-20a-5p	ETV1	TP53
CTCF	hsa-miR-4487	HIF1A	hsa-miR-20a-5p	ETV1	HIF1A
CTCF	hsa-miR-6755-5p	HIF1A	hsa-miR-20a-5p	IRF2	TP53
CTCF	hsa-miR-92b-3p	SMAD3	hsa-miR-20a-5p	IRF2	HIF1A
CTCF	hsa-miR-4659b-3p	TLR4	hsa-miR-20a-5p	E2F3	TP53

CTCF	hsa-miR-1234-3p	STAT3	hsa-miR-20a-5p	E2F3	HIF1A
CTCF	hsa-miR-106b-5p	STAT3	hsa-miR-20a-5p	E2F2	TP53
CTCF	hsa-miR-106b-5p	HIF1A	hsa-miR-20a-5p	E2F2	HIF1A
CTCF	hsa-miR-203a-3p	IL6	hsa-miR-20a-5p	E2F1	TP53
CTCF	hsa-miR-203a-3p	TNF	hsa-miR-20a-5p	E2F1	HIF1A
CTCF	hsa-miR-124-3p	IL6	hsa-miR-20a-5p	WHSC1	TP53
CTCF	hsa-miR-124-3p	PTGS2	hsa-miR-20a-5p	WHSC1	HIF1A
CTCF	hsa-miR-124-3p	STAT3	hsa-miR-20a-5p	TCF7L2	TP53
CTCF	hsa-miR-181c-5p	IL2	hsa-miR-20a-5p	TCF7L2	HIF1A
CTCF	hsa-miR-15a-5p	NFKB1	hsa-miR-20a-5p	HBP1	HIF1A
CTCF	hsa-miR-15a-5p	TP53	hsa-miR-20a-5p	SPIB	TP53
CTCF	hsa-miR-15a-5p	SMAD3	hsa-miR-20a-5p	RUNX3	TP53
CTCF	hsa-miR-199b-5p	HIF1A	hsa-miR-20a-5p	RUNX3	HIF1A
CTCF	hsa-miR-744-5p	PTGS2	hsa-miR-20a-5p	RUNX1	TP53
CTCF	hsa-miR-744-5p	TGFB1	hsa-miR-20a-5p	RUNX1	HIF1A
CTCF	hsa-miR-101-3p	PTGS2	hsa-miR-20a-5p	ELK4	TP53
CTCF	hsa-miR-365b-5p	STAT3	hsa-miR-20b-5p	SMAD4	HIF1A
CTCF	hsa-miR-92a-1-5p	TP53	hsa-miR-20b-5p	ZBTB7A	HIF1A
CTCF	hsa-miR-18a-3p	SMAD3	hsa-miR-20b-5p	AFF1	HIF1A
CTCF	hsa-miR-4279	TLR4	hsa-miR-20b-5p	KLF3	HIF1A
CTCF	hsa-miR-5003-5p	TP53	hsa-miR-20b-5p	TCF4	HIF1A
CTCF	hsa-miR-139-5p	NFKB1	hsa-miR-20b-5p	SP4	HIF1A
CTCF	hsa-miR-889-3p	HIF1A	hsa-miR-20b-5p	CREB1	HIF1A
CTCF	hsa-miR-491-5p	TP53	hsa-miR-20b-5p	PPARG	HIF1A
CTCF	hsa-miR-491-5p	SMAD3	hsa-miR-20b-5p	REST	HIF1A
CTCF	hsa-miR-4799-5p	HIF1A	hsa-miR-20b-5p	GATA6	HIF1A
CTCF	hsa-miR-4685-5p	STAT3	hsa-miR-20b-5p	NFAT5	HIF1A
CTCF	hsa-miR-365a-5p	STAT3	hsa-miR-20b-5p	E2F3	HIF1A
CTCF	hsa-miR-6754-5p	STAT3	hsa-miR-20b-5p	E2F2	HIF1A
CTCF	hsa-miR-4286	TP53	hsa-miR-20b-5p	E2F1	HIF1A
CTCF	hsa-miR-4778-3p	STAT3	hsa-miR-20b-5p	ESR1	HIF1A
CTCF	hsa-miR-6133	TP53	hsa-miR-20b-5p	WHSC1	HIF1A
CTCF	hsa-miR-6130	TP53	hsa-miR-20b-5p	TCF7L2	HIF1A
CTCF	hsa-miR-199a-5p	PTGS2	hsa-miR-20b-5p	HBP1	HIF1A
CTCF	hsa-miR-199a-5p	HIF1A	hsa-miR-20b-5p	RUNX3	HIF1A
CTCF	hsa-miR-199a-5p	NFKB1	hsa-miR-20b-5p	MXI1	HIF1A

CTCF	hsa-miR-15b-5p	SMAD3	hsa-miR-210-3p	E2F3	HIF1A
CTCF	hsa-miR-99a-5p	PTGS2	hsa-miR-210-3p	MNT	HIF1A
CTCF	hsa-miR-10b-5p	TP53	hsa-miR-210-3p	HIF1A	NFKB1
CTCF	hsa-miR-3658	TLR4	hsa-miR-210-3p	ELK3	NFKB1
CTCF	hsa-miR-5692a	HIF1A	hsa-miR-210-3p	HOXA1	NFKB1
CTCF	hsa-miR-92a-2-5p	TP53	hsa-miR-210-3p	HOXA1	HIF1A
CTCF	hsa-miR-4662a-5p	HIF1A	hsa-miR-210-3p	MITF	NFKB1
CTCF	hsa-miR-4499	HIF1A	hsa-miR-210-3p	MITF	HIF1A
CTCF	hsa-miR-6511a-5p	HIF1A	hsa-miR-211-5p	NFAT5	TGFB1
CTCF	hsa-miR-3128	HIF1A	hsa-miR-211-5p	NFATC1	TGFB1
CTCF	hsa-miR-4738-3p	TLR4	hsa-miR-211-5p	SP1	TGFB1
CTCF	hsa-miR-4418	HIF1A	hsa-miR-211-5p	TCF12	TGFB1
CTCF	hsa-miR-6871-3p	STAT3	hsa-miR-211-5p	SNAI2	TGFB1
CTCF	hsa-miR-93-5p	TGFB1	hsa-miR-211-5p	POU2F2	TGFB1
CTCF	hsa-miR-93-5p	STAT3	hsa-miR-214-3p	TFAP2A	TP53
CTCF	hsa-miR-93-5p	HIF1A	hsa-miR-214-3p	NFIC	TP53
CTCF	hsa-miR-187-3p	TNF	hsa-miR-214-3p	XBP1	TP53
CTCF	hsa-miR-329-5p	HIF1A	hsa-miR-21-5p	HIF1A	TGFB1
CTCF	hsa-miR-5702	TP53	hsa-miR-21-5p	HIF1A	NFKB1
CTCF	hsa-miR-4419a	TP53	hsa-miR-21-5p	TP63	NFKB1
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CTCF	hsa-miR-652-3p	PTGS2	hsa-miR-21-5p	TCF21	NFKB1
CTCF	hsa-miR-8071	TP53	hsa-miR-21-5p	TCF21	HIF1A
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CTCF	hsa-miR-1-3p	TLR4	hsa-miR-21-5p	KLF9	HIF1A
CTCF	hsa-miR-4290	SMAD3	hsa-miR-21-5p	KLF9	NFKB1
CTCF	hsa-miR-6893-5p	HIF1A	hsa-miR-21-5p	NFAT5	TGFB1
CTCF	hsa-miR-337-3p	STAT3	hsa-miR-21-5p	NFAT5	HIF1A
CTCF	hsa-miR-663a	TGFB1	hsa-miR-21-5p	NFAT5	NFKB1
CTCF	hsa-miR-365a-3p	IL6	hsa-miR-21-5p	E2F3	HIF1A
CTCF	hsa-miR-149-3p	TP53	hsa-miR-21-5p	E2F2	HIF1A
CTCF	hsa-miR-589-5p	PTGS2	hsa-miR-21-5p	E2F1	NFKB1
CTCF	hsa-miR-605-5p	TP53	hsa-miR-21-5p	E2F1	HIF1A
CTCF	hsa-miR-940	HIF1A	hsa-miR-21-5p	WHSC1	NFKB1
CTCF	hsa-miR-4306	TP53	hsa-miR-21-5p	WHSC1	HIF1A
CTCF	hsa-miR-1910-3p	HIF1A	hsa-miR-21-5p	MEF2C	NFKB1

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CTCF	hsa-miR-200a-3p	SMAD3	hsa-miR-21-5p	BCL6	HIF1A
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CTCF	hsa-miR-19a-3p	TNF	hsa-miR-21-5p	ATF2	TGFB1
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CTCF	hsa-miR-19b-3p	TGFB1	hsa-miR-21-5p	ATF2	NFKB1
CTCF	hsa-miR-19b-3p	TP53	hsa-miR-217	E2F3	HIF1A
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CTCF	hsa-miR-34b-5p	HIF1A	hsa-miR-217	TCF7L2	HIF1A
CTCF	hsa-miR-630	TLR4	hsa-miR-223-3p	E2F1	TP53
CTCF	hsa-miR-335-5p	IL6	hsa-miR-223-3p	SP1	TP53
CTCF	hsa-miR-335-5p	PTGS2	hsa-miR-223-3p	MEF2C	IL6
CTCF	hsa-miR-335-5p	IL17A	hsa-miR-223-3p	PRDM1	IL6
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CTCF	hsa-miR-335-5p	SMAD3	hsa-miR-22-3p	FOXP1	HIF1A
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CTCF	hsa-miR-31-5p	FOXP3	hsa-miR-24-3p	NFAT5	TGFB1
CTCF	hsa-miR-4694-3p	TLR4	hsa-miR-24-3p	HSF2	TGFB1
CTCF	hsa-miR-26b-5p	NFKB1	hsa-miR-24-3p	MXI1	TGFB1
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CTCF	hsa-miR-1296-3p	TP53	hsa-miR-24-3p	ATF3	TGFB1
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CTCF	hsa-miR-1264	TP53	hsa-miR-26a-5p	UBTF	IL6
CTCF	hsa-miR-9-5p	NFKB1	hsa-miR-26a-5p	AHR	IL6
CTCF	hsa-miR-625-3p	HIF1A	hsa-miR-26b-5p	BATF	NFKB1
CTCF	hsa-miR-371b-3p	STAT3	hsa-miR-26b-5p	FOXM1	NFKB1
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CTCF	hsa-miR-5193	TP53	hsa-miR-26b-5p	NKX2-2	PTGS2
CTCF	hsa-miR-151a-3p	HIF1A	hsa-miR-26b-5p	IKZF1	NFKB1
CTCF	hsa-miR-7110-3p	STAT3	hsa-miR-26b-5p	ZKSCAN1	PTGS2
CTCF	hsa-miR-146a-5p	PTGS2	hsa-miR-26b-5p	NFE2L2	PTGS2
CTCF	hsa-miR-146a-5p	TLR4	hsa-miR-26b-5p	JUN	NFKB1
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CTCF	hsa-miR-6809-3p	STAT3	hsa-miR-26b-5p	BCLAF1	NFKB1
CTCF	hsa-miR-6808-5p	HIF1A	hsa-miR-26b-5p	MTA3	NFKB1
CTCF	hsa-miR-16-5p	PTGS2	hsa-miR-26b-5p	SRF	NFKB1
CTCF	hsa-miR-16-5p	TP53	hsa-miR-26b-5p	SRF	PTGS2
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CTCF	hsa-miR-16-5p	SMAD3	hsa-miR-26b-5p	TCF12	NFKB1
CTCF	hsa-miR-6806-5p	HIF1A	hsa-miR-26b-5p	TCF12	PTGS2
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CTCF	hsa-miR-5197-5p	TP53	hsa-miR-26b-5p	GATA4	PTGS2
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CTCF	hsa-miR-935	HIF1A	hsa-miR-26b-5p	GATA2	PTGS2
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CTCF	hsa-miR-4531	TP53	hsa-miR-26b-5p	ATF3	PTGS2
CTCF	hsa-miR-132-3p	PTGS2	hsa-miR-296-3p	SPI1	PTGS2
CTCF	hsa-miR-6815-3p	HIF1A	hsa-miR-296-3p	TFAP2A	PTGS2
CTCF	hsa-miR-153-5p	HIF1A	hsa-miR-296-3p	MAZ	PTGS2
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CTCF	hsa-miR-324-3p	TGFB1	hsa-miR-299-5p	KLF3	HIF1A
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CTCF	hsa-miR-4682	TP53	hsa-miR-29b-3p	MAZ	TGFB1
CTCF	hsa-miR-509-3-5p	HIF1A	hsa-miR-29b-3p	REST	TGFB1
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CTCF	hsa-let-7a-5p	IL6	hsa-miR-30b-5p	FOXG1	TP53
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CTCF	hsa-let-7a-5p	NFKB1	hsa-miR-30b-5p	SMAD1	TP53
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CTCF	hsa-miR-4735-3p	HIF1A	hsa-miR-30b-5p	TFDP1	TP53
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CTCF	hsa-miR-6878-5p	STAT3	hsa-miR-30b-5p	HEY1	TP53
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CTCF	hsa-miR-1181	STAT3	hsa-miR-30d-5p	SMAD1	TP53
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CTCF	hsa-miR-500b-3p	STAT3	hsa-miR-30e-5p	TFDP1	TP53
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CTCF	hsa-miR-6842-5p	TP53	hsa-miR-30e-5p	MYBL2	TP53
CTCF	hsa-miR-20a-5p	TP53	hsa-miR-3121-3p	TAL1	HIF1A
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CTCF	hsa-miR-6837-5p	STAT3	hsa-miR-3160-3p	ZNF250	HIF1A
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CTCF	hsa-miR-130a-3p	TGFB1	hsa-miR-320a	SMARCC2	PTGS2
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CTCF	hsa-miR-519d-3p	HIF1A	hsa-miR-329-5p	ZNF83	HIF1A
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CTCF	hsa-miR-29b-3p	TGFB1	hsa-miR-335-5p	JUND	PTGS2
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CTCF	hsa-miR-21-5p	TLR4	hsa-miR-335-5p	FOXO3	PTGS2
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CTCF	hsa-miR-526b-5p	TLR4	hsa-miR-335-5p	SOX4	IL6
CTCF	hsa-miR-145-5p	SMAD3	hsa-miR-335-5p	SOX4	PTGS2
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CTCF	hsa-miR-7-5p	TLR4	hsa-miR-335-5p	NANOG	PTGS2
CTCF	hsa-miR-519c-3p	HIF1A	hsa-miR-335-5p	NANOG	SMAD3
CTCF	hsa-miR-181a-5p	PTGS2	hsa-miR-335-5p	RARG	PTGS2
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CTCF	hsa-miR-20b-5p	HIF1A	hsa-miR-335-5p	EHF	SMAD3
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CTCF	hsa-miR-106a-5p	IL10	hsa-miR-335-5p	MAFF	IL6
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CTCF	hsa-let-7c-5p	IL6	hsa-miR-335-5p	USF2	IL17A
CTCF	hsa-let-7c-5p	PTGS2	hsa-miR-335-5p	USF2	TLR4
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CTCF	hsa-miR-107	HIF1A	hsa-miR-335-5p	MYC	PTGS2
CTCF	hsa-miR-4725-3p	TP53	hsa-miR-335-5p	MYC	TLR4
CTCFL	hsa-miR-663a	TGFB1	hsa-miR-335-5p	MYC	SMAD3
CTCFL	hsa-miR-6760-5p	TP53	hsa-miR-335-5p	KLF9	SMAD3
CUX1	hsa-miR-210-3p	NFKB1	hsa-miR-335-5p	LYL1	PTGS2
CUX1	hsa-miR-210-3p	HIF1A	hsa-miR-335-5p	LYL1	SMAD3
CUX1	hsa-miR-4799-5p	HIF1A	hsa-miR-335-5p	ATOH1	IL6
CUX1	hsa-miR-1972	TP53	hsa-miR-335-5p	ATOH1	PTGS2
CUX1	hsa-miR-942-5p	TLR4	hsa-miR-335-5p	NFAT5	PTGS2
CUX1	hsa-miR-199b-5p	HIF1A	hsa-miR-335-5p	NFAT5	SMAD3
CUX1	hsa-miR-22-3p	HIF1A	hsa-miR-335-5p	ASCL2	PTGS2
CUX1	hsa-miR-365a-3p	IL6	hsa-miR-335-5p	ASCL2	SMAD3
CUX1	hsa-miR-3128	HIF1A	hsa-miR-335-5p	SP1	PTGS2
CUX1	hsa-miR-142-3p	IL6	hsa-miR-335-5p	SP1	SMAD3
CUX1	hsa-miR-4650-5p	TP53	hsa-miR-335-5p	REST	IL6
CUX1	hsa-miR-5702	TP53	hsa-miR-335-5p	REST	PTGS2
CUX1	hsa-miR-3160-3p	HIF1A	hsa-miR-335-5p	REST	TLR4
CUX1	hsa-miR-5193	TP53	hsa-miR-335-5p	REST	SMAD3
CUX1	hsa-miR-17-5p	TGFB1	hsa-miR-335-5p	SALL4	SMAD3
CUX1	hsa-miR-17-5p	TP53	hsa-miR-335-5p	POU5F1	IL6
CUX1	hsa-miR-17-5p	HIF1A	hsa-miR-335-5p	POU5F1	PTGS2
CUX1	hsa-miR-17-5p	SMAD3	hsa-miR-335-5p	POU5F1	SMAD3
CUX1	hsa-miR-6872-3p	STAT3	hsa-miR-335-5p	EBF1	IL6
CUX1	hsa-miR-1322	HIF1A	hsa-miR-335-5p	EBF1	IL17A
CUX1	hsa-miR-4487	HIF1A	hsa-miR-335-5p	ZEB1	PTGS2
CUX1	hsa-miR-3662	HIF1A	hsa-miR-335-5p	ZEB1	SMAD3
CUX1	hsa-miR-365a-5p	STAT3	hsa-miR-335-5p	HEY1	SMAD3
CUX1	hsa-miR-1181	STAT3	hsa-miR-335-5p	ETV1	PTGS2
DLX1	hsa-miR-132-3p	PTGS2	hsa-miR-335-5p	ETV5	PTGS2
DLX1	hsa-miR-3934-5p	PTGS2	hsa-miR-335-5p	ETV5	SMAD3
DLX1	hsa-miR-130b-3p	STAT3	hsa-miR-335-5p	MXI1	IL6
DLX1	hsa-miR-5692a	HIF1A	hsa-miR-335-5p	MXI1	PTGS2
DLX1	hsa-miR-93-5p	STAT3	hsa-miR-335-5p	MXI1	IL17A

DLX1	hsa-miR-93-5p	HIF1A	hsa-miR-335-5p	MXI1	TLR4
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DLX1	hsa-miR-6807-3p	HIF1A	hsa-miR-335-5p	SPDEF	PTGS2
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DLX1	hsa-miR-106b-5p	STAT3	hsa-miR-335-5p	RFX2	SMAD3
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DLX1	hsa-miR-106b-3p	HIF1A	hsa-miR-335-5p	HBP1	PTGS2
DLX1	hsa-miR-335-5p	PTGS2	hsa-miR-335-5p	HBP1	SMAD3
DLX1	hsa-miR-335-5p	SMAD3	hsa-miR-335-5p	MYOD1	IL6
E2F1	hsa-miR-6872-3p	STAT3	hsa-miR-335-5p	MYOD1	SMAD3
E2F1	hsa-miR-365a-5p	STAT3	hsa-miR-335-5p	BHLHE40	IL6
E2F1	hsa-miR-935	HIF1A	hsa-miR-335-5p	BHLHE40	IL17A
E2F2	hsa-miR-5702	TP53	hsa-miR-335-5p	BHLHE40	TLR4
E2F3	hsa-miR-6807-3p	HIF1A	hsa-miR-335-5p	BHLHE40	SMAD3
E2F3	hsa-miR-5692a	HIF1A	hsa-miR-335-5p	MEF2A	IL17A
E2F3	hsa-miR-106b-3p	HIF1A	hsa-miR-335-5p	FOXA2	IL6
E2F4	hsa-miR-132-3p	PTGS2	hsa-miR-335-5p	FOXA2	PTGS2
E2F4	hsa-miR-30e-5p	TP53	hsa-miR-335-5p	FOXA2	SMAD3
E2F4	hsa-miR-18a-5p	TP53	hsa-miR-335-5p	HOXA2	PTGS2
E2F4	hsa-miR-18a-5p	HIF1A	hsa-miR-335-5p	ZMIZ1	IL6
E2F4	hsa-miR-500b-3p	STAT3	hsa-miR-335-5p	ZMIZ1	SMAD3
E2F4	hsa-miR-9-5p	NFKB1	hsa-miR-335-5p	BCL6	IL6
E2F4	hsa-miR-1908-5p	PTGS2	hsa-miR-335-5p	BCL6	TLR4
E2F4	hsa-miR-106a-3p	HIF1A	hsa-miR-335-5p	BCL6	SMAD3
E2F4	hsa-miR-130b-3p	STAT3	hsa-miR-335-5p	KDM5A	PTGS2
E2F4	hsa-miR-151a-3p	HIF1A	hsa-miR-335-5p	KDM5A	SMAD3
E2F4	hsa-let-7b-5p	PTGS2	hsa-miR-335-5p	KDM5B	IL6
E2F4	hsa-let-7b-5p	TLR4	hsa-miR-335-5p	KDM5B	PTGS2
E2F4	hsa-let-7b-5p	HIF1A	hsa-miR-335-5p	ATF2	IL6
E2F4	hsa-miR-942-5p	TLR4	hsa-miR-335-5p	ATF2	IL17A
E2F4	hsa-miR-16-5p	PTGS2	hsa-miR-335-5p	ATF2	SMAD3
E2F4	hsa-miR-16-5p	TP53	hsa-miR-337-3p	MTA3	STAT3
E2F4	hsa-miR-16-5p	NFKB1	hsa-miR-33a-5p	FOXP1	HIF1A
E2F4	hsa-miR-203a-3p	IL6	hsa-miR-33a-5p	SREBF1	HIF1A
E2F4	hsa-miR-203a-3p	TNF	hsa-miR-33a-5p	MYC	HIF1A
E2F4	hsa-miR-99a-5p	PTGS2	hsa-miR-33a-5p	KLF9	HIF1A

E2F4	hsa-miR-7-5p	TLR4	hsa-miR-34b-5p	MYC	HIF1A
E2F4	hsa-miR-22-3p	HIF1A	hsa-miR-34b-5p	MYB	HIF1A
E2F4	hsa-miR-5197-5p	TP53	hsa-miR-34b-5p	HNF4A	HIF1A
E2F4	hsa-miR-6722-3p	TP53	hsa-miR-34b-5p	CREB1	HIF1A
E2F4	hsa-miR-4470	HIF1A	hsa-miR-3529-3p	TFAP2A	TP53
E2F4	hsa-miR-15a-5p	NFKB1	hsa-miR-3529-3p	TP53	SMAD3
E2F4	hsa-miR-15a-5p	TP53	hsa-miR-3529-3p	HOXA13	TP53
E2F4	hsa-miR-4499	HIF1A	hsa-miR-3529-3p	HOXA13	SMAD3
E2F4	hsa-miR-2682-5p	HIF1A	hsa-miR-3609	NFAT5	HIF1A
E2F4	hsa-miR-155-5p	IL6	hsa-miR-3609	SP4	HIF1A
E2F4	hsa-miR-155-5p	NFKB1	hsa-miR-3609	REST	HIF1A
E2F4	hsa-miR-1264	TP53	hsa-miR-3609	HBP1	HIF1A
E2F4	hsa-miR-296-3p	PTGS2	hsa-miR-3609	RUNX3	HIF1A
E2F4	hsa-miR-4419a	TP53	hsa-miR-365a-5p	ZKSCAN1	STAT3
E2F4	hsa-miR-6815-3p	HIF1A	hsa-miR-365b-5p	ZKSCAN1	STAT3
E2F4	hsa-miR-137	PTGS2	hsa-miR-3662	ETS2	HIF1A
E2F4	hsa-miR-652-3p	PTGS2	hsa-miR-3668	BACH1	HIF1A
E2F4	hsa-miR-3160-3p	HIF1A	hsa-miR-3668	CEBPD	HIF1A
E2F4	hsa-miR-142-3p	IL6	hsa-miR-3668	ESR1	HIF1A
E2F4	hsa-miR-1468-3p	TLR4	hsa-miR-379-3p	ELK4	PTGS2
E2F4	hsa-let-7a-5p	IL6	hsa-miR-379-3p	HOXA10	PTGS2
E2F4	hsa-let-7a-5p	PTGS2	hsa-miR-3934-5p	PAX5	PTGS2
E2F4	hsa-let-7a-5p	NFKB1	hsa-miR-3934-5p	ZKSCAN1	PTGS2
E2F4	hsa-miR-8055	HIF1A	hsa-miR-424-5p	NFIC	HIF1A
E2F4	hsa-miR-17-5p	PTGS2	hsa-miR-424-5p	E2F7	HIF1A
E2F4	hsa-miR-17-5p	TP53	hsa-miR-424-5p	SPI1	HIF1A
E2F4	hsa-miR-17-5p	HIF1A	hsa-miR-424-5p	CDX2	HIF1A
E2F4	hsa-miR-17-5p	TGFB1	hsa-miR-424-5p	HOXA10	HIF1A
E2F4	hsa-miR-663a	TGFB1	hsa-miR-424-5p	MAFK	HIF1A
E2F4	hsa-miR-30d-5p	TP53	hsa-miR-424-5p	GABPA	HIF1A
E2F4	hsa-miR-589-5p	PTGS2	hsa-miR-424-5p	MYB	HIF1A
E2F4	hsa-miR-4279	TLR4	hsa-miR-4270	ASCL2	STAT3
E2F4	hsa-miR-146b-5p	NFKB1	hsa-miR-4271	MAX	TP53
E2F4	hsa-miR-146b-5p	TLR4	hsa-miR-4271	AR	TP53
E2F4	hsa-let-7i-5p	TLR4	hsa-miR-4271	FOSL1	TP53
E2F4	hsa-miR-618	STAT3	hsa-miR-4271	SP1	TP53

E2F4	hsa-miR-6875-3p	STAT3	hsa-miR-4271	E2F3	TP53
E2F4	hsa-miR-3662	HIF1A	hsa-miR-4271	SREBF1	TP53
E2F4	hsa-miR-922	STAT3	hsa-miR-4282	E2F7	HIF1A
E2F4	hsa-miR-100-5p	PTGS2	hsa-miR-4282	NR3C1	HIF1A
E2F4	hsa-miR-106a-5p	TP53	hsa-miR-4282	SP4	HIF1A
E2F6	hsa-miR-18a-5p	TP53	hsa-miR-4282	NFYA	HIF1A
E2F6	hsa-miR-18a-5p	HIF1A	hsa-miR-4282	HBP1	HIF1A
E2F6	hsa-miR-18a-5p	SMAD3	hsa-miR-4282	RCOR1	HIF1A
E2F6	hsa-miR-139-5p	NFKB1	hsa-miR-4286	SREBF1	TP53
E2F6	hsa-miR-9-5p	NFKB1	hsa-miR-4286	HOXA13	TP53
E2F6	hsa-miR-22-3p	HIF1A	hsa-miR-4290	HOXA13	SMAD3
E2F6	hsa-miR-4470	HIF1A	hsa-miR-4306	BACH1	TP53
E2F6	hsa-miR-935	HIF1A	hsa-miR-4306	HOXC6	TP53
E2F6	hsa-miR-19a-3p	TP53	hsa-miR-4306	GATA6	TP53
E2F6	hsa-miR-142-3p	IL6	hsa-miR-4306	TFDP1	TP53
E2F6	hsa-miR-371b-3p	STAT3	hsa-miR-4418	TCF7L2	HIF1A
E2F6	hsa-miR-6815-3p	HIF1A	hsa-miR-4418	HBP1	HIF1A
E2F6	hsa-miR-145-5p	SMAD3	hsa-miR-4419a	NFAT5	TP53
E2F6	hsa-miR-17-5p	PTGS2	hsa-miR-4419a	HOXC6	TP53
E2F6	hsa-miR-17-5p	TGFB1	hsa-miR-4419a	PAX5	TP53
E2F6	hsa-miR-17-5p	HIF1A	hsa-miR-4419a	GATA6	TP53
E2F6	hsa-miR-17-5p	SMAD3	hsa-miR-4419a	HOXB13	TP53
E2F6	hsa-miR-17-5p	TP53	hsa-miR-4438	VDR	STAT3
E2F6	hsa-miR-146a-5p	PTGS2	hsa-miR-4438	CREB1	STAT3
E2F6	hsa-miR-146a-5p	NFKB1	hsa-miR-4438	ZKSCAN1	STAT3
E2F6	hsa-miR-200a-3p	TP53	hsa-miR-4438	ESR2	STAT3
E2F6	hsa-miR-200a-3p	SMAD3	hsa-miR-4441	ASCL2	STAT3
E2F6	hsa-miR-138-5p	HIF1A	hsa-miR-4464	GLI2	HIF1A
E2F6	hsa-miR-20a-5p	TP53	hsa-miR-4464	MAZ	HIF1A
E2F6	hsa-miR-20a-5p	HIF1A	hsa-miR-4464	KLF9	HIF1A
E2F6	hsa-miR-34b-5p	HIF1A	hsa-miR-4487	ZNF250	HIF1A
E2F6	hsa-miR-4441	STAT3	hsa-miR-4487	ZFX	HIF1A
E2F6	hsa-miR-320a	PTGS2	hsa-miR-4499	ZFX	HIF1A
E2F6	hsa-miR-18a-3p	SMAD3	hsa-miR-4516	BACH2	STAT3
E2F7	hsa-miR-889-3p	HIF1A	hsa-miR-4516	BACH2	TP53
E2F7	hsa-miR-100-5p	PTGS2	hsa-miR-4516	MBD4	STAT3

E2F7	hsa-miR-296-3p	PTGS2	hsa-miR-4516	MBD4	TP53
E2F7	hsa-miR-217	HIF1A	hsa-miR-4516	GATA6	STAT3
E2F7	hsa-miR-6871-3p	STAT3	hsa-miR-4516	GATA6	TP53
E2F7	hsa-miR-93-5p	STAT3	hsa-miR-4516	SOX4	STAT3
E2F7	hsa-miR-93-5p	HIF1A	hsa-miR-452-5p	REST	TNF
E2F7	hsa-miR-608	TP53	hsa-miR-4531	BACH2	TP53
E2F7	hsa-miR-21-5p	HIF1A	hsa-miR-454-3p	IRF1	TP53
E2F7	hsa-miR-199a-5p	PTGS2	hsa-miR-454-3p	SMAD4	TP53
E2F7	hsa-miR-199a-5p	HIF1A	hsa-miR-454-3p	ESR1	TP53
E2F7	hsa-miR-3160-3p	HIF1A	hsa-miR-454-3p	TCF7L2	TP53
E2F7	hsa-miR-337-3p	STAT3	hsa-miR-454-3p	BHLHE40	TP53
E2F7	hsa-miR-199a-3p	PTGS2	hsa-miR-454-3p	YY1	TP53
E2F7	hsa-let-7a-5p	IL6	hsa-miR-4659a-3p	NFIC	TLR4
E2F7	hsa-let-7a-5p	PTGS2	hsa-miR-4659b-3p	NFIC	TLR4
E2F7	hsa-miR-203a-3p	IL6	hsa-miR-4662a-5p	KDM5A	HIF1A
E2F7	hsa-miR-4271	TP53	hsa-miR-4684-5p	FOSL2	STAT3
E2F7	hsa-miR-106b-5p	STAT3	hsa-miR-4685-5p	E2F1	STAT3
E2F7	hsa-miR-106b-5p	HIF1A	hsa-miR-4694-3p	MAFK	TLR4
E2F7	hsa-miR-106b-3p	HIF1A	hsa-miR-4720-3p	TFAP4	STAT3
E2F7	hsa-miR-299-5p	HIF1A	hsa-miR-4725-3p	MAX	TP53
EBF1	hsa-miR-18a-5p	TP53	hsa-miR-4725-3p	JUND	TP53
EBF1	hsa-miR-18a-5p	HIF1A	hsa-miR-4725-3p	FOSL1	TP53
EBF1	hsa-miR-625-3p	HIF1A	hsa-miR-4725-3p	SP1	TP53
EBF1	hsa-miR-150-5p	TP53	hsa-miR-4725-3p	E2F3	TP53
EBF1	hsa-miR-20a-5p	TP53	hsa-miR-4725-3p	SREBF1	TP53
EBF1	hsa-miR-20a-5p	HIF1A	hsa-miR-4735-3p	IRF2	HIF1A
EBF1	hsa-miR-365a-5p	STAT3	hsa-miR-4748	GLI2	HIF1A
EBF1	hsa-miR-146a-5p	NFKB1	hsa-miR-4748	MAZ	HIF1A
EBF1	hsa-miR-365a-3p	IL6	hsa-miR-4748	KLF9	HIF1A
EBF1	hsa-miR-6511a-5p	HIF1A	hsa-miR-4768-5p	ZNF83	STAT3
EBF1	hsa-miR-6871-3p	STAT3	hsa-miR-4768-5p	HOXA13	STAT3
EBF1	hsa-miR-4516	STAT3	hsa-miR-4768-5p	STAT5A	STAT3
EBF1	hsa-miR-4516	TP53	hsa-miR-4768-5p	POU2F2	STAT3
EBF1	hsa-miR-4531	TP53	hsa-miR-4778-3p	NFIC	STAT3
EBF1	hsa-miR-1322	HIF1A	hsa-miR-4778-3p	JUND	STAT3
EBF1	hsa-miR-21-5p	TGFB1	hsa-miR-4778-3p	AR	STAT3

EBF1	hsa-miR-21-5p	HIF1A	hsa-miR-4778-3p	KDM5A	STAT3
EBF1	hsa-miR-21-5p	NFKB1	hsa-miR-4799-5p	SMAD4	HIF1A
EBF1	hsa-miR-3529-3p	TP53	hsa-miR-484	SMAD2	IL2
EBF1	hsa-miR-30e-5p	TP53	hsa-miR-491-5p	MAZ	TP53
EBF1	hsa-miR-6760-5p	TP53	hsa-miR-491-5p	MAZ	SMAD3
EBF1	hsa-miR-3662	HIF1A	hsa-miR-491-5p	TP53	SMAD3
EBF1	hsa-miR-4463	HIF1A	hsa-miR-491-5p	ASCL2	TP53
EGR1	hsa-miR-132-3p	PTGS2	hsa-miR-491-5p	ASCL2	SMAD3
EGR1	hsa-miR-139-5p	NFKB1	hsa-miR-491-5p	UBTF	TP53
EGR1	hsa-miR-6842-5p	TP53	hsa-miR-491-5p	UBTF	SMAD3
EGR1	hsa-miR-6754-5p	STAT3	hsa-miR-491-5p	HOXC6	TP53
EGR1	hsa-miR-877-3p	STAT3	hsa-miR-494-3p	ARNTL	HIF1A
EGR1	hsa-miR-33a-5p	HIF1A	hsa-miR-494-3p	REST	HIF1A
EGR1	hsa-miR-6808-5p	HIF1A	hsa-miR-494-3p	HOXA10	HIF1A
EGR1	hsa-miR-138-2-3p	STAT3	hsa-miR-494-3p	MYC	HIF1A
EGR1	hsa-miR-22-3p	HIF1A	hsa-miR-494-3p	ZEB1	HIF1A
EGR1	hsa-miR-6760-5p	TP53	hsa-miR-494-3p	ATF3	HIF1A
EGR1	hsa-miR-6722-3p	TP53	hsa-miR-5003-5p	ETS1	TP53
EGR1	hsa-miR-4470	HIF1A	hsa-miR-5003-5p	HOXA13	TP53
EGR1	hsa-miR-935	HIF1A	hsa-miR-5003-5p	TFDP1	TP53
EGR1	hsa-miR-622	TP53	hsa-miR-500b-3p	ZBTB7A	STAT3
EGR1	hsa-miR-6845-3p	STAT3	hsa-miR-509-3-5p	TCF7L2	HIF1A
EGR1	hsa-miR-30b-5p	TP53	hsa-miR-509-3-5p	HBP1	HIF1A
EGR1	hsa-miR-4418	HIF1A	hsa-miR-5094	ZBTB7A	HIF1A
EGR1	hsa-miR-106b-3p	HIF1A	hsa-miR-5095	VDR	STAT3
EGR1	hsa-miR-200a-3p	TP53	hsa-miR-5095	FOS	STAT3
EGR1	hsa-miR-200a-3p	SMAD3	hsa-miR-5095	CREB1	STAT3
EGR1	hsa-miR-93-5p	TGFB1	hsa-miR-5095	ZKSCAN1	STAT3
EGR1	hsa-miR-93-5p	STAT3	hsa-miR-5095	ESR2	STAT3
EGR1	hsa-miR-93-5p	HIF1A	hsa-miR-509-5p	TCF7L2	HIF1A
EGR1	hsa-miR-6807-3p	HIF1A	hsa-miR-509-5p	HBP1	HIF1A
EGR1	hsa-miR-6815-3p	HIF1A	hsa-miR-513b-3p	VEZF1	TP53
EGR1	hsa-miR-1234-3p	STAT3	hsa-miR-5193	ARID3A	TP53
EGR1	hsa-miR-6893-5p	HIF1A	hsa-miR-5193	HOXA13	TP53
EGR1	hsa-miR-1910-3p	HIF1A	hsa-miR-5193	SPIB	TP53
EGR1	hsa-miR-5193	TP53	hsa-miR-5193	TCF7L2	TP53

EGR1	hsa-miR-663a	TGFB1	hsa-miR-5193	NKX2-2	TP53
EGR1	hsa-miR-7151-3p	STAT3	hsa-miR-5197-5p	HOXA13	TP53
EGR1	hsa-miR-203a-3p	TNF	hsa-miR-5197-5p	ZFH3	TP53
EGR1	hsa-miR-144-3p	TGFB1	hsa-miR-5197-5p	E2F3	TP53
EGR1	hsa-miR-146b-5p	NFKB1	hsa-miR-519c-3p	NFAT5	HIF1A
EGR1	hsa-miR-9-5p	NFKB1	hsa-miR-519c-3p	TFAP4	HIF1A
EGR1	hsa-miR-145-5p	SMAD3	hsa-miR-519c-3p	SMAD4	HIF1A
EGR1	hsa-miR-4487	HIF1A	hsa-miR-519c-3p	UBTF	HIF1A
EGR1	hsa-miR-92b-3p	SMAD3	hsa-miR-519c-3p	HBP1	HIF1A
EGR1	hsa-miR-6807-5p	STAT3	hsa-miR-519c-3p	RUNX3	HIF1A
EGR1	hsa-miR-130b-3p	STAT3	hsa-miR-519c-3p	TCF7L2	HIF1A
EGR1	hsa-miR-138-5p	HIF1A	hsa-miR-519c-3p	GATA6	HIF1A
EGR1	hsa-miR-34b-5p	HIF1A	hsa-miR-519c-3p	NR2F2	HIF1A
EGR1	hsa-miR-193b-3p	SMAD3	hsa-miR-519c-3p	IRF2	HIF1A
EGR1	hsa-miR-337-3p	STAT3	hsa-miR-519c-3p	ESR1	HIF1A
EGR1	hsa-miR-320a	PTGS2	hsa-miR-519d-3p	CLOCK	STAT3
EGR1	hsa-miR-106b-5p	STAT3	hsa-miR-519d-3p	SMAD4	STAT3
EGR1	hsa-miR-106b-5p	HIF1A	hsa-miR-519d-3p	SMAD4	HIF1A
EGR1	hsa-miR-5003-5p	TP53	hsa-miR-519d-3p	SOX4	STAT3
EGR2	hsa-miR-2682-5p	HIF1A	hsa-miR-519d-3p	AFF1	HIF1A
EGR2	hsa-miR-137	PTGS2	hsa-miR-519d-3p	KLF3	HIF1A
EHF	hsa-miR-106b-5p	STAT3	hsa-miR-519d-3p	TCF4	STAT3
EHF	hsa-miR-106b-5p	HIF1A	hsa-miR-519d-3p	TCF4	HIF1A
EHF	hsa-miR-106b-3p	HIF1A	hsa-miR-519d-3p	ZBTB7A	STAT3
EHF	hsa-miR-150-5p	TP53	hsa-miR-519d-3p	ZBTB7A	HIF1A
EHF	hsa-miR-1908-5p	PTGS2	hsa-miR-519d-3p	ELK4	STAT3
EHF	hsa-miR-93-5p	TGFB1	hsa-miR-519d-3p	SP4	STAT3
EHF	hsa-miR-93-5p	STAT3	hsa-miR-519d-3p	SP4	HIF1A
EHF	hsa-miR-93-5p	HIF1A	hsa-miR-519d-3p	CREB1	STAT3
ELF1	hsa-miR-132-3p	PTGS2	hsa-miR-519d-3p	CREB1	HIF1A
ELF1	hsa-miR-9-5p	NFKB1	hsa-miR-519d-3p	REST	STAT3
ELF1	hsa-miR-139-5p	NFKB1	hsa-miR-519d-3p	REST	HIF1A
ELF1	hsa-miR-210-3p	NFKB1	hsa-miR-519d-3p	GATA6	STAT3
ELF1	hsa-miR-210-3p	HIF1A	hsa-miR-519d-3p	GATA6	HIF1A
ELF1	hsa-miR-4650-5p	TP53	hsa-miR-519d-3p	ESR2	STAT3
ELF1	hsa-miR-379-3p	PTGS2	hsa-miR-519d-3p	NFAT5	STAT3

ELF1	hsa-miR-6837-5p	STAT3	hsa-miR-519d-3p	NFAT5	HIF1A
ELF1	hsa-miR-365a-5p	STAT3	hsa-miR-519d-3p	E2F3	HIF1A
ELF1	hsa-miR-30d-5p	TP53	hsa-miR-519d-3p	E2F2	HIF1A
ELF1	hsa-miR-6809-3p	STAT3	hsa-miR-519d-3p	E2F1	STAT3
ELF1	hsa-miR-155-5p	NFKB1	hsa-miR-519d-3p	E2F1	HIF1A
ELF1	hsa-miR-155-5p	SMAD3	hsa-miR-519d-3p	WHSC1	STAT3
ELF1	hsa-miR-143-3p	PTGS2	hsa-miR-519d-3p	WHSC1	HIF1A
ELF1	hsa-miR-143-3p	TNF	hsa-miR-519d-3p	TCF7L2	STAT3
ELF1	hsa-miR-143-3p	SMAD3	hsa-miR-519d-3p	TCF7L2	HIF1A
ELF1	hsa-miR-203a-3p	TNF	hsa-miR-519d-3p	HBP1	STAT3
ELF1	hsa-miR-199b-5p	HIF1A	hsa-miR-519d-3p	HBP1	HIF1A
ELF1	hsa-miR-150-5p	TP53	hsa-miR-519d-3p	RUNX3	STAT3
ELF1	hsa-miR-22-3p	HIF1A	hsa-miR-519d-3p	RUNX3	HIF1A
ELF1	hsa-miR-4470	HIF1A	hsa-miR-519d-3p	MXI1	STAT3
ELF1	hsa-miR-324-3p	TGFB1	hsa-miR-519d-3p	MXI1	HIF1A
ELF1	hsa-miR-625-3p	HIF1A	hsa-miR-526b-5p	GATA6	TLR4
ELF1	hsa-miR-1908-5p	PTGS2	hsa-miR-548ah-5p	NFAT5	HIF1A
ELF1	hsa-miR-6789-3p	STAT3	hsa-miR-548ah-5p	SP4	HIF1A
ELF1	hsa-miR-4531	TP53	hsa-miR-548ah-5p	REST	HIF1A
ELF1	hsa-miR-199a-3p	PTGS2	hsa-miR-548ah-5p	HBP1	HIF1A
ELF1	hsa-miR-6815-3p	HIF1A	hsa-miR-548ah-5p	RUNX3	HIF1A
ELF1	hsa-miR-199a-5p	PTGS2	hsa-miR-548g-3p	MXI1	TLR4
ELF1	hsa-miR-199a-5p	HIF1A	hsa-miR-558	ZNF250	PTGS2
ELF1	hsa-miR-199a-5p	NFKB1	hsa-miR-558	ZNF250	HIF1A
ELF1	hsa-miR-145-5p	SMAD3	hsa-miR-558	ZFX	HIF1A
ELF1	hsa-miR-449c-5p	HIF1A	hsa-miR-558	HIF1A	PTGS2
ELF1	hsa-miR-5193	TP53	hsa-miR-558	RUNX3	PTGS2
ELF1	hsa-miR-663a	TGFB1	hsa-miR-558	RUNX3	HIF1A
ELF1	hsa-miR-138-2-3p	STAT3	hsa-miR-5581-3p	FOS	STAT3
ELF1	hsa-miR-589-5p	PTGS2	hsa-miR-5681a	ZNF83	STAT3
ELF1	hsa-miR-144-3p	TGFB1	hsa-miR-5681a	NFAT5	STAT3
ELF1	hsa-let-7b-5p	PTGS2	hsa-miR-5681b	WHSC1	HIF1A
ELF1	hsa-let-7b-5p	HIF1A	hsa-miR-5692a	MAFK	HIF1A
ELF1	hsa-miR-6875-3p	STAT3	hsa-miR-5702	CEBPG	TP53
ELF1	hsa-miR-618	STAT3	hsa-miR-576-3p	NFIC	HIF1A
ELF1	hsa-miR-4487	HIF1A	hsa-miR-576-3p	HINFP	HIF1A

ELF1	hsa-miR-92b-3p	SMAD3	hsa-miR-605-5p	NR2C2	TP53
ELF1	hsa-miR-124-3p	PTGS2	hsa-miR-605-5p	HOXA13	TP53
ELF1	hsa-miR-124-3p	STAT3	hsa-miR-605-5p	RUNX1	TP53
ELF1	hsa-miR-1234-3p	STAT3	hsa-miR-605-5p	STAT1	TP53
ELF1	hsa-miR-138-5p	HIF1A	hsa-miR-6077	GATA6	TLR4
ELF1	hsa-miR-1181	STAT3	hsa-miR-6077	RELA	TLR4
ELF1	hsa-miR-4441	STAT3	hsa-miR-6077	FOS	TLR4
ELF1	hsa-miR-4748	HIF1A	hsa-miR-608	MAX	TP53
ELF1	hsa-miR-130b-3p	STAT3	hsa-miR-608	UBTF	TP53
ELF1	hsa-miR-6872-3p	STAT3	hsa-miR-608	NKX2-2	TP53
ELF1	hsa-miR-320a	PTGS2	hsa-miR-6130	NFAT5	TP53
ELF1	hsa-miR-195-5p	SMAD3	hsa-miR-6130	HOXC6	TP53
ELF1	hsa-miR-24-3p	TGFB1	hsa-miR-6130	PAX5	TP53
ELF2	hsa-miR-9-5p	NFKB1	hsa-miR-6130	GATA6	TP53
ELF2	hsa-let-7a-5p	PTGS2	hsa-miR-6130	HOXB13	TP53
ELF2	hsa-let-7a-5p	NFKB1	hsa-miR-6133	NFAT5	TP53
ELF2	hsa-let-7b-5p	PTGS2	hsa-miR-6133	HOXC6	TP53
ELK1	hsa-miR-210-3p	FOXP3	hsa-miR-6133	PAX5	TP53
ELK1	hsa-miR-210-3p	HIF1A	hsa-miR-6133	GATA6	TP53
ELK1	hsa-miR-210-3p	NFKB1	hsa-miR-6133	HOXB13	TP53
ELK1	hsa-miR-1908-5p	PTGS2	hsa-miR-618	NR3C1	STAT3
ELK1	hsa-miR-365a-5p	STAT3	hsa-miR-618	KDM5A	STAT3
ELK1	hsa-miR-193b-3p	SMAD3	hsa-miR-618	SOX4	STAT3
ELK1	hsa-miR-4470	HIF1A	hsa-miR-622	MYC	TP53
ELK1	hsa-miR-26a-5p	IL6	hsa-miR-625-3p	XBP1	HIF1A
ELK1	hsa-miR-142-3p	IL6	hsa-miR-633	JUN	TGFB1
ELK1	hsa-miR-223-3p	IL6	hsa-miR-652-3p	NFAT5	PTGS2
ELK1	hsa-miR-223-3p	TP53	hsa-miR-663a	JUNB	TGFB1
ELK1	hsa-miR-21-5p	TGFB1	hsa-miR-663a	KLF4	TGFB1
ELK1	hsa-miR-21-5p	HIF1A	hsa-miR-6722-3p	ARID3A	TP53
ELK1	hsa-miR-21-5p	NFKB1	hsa-miR-6722-3p	MBD4	TP53
ELK1	hsa-miR-365a-3p	IL6	hsa-miR-6754-5p	ASCL2	STAT3
ELK1	hsa-miR-144-3p	TGFB1	hsa-miR-6755-5p	POU2F2	HIF1A
ELK1	hsa-miR-124-3p	IL6	hsa-miR-6760-5p	NFAT5	TP53
ELK1	hsa-miR-124-3p	PTGS2	hsa-miR-6760-5p	BARHL1	TP53
ELK1	hsa-miR-124-3p	STAT3	hsa-miR-6760-5p	HOXC6	TP53

ELK1	hsa-miR-20a-5p	TP53	hsa-miR-6760-5p	TFDP1	TP53
ELK1	hsa-miR-20a-5p	HIF1A	hsa-miR-6789-3p	ZKSCAN1	STAT3
ELK1	hsa-miR-155-5p	IL6	hsa-miR-6807-3p	HINFP	HIF1A
ELK1	hsa-miR-155-5p	NFKB1	hsa-miR-6807-3p	TCF7L2	HIF1A
ELK1	hsa-miR-155-5p	SMAD3	hsa-miR-6807-5p	VDR	STAT3
ELK1	hsa-miR-320a	PTGS2	hsa-miR-6807-5p	MNT	STAT3
ELK3	hsa-miR-21-5p	TGFB1	hsa-miR-6807-5p	CREB1	STAT3
ELK3	hsa-miR-21-5p	NFKB1	hsa-miR-6807-5p	ZFP42	STAT3
ELK3	hsa-miR-24-3p	TGFB1	hsa-miR-6807-5p	FOSL2	STAT3
ELK3	hsa-miR-26b-5p	PTGS2	hsa-miR-6807-5p	ESR2	STAT3
ELK3	hsa-miR-26b-5p	NFKB1	hsa-miR-6808-5p	MXI1	HIF1A
ELK3	hsa-miR-155-5p	NFKB1	hsa-miR-6808-5p	FOSL2	HIF1A
ELK3	hsa-miR-137	PTGS2	hsa-miR-6808-5p	ZBTB7A	HIF1A
ELK3	hsa-let-7b-5p	PTGS2	hsa-miR-6809-3p	ARID3A	STAT3
ELK4	hsa-let-7i-5p	TLR4	hsa-miR-6809-3p	ZNF83	STAT3
ELK4	hsa-miR-320a	PTGS2	hsa-miR-6809-3p	HOXA13	STAT3
ELK4	hsa-miR-1181	STAT3	hsa-miR-6809-3p	STAT5A	STAT3
EOMES	hsa-miR-4650-5p	TP53	hsa-miR-6809-3p	POU2F2	STAT3
EOMES	hsa-miR-4768-5p	STAT3	hsa-miR-6809-3p	KDM5A	STAT3
EOMES	hsa-miR-122-5p	TGFB1	hsa-miR-6809-3p	MTA3	STAT3
EOMES	hsa-miR-5702	TP53	hsa-miR-6815-3p	NFAT5	HIF1A
EOMES	hsa-miR-21-5p	TGFB1	hsa-miR-6837-5p	E2F1	STAT3
EOMES	hsa-miR-21-5p	NFKB1	hsa-miR-6842-5p	RUNX3	TP53
EOMES	hsa-miR-874-3p	STAT3	hsa-miR-6845-3p	SPI1	STAT3
EOMES	hsa-let-7a-5p	IL6	hsa-miR-6845-3p	ZNF83	STAT3
EOMES	hsa-let-7a-5p	NFKB1	hsa-miR-6845-3p	HOXA13	STAT3
EOMES	hsa-miR-618	STAT3	hsa-miR-6845-3p	NFYA	STAT3
ERF	hsa-miR-6806-5p	HIF1A	hsa-miR-6845-3p	MTA3	STAT3
ERG	hsa-miR-18a-5p	TP53	hsa-miR-6878-5p	NFAT5	STAT3
ERG	hsa-miR-18a-5p	HIF1A	hsa-miR-6878-5p	MBD4	STAT3
ERG	hsa-miR-3934-5p	PTGS2	hsa-miR-6878-5p	AR	STAT3
ERG	hsa-miR-9-5p	NFKB1	hsa-miR-6878-5p	FOSL2	STAT3
ERG	hsa-miR-210-3p	NFKB1	hsa-miR-6893-5p	MXI1	HIF1A
ERG	hsa-miR-210-3p	HIF1A	hsa-miR-6893-5p	FOSL2	HIF1A
ERG	hsa-miR-4799-5p	HIF1A	hsa-miR-6893-5p	ZBTB7A	HIF1A
ERG	hsa-miR-1908-5p	PTGS2	hsa-miR-7110-3p	STAT5A	STAT3

ERG	hsa-miR-1-3p	TLR4	hsa-miR-7110-3p	ARNT	STAT3
ERG	hsa-miR-100-5p	PTGS2	hsa-miR-7110-3p	MTA3	STAT3
ERG	hsa-miR-942-5p	TLR4	hsa-miR-7113-5p	BHLHE40	STAT3
ERG	hsa-miR-16-5p	PTGS2	hsa-miR-7113-5p	ASCL2	STAT3
ERG	hsa-miR-16-5p	TP53	hsa-miR-7113-5p	E2F1	STAT3
ERG	hsa-miR-16-5p	NFKB1	hsa-miR-7151-3p	VDR	STAT3
ERG	hsa-miR-214-3p	TP53	hsa-miR-7151-3p	FOS	STAT3
ERG	hsa-miR-7-5p	TLR4	hsa-miR-7151-3p	CREB1	STAT3
ERG	hsa-miR-5681a	STAT3	hsa-miR-7151-3p	ZKSCAN1	STAT3
ERG	hsa-miR-484	IL2	hsa-miR-7151-3p	ESR2	STAT3
ERG	hsa-miR-935	HIF1A	hsa-miR-744-5p	FOXO3	PTGS2
ERG	hsa-miR-19a-3p	TP53	hsa-miR-744-5p	SREBF1	PTGS2
ERG	hsa-miR-4742-3p	TLR4	hsa-miR-874-3p	PRDM1	STAT3
ERG	hsa-miR-2682-5p	HIF1A	hsa-miR-874-3p	ESR1	STAT3
ERG	hsa-miR-4738-3p	TLR4	hsa-miR-877-3p	ZBTB7A	STAT3
ERG	hsa-miR-92a-3p	NFKB1	hsa-miR-877-3p	ARNT	STAT3
ERG	hsa-miR-5681b	HIF1A	hsa-miR-877-3p	BCLAF1	STAT3
ERG	hsa-miR-4516	STAT3	hsa-miR-877-3p	CUX1	STAT3
ERG	hsa-miR-4516	TP53	hsa-miR-877-3p	PRDM1	STAT3
ERG	hsa-miR-3165	TP53	hsa-miR-877-3p	GMEB2	STAT3
ERG	hsa-miR-5702	TP53	hsa-miR-877-3p	PBX1	STAT3
ERG	hsa-let-7i-5p	TLR4	hsa-miR-889-3p	NFAT5	HIF1A
ERG	hsa-miR-6815-3p	HIF1A	hsa-miR-889-3p	AFF1	HIF1A
ERG	hsa-miR-137	PTGS2	hsa-miR-922	SP1	STAT3
ERG	hsa-miR-874-3p	STAT3	hsa-miR-922	TFAP2C	STAT3
ERG	hsa-miR-19b-3p	TP53	hsa-miR-922	MNT	STAT3
ERG	hsa-miR-5193	TP53	hsa-miR-922	MBD4	STAT3
ERG	hsa-miR-17-5p	PTGS2	hsa-miR-922	RUNX1	STAT3
ERG	hsa-miR-17-5p	TP53	hsa-miR-922	GABPA	STAT3
ERG	hsa-miR-17-5p	HIF1A	hsa-miR-92a-1-5p	MAZ	TP53
ERG	hsa-let-7a-5p	PTGS2	hsa-miR-92a-1-5p	RFX1	TP53
ERG	hsa-let-7a-5p	NFKB1	hsa-miR-92a-2-5p	SIX5	TP53
ERG	hsa-miR-149-3p	TP53	hsa-miR-92a-2-5p	HOXC6	TP53
ERG	hsa-miR-589-5p	PTGS2	hsa-miR-92a-2-5p	FOSL1	TP53
ERG	hsa-miR-6789-3p	STAT3	hsa-miR-92a-2-5p	NKX2-2	TP53
ERG	hsa-miR-132-3p	PTGS2	hsa-miR-92a-2-5p	MYC	TP53

ERG	hsa-miR-320a	PTGS2	hsa-miR-92a-3p	MYBL2	NFKB1
ERG	hsa-miR-124-3p	PTGS2	hsa-miR-92a-3p	TP63	NFKB1
ERG	hsa-miR-124-3p	STAT3	hsa-miR-92a-3p	SRF	NFKB1
ERG	hsa-miR-4279	TLR4	hsa-miR-92a-3p	CUX1	NFKB1
ERG	hsa-miR-20a-5p	TP53	hsa-miR-92a-3p	GATA6	NFKB1
ERG	hsa-miR-20a-5p	HIF1A	hsa-miR-92a-3p	WHSC1	NFKB1
ERG	hsa-miR-1181	STAT3	hsa-miR-92a-3p	MEF2C	NFKB1
ERG	hsa-miR-155-5p	NFKB1	hsa-miR-92a-3p	GABPA	NFKB1
ERG	hsa-miR-155-5p	IL2	hsa-miR-92b-3p	HOXA13	SMAD3
ERG	hsa-miR-101-3p	PTGS2	hsa-miR-92b-3p	NFYB	SMAD3
ERG	hsa-miR-92a-1-5p	TP53	hsa-miR-92b-3p	GATA6	SMAD3
ERG	hsa-miR-7158-5p	STAT3	hsa-miR-935	TFDP1	HIF1A
ERG	hsa-miR-3121-3p	HIF1A	hsa-miR-93-5p	CLOCK	STAT3
ESR1	hsa-miR-1178-3p	STAT3	hsa-miR-93-5p	SMAD4	TGFB1
ESR1	hsa-miR-3165	TP53	hsa-miR-93-5p	SMAD4	STAT3
ESR1	hsa-miR-3934-5p	PTGS2	hsa-miR-93-5p	SMAD4	HIF1A
ESR1	hsa-miR-210-3p	NFKB1	hsa-miR-93-5p	HIF1A	TGFB1
ESR1	hsa-miR-210-3p	HIF1A	hsa-miR-93-5p	SOX4	STAT3
ESR1	hsa-miR-125a-5p	TP53	hsa-miR-93-5p	XBP1	STAT3
ESR1	hsa-miR-4778-3p	STAT3	hsa-miR-93-5p	XBP1	HIF1A
ESR1	hsa-miR-143-3p	PTGS2	hsa-miR-93-5p	ZNF143	TGFB1
ESR1	hsa-miR-214-3p	TP53	hsa-miR-93-5p	ZNF143	STAT3
ESR1	hsa-miR-149-3p	TP53	hsa-miR-93-5p	ZNF143	HIF1A
ESR1	hsa-miR-4306	TP53	hsa-miR-93-5p	ZNF384	TGFB1
ESR1	hsa-miR-6722-3p	TP53	hsa-miR-93-5p	ZNF384	STAT3
ESR1	hsa-miR-4470	HIF1A	hsa-miR-93-5p	ZNF384	HIF1A
ESR1	hsa-miR-199a-3p	PTGS2	hsa-miR-93-5p	EGR2	TGFB1
ESR1	hsa-miR-6845-3p	STAT3	hsa-miR-93-5p	EGR2	STAT3
ESR1	hsa-miR-92a-3p	NFKB1	hsa-miR-93-5p	EGR2	HIF1A
ESR1	hsa-miR-3160-3p	HIF1A	hsa-miR-93-5p	JUN	TGFB1
ESR1	hsa-miR-4270	STAT3	hsa-miR-93-5p	JUN	STAT3
ESR1	hsa-miR-324-3p	TGFB1	hsa-miR-93-5p	JUN	HIF1A
ESR1	hsa-miR-5681a	STAT3	hsa-miR-93-5p	AFF1	HIF1A
ESR1	hsa-miR-5681b	HIF1A	hsa-miR-93-5p	GLI3	STAT3
ESR1	hsa-let-7i-5p	TLR4	hsa-miR-93-5p	GLI3	HIF1A
ESR1	hsa-miR-4487	HIF1A	hsa-miR-93-5p	KLF3	HIF1A

ESR1	hsa-miR-7113-5p	STAT3	hsa-miR-93-5p	MXD1	STAT3
ESR1	hsa-miR-4659b-3p	TLR4	hsa-miR-93-5p	KLF9	TGFB1
ESR1	hsa-miR-4662a-5p	HIF1A	hsa-miR-93-5p	KLF9	STAT3
ESR1	hsa-miR-124-3p	PTGS2	hsa-miR-93-5p	KLF9	HIF1A
ESR1	hsa-miR-124-3p	STAT3	hsa-miR-93-5p	TCF4	TGFB1
ESR1	hsa-miR-744-5p	PTGS2	hsa-miR-93-5p	TCF4	STAT3
ESR1	hsa-miR-744-5p	TGFB1	hsa-miR-93-5p	TCF4	HIF1A
ESR1	hsa-miR-365b-5p	STAT3	hsa-miR-93-5p	ZBTB7A	TGFB1
ESR1	hsa-miR-139-5p	NFKB1	hsa-miR-93-5p	ZBTB7A	STAT3
ESR1	hsa-miR-491-5p	TP53	hsa-miR-93-5p	ZBTB7A	HIF1A
ESR1	hsa-miR-4799-5p	HIF1A	hsa-miR-93-5p	ZBTB4	TGFB1
ESR1	hsa-miR-4685-5p	STAT3	hsa-miR-93-5p	SP4	TGFB1
ESR1	hsa-miR-6754-5p	STAT3	hsa-miR-93-5p	SP4	STAT3
ESR1	hsa-miR-1181	STAT3	hsa-miR-93-5p	SP4	HIF1A
ESR1	hsa-miR-24-3p	TGFB1	hsa-miR-93-5p	REST	TGFB1
ESR1	hsa-miR-6511a-5p	HIF1A	hsa-miR-93-5p	REST	STAT3
ESR1	hsa-miR-4738-3p	TLR4	hsa-miR-93-5p	REST	HIF1A
ESR1	hsa-miR-4418	HIF1A	hsa-miR-93-5p	GATA6	TGFB1
ESR1	hsa-miR-6871-3p	STAT3	hsa-miR-93-5p	GATA6	STAT3
ESR1	hsa-miR-92a-1-5p	TP53	hsa-miR-93-5p	GATA6	HIF1A
ESR1	hsa-miR-8071	TP53	hsa-miR-93-5p	ESR2	STAT3
ESR1	hsa-miR-6893-5p	HIF1A	hsa-miR-93-5p	PBX3	TGFB1
ESR1	hsa-miR-337-3p	STAT3	hsa-miR-93-5p	PBX3	STAT3
ESR1	hsa-miR-663a	TGFB1	hsa-miR-93-5p	PBX3	HIF1A
ESR1	hsa-miR-6789-3p	STAT3	hsa-miR-93-5p	IRF1	TGFB1
ESR1	hsa-miR-6872-3p	STAT3	hsa-miR-93-5p	IRF1	STAT3
ESR1	hsa-miR-6875-3p	STAT3	hsa-miR-93-5p	IRF1	HIF1A
ESR1	hsa-miR-200a-3p	TP53	hsa-miR-93-5p	E2F2	HIF1A
ESR1	hsa-miR-329-5p	HIF1A	hsa-miR-93-5p	E2F1	STAT3
ESR1	hsa-miR-630	TLR4	hsa-miR-93-5p	E2F1	HIF1A
ESR1	hsa-miR-320a	PTGS2	hsa-miR-93-5p	WHSC1	STAT3
ESR1	hsa-miR-4694-3p	TLR4	hsa-miR-93-5p	WHSC1	HIF1A
ESR1	hsa-miR-1908-5p	PTGS2	hsa-miR-93-5p	TCF7L2	TGFB1
ESR1	hsa-miR-5193	TP53	hsa-miR-93-5p	TCF7L2	STAT3
ESR1	hsa-miR-151a-3p	HIF1A	hsa-miR-93-5p	TCF7L2	HIF1A
ESR1	hsa-miR-10b-5p	TP53	hsa-miR-93-5p	HBP1	TGFB1

ESR1	hsa-miR-6809-3p	STAT3	hsa-miR-93-5p	HBP1	STAT3
ESR1	hsa-miR-6808-5p	HIF1A	hsa-miR-93-5p	HBP1	HIF1A
ESR1	hsa-miR-16-5p	PTGS2	hsa-miR-93-5p	RUNX3	TGFB1
ESR1	hsa-miR-16-5p	TP53	hsa-miR-93-5p	RUNX3	STAT3
ESR1	hsa-miR-16-5p	NFKB1	hsa-miR-93-5p	RUNX3	HIF1A
ESR1	hsa-miR-6806-5p	HIF1A	hsa-miR-93-5p	ELK4	STAT3
ESR1	hsa-miR-5197-5p	TP53	hsa-miR-93-5p	ZMIZ1	TGFB1
ESR1	hsa-miR-589-5p	PTGS2	hsa-miR-93-5p	ZMIZ1	STAT3
ESR1	hsa-miR-935	HIF1A	hsa-miR-93-5p	ZMIZ1	HIF1A
ESR1	hsa-miR-4531	TP53	hsa-miR-940	ZBTB7A	HIF1A
ESR1	hsa-miR-132-3p	PTGS2	hsa-miR-940	MXI1	HIF1A
ESR1	hsa-miR-6815-3p	HIF1A	hsa-miR-940	FOSL2	HIF1A
ESR1	hsa-miR-3074-3p	HIF1A	hsa-miR-940	MYC	HIF1A
ESR1	hsa-miR-1468-3p	TLR4	hsa-miR-942-5p	SPIB	TLR4
ESR1	hsa-miR-17-5p	PTGS2	hsa-miR-9-5p	FOXP1	NFKB1
ESR1	hsa-miR-17-5p	TP53	hsa-miR-9-5p	TAL1	NFKB1
ESR1	hsa-miR-17-5p	HIF1A	hsa-miR-9-5p	HBP1	NFKB1
ESR1	hsa-miR-17-5p	TGFB1	hsa-miR-9-5p	POU2F2	NFKB1
ESR1	hsa-let-7a-5p	PTGS2	hsa-miR-98-5p	TEAD4	IL6
ESR1	hsa-let-7a-5p	NFKB1	hsa-miR-98-5p	BACH1	IL6
ESR1	hsa-miR-4735-3p	HIF1A	hsa-miR-98-5p	SOX4	IL6
ESR1	hsa-miR-1-3p	TLR4	hsa-miR-98-5p	MYC	IL6
ESR1	hsa-miR-618	STAT3	hsa-miR-98-5p	GATA6	IL6
ESR1	hsa-miR-4279	TLR4	hsa-miR-98-5p	ARID3A	IL6
ESR1	hsa-miR-365a-5p	STAT3	hsa-miR-98-5p	E2F6	IL6
ESR1	hsa-miR-608	TP53	hsa-miR-98-5p	E2F4	IL6
ESR1	hsa-miR-155-5p	NFKB1	hsa-miR-98-5p	AHR	IL6
ESR1	hsa-miR-424-5p	HIF1A	hsa-miR-99a-5p	HOXA1	PTGS2
ESR1	hsa-miR-500b-3p	STAT3	hsa-miR-99a-5p	FOSL2	PTGS2
ESR1	hsa-miR-6837-5p	STAT3			
ESR1	hsa-miR-4698	TLR4			
ESR1	hsa-miR-1234-3p	STAT3			
ESR1	hsa-let-7e-5p	STAT3			
ESR1	hsa-miR-30b-5p	TP53			
ESR1	hsa-miR-4659a-3p	TLR4			
ESR1	hsa-miR-223-3p	TP53			

ESR1	hsa-miR-21-5p	TGFB1
ESR1	hsa-miR-21-5p	TLR4
ESR1	hsa-miR-21-5p	HIF1A
ESR1	hsa-miR-21-5p	NFKB1
ESR1	hsa-miR-211-5p	TGFB1
ESR1	hsa-miR-199a-5p	PTGS2
ESR1	hsa-miR-199a-5p	HIF1A
ESR1	hsa-miR-199a-5p	NFKB1
ESR1	hsa-miR-449c-5p	HIF1A
ESR1	hsa-let-7b-5p	PTGS2
ESR1	hsa-let-7b-5p	TLR4
ESR1	hsa-let-7b-5p	HIF1A
ESR1	hsa-miR-3609	HIF1A
ESR1	hsa-miR-20a-5p	TP53
ESR1	hsa-miR-20a-5p	HIF1A
ESR1	hsa-miR-299-5p	HIF1A
ESR1	hsa-miR-7158-5p	STAT3
ESR1	hsa-miR-4725-3p	TP53
ESR2	hsa-miR-1178-3p	STAT3
ESR2	hsa-miR-6872-3p	STAT3
ESR2	hsa-miR-7113-5p	STAT3
ESR2	hsa-miR-6871-3p	STAT3
ETS1	hsa-miR-150-5p	TP53
ETS1	hsa-miR-1908-5p	PTGS2
ETS1	hsa-miR-365a-5p	STAT3
ETS1	hsa-miR-199b-5p	HIF1A
ETS1	hsa-miR-4470	HIF1A
ETS1	hsa-miR-4531	TP53
ETS1	hsa-miR-21-5p	TGFB1
ETS1	hsa-miR-21-5p	HIF1A
ETS1	hsa-miR-21-5p	NFKB1
ETS1	hsa-miR-6815-3p	HIF1A
ETS1	hsa-miR-449c-5p	HIF1A
ETS1	hsa-miR-5193	TP53
ETS1	hsa-miR-6807-3p	HIF1A
ETS1	hsa-miR-6807-5p	STAT3

ETS1	hsa-miR-320a	PTGS2
ETS1	hsa-miR-24-3p	TGFB1
ETS2	hsa-miR-1322	HIF1A
ETS2	hsa-miR-7-5p	TLR4
ETS2	hsa-miR-4659b-3p	TLR4
ETS2	hsa-miR-449c-5p	HIF1A
ETS2	hsa-miR-942-5p	TLR4
ETV1	hsa-miR-3934-5p	PTGS2
ETV1	hsa-miR-365a-5p	STAT3
ETV1	hsa-miR-124-3p	PTGS2
ETV1	hsa-miR-124-3p	STAT3
ETV1	hsa-miR-149-3p	TP53
ETV4	hsa-miR-7113-5p	STAT3
ETV5	hsa-miR-15b-5p	SMAD3
ETV5	hsa-miR-155-5p	SMAD3
ETV5	hsa-miR-3128	HIF1A
ETV5	hsa-miR-16-5p	PTGS2
ETV5	hsa-miR-16-5p	TP53
ETV5	hsa-miR-16-5p	SMAD3
FEV	hsa-miR-3074-3p	HIF1A
FOS	hsa-miR-3934-5p	PTGS2
FOS	hsa-miR-210-3p	NFKB1
FOS	hsa-miR-210-3p	HIF1A
FOS	hsa-miR-130b-3p	STAT3
FOS	hsa-miR-942-5p	TLR4
FOS	hsa-miR-214-3p	TP53
FOS	hsa-miR-4470	HIF1A
FOS	hsa-miR-548g-3p	TLR4
FOS	hsa-miR-199a-3p	PTGS2
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FOS	hsa-let-7i-5p	TLR4
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FOS	hsa-miR-4282	HIF1A
FOS	hsa-miR-365a-5p	STAT3

FOS	hsa-miR-6133	TP53
FOS	hsa-miR-1181	STAT3
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FOS	hsa-miR-26a-5p	IL6
FOS	hsa-miR-3128	HIF1A
FOS	hsa-miR-4738-3p	TLR4
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FOS	hsa-miR-5702	TP53
FOS	hsa-miR-663a	TGFB1
FOS	hsa-miR-365a-3p	IL6
FOS	hsa-miR-589-5p	PTGS2
FOS	hsa-miR-34b-5p	HIF1A
FOS	hsa-miR-4694-3p	TLR4
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FOS	hsa-miR-16-5p	PTGS2
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FOS	hsa-miR-4531	TP53
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FOS	hsa-miR-30e-5p	TP53
FOS	hsa-let-7a-5p	IL6
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FOS	hsa-miR-21-5p	NFKB1
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FOS	hsa-miR-199a-5p	NFKB1
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FOS	hsa-miR-4748	HIF1A
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FOS	hsa-miR-107	IL6
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FOSL1	hsa-miR-30b-5p	TP53
FOSL2	hsa-miR-132-3p	PTGS2
FOSL2	hsa-miR-150-5p	TP53
FOSL2	hsa-miR-1908-5p	PTGS2
FOSL2	hsa-miR-4282	HIF1A
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FOSL2	hsa-let-7a-5p	PTGS2
FOSL2	hsa-miR-6133	TP53
FOSL2	hsa-miR-6809-3p	STAT3
FOSL2	hsa-miR-1181	STAT3
FOSL2	hsa-miR-22-3p	HIF1A
FOSL2	hsa-miR-5197-5p	TP53
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FOSL2	hsa-miR-4470	HIF1A
FOSL2	hsa-miR-6511a-5p	HIF1A
FOSL2	hsa-miR-33a-5p	HIF1A
FOSL2	hsa-miR-6789-3p	STAT3
FOSL2	hsa-miR-4516	STAT3
FOSL2	hsa-miR-4516	TP53
FOSL2	hsa-miR-4531	TP53
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FOSL2	hsa-miR-211-5p	TGFB1
FOSL2	hsa-miR-199a-5p	PTGS2
FOSL2	hsa-miR-199a-5p	HIF1A

FOSL2	hsa-miR-3074-3p	HIF1A
FOSL2	hsa-miR-199a-3p	PTGS2
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FOSL2	hsa-miR-589-5p	PTGS2
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FOXA1	hsa-miR-548ah-5p	HIF1A
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FOXA1	hsa-miR-5681a	STAT3
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FOXA1	hsa-miR-335-5p	IL6
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FOXA1	hsa-miR-449c-5p	HIF1A
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FOXA1	hsa-miR-181a-5p	STAT3
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FOXA2	hsa-miR-30b-5p	TP53
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FOXA2	hsa-miR-107	IL6
FOXD2	hsa-miR-210-3p	NFKB1
FOXD2	hsa-miR-210-3p	HIF1A
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FOXG1	hsa-miR-18a-5p	TP53
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FOXG1	hsa-miR-92b-3p	SMAD3
FOXG1	hsa-miR-150-5p	TP53
FOXG1	hsa-miR-20a-5p	TP53

FOXG1	hsa-miR-20a-5p	HIF1A
FOXG1	hsa-miR-19b-3p	TP53
FOXG1	hsa-miR-17-5p	TP53
FOXG1	hsa-miR-17-5p	HIF1A
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FOXG1	hsa-miR-5702	TP53
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FOXP2	hsa-miR-151a-3p	HIF1A
GABPA	hsa-miR-132-3p	PTGS2
GABPA	hsa-miR-9-5p	NFKB1
GABPA	hsa-miR-210-3p	NFKB1
GABPA	hsa-miR-210-3p	HIF1A
GABPA	hsa-miR-371b-3p	STAT3

GABPA	hsa-miR-365a-5p	STAT3
GABPA	hsa-miR-149-3p	TP53
GABPA	hsa-miR-199b-5p	HIF1A
GABPA	hsa-miR-22-3p	HIF1A
GABPA	hsa-miR-4441	STAT3
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GABPA	hsa-miR-6789-3p	STAT3
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GABPA	hsa-miR-138-5p	HIF1A
GABPA	hsa-miR-1181	STAT3
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GABPA	hsa-miR-3121-3p	HIF1A
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GATA1	hsa-miR-889-3p	HIF1A
GATA1	hsa-miR-9-5p	NFKB1
GATA1	hsa-miR-625-3p	HIF1A
GATA1	hsa-miR-4720-3p	STAT3
GATA1	hsa-miR-6809-3p	STAT3
GATA1	hsa-miR-155-5p	NFKB1
GATA1	hsa-miR-143-3p	PTGS2
GATA1	hsa-miR-143-3p	TNF

GATA1	hsa-miR-18a-5p	TP53
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GATA1	hsa-miR-6760-5p	TP53
GATA1	hsa-miR-935	HIF1A
GATA1	hsa-miR-19a-3p	TNF
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GATA1	hsa-miR-30b-5p	TP53
GATA1	hsa-miR-92a-3p	NFKB1
GATA1	hsa-miR-4659a-3p	TLR4
GATA1	hsa-miR-187-3p	TNF
GATA1	hsa-miR-329-5p	HIF1A
GATA1	hsa-miR-223-3p	TP53
GATA1	hsa-miR-21-5p	NFKB1
GATA1	hsa-miR-21-5p	TLR4
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GATA1	hsa-miR-6815-3p	HIF1A
GATA1	hsa-miR-153-5p	HIF1A
GATA1	hsa-miR-92a-1-5p	TP53
GATA1	hsa-miR-138-5p	HIF1A
GATA1	hsa-miR-19b-3p	TP53
GATA1	hsa-miR-17-5p	PTGS2
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GATA1	hsa-miR-4271	TP53
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GATA2	hsa-miR-132-3p	PTGS2
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GATA2	hsa-miR-9-5p	NFKB1
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GATA2	hsa-miR-4650-5p	TP53
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GATA2	hsa-miR-146a-5p	NFKB1
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GATA2	hsa-miR-3658	TLR4
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GATA2	hsa-miR-130b-3p	STAT3
GATA2	hsa-miR-335-5p	IL6
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GMEB2	hsa-miR-128-3p	PTGS2
GMEB2	hsa-miR-106b-5p	STAT3
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GMEB2	hsa-miR-93-5p	TGFB1
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HAND1	hsa-miR-9-5p	NFKB1
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HAND1	hsa-miR-2682-5p	HIF1A
HAND1	hsa-miR-107	HIF1A
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HIF1A	hsa-miR-296-3p	PTGS2
HIF1A	hsa-miR-211-5p	TGFB1
HIF1A	hsa-miR-589-5p	PTGS2
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HMGN3	hsa-miR-223-3p	TP53
HNF4A	hsa-miR-558	PTGS2
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HOXC6	hsa-miR-92a-1-5p	TP53
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HSF1	hsa-miR-6845-3p	STAT3
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HSF1	hsa-miR-4418	HIF1A
HSF1	hsa-miR-124-3p	STAT3
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IKZF1	hsa-miR-21-5p	NFKB1
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IKZF1	hsa-miR-155-5p	NFKB1
IRF1	hsa-miR-18a-5p	TP53
IRF1	hsa-miR-18a-5p	HIF1A
IRF1	hsa-miR-18a-5p	SMAD3
IRF1	hsa-miR-9-5p	NFKB1
IRF1	hsa-miR-625-3p	HIF1A
IRF1	hsa-miR-4799-5p	HIF1A
IRF1	hsa-miR-5095	STAT3
IRF1	hsa-miR-22-3p	HIF1A
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IRF1	hsa-miR-4470	HIF1A
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IRF1	hsa-miR-371b-3p	STAT3
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IRF1	hsa-miR-449c-5p	HIF1A
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IRF3	hsa-miR-130b-3p	STAT3
IRF3	hsa-miR-365a-5p	STAT3
IRF3	hsa-miR-6809-3p	STAT3
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IRF4	hsa-miR-6871-3p	STAT3
IRF4	hsa-miR-30e-5p	TP53

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IRF4	hsa-miR-29b-3p	TGFB1
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IRF5	hsa-miR-9-5p	NFKB1
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JUND	hsa-miR-106b-3p	HIF1A
KDM5A	hsa-miR-92a-2-5p	TP53
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KDM5A	hsa-miR-4306	TP53
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KDM5A	hsa-miR-4419a	TP53
KDM5A	hsa-miR-652-3p	PTGS2
KDM5A	hsa-miR-4290	SMAD3
KDM5A	hsa-miR-6760-5p	TP53
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KDM5A	hsa-miR-329-5p	HIF1A
KDM5A	hsa-miR-34b-5p	HIF1A
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KDM5A	hsa-miR-3529-3p	TP53
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KDM5A	hsa-miR-4682	TP53
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KDM5A	hsa-miR-4720-3p	STAT3
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KDM5A	hsa-miR-195-5p	SMAD3
KDM5A	hsa-miR-519d-3p	STAT3
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KDM5A	hsa-miR-4725-3p	TP53
KDM5B	hsa-miR-132-3p	PTGS2
KDM5B	hsa-miR-1-3p	IL6
KDM5B	hsa-miR-149-5p	IL6
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KDM5B	hsa-miR-6842-5p	TP53
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KDM5B	hsa-let-7b-5p	PTGS2
KDM5B	hsa-let-7b-5p	HIF1A
KDM5B	hsa-miR-30d-5p	TP53

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KDM5B	hsa-miR-124-3p	IL6
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KLF5	hsa-miR-4516	STAT3
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KLF5	hsa-miR-130b-3p	STAT3
LEF1	hsa-miR-9-5p	NFKB1
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LEF1	hsa-miR-877-3p	STAT3
LEF1	hsa-miR-935	HIF1A
LEF1	hsa-miR-6511a-5p	HIF1A
LEF1	hsa-miR-6845-3p	STAT3
LEF1	hsa-miR-6893-5p	HIF1A
LEF1	hsa-miR-449c-5p	HIF1A
LEF1	hsa-miR-940	HIF1A
LEF1	hsa-miR-6875-3p	STAT3
LEF1	hsa-miR-124-3p	STAT3
LEF1	hsa-miR-138-5p	HIF1A
LEF1	hsa-miR-1234-3p	STAT3
LEF1	hsa-miR-34b-5p	HIF1A
LYL1	hsa-miR-18a-5p	TP53
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LYL1	hsa-miR-18a-5p	SMAD3
LYL1	hsa-miR-17-5p	PTGS2
LYL1	hsa-miR-17-5p	TP53
LYL1	hsa-miR-17-5p	HIF1A
LYL1	hsa-miR-17-5p	SMAD3
LYL1	hsa-miR-19b-3p	TP53
LYL1	hsa-miR-20a-5p	TP53
LYL1	hsa-miR-20a-5p	HIF1A
LYL1	hsa-let-7a-5p	PTGS2
LYL1	hsa-miR-6872-3p	STAT3

LYL1	hsa-miR-92a-1-5p	TP53
LYL1	hsa-miR-18a-3p	SMAD3
LYL1	hsa-miR-19a-3p	TP53
MAFF	hsa-miR-18a-5p	TP53
MAFF	hsa-miR-18a-5p	HIF1A
MAFF	hsa-miR-18a-5p	SMAD3
MAFF	hsa-miR-558	HIF1A
MAFF	hsa-miR-889-3p	HIF1A
MAFF	hsa-miR-19a-3p	TP53
MAFF	hsa-miR-106b-5p	STAT3
MAFF	hsa-miR-106b-5p	HIF1A
MAFF	hsa-miR-93-5p	STAT3
MAFF	hsa-miR-93-5p	HIF1A
MAFF	hsa-miR-5702	TP53
MAFF	hsa-miR-17-5p	TP53
MAFF	hsa-miR-17-5p	HIF1A
MAFF	hsa-miR-17-5p	SMAD3
MAFF	hsa-miR-6760-5p	TP53
MAFF	hsa-miR-106a-3p	HIF1A
MAFF	hsa-miR-4271	TP53
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MAX	hsa-miR-203a-3p	IL6
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MAX	hsa-miR-210-3p	NFKB1
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MAX	hsa-miR-143-3p	PTGS2
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MAX	hsa-miR-4470	HIF1A
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MAX	hsa-miR-146b-5p	NFKB1
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MAX	hsa-miR-144-3p	TGFB1
MAX	hsa-let-7i-5p	TLR4
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MAX	hsa-miR-4659b-3p	TLR4
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MAX	hsa-miR-449c-5p	HIF1A

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MAZ	hsa-miR-4441	STAT3
MAZ	hsa-miR-633	TGFB1
MAZ	hsa-miR-320a	PTGS2
MBD3	hsa-miR-125a-5p	TP53
MBD3	hsa-miR-130b-3p	STAT3
MBD3	hsa-miR-143-3p	PTGS2
MBD3	hsa-miR-143-3p	TNF
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MBD3	hsa-miR-3165	TP53
MBD3	hsa-miR-6871-3p	STAT3
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MBD3	hsa-miR-3658	TLR4
MBD3	hsa-miR-4279	TLR4
MBD3	hsa-miR-181c-5p	IL2
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MBD4	hsa-miR-145-5p	SMAD3
MECOM	hsa-miR-18a-5p	TP53
MECOM	hsa-miR-18a-5p	HIF1A
MECOM	hsa-miR-18a-5p	SMAD3
MECOM	hsa-miR-19b-3p	TGFB1

MECOM	hsa-miR-19b-3p	TP53
MECOM	hsa-miR-17-5p	PTGS2
MECOM	hsa-miR-17-5p	TGFB1
MECOM	hsa-miR-17-5p	HIF1A
MECOM	hsa-miR-17-5p	SMAD3
MECOM	hsa-miR-17-5p	TP53
MECOM	hsa-miR-20a-5p	TP53
MECOM	hsa-miR-20a-5p	HIF1A
MECOM	hsa-miR-92a-1-5p	TP53
MECOM	hsa-miR-18a-3p	SMAD3
MECOM	hsa-miR-19a-3p	TP53
MECOM	hsa-miR-5702	TP53
MEF2A	hsa-miR-18a-5p	HIF1A
MEF2A	hsa-miR-5094	HIF1A
MEF2A	hsa-miR-365a-5p	STAT3
MEF2A	hsa-miR-17-5p	TGFB1
MEF2A	hsa-miR-17-5p	HIF1A
MEF2A	hsa-miR-663a	TGFB1
MEF2A	hsa-miR-3662	HIF1A
MEF2A	hsa-miR-20a-5p	HIF1A
MEF2C	hsa-miR-142-3p	IL6
MITF	hsa-miR-3934-5p	PTGS2
MITF	hsa-miR-146a-5p	PTGS2
MITF	hsa-miR-146a-5p	NFKB1
MITF	hsa-miR-874-3p	STAT3
MITF	hsa-miR-3074-3p	HIF1A
MITF	hsa-miR-296-3p	PTGS2
MITF	hsa-let-7a-5p	PTGS2
MITF	hsa-let-7a-5p	NFKB1
MITF	hsa-miR-30d-5p	TP53
MITF	hsa-let-7b-5p	PTGS2
MITF	hsa-let-7b-5p	HIF1A
MITF	hsa-miR-128-3p	PTGS2
MITF	hsa-miR-6875-3p	STAT3
MITF	hsa-miR-922	STAT3
MITF	hsa-miR-4441	STAT3

MNT	hsa-miR-18a-5p	TP53
MNT	hsa-miR-18a-5p	HIF1A
MNT	hsa-miR-18a-5p	SMAD3
MNT	hsa-miR-22-3p	HIF1A
MNT	hsa-miR-130b-3p	STAT3
MNT	hsa-miR-6872-3p	STAT3
MNT	hsa-miR-18a-3p	SMAD3
MNT	hsa-miR-19a-3p	TP53
MTA3	hsa-miR-625-3p	HIF1A
MTA3	hsa-miR-106b-5p	STAT3
MTA3	hsa-miR-106b-5p	HIF1A
MTA3	hsa-miR-93-5p	STAT3
MTA3	hsa-miR-93-5p	HIF1A
MTA3	hsa-miR-21-5p	NFKB1
MTA3	hsa-miR-21-5p	HIF1A
MTA3	hsa-miR-6807-3p	HIF1A
MTA3	hsa-miR-6807-5p	STAT3
MTA3	hsa-miR-3662	HIF1A
MTA3	hsa-miR-6871-3p	STAT3
MTA3	hsa-miR-106b-3p	HIF1A
MXD1	hsa-miR-15b-5p	SMAD3
MXD1	hsa-miR-16-5p	TP53
MXD1	hsa-miR-16-5p	SMAD3
MXI1	hsa-miR-132-3p	PTGS2
MXI1	hsa-miR-210-3p	NFKB1
MXI1	hsa-miR-210-3p	HIF1A
MXI1	hsa-miR-1908-5p	PTGS2
MXI1	hsa-miR-6809-3p	STAT3
MXI1	hsa-miR-130a-3p	TGFB1
MXI1	hsa-miR-130a-3p	TNF
MXI1	hsa-miR-199a-5p	PTGS2
MXI1	hsa-miR-199a-5p	HIF1A
MXI1	hsa-miR-199a-5p	NFKB1
MXI1	hsa-miR-199b-5p	HIF1A
MXI1	hsa-miR-7-5p	TLR4
MXI1	hsa-miR-22-3p	HIF1A

MXI1	hsa-miR-5197-5p	TP53
MXI1	hsa-miR-4470	HIF1A
MXI1	hsa-miR-935	HIF1A
MXI1	hsa-miR-19a-3p	TNF
MXI1	hsa-miR-19a-3p	TP53
MXI1	hsa-miR-30b-5p	TP53
MXI1	hsa-miR-4738-3p	TLR4
MXI1	hsa-miR-142-3p	IL6
MXI1	hsa-miR-92a-3p	NFKB1
MXI1	hsa-miR-223-3p	IL6
MXI1	hsa-miR-223-3p	TP53
MXI1	hsa-miR-6815-3p	HIF1A
MXI1	hsa-miR-19b-3p	TGFB1
MXI1	hsa-miR-19b-3p	TP53
MXI1	hsa-miR-145-5p	SMAD3
MXI1	hsa-miR-449c-5p	HIF1A
MXI1	hsa-miR-199a-3p	PTGS2
MXI1	hsa-let-7a-5p	IL6
MXI1	hsa-let-7a-5p	PTGS2
MXI1	hsa-let-7a-5p	NFKB1
MXI1	hsa-miR-203a-3p	IL6
MXI1	hsa-miR-203a-3p	TNF
MXI1	hsa-miR-128-3p	PTGS2
MXI1	hsa-miR-1322	HIF1A
MXI1	hsa-miR-4441	STAT3
MXI1	hsa-miR-4659a-3p	TLR4
MXI1	hsa-miR-92b-3p	SMAD3
MXI1	hsa-miR-124-3p	IL6
MXI1	hsa-miR-124-3p	PTGS2
MXI1	hsa-miR-124-3p	STAT3
MXI1	hsa-miR-138-5p	HIF1A
MXI1	hsa-miR-4279	TLR4
MXI1	hsa-miR-92a-1-5p	TP53
MXI1	hsa-miR-1181	STAT3
MXI1	hsa-miR-130b-3p	STAT3
MXI1	hsa-miR-320a	PTGS2

MYB	hsa-let-7b-5p	HIF1A
MYBL2	hsa-miR-618	STAT3
MYBL2	hsa-miR-5197-5p	TP53
MYBL2	hsa-miR-935	HIF1A
MYC	hsa-miR-3934-5p	PTGS2
MYC	hsa-miR-203a-3p	IL6
MYC	hsa-miR-203a-3p	TNF
MYC	hsa-miR-210-3p	NFKB1
MYC	hsa-miR-210-3p	HIF1A
MYC	hsa-miR-365a-3p	IL6
MYC	hsa-miR-379-3p	PTGS2
MYC	hsa-miR-5094	HIF1A
MYC	hsa-miR-130b-3p	STAT3
MYC	hsa-miR-877-3p	STAT3
MYC	hsa-miR-942-5p	TLR4
MYC	hsa-miR-143-3p	PTGS2
MYC	hsa-miR-143-3p	TNF
MYC	hsa-miR-143-3p	SMAD3
MYC	hsa-miR-214-3p	TP53
MYC	hsa-miR-149-3p	TP53
MYC	hsa-miR-22-3p	HIF1A
MYC	hsa-miR-4470	HIF1A
MYC	hsa-miR-150-5p	TP53
MYC	hsa-miR-4418	HIF1A
MYC	hsa-miR-199a-3p	PTGS2
MYC	hsa-miR-144-3p	TGFB1
MYC	hsa-miR-4487	HIF1A
MYC	hsa-miR-4659b-3p	TLR4
MYC	hsa-miR-124-3p	IL6
MYC	hsa-miR-124-3p	PTGS2
MYC	hsa-miR-124-3p	STAT3
MYC	hsa-miR-1234-3p	STAT3
MYC	hsa-miR-138-5p	HIF1A
MYC	hsa-miR-199b-5p	HIF1A
MYC	hsa-miR-18a-3p	SMAD3
MYC	hsa-miR-4279	TLR4

MYC	hsa-miR-139-5p	NFKB1
MYC	hsa-miR-4799-5p	HIF1A
MYC	hsa-miR-4685-5p	STAT3
MYC	hsa-miR-365a-5p	STAT3
MYC	hsa-miR-4286	TP53
MYC	hsa-miR-211-5p	TGFB1
MYC	hsa-miR-199a-5p	PTGS2
MYC	hsa-miR-199a-5p	HIF1A
MYC	hsa-miR-199a-5p	NFKB1
MYC	hsa-miR-146b-5p	NFKB1
MYC	hsa-miR-146b-5p	TLR4
MYC	hsa-miR-3128	HIF1A
MYC	hsa-miR-4738-3p	TLR4
MYC	hsa-miR-6871-3p	STAT3
MYC	hsa-miR-5702	TP53
MYC	hsa-miR-19b-3p	TGFB1
MYC	hsa-miR-19b-3p	TP53
MYC	hsa-miR-663a	TGFB1
MYC	hsa-miR-589-5p	PTGS2
MYC	hsa-miR-6789-3p	STAT3
MYC	hsa-miR-1322	HIF1A
MYC	hsa-miR-6875-3p	STAT3
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MYC	hsa-miR-4748	HIF1A
MYC	hsa-miR-18a-5p	TP53
MYC	hsa-miR-18a-5p	HIF1A
MYC	hsa-miR-18a-5p	SMAD3
MYC	hsa-miR-9-5p	NFKB1
MYC	hsa-miR-625-3p	HIF1A
MYC	hsa-miR-371b-3p	STAT3
MYC	hsa-miR-1908-5p	PTGS2
MYC	hsa-miR-5193	TP53
MYC	hsa-miR-6809-3p	STAT3
MYC	hsa-miR-6760-5p	TP53
MYC	hsa-miR-935	HIF1A
MYC	hsa-miR-142-3p	IL6

MYC	hsa-miR-4531	TP53
MYC	hsa-miR-132-3p	PTGS2
MYC	hsa-miR-6815-3p	HIF1A
MYC	hsa-miR-30e-5p	TP53
MYC	hsa-miR-6872-3p	STAT3
MYC	hsa-miR-4735-3p	HIF1A
MYC	hsa-miR-138-2-3p	STAT3
MYC	hsa-miR-4282	HIF1A
MYC	hsa-miR-922	STAT3
MYC	hsa-miR-1181	STAT3
MYC	hsa-miR-4441	STAT3
MYC	hsa-miR-424-5p	HIF1A
MYC	hsa-miR-149-5p	IL6
MYC	hsa-miR-130a-3p	TGFB1
MYC	hsa-miR-130a-3p	TNF
MYC	hsa-miR-193b-3p	SMAD3
MYC	hsa-miR-3165	TP53
MYC	hsa-miR-4659a-3p	TLR4
MYC	hsa-miR-223-3p	IL6
MYC	hsa-miR-223-3p	TP53
MYC	hsa-miR-509-5p	HIF1A
MYC	hsa-miR-4438	STAT3
MYC	hsa-miR-128-3p	PTGS2
MYC	hsa-miR-3609	HIF1A
MYC	hsa-miR-106b-3p	HIF1A
MYC	hsa-miR-299-5p	HIF1A
MYOD1	hsa-miR-26a-5p	IL6
MYOD1	hsa-miR-149-5p	IL6
MYOD1	hsa-miR-5193	TP53
MYOD1	hsa-miR-4282	HIF1A
MYOD1	hsa-miR-33a-5p	HIF1A
MYOD1	hsa-miR-6809-3p	STAT3
MYOD1	hsa-miR-149-3p	TP53
MYOD1	hsa-miR-5681a	STAT3
MYOD1	hsa-miR-3165	TP53
MYOD1	hsa-miR-106b-5p	STAT3

MYOD1	hsa-miR-106b-5p	HIF1A
MYOD1	hsa-miR-30b-5p	TP53
MYOD1	hsa-miR-6871-3p	STAT3
MYOD1	hsa-miR-93-5p	STAT3
MYOD1	hsa-miR-93-5p	HIF1A
MYOD1	hsa-miR-4531	TP53
MYOD1	hsa-miR-199a-5p	NFKB1
MYOD1	hsa-miR-199a-5p	HIF1A
MYOD1	hsa-miR-3160-3p	HIF1A
MYOD1	hsa-miR-3074-3p	HIF1A
MYOD1	hsa-miR-4748	HIF1A
MYOD1	hsa-miR-8055	HIF1A
MYOD1	hsa-miR-605-5p	TP53
MYOD1	hsa-let-7b-5p	HIF1A
MYOD1	hsa-miR-5681b	HIF1A
MYOD1	hsa-miR-106b-3p	HIF1A
MYOD1	hsa-miR-4270	STAT3
MYOD1	hsa-miR-138-5p	HIF1A
MZF1	hsa-miR-18a-5p	HIF1A
MZF1	hsa-miR-18a-5p	SMAD3
MZF1	hsa-miR-145-5p	SMAD3
MZF1	hsa-miR-17-5p	HIF1A
MZF1	hsa-miR-17-5p	SMAD3
MZF1	hsa-miR-18a-3p	SMAD3
NANOG	hsa-miR-9-5p	NFKB1
NANOG	hsa-miR-10b-5p	TP53
NANOG	hsa-miR-146a-5p	PTGS2
NANOG	hsa-miR-146a-5p	NFKB1
NANOG	hsa-miR-33a-5p	HIF1A
NANOG	hsa-miR-199b-5p	HIF1A
NANOG	hsa-miR-22-3p	HIF1A
NANOG	hsa-miR-193b-3p	SMAD3
NANOG	hsa-miR-519d-3p	STAT3
NANOG	hsa-miR-519d-3p	HIF1A
NANOG	hsa-miR-2682-5p	HIF1A
NANOG	hsa-miR-5702	TP53

NANOG	hsa-miR-21-5p	NFKB1
NANOG	hsa-miR-21-5p	HIF1A
NANOG	hsa-miR-6815-3p	HIF1A
NANOG	hsa-miR-137	PTGS2
NANOG	hsa-miR-449c-5p	HIF1A
NANOG	hsa-miR-7151-3p	STAT3
NANOG	hsa-miR-203a-3p	IL6
NANOG	hsa-miR-618	STAT3
NANOG	hsa-miR-4487	HIF1A
NANOG	hsa-miR-124-3p	IL6
NANOG	hsa-miR-124-3p	PTGS2
NANOG	hsa-miR-124-3p	STAT3
NANOG	hsa-miR-329-5p	HIF1A
NANOG	hsa-miR-34b-5p	HIF1A
NANOG	hsa-miR-424-5p	HIF1A
NANOG	hsa-miR-7158-5p	STAT3
NCOR1	hsa-miR-18a-5p	TP53
NCOR1	hsa-miR-18a-5p	HIF1A
NCOR1	hsa-miR-2682-5p	HIF1A
NCOR1	hsa-miR-150-5p	TP53
NCOR1	hsa-miR-1908-5p	PTGS2
NCOR1	hsa-miR-130b-3p	STAT3
NCOR1	hsa-let-7e-5p	STAT3
NCOR1	hsa-miR-6806-5p	HIF1A
NCOR1	hsa-miR-7-5p	TLR4
NCOR1	hsa-miR-4470	HIF1A
NCOR1	hsa-miR-19a-3p	TP53
NCOR1	hsa-miR-622	TP53
NCOR1	hsa-miR-1296-3p	TP53
NCOR1	hsa-miR-4738-3p	TLR4
NCOR1	hsa-miR-142-3p	IL6
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NCOR1	hsa-miR-223-3p	IL6
NCOR1	hsa-miR-223-3p	TP53
NCOR1	hsa-miR-21-5p	TGFB1
NCOR1	hsa-miR-21-5p	TLR4

NCOR1	hsa-miR-21-5p	HIF1A
NCOR1	hsa-miR-21-5p	NFKB1
NCOR1	hsa-miR-137	PTGS2
NCOR1	hsa-miR-663a	TGFB1
NCOR1	hsa-miR-296-3p	PTGS2
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NCOR1	hsa-let-7a-5p	NFKB1
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NCOR1	hsa-miR-9-5p	NFKB1
NCOR1	hsa-miR-3658	TLR4
NCOR1	hsa-miR-20a-5p	TP53
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NCOR1	hsa-miR-1181	STAT3
NCOR1	hsa-miR-199b-5p	HIF1A
NCOR1	hsa-miR-101-3p	PTGS2
NCOR1	hsa-miR-6872-3p	STAT3
NFAT5	hsa-miR-6807-5p	STAT3
NFAT5	hsa-miR-6807-3p	HIF1A
NFAT5	hsa-miR-106b-3p	HIF1A
NFAT5	hsa-let-7b-5p	PTGS2
NFAT5	hsa-let-7b-5p	HIF1A
NFAT5	hsa-miR-22-3p	HIF1A
NFATC1	hsa-miR-663a	TGFB1
NFATC1	hsa-miR-146a-5p	NFKB1
NFATC1	hsa-miR-29b-3p	TGFB1
NFATC1	hsa-miR-3662	HIF1A
NFATC1	hsa-miR-6872-3p	STAT3
NFATC1	hsa-miR-107	HIF1A
NFE2	hsa-miR-889-3p	HIF1A
NFE2	hsa-miR-33a-5p	HIF1A
NFE2	hsa-miR-6809-3p	STAT3
NFE2	hsa-miR-143-3p	PTGS2
NFE2	hsa-miR-143-3p	SMAD3
NFE2	hsa-miR-214-3p	TP53
NFE2	hsa-miR-935	HIF1A

NFE2	hsa-miR-4531	TP53
NFE2	hsa-miR-6815-3p	HIF1A
NFE2	hsa-miR-663a	TGFB1
NFE2	hsa-miR-6760-5p	TP53
NFE2	hsa-miR-589-5p	PTGS2
NFE2	hsa-miR-144-3p	TGFB1
NFE2	hsa-miR-1322	HIF1A
NFE2	hsa-miR-4271	TP53
NFE2	hsa-miR-4487	HIF1A
NFE2	hsa-miR-4659b-3p	TLR4
NFE2	hsa-miR-124-3p	PTGS2
NFE2	hsa-miR-124-3p	STAT3
NFE2	hsa-miR-138-5p	HIF1A
NFE2	hsa-miR-199b-5p	HIF1A
NFE2	hsa-miR-101-3p	PTGS2
NFE2L2	hsa-miR-106b-5p	STAT3
NFE2L2	hsa-miR-622	TP53
NFE2L2	hsa-miR-365a-5p	STAT3
NFE2L2	hsa-miR-93-5p	STAT3
NFE2L2	hsa-let-7b-5p	PTGS2
NFIC	hsa-miR-3934-5p	PTGS2
NFIC	hsa-miR-625-3p	HIF1A
NFIC	hsa-miR-199a-3p	PTGS2
NFIC	hsa-miR-5094	HIF1A
NFIC	hsa-miR-4282	HIF1A
NFIC	hsa-let-7a-5p	PTGS2
NFIC	hsa-let-7a-5p	NFKB1
NFIC	hsa-miR-365a-5p	STAT3
NFIC	hsa-miR-6133	TP53
NFIC	hsa-let-7e-5p	STAT3
NFIC	hsa-miR-199a-5p	PTGS2
NFIC	hsa-miR-199a-5p	HIF1A
NFIC	hsa-miR-199a-5p	NFKB1
NFIC	hsa-miR-24-3p	TGFB1
NFIC	hsa-miR-22-3p	HIF1A
NFIC	hsa-miR-5197-5p	TP53

NFIC	hsa-miR-193b-3p	SMAD3
NFIC	hsa-miR-4470	HIF1A
NFIC	hsa-miR-3165	TP53
NFIC	hsa-miR-5702	TP53
NFIC	hsa-let-7i-5p	TLR4
NFIC	hsa-miR-21-5p	TGFB1
NFIC	hsa-miR-21-5p	TLR4
NFIC	hsa-miR-21-5p	HIF1A
NFIC	hsa-miR-21-5p	NFKB1
NFIC	hsa-miR-145-5p	SMAD3
NFIC	hsa-miR-5193	TP53
NFIC	hsa-miR-30e-5p	TP53
NFIC	hsa-miR-6871-3p	STAT3
NFIC	hsa-miR-663a	TGFB1
NFIC	hsa-miR-203a-3p	TNF
NFIC	hsa-miR-9-5p	NFKB1
NFIC	hsa-miR-618	STAT3
NFIC	hsa-miR-4487	HIF1A
NFIC	hsa-miR-7-5p	TLR4
NFIC	hsa-miR-146b-5p	NFKB1
NFIC	hsa-miR-146b-5p	TLR4
NFIC	hsa-miR-4279	TLR4
NFIC	hsa-miR-3662	HIF1A
NFIC	hsa-miR-155-5p	NFKB1
NFIC	hsa-miR-155-5p	SMAD3
NFIC	hsa-miR-128-3p	PTGS2
NFIC	hsa-miR-320a	PTGS2
NFYA	hsa-miR-18a-5p	HIF1A
NFYA	hsa-miR-1181	STAT3
NFYA	hsa-miR-17-5p	PTGS2
NFYA	hsa-miR-17-5p	HIF1A
NFYB	hsa-let-7i-5p	TLR4
NFYB	hsa-miR-21-5p	TLR4
NFYB	hsa-miR-21-5p	HIF1A
NFYB	hsa-miR-3662	HIF1A
NFYB	hsa-miR-150-5p	TP53

NFYB	hsa-miR-5193	TP53
NFYB	hsa-miR-940	HIF1A
NKX2-1	hsa-miR-1178-3p	STAT3
NKX2-1	hsa-miR-3165	TP53
NKX2-1	hsa-miR-4799-5p	HIF1A
NKX2-1	hsa-miR-5197-5p	TP53
NKX2-1	hsa-miR-5702	TP53
NKX2-1	hsa-miR-21-5p	NFKB1
NKX2-1	hsa-miR-21-5p	HIF1A
NKX2-1	hsa-miR-137	PTGS2
NKX2-1	hsa-miR-92b-3p	SMAD3
NKX2-1	hsa-miR-6875-3p	STAT3
NKX2-2	hsa-miR-18a-5p	TP53
NKX2-2	hsa-miR-18a-5p	HIF1A
NKX2-2	hsa-miR-18a-5p	SMAD3
NKX2-2	hsa-miR-4470	HIF1A
NKX2-2	hsa-miR-17-5p	PTGS2
NKX2-2	hsa-miR-17-5p	TP53
NKX2-2	hsa-miR-17-5p	HIF1A
NKX2-2	hsa-miR-17-5p	SMAD3
NKX2-2	hsa-let-7a-5p	PTGS2
NKX2-2	hsa-miR-18a-3p	SMAD3
NR2F2	hsa-miR-1178-3p	STAT3
NR2F2	hsa-miR-3934-5p	PTGS2
NR2F2	hsa-miR-210-3p	NFKB1
NR2F2	hsa-miR-210-3p	HIF1A
NR2F2	hsa-miR-125a-5p	TP53
NR2F2	hsa-miR-877-3p	STAT3
NR2F2	hsa-miR-33a-5p	HIF1A
NR2F2	hsa-miR-149-3p	TP53
NR2F2	hsa-miR-296-3p	PTGS2
NR2F2	hsa-miR-22-3p	HIF1A
NR2F2	hsa-miR-622	TP53
NR2F2	hsa-miR-4470	HIF1A
NR2F2	hsa-miR-26b-5p	NFKB1
NR2F2	hsa-miR-26b-5p	PTGS2

NR2F2	hsa-miR-199a-3p	PTGS2
NR2F2	hsa-miR-6871-3p	STAT3
NR2F2	hsa-miR-4487	HIF1A
NR2F2	hsa-miR-7113-5p	STAT3
NR2F2	hsa-miR-130b-3p	STAT3
NR2F2	hsa-miR-106b-5p	STAT3
NR2F2	hsa-miR-106b-5p	HIF1A
NR2F2	hsa-miR-124-3p	IL6
NR2F2	hsa-miR-124-3p	PTGS2
NR2F2	hsa-miR-124-3p	STAT3
NR2F2	hsa-miR-199b-5p	HIF1A
NR2F2	hsa-miR-7110-3p	STAT3
NR2F2	hsa-miR-365a-5p	STAT3
NR2F2	hsa-miR-6754-5p	STAT3
NR2F2	hsa-miR-1181	STAT3
NR2F2	hsa-miR-146b-5p	NFKB1
NR2F2	hsa-miR-26a-5p	IL6
NR2F2	hsa-miR-4499	HIF1A
NR2F2	hsa-miR-6511a-5p	HIF1A
NR2F2	hsa-miR-324-3p	TGFB1
NR2F2	hsa-miR-93-5p	TGFB1
NR2F2	hsa-miR-93-5p	STAT3
NR2F2	hsa-miR-93-5p	HIF1A
NR2F2	hsa-miR-8071	TP53
NR2F2	hsa-miR-337-3p	STAT3
NR2F2	hsa-miR-6760-5p	TP53
NR2F2	hsa-miR-589-5p	PTGS2
NR2F2	hsa-miR-940	HIF1A
NR2F2	hsa-miR-6875-3p	STAT3
NR2F2	hsa-miR-5197-5p	TP53
NR2F2	hsa-miR-320a	PTGS2
NR2F2	hsa-miR-132-3p	PTGS2
NR2F2	hsa-miR-9-5p	NFKB1
NR2F2	hsa-miR-625-3p	HIF1A
NR2F2	hsa-miR-5193	TP53
NR2F2	hsa-miR-6809-3p	STAT3

NR2F2	hsa-miR-6806-5p	HIF1A
NR2F2	hsa-miR-365a-3p	IL6
NR2F2	hsa-miR-454-3p	TP53
NR2F2	hsa-miR-142-3p	IL6
NR2F2	hsa-miR-4531	TP53
NR2F2	hsa-miR-6815-3p	HIF1A
NR2F2	hsa-miR-3074-3p	HIF1A
NR2F2	hsa-miR-17-5p	TGFB1
NR2F2	hsa-miR-17-5p	PTGS2
NR2F2	hsa-miR-17-5p	HIF1A
NR2F2	hsa-miR-17-5p	SMAD3
NR2F2	hsa-miR-17-5p	TP53
NR2F2	hsa-let-7a-5p	IL6
NR2F2	hsa-let-7a-5p	PTGS2
NR2F2	hsa-let-7a-5p	NFKB1
NR2F2	hsa-miR-6872-3p	STAT3
NR2F2	hsa-miR-922	STAT3
NR2F2	hsa-miR-608	TP53
NR2F2	hsa-miR-4441	STAT3
NR2F2	hsa-miR-424-5p	HIF1A
NR2F2	hsa-miR-149-5p	IL6
NR2F2	hsa-miR-1-3p	IL6
NR2F2	hsa-miR-494-3p	HIF1A
NR2F2	hsa-miR-1234-3p	STAT3
NR2F2	hsa-let-7e-5p	STAT3
NR2F2	hsa-miR-195-5p	SMAD3
NR2F2	hsa-miR-193b-3p	SMAD3
NR2F2	hsa-miR-4516	STAT3
NR2F2	hsa-miR-4516	TP53
NR2F2	hsa-miR-223-3p	IL6
NR2F2	hsa-miR-223-3p	TP53
NR2F2	hsa-miR-21-5p	TGFB1
NR2F2	hsa-miR-21-5p	HIF1A
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NR2F2	hsa-miR-211-5p	TGFB1
NR2F2	hsa-miR-199a-5p	PTGS2

NR2F2	hsa-miR-199a-5p	HIF1A
NR2F2	hsa-miR-199a-5p	NFKB1
NR2F2	hsa-miR-145-5p	SMAD3
NR2F2	hsa-miR-449c-5p	HIF1A
NR2F2	hsa-miR-24-3p	TGFB1
NR2F2	hsa-miR-106b-3p	HIF1A
NR3C1	hsa-miR-4720-3p	STAT3
NR3C1	hsa-miR-3934-5p	PTGS2
NR3C1	hsa-miR-210-3p	HIF1A
NR3C1	hsa-miR-4799-5p	HIF1A
NR3C1	hsa-miR-1908-5p	PTGS2
NR3C1	hsa-miR-18b-5p	HIF1A
NR3C1	hsa-let-7a-5p	IL6
NR3C1	hsa-let-7a-5p	PTGS2
NR3C1	hsa-miR-106a-3p	HIF1A
NR3C1	hsa-let-7b-5p	PTGS2
NR3C1	hsa-let-7b-5p	HIF1A
NR3C1	hsa-miR-5692a	HIF1A
NR3C1	hsa-miR-143-3p	PTGS2
NR3C1	hsa-miR-143-3p	SMAD3
NR3C1	hsa-miR-203a-3p	IL6
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NR3C1	hsa-miR-365a-3p	IL6
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NR3C1	hsa-miR-324-3p	TGFB1
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NR3C1	hsa-miR-663a	TGFB1
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NR3C1	hsa-miR-5193	TP53
NR3C1	hsa-miR-181a-5p	PTGS2
NR3C1	hsa-miR-181a-5p	STAT3
NR3C1	hsa-miR-1-3p	IL6
NR3C1	hsa-miR-589-5p	PTGS2
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NR3C1	hsa-miR-365a-5p	STAT3
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NR3C1	hsa-miR-320a	PTGS2
NR5A1	hsa-miR-296-3p	PTGS2
NR5A1	hsa-miR-1910-3p	HIF1A
NR5A1	hsa-miR-663a	TGFB1
NRF1	hsa-miR-18a-5p	HIF1A
NRF1	hsa-miR-203a-3p	TNF
NRF1	hsa-miR-130b-3p	STAT3
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NRF1	hsa-miR-484	IL2
NRF1	hsa-miR-19a-3p	TNF
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NRF1	hsa-miR-4738-3p	TLR4
NRF1	hsa-miR-92a-3p	NFKB1
NRF1	hsa-miR-452-5p	TNF
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NRF1	hsa-miR-449c-5p	HIF1A
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NRF1	hsa-miR-138-5p	HIF1A
NRF1	hsa-miR-20a-5p	HIF1A
OTX2	hsa-miR-9-5p	NFKB1
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OTX2	hsa-miR-4650-5p	TP53
OTX2	hsa-miR-149-5p	IL6
OTX2	hsa-miR-130b-3p	STAT3
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OTX2	hsa-miR-203a-3p	IL6
OTX2	hsa-miR-193b-3p	SMAD3
OTX2	hsa-miR-6511a-5p	HIF1A
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OTX2	hsa-miR-149-3p	TP53
OTX2	hsa-miR-21-5p	TGFB1
OTX2	hsa-miR-21-5p	HIF1A
OTX2	hsa-miR-21-5p	NFKB1
OTX2	hsa-miR-137	PTGS2
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OTX2	hsa-miR-589-5p	PTGS2
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OTX2	hsa-miR-128-3p	PTGS2
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OTX2	hsa-miR-200a-3p	TP53
OTX2	hsa-miR-200a-3p	SMAD3
OTX2	hsa-miR-124-3p	IL6
OTX2	hsa-miR-124-3p	PTGS2
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OTX2	hsa-miR-34b-5p	HIF1A
OVOL2	hsa-miR-22-3p	HIF1A
PATZ1	hsa-miR-18a-5p	SMAD3
PATZ1	hsa-miR-17-5p	PTGS2
PATZ1	hsa-miR-17-5p	SMAD3

PATZ1	hsa-miR-18a-3p	SMAD3
PAX5	hsa-miR-18a-5p	TP53
PAX5	hsa-miR-18a-5p	HIF1A
PAX5	hsa-miR-625-3p	HIF1A
PAX5	hsa-miR-9-5p	NFKB1
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PAX5	hsa-miR-365a-5p	STAT3
PAX5	hsa-miR-199b-5p	HIF1A
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PAX5	hsa-miR-19a-3p	TNF
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PAX5	hsa-miR-4487	HIF1A
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PAX5	hsa-miR-210-3p	NFKB1
PAX5	hsa-miR-210-3p	HIF1A

PAX5	hsa-miR-128-3p	PTGS2
PAX5	hsa-miR-92a-1-5p	TP53
PBX1	hsa-miR-4419a	TP53
PBX1	hsa-miR-5197-5p	TP53
PBX3	hsa-miR-150-5p	TP53
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PBX3	hsa-miR-4470	HIF1A
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PBX3	hsa-miR-4650-5p	TP53
PBX3	hsa-miR-199a-5p	HIF1A
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PBX3	hsa-miR-106b-5p	STAT3
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PBX3	hsa-miR-4531	TP53
PBX3	hsa-miR-107	HIF1A
PGR	hsa-miR-203a-3p	IL6
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POU2F2	hsa-miR-6511a-5p	HIF1A

POU2F2	hsa-miR-6807-3p	HIF1A
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POU5F1	hsa-miR-146b-5p	NFKB1
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POU5F1	hsa-miR-7158-5p	STAT3
POU5F1	hsa-miR-4725-3p	TP53
PPARG	hsa-miR-625-3p	HIF1A
PPARG	hsa-miR-4684-5p	STAT3
PPARG	hsa-miR-199a-5p	HIF1A
PPARG	hsa-miR-1910-3p	HIF1A
PPARG	hsa-miR-4748	HIF1A
PPARG	hsa-miR-4463	HIF1A
PPARG	hsa-miR-3668	HIF1A
PPARG	hsa-miR-107	HIF1A
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PRDM1	hsa-miR-3609	HIF1A
PRDM1	hsa-miR-4720-3p	STAT3
PRDM1	hsa-let-7c-5p	IL6
RARG	hsa-miR-6815-3p	HIF1A
RARG	hsa-miR-22-3p	HIF1A
RARG	hsa-miR-1181	STAT3
RARG	hsa-miR-320a	PTGS2
RARG	hsa-miR-1908-5p	PTGS2
RCOR1	hsa-miR-150-5p	TP53

RCOR1	hsa-miR-942-5p	TLR4
RCOR1	hsa-miR-143-3p	PTGS2
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RCOR1	hsa-miR-34b-5p	HIF1A
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RCOR1	hsa-miR-146a-5p	TLR4
RCOR1	hsa-miR-146a-5p	NFKB1
RCOR1	hsa-miR-6809-3p	STAT3
RCOR1	hsa-miR-5197-5p	TP53
RCOR1	hsa-miR-6815-3p	HIF1A
RCOR1	hsa-miR-30e-5p	TP53
RCOR1	hsa-let-7a-5p	IL6
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RCOR1	hsa-miR-130a-3p	TNF
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RCOR1	hsa-miR-193b-3p	SMAD3
RCOR1	hsa-let-7e-5p	STAT3
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RCOR1	hsa-miR-24-3p	TGFB1
RELA	hsa-miR-139-5p	NFKB1
RELA	hsa-miR-625-3p	HIF1A

RELA	hsa-miR-4799-5p	HIF1A
RELA	hsa-miR-1908-5p	PTGS2
RELA	hsa-miR-365a-5p	STAT3
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RELA	hsa-miR-195-5p	SMAD3
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RELA	hsa-miR-4531	TP53
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RELA	hsa-miR-21-5p	TLR4
RELA	hsa-miR-21-5p	HIF1A
RELA	hsa-miR-21-5p	NFKB1
RELA	hsa-miR-153-5p	HIF1A
RELA	hsa-miR-128-3p	PTGS2
RELA	hsa-miR-9-5p	NFKB1
RELA	hsa-miR-5193	TP53
RELA	hsa-miR-6871-3p	STAT3
RELA	hsa-miR-663a	TGFB1
RELA	hsa-miR-146a-5p	PTGS2
RELA	hsa-miR-146a-5p	TLR4
RELA	hsa-miR-146a-5p	NFKB1
RELA	hsa-miR-138-2-3p	STAT3
RELA	hsa-miR-589-5p	PTGS2
RELA	hsa-miR-6875-3p	STAT3
RELA	hsa-let-7i-5p	TLR4
RELA	hsa-miR-618	STAT3

RELA	hsa-miR-92b-3p	SMAD3
RELA	hsa-miR-449c-5p	HIF1A
RELA	hsa-miR-146b-5p	NFKB1
RELA	hsa-miR-146b-5p	TLR4
RELA	hsa-miR-3662	HIF1A
RELA	hsa-miR-138-5p	HIF1A
RELA	hsa-miR-1181	STAT3
RELA	hsa-miR-155-5p	IL6
RELA	hsa-miR-155-5p	NFKB1
RELA	hsa-miR-155-5p	SMAD3
RELA	hsa-miR-210-3p	NFKB1
RELA	hsa-miR-210-3p	HIF1A
RELA	hsa-miR-6872-3p	STAT3
RELA	hsa-miR-17-5p	TGFB1
RELA	hsa-miR-17-5p	PTGS2
RELA	hsa-miR-17-5p	HIF1A
RELA	hsa-miR-17-5p	SMAD3
RELA	hsa-miR-17-5p	TP53
RELA	hsa-miR-223-3p	IL6
RELA	hsa-miR-223-3p	TP53
RELA	hsa-miR-24-3p	TGFB1
REST	hsa-miR-3934-5p	PTGS2
REST	hsa-miR-150-5p	TP53
REST	hsa-miR-4684-5p	STAT3
REST	hsa-miR-130b-3p	STAT3
REST	hsa-miR-942-5p	TLR4
REST	hsa-miR-18a-5p	TP53
REST	hsa-miR-18a-5p	HIF1A
REST	hsa-miR-18a-5p	SMAD3
REST	hsa-miR-22-3p	HIF1A
REST	hsa-miR-4470	HIF1A
REST	hsa-miR-4748	HIF1A
REST	hsa-miR-146b-5p	NFKB1
REST	hsa-miR-146b-5p	TLR4
REST	hsa-miR-92a-3p	NFKB1
REST	hsa-let-7i-5p	TLR4

REST	hsa-miR-199a-3p	PTGS2
REST	hsa-miR-144-3p	TGFB1
REST	hsa-miR-6807-3p	HIF1A
REST	hsa-miR-4487	HIF1A
REST	hsa-miR-92b-3p	SMAD3
REST	hsa-miR-4659b-3p	TLR4
REST	hsa-miR-4662a-5p	HIF1A
REST	hsa-miR-199b-5p	HIF1A
REST	hsa-miR-92a-1-5p	TP53
REST	hsa-miR-18a-3p	SMAD3
REST	hsa-miR-139-5p	NFKB1
REST	hsa-miR-4685-5p	STAT3
REST	hsa-miR-365a-5p	STAT3
REST	hsa-miR-15b-5p	SMAD3
REST	hsa-miR-7-5p	TLR4
REST	hsa-miR-155-5p	IL6
REST	hsa-miR-155-5p	NFKB1
REST	hsa-miR-155-5p	SMAD3
REST	hsa-miR-5692a	HIF1A
REST	hsa-miR-6511a-5p	HIF1A
REST	hsa-miR-622	TP53
REST	hsa-miR-4738-3p	TLR4
REST	hsa-miR-5702	TP53
REST	hsa-miR-137	PTGS2
REST	hsa-miR-8071	TP53
REST	hsa-miR-663a	TGFB1
REST	hsa-miR-365a-3p	IL6
REST	hsa-miR-6789-3p	STAT3
REST	hsa-miR-6875-3p	STAT3
REST	hsa-miR-138-5p	HIF1A
REST	hsa-miR-320a	PTGS2
REST	hsa-miR-132-3p	PTGS2
REST	hsa-miR-1908-5p	PTGS2
REST	hsa-miR-5193	TP53
REST	hsa-miR-16-5p	PTGS2
REST	hsa-miR-16-5p	TP53

REST	hsa-miR-16-5p	NFKB1
REST	hsa-miR-16-5p	SMAD3
REST	hsa-miR-5197-5p	TP53
REST	hsa-miR-935	HIF1A
REST	hsa-miR-19a-3p	TNF
REST	hsa-miR-19a-3p	TP53
REST	hsa-miR-2682-5p	HIF1A
REST	hsa-miR-142-3p	IL6
REST	hsa-miR-1468-3p	TLR4
REST	hsa-miR-618	STAT3
REST	hsa-miR-3662	HIF1A
REST	hsa-miR-4279	TLR4
REST	hsa-miR-1181	STAT3
REST	hsa-miR-4441	STAT3
REST	hsa-miR-3121-3p	HIF1A
REST	hsa-miR-193b-3p	SMAD3
REST	hsa-miR-4659a-3p	TLR4
REST	hsa-miR-199a-5p	PTGS2
REST	hsa-miR-199a-5p	HIF1A
REST	hsa-miR-199a-5p	NFKB1
REST	hsa-miR-145-5p	SMAD3
REST	hsa-miR-24-3p	TGFB1
REST	hsa-miR-128-3p	PTGS2
REST	hsa-miR-6807-5p	STAT3
RFX1	hsa-let-7b-5p	PTGS2
RFX1	hsa-let-7b-5p	HIF1A
RFX1	hsa-miR-21-5p	TGFB1
RFX1	hsa-miR-21-5p	HIF1A
RFX1	hsa-miR-24-3p	TGFB1
RFX1	hsa-miR-106b-5p	STAT3
RFX1	hsa-miR-106b-5p	HIF1A
RFX1	hsa-miR-106b-3p	HIF1A
RFX1	hsa-miR-93-5p	TGFB1
RFX1	hsa-miR-93-5p	STAT3
RFX1	hsa-miR-93-5p	HIF1A
RFX1	hsa-miR-6893-5p	HIF1A

RFX5	hsa-miR-26a-5p	IL6
RFX5	hsa-miR-210-3p	NFKB1
RFX5	hsa-miR-210-3p	HIF1A
RFX5	hsa-miR-9-5p	NFKB1
RFX5	hsa-miR-1908-5p	PTGS2
RFX5	hsa-miR-365a-5p	STAT3
RFX5	hsa-miR-6809-3p	STAT3
RFX5	hsa-miR-99a-5p	PTGS2
RFX5	hsa-miR-22-3p	HIF1A
RFX5	hsa-miR-6760-5p	TP53
RFX5	hsa-miR-193b-3p	SMAD3
RFX5	hsa-miR-4470	HIF1A
RFX5	hsa-miR-365a-3p	IL6
RFX5	hsa-miR-935	HIF1A
RFX5	hsa-miR-622	TP53
RFX5	hsa-miR-3128	HIF1A
RFX5	hsa-miR-92a-3p	NFKB1
RFX5	hsa-miR-1264	TP53
RFX5	hsa-miR-4531	TP53
RFX5	hsa-miR-6807-3p	HIF1A
RFX5	hsa-miR-4419a	TP53
RFX5	hsa-miR-6815-3p	HIF1A
RFX5	hsa-miR-211-5p	TGFB1
RFX5	hsa-miR-92a-1-5p	TP53
RFX5	hsa-miR-652-3p	PTGS2
RFX5	hsa-miR-145-5p	SMAD3
RFX5	hsa-miR-449c-5p	HIF1A
RFX5	hsa-miR-5193	TP53
RFX5	hsa-miR-17-5p	TGFB1
RFX5	hsa-miR-17-5p	PTGS2
RFX5	hsa-miR-17-5p	HIF1A
RFX5	hsa-miR-17-5p	SMAD3
RFX5	hsa-miR-17-5p	TP53
RFX5	hsa-miR-6872-3p	STAT3
RFX5	hsa-miR-6875-3p	STAT3
RFX5	hsa-miR-92b-3p	SMAD3

RFX5	hsa-miR-6807-5p	STAT3
RFX5	hsa-miR-5197-5p	TP53
RFX5	hsa-miR-1181	STAT3
RFX5	hsa-miR-138-5p	HIF1A
RFX5	hsa-miR-320a	PTGS2
RFX5	hsa-let-7c-5p	IL6
RFX5	hsa-let-7c-5p	PTGS2
RFX5	hsa-miR-107	IL6
RFX5	hsa-miR-107	HIF1A
RUNX1	hsa-miR-548ah-5p	HIF1A
RUNX1	hsa-miR-4720-3p	STAT3
RUNX1	hsa-miR-3934-5p	PTGS2
RUNX1	hsa-miR-210-3p	NFKB1
RUNX1	hsa-miR-210-3p	HIF1A
RUNX1	hsa-miR-150-5p	TP53
RUNX1	hsa-miR-153-5p	HIF1A
RUNX1	hsa-miR-365a-5p	STAT3
RUNX1	hsa-miR-149-3p	TP53
RUNX1	hsa-miR-24-3p	TGFB1
RUNX1	hsa-miR-5197-5p	TP53
RUNX1	hsa-miR-26b-5p	NFKB1
RUNX1	hsa-miR-26b-5p	PTGS2
RUNX1	hsa-miR-92a-2-5p	TP53
RUNX1	hsa-miR-92a-3p	NFKB1
RUNX1	hsa-miR-223-3p	TP53
RUNX1	hsa-miR-5193	TP53
RUNX1	hsa-miR-6871-3p	STAT3
RUNX1	hsa-let-7a-5p	PTGS2
RUNX1	hsa-let-7a-5p	NFKB1
RUNX1	hsa-miR-146a-5p	PTGS2
RUNX1	hsa-miR-146a-5p	NFKB1
RUNX1	hsa-miR-5681a	STAT3
RUNX1	hsa-miR-5681b	HIF1A
RUNX1	hsa-miR-4487	HIF1A
RUNX1	hsa-miR-200a-3p	TP53
RUNX1	hsa-miR-155-5p	NFKB1

RUNX1	hsa-miR-101-3p	PTGS2
RUNX1	hsa-miR-424-5p	HIF1A
RUNX1	hsa-miR-199b-5p	HIF1A
RUNX1	hsa-miR-7158-5p	STAT3
RUNX3	hsa-miR-132-3p	PTGS2
RUNX3	hsa-miR-139-5p	NFKB1
RUNX3	hsa-miR-625-3p	HIF1A
RUNX3	hsa-miR-9-5p	NFKB1
RUNX3	hsa-miR-4270	STAT3
RUNX3	hsa-miR-5094	HIF1A
RUNX3	hsa-miR-365a-5p	STAT3
RUNX3	hsa-miR-199b-5p	HIF1A
RUNX3	hsa-miR-150-5p	TP53
RUNX3	hsa-miR-6760-5p	TP53
RUNX3	hsa-miR-210-3p	NFKB1
RUNX3	hsa-miR-210-3p	HIF1A
RUNX3	hsa-miR-4799-5p	HIF1A
RUNX3	hsa-miR-128-3p	PTGS2
RUNX3	hsa-miR-142-3p	IL6
RUNX3	hsa-miR-449c-5p	HIF1A
RUNX3	hsa-miR-3529-3p	TP53
RUNX3	hsa-miR-5193	TP53
RUNX3	hsa-miR-30e-5p	TP53
RUNX3	hsa-miR-6871-3p	STAT3
RUNX3	hsa-let-7a-5p	IL6
RUNX3	hsa-let-7a-5p	PTGS2
RUNX3	hsa-let-7a-5p	NFKB1
RUNX3	hsa-miR-365a-3p	IL6
RUNX3	hsa-miR-589-5p	PTGS2
RUNX3	hsa-miR-1322	HIF1A
RUNX3	hsa-miR-6875-3p	STAT3
RUNX3	hsa-miR-3662	HIF1A
RUNX3	hsa-miR-146b-5p	NFKB1
RUNX3	hsa-miR-124-3p	IL6
RUNX3	hsa-miR-124-3p	PTGS2
RUNX3	hsa-miR-124-3p	STAT3

RUNX3	hsa-miR-138-5p	HIF1A
RUNX3	hsa-miR-4531	TP53
RUNX3	hsa-miR-6872-3p	STAT3
RUNX3	hsa-miR-320a	PTGS2
RUNX3	hsa-miR-223-3p	IL6
RUNX3	hsa-miR-223-3p	TP53
RXRA	hsa-let-7b-5p	PTGS2
RXRA	hsa-let-7b-5p	TLR4
RXRA	hsa-let-7b-5p	HIF1A
RXRA	hsa-miR-7-5p	TLR4
RXRA	hsa-miR-22-3p	HIF1A
RXRA	hsa-miR-6722-3p	TP53
RXRA	hsa-miR-6511a-5p	HIF1A
RXRA	hsa-miR-4516	STAT3
RXRA	hsa-miR-4516	TP53
RXRA	hsa-miR-21-5p	TGFB1
RXRA	hsa-miR-21-5p	TLR4
RXRA	hsa-miR-21-5p	HIF1A
RXRA	hsa-miR-199a-5p	PTGS2
RXRA	hsa-miR-199a-5p	HIF1A
RXRA	hsa-miR-199a-3p	PTGS2
RXRA	hsa-miR-663a	TGFB1
RXRA	hsa-let-7i-5p	TLR4
RXRA	hsa-miR-107	HIF1A
SETDB1	hsa-miR-18a-5p	TP53
SETDB1	hsa-miR-18a-5p	HIF1A
SETDB1	hsa-miR-18a-5p	SMAD3
SETDB1	hsa-miR-9-5p	NFKB1
SETDB1	hsa-miR-153-5p	HIF1A
SETDB1	hsa-miR-4286	TP53
SETDB1	hsa-miR-4470	HIF1A
SETDB1	hsa-miR-3165	TP53
SETDB1	hsa-miR-19a-3p	TP53
SETDB1	hsa-miR-622	TP53
SETDB1	hsa-miR-4290	SMAD3
SETDB1	hsa-miR-19b-3p	TP53

SETDB1	hsa-miR-5193	TP53
SETDB1	hsa-miR-17-5p	PTGS2
SETDB1	hsa-miR-17-5p	TP53
SETDB1	hsa-miR-17-5p	HIF1A
SETDB1	hsa-miR-17-5p	SMAD3
SETDB1	hsa-miR-6760-5p	TP53
SETDB1	hsa-miR-589-5p	PTGS2
SETDB1	hsa-miR-6875-3p	STAT3
SETDB1	hsa-miR-4662a-5p	HIF1A
SETDB1	hsa-miR-922	STAT3
SETDB1	hsa-miR-20a-5p	TP53
SETDB1	hsa-miR-20a-5p	HIF1A
SETDB1	hsa-miR-1181	STAT3
SETDB1	hsa-miR-155-5p	NFKB1
SETDB1	hsa-miR-155-5p	SMAD3
SETDB1	hsa-miR-92a-1-5p	TP53
SETDB1	hsa-miR-18a-3p	SMAD3
SIX5	hsa-miR-24-3p	TGFB1
SIX5	hsa-miR-150-5p	TP53
SIX5	hsa-miR-145-5p	SMAD3
SIX5	hsa-miR-663a	TGFB1
SIX5	hsa-miR-4516	STAT3
SIX5	hsa-miR-4516	TP53
SIX5	hsa-miR-6789-3p	STAT3
SMAD1	hsa-miR-132-3p	PTGS2
SMAD1	hsa-miR-9-5p	NFKB1
SMAD1	hsa-miR-3165	TP53
SMAD1	hsa-miR-4720-3p	STAT3
SMAD1	hsa-miR-210-3p	NFKB1
SMAD1	hsa-miR-210-3p	HIF1A
SMAD1	hsa-miR-1234-3p	STAT3
SMAD1	hsa-miR-24-3p	TGFB1
SMAD1	hsa-miR-22-3p	HIF1A
SMAD1	hsa-miR-4470	HIF1A
SMAD1	hsa-miR-935	HIF1A
SMAD1	hsa-miR-454-3p	TP53

SMAD1	hsa-miR-6511a-5p	HIF1A
SMAD1	hsa-miR-6845-3p	STAT3
SMAD1	hsa-miR-2682-5p	HIF1A
SMAD1	hsa-miR-4516	STAT3
SMAD1	hsa-miR-4516	TP53
SMAD1	hsa-miR-21-5p	TGFB1
SMAD1	hsa-miR-21-5p	HIF1A
SMAD1	hsa-miR-21-5p	NFKB1
SMAD1	hsa-miR-1908-5p	PTGS2
SMAD1	hsa-miR-137	PTGS2
SMAD1	hsa-miR-199a-5p	PTGS2
SMAD1	hsa-miR-199a-5p	HIF1A
SMAD1	hsa-miR-199a-5p	NFKB1
SMAD1	hsa-miR-3074-3p	HIF1A
SMAD1	hsa-miR-449c-5p	HIF1A
SMAD1	hsa-miR-199a-3p	PTGS2
SMAD1	hsa-miR-6872-3p	STAT3
SMAD1	hsa-miR-149-3p	TP53
SMAD1	hsa-miR-589-5p	PTGS2
SMAD1	hsa-miR-92b-3p	SMAD3
SMAD1	hsa-miR-6875-3p	STAT3
SMAD1	hsa-miR-200a-3p	TP53
SMAD1	hsa-miR-200a-3p	SMAD3
SMAD1	hsa-miR-130b-3p	STAT3
SMAD1	hsa-miR-138-5p	HIF1A
SMAD1	hsa-miR-124-3p	PTGS2
SMAD1	hsa-miR-124-3p	STAT3
SMAD1	hsa-miR-34b-5p	HIF1A
SMAD1	hsa-miR-1181	STAT3
SMAD2	hsa-miR-24-3p	TGFB1
SMAD2	hsa-miR-193b-3p	SMAD3
SMAD2	hsa-miR-4290	SMAD3
SMAD2	hsa-miR-181c-5p	IL2
SMAD2	hsa-miR-744-5p	TGFB1
SMAD4	hsa-miR-22-3p	HIF1A
SMAD4	hsa-miR-935	HIF1A

SMAD4	hsa-miR-6511a-5p	HIF1A
SMAD4	hsa-miR-21-5p	TGFB1
SMAD4	hsa-miR-21-5p	HIF1A
SMAD4	hsa-miR-6893-5p	HIF1A
SMAD4	hsa-miR-124-3p	PTGS2
SMAD4	hsa-miR-124-3p	STAT3
SMAD4	hsa-miR-1234-3p	STAT3
SMAD4	hsa-miR-92a-1-5p	TP53
SMAD4	hsa-miR-18a-3p	SMAD3
SMARCC1	hsa-miR-145-5p	SMAD3
SMARCC1	hsa-miR-365a-5p	STAT3
SMARCC1	hsa-miR-1181	STAT3
SMARCC1	hsa-miR-4279	TLR4
SMARCC1	hsa-miR-7113-5p	STAT3
SMARCC1	hsa-miR-92b-3p	SMAD3
SMARCC2	hsa-miR-7-5p	TLR4
SMARCC2	hsa-miR-3165	TP53
SMARCC2	hsa-miR-4738-3p	TLR4
SNAI2	hsa-miR-132-3p	PTGS2
SNAI2	hsa-miR-210-3p	NFKB1
SNAI2	hsa-miR-210-3p	HIF1A
SNAI2	hsa-miR-130b-3p	STAT3
SNAI2	hsa-miR-6754-5p	STAT3
SNAI2	hsa-miR-6809-3p	STAT3
SNAI2	hsa-miR-6808-5p	HIF1A
SNAI2	hsa-miR-935	HIF1A
SNAI2	hsa-miR-6511a-5p	HIF1A
SNAI2	hsa-miR-2682-5p	HIF1A
SNAI2	hsa-miR-1908-5p	PTGS2
SNAI2	hsa-miR-93-5p	TGFB1
SNAI2	hsa-miR-93-5p	STAT3
SNAI2	hsa-miR-93-5p	HIF1A
SNAI2	hsa-miR-4516	STAT3
SNAI2	hsa-miR-6815-3p	HIF1A
SNAI2	hsa-miR-137	PTGS2
SNAI2	hsa-miR-449c-5p	HIF1A

SNAI2	hsa-miR-589-5p	PTGS2
SNAI2	hsa-miR-940	HIF1A
SNAI2	hsa-miR-7113-5p	STAT3
SNAI2	hsa-miR-106b-3p	HIF1A
SNAI2	hsa-miR-618	STAT3
SNAI2	hsa-miR-4487	HIF1A
SNAI2	hsa-miR-6872-3p	STAT3
SNAI2	hsa-miR-6875-3p	STAT3
SNAI2	hsa-miR-1234-3p	STAT3
SNAI2	hsa-miR-106b-5p	STAT3
SNAI2	hsa-miR-106b-5p	HIF1A
SOX2	hsa-miR-9-5p	NFKB1
SOX2	hsa-miR-3165	TP53
SOX2	hsa-miR-4720-3p	STAT3
SOX2	hsa-miR-7113-5p	STAT3
SOX2	hsa-miR-210-3p	NFKB1
SOX2	hsa-miR-210-3p	HIF1A
SOX2	hsa-miR-153-5p	HIF1A
SOX2	hsa-miR-5094	HIF1A
SOX2	hsa-miR-6755-5p	HIF1A
SOX2	hsa-miR-519c-3p	HIF1A
SOX2	hsa-miR-16-5p	NFKB1
SOX2	hsa-miR-16-5p	TP53
SOX2	hsa-miR-16-5p	SMAD3
SOX2	hsa-miR-15b-5p	SMAD3
SOX2	hsa-miR-513b-3p	TP53
SOX2	hsa-miR-6760-5p	TP53
SOX2	hsa-miR-4470	HIF1A
SOX2	hsa-miR-146a-5p	NFKB1
SOX2	hsa-miR-484	IL2
SOX2	hsa-miR-3128	HIF1A
SOX2	hsa-miR-4531	TP53
SOX2	hsa-miR-5702	TP53
SOX2	hsa-miR-874-3p	STAT3
SOX2	hsa-miR-3160-3p	HIF1A
SOX2	hsa-let-7a-5p	NFKB1

SOX2	hsa-miR-181a-5p	STAT3
SOX2	hsa-miR-4684-5p	STAT3
SOX2	hsa-miR-6789-3p	STAT3
SOX2	hsa-miR-1322	HIF1A
SOX2	hsa-miR-4487	HIF1A
SOX2	hsa-miR-6875-3p	STAT3
SOX2	hsa-miR-124-3p	STAT3
SOX2	hsa-miR-1234-3p	STAT3
SOX2	hsa-miR-7158-5p	STAT3
SP1	hsa-miR-203a-3p	TNF
SP1	hsa-miR-210-3p	NFKB1
SP1	hsa-miR-210-3p	HIF1A
SP1	hsa-miR-130b-3p	STAT3
SP1	hsa-miR-149-3p	TP53
SP1	hsa-miR-4470	HIF1A
SP1	hsa-miR-26b-5p	NFKB1
SP1	hsa-miR-26b-5p	PTGS2
SP1	hsa-miR-6845-3p	STAT3
SP1	hsa-miR-6807-3p	HIF1A
SP1	hsa-miR-4487	HIF1A
SP1	hsa-miR-92b-3p	SMAD3
SP1	hsa-miR-199b-5p	HIF1A
SP1	hsa-miR-101-3p	PTGS2
SP1	hsa-miR-18a-3p	SMAD3
SP1	hsa-miR-4799-5p	HIF1A
SP1	hsa-miR-365a-5p	STAT3
SP1	hsa-miR-6511a-5p	HIF1A
SP1	hsa-miR-93-5p	TGFB1
SP1	hsa-miR-93-5p	STAT3
SP1	hsa-miR-93-5p	HIF1A
SP1	hsa-miR-5702	TP53
SP1	hsa-miR-137	PTGS2
SP1	hsa-miR-8071	TP53
SP1	hsa-miR-6893-5p	HIF1A
SP1	hsa-miR-663a	TGFB1
SP1	hsa-miR-589-5p	PTGS2

SP1	hsa-miR-940	HIF1A
SP1	hsa-miR-6789-3p	STAT3
SP1	hsa-miR-6872-3p	STAT3
SP1	hsa-miR-6875-3p	STAT3
SP1	hsa-miR-200a-3p	TP53
SP1	hsa-miR-200a-3p	SMAD3
SP1	hsa-miR-320a	PTGS2
SP1	hsa-miR-18a-5p	TP53
SP1	hsa-miR-18a-5p	HIF1A
SP1	hsa-miR-18a-5p	SMAD3
SP1	hsa-miR-9-5p	NFKB1
SP1	hsa-miR-625-3p	HIF1A
SP1	hsa-miR-1908-5p	PTGS2
SP1	hsa-miR-5193	TP53
SP1	hsa-miR-6809-3p	STAT3
SP1	hsa-miR-6808-5p	HIF1A
SP1	hsa-miR-935	HIF1A
SP1	hsa-miR-19a-3p	TNF
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SP1	hsa-miR-2682-5p	HIF1A
SP1	hsa-miR-4531	TP53
SP1	hsa-miR-132-3p	PTGS2
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SP1	hsa-miR-17-5p	HIF1A
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SP1	hsa-miR-100-5p	PTGS2
SP1	hsa-let-7e-5p	STAT3
SP1	hsa-miR-6760-5p	TP53
SP1	hsa-miR-193b-3p	SMAD3
SP1	hsa-miR-3165	TP53
SP1	hsa-miR-24-3p	TGFB1
SP1	hsa-miR-4516	STAT3

SP1	hsa-miR-4516	TP53
SP1	hsa-miR-449c-5p	HIF1A
SP1	hsa-miR-6807-5p	STAT3
SP1	hsa-miR-1233-5p	TP53
SP1	hsa-miR-20a-5p	TP53
SP1	hsa-miR-20a-5p	HIF1A
SP2	hsa-miR-210-3p	HIF1A
SP4	hsa-miR-6872-3p	STAT3
SP4	hsa-miR-124-3p	STAT3
SPDEF	hsa-miR-3934-5p	PTGS2
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SPDEF	hsa-miR-125a-5p	TP53
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SPDEF	hsa-miR-7113-5p	STAT3
SPDEF	hsa-miR-124-3p	PTGS2
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SPDEF	hsa-miR-922	STAT3
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SPDEF	hsa-miR-299-5p	HIF1A
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SPI1	hsa-miR-4778-3p	STAT3
SPI1	hsa-miR-2682-5p	HIF1A

SPI1	hsa-miR-4282	HIF1A
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SPI1	hsa-miR-143-3p	TNF
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SPI1	hsa-miR-214-3p	TP53
SPI1	hsa-miR-15b-5p	SMAD3
SPI1	hsa-miR-150-5p	TP53
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SPI1	hsa-miR-6760-5p	TP53
SPI1	hsa-miR-7-5p	TLR4
SPI1	hsa-miR-4470	HIF1A
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SPI1	hsa-miR-16-5p	PTGS2
SPI1	hsa-miR-16-5p	TP53
SPI1	hsa-miR-16-5p	NFKB1
SPI1	hsa-miR-16-5p	SMAD3
SPI1	hsa-miR-1296-3p	TP53
SPI1	hsa-miR-4738-3p	TLR4
SPI1	hsa-miR-4659a-3p	TLR4
SPI1	hsa-miR-4531	TP53
SPI1	hsa-miR-5702	TP53
SPI1	hsa-miR-223-3p	TP53
SPI1	hsa-miR-4698	TLR4
SPI1	hsa-miR-6815-3p	HIF1A
SPI1	hsa-miR-137	PTGS2
SPI1	hsa-miR-3160-3p	HIF1A
SPI1	hsa-miR-145-5p	SMAD3
SPI1	hsa-miR-138-2-3p	STAT3
SPI1	hsa-miR-5193	TP53
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SPI1	hsa-miR-146a-5p	TLR4
SPI1	hsa-miR-146a-5p	NFKB1

SPI1	hsa-miR-1-3p	TLR4
SPI1	hsa-miR-589-5p	PTGS2
SPI1	hsa-miR-128-3p	PTGS2
SPI1	hsa-let-7i-5p	TLR4
SPI1	hsa-miR-320a	PTGS2
SPI1	hsa-miR-618	STAT3
SPI1	hsa-miR-4487	HIF1A
SPI1	hsa-miR-4659b-3p	TLR4
SPI1	hsa-miR-124-3p	PTGS2
SPI1	hsa-miR-124-3p	STAT3
SPI1	hsa-miR-138-5p	HIF1A
SPI1	hsa-miR-3662	HIF1A
SPI1	hsa-miR-1181	STAT3
SPI1	hsa-miR-101-3p	PTGS2
SPI1	hsa-miR-4748	HIF1A
SPIB	hsa-miR-19b-3p	TP53
SPIB	hsa-let-7a-5p	NFKB1
SPIB	hsa-miR-92a-1-5p	TP53
SPIB	hsa-miR-4698	TLR4
SPIB	hsa-miR-92a-3p	NFKB1
SPIB	hsa-miR-4725-3p	TP53
SREBF1	hsa-miR-210-3p	HIF1A
SREBF1	hsa-miR-1908-5p	PTGS2
SRF	hsa-miR-132-3p	PTGS2
SRF	hsa-miR-24-3p	TGFB1
SRF	hsa-miR-210-3p	NFKB1
SRF	hsa-miR-210-3p	HIF1A
SRF	hsa-miR-4650-5p	TP53
SRF	hsa-miR-153-5p	HIF1A
SRF	hsa-let-7a-5p	IL6
SRF	hsa-let-7a-5p	PTGS2
SRF	hsa-let-7a-5p	NFKB1
SRF	hsa-miR-365a-5p	STAT3
SRF	hsa-miR-7110-3p	STAT3
SRF	hsa-let-7b-5p	PTGS2
SRF	hsa-let-7b-5p	HIF1A

SRF	hsa-miR-6809-3p	STAT3
SRF	hsa-miR-6808-5p	HIF1A
SRF	hsa-miR-143-3p	PTGS2
SRF	hsa-miR-143-3p	TNF
SRF	hsa-miR-143-3p	SMAD3
SRF	hsa-miR-203a-3p	IL6
SRF	hsa-miR-203a-3p	TNF
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SRF	hsa-miR-6760-5p	TP53
SRF	hsa-miR-193b-3p	SMAD3
SRF	hsa-miR-4470	HIF1A
SRF	hsa-miR-365a-3p	IL6
SRF	hsa-miR-935	HIF1A
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SRF	hsa-miR-6511a-5p	HIF1A
SRF	hsa-miR-6845-3p	STAT3
SRF	hsa-miR-1908-5p	PTGS2
SRF	hsa-miR-6789-3p	STAT3
SRF	hsa-miR-4531	TP53
SRF	hsa-miR-223-3p	IL6
SRF	hsa-miR-223-3p	TP53
SRF	hsa-miR-6815-3p	HIF1A
SRF	hsa-miR-211-5p	TGFB1
SRF	hsa-miR-199a-5p	PTGS2
SRF	hsa-miR-199a-5p	HIF1A
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SRF	hsa-miR-149-5p	IL6
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SRF	hsa-miR-3529-3p	TP53
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SRF	hsa-miR-149-3p	TP53
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SRF	hsa-miR-3662	HIF1A
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SRF	hsa-miR-3121-3p	HIF1A
STAT1	hsa-miR-18a-5p	TP53
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STAT1	hsa-miR-4720-3p	STAT3
STAT1	hsa-miR-210-3p	NFKB1
STAT1	hsa-miR-210-3p	HIF1A
STAT1	hsa-miR-1908-5p	PTGS2
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STAT1	hsa-miR-942-5p	TLR4
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STAT1	hsa-miR-365a-3p	IL6
STAT1	hsa-miR-19a-3p	TNF
STAT1	hsa-miR-19a-3p	TP53
STAT1	hsa-miR-24-3p	TGFB1
STAT1	hsa-miR-4531	TP53
STAT1	hsa-miR-132-3p	PTGS2

STAT1	hsa-miR-1322	HIF1A
STAT1	hsa-miR-21-5p	TGFB1
STAT1	hsa-miR-21-5p	TLR4
STAT1	hsa-miR-21-5p	HIF1A
STAT1	hsa-miR-21-5p	NFKB1
STAT1	hsa-miR-6815-3p	HIF1A
STAT1	hsa-miR-138-5p	HIF1A
STAT1	hsa-miR-449c-5p	HIF1A
STAT1	hsa-miR-5193	TP53
STAT1	hsa-miR-30e-5p	TP53
STAT1	hsa-miR-17-5p	PTGS2
STAT1	hsa-miR-17-5p	TP53
STAT1	hsa-miR-17-5p	HIF1A
STAT1	hsa-miR-17-5p	TGFB1
STAT1	hsa-miR-663a	TGFB1
STAT1	hsa-miR-6872-3p	STAT3
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STAT1	hsa-miR-128-3p	PTGS2
STAT1	hsa-miR-9-5p	NFKB1
STAT1	hsa-miR-4487	HIF1A
STAT1	hsa-miR-124-3p	IL6
STAT1	hsa-miR-124-3p	PTGS2
STAT1	hsa-miR-124-3p	STAT3
STAT1	hsa-miR-4279	TLR4
STAT1	hsa-miR-20a-5p	TP53
STAT1	hsa-miR-20a-5p	HIF1A
STAT1	hsa-miR-1181	STAT3
STAT1	hsa-miR-155-5p	IL6
STAT1	hsa-miR-155-5p	NFKB1
STAT2	hsa-miR-18a-5p	TP53
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STAT2	hsa-miR-150-5p	TP53
STAT2	hsa-miR-20a-5p	TP53
STAT2	hsa-miR-19a-3p	TP53
STAT2	hsa-miR-17-5p	TP53
STAT2	hsa-miR-93-5p	STAT3

STAT3	hsa-miR-558	PTGS2
STAT3	hsa-miR-3934-5p	PTGS2
STAT3	hsa-miR-210-3p	NFKB1
STAT3	hsa-miR-199a-3p	PTGS2
STAT3	hsa-miR-942-5p	TLR4
STAT3	hsa-miR-101-3p	PTGS2
STAT3	hsa-miR-99a-5p	PTGS2
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STAT3	hsa-miR-4738-3p	TLR4
STAT3	hsa-miR-137	PTGS2
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STAT3	hsa-miR-4694-3p	TLR4
STAT3	hsa-miR-1908-5p	PTGS2
STAT3	hsa-miR-16-5p	PTGS2
STAT3	hsa-miR-16-5p	NFKB1
STAT3	hsa-miR-19a-3p	TNF
STAT3	hsa-miR-4742-3p	TLR4
STAT3	hsa-miR-142-3p	IL6
STAT3	hsa-miR-132-3p	PTGS2
STAT3	hsa-let-7a-5p	IL6
STAT3	hsa-let-7a-5p	PTGS2
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STAT3	hsa-miR-4279	TLR4
STAT3	hsa-miR-9-5p	NFKB1
STAT3	hsa-miR-4698	TLR4
STAT3	hsa-miR-130a-3p	TNF
STAT3	hsa-miR-199a-5p	PTGS2
STAT3	hsa-miR-199a-5p	NFKB1
STAT3	hsa-miR-128-3p	PTGS2
STAT3	hsa-miR-107	IL6
STAT4	hsa-miR-210-3p	NFKB1
STAT5A	hsa-miR-18a-5p	TP53
STAT5A	hsa-miR-18a-5p	HIF1A
STAT5A	hsa-miR-9-5p	NFKB1
STAT5A	hsa-miR-130b-3p	STAT3
STAT5A	hsa-miR-146a-5p	NFKB1

STAT5A	hsa-miR-19a-3p	TNF
STAT5A	hsa-miR-19a-3p	TP53
STAT5A	hsa-miR-92a-3p	NFKB1
STAT5A	hsa-miR-19b-3p	TGFB1
STAT5A	hsa-miR-19b-3p	TP53
STAT5A	hsa-miR-17-5p	TGFB1
STAT5A	hsa-miR-17-5p	TP53
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STAT5A	hsa-miR-6760-5p	TP53
STAT5A	hsa-miR-4487	HIF1A
STAT5A	hsa-miR-20a-5p	TP53
STAT5A	hsa-miR-20a-5p	HIF1A
STAT5A	hsa-miR-4441	STAT3
STAT5A	hsa-miR-92a-1-5p	TP53
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T	hsa-miR-15a-5p	SMAD3
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T	hsa-miR-124-3p	STAT3
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T	hsa-miR-449c-5p	HIF1A
T	hsa-miR-34b-5p	HIF1A
T	hsa-miR-335-5p	SMAD3
T	hsa-miR-4778-3p	STAT3
TAL1	hsa-miR-889-3p	HIF1A
TAL1	hsa-miR-3934-5p	PTGS2
TAL1	hsa-miR-625-3p	HIF1A
TAL1	hsa-let-7a-5p	IL6
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TAL1	hsa-miR-4487	HIF1A
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TAL1	hsa-miR-142-3p	IL6
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TAL1	hsa-miR-5193	TP53
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TAL1	hsa-miR-663a	TGFB1
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TAL1	hsa-miR-101-3p	PTGS2
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TBP	hsa-miR-9-5p	NFKB1
TBP	hsa-miR-149-5p	IL6
TBP	hsa-miR-130b-3p	STAT3
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TBP	hsa-miR-34b-5p	HIF1A
TBP	hsa-miR-143-3p	PTGS2
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TCF12	hsa-miR-365a-3p	IL6
TCF12	hsa-miR-4282	HIF1A
TCF12	hsa-miR-6760-5p	TP53
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TCF12	hsa-miR-203a-3p	TNF
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TCF12	hsa-miR-193b-3p	SMAD3
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TCF12	hsa-miR-3165	TP53
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TCF12	hsa-miR-142-3p	IL6

TCF12	hsa-miR-106b-5p	STAT3
TCF12	hsa-miR-106b-5p	HIF1A
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TCF12	hsa-miR-146b-5p	NFKB1
TCF12	hsa-miR-106b-3p	HIF1A
TCF12	hsa-miR-93-5p	TGFB1
TCF12	hsa-miR-93-5p	STAT3
TCF12	hsa-miR-93-5p	HIF1A
TCF12	hsa-miR-4516	STAT3
TCF12	hsa-miR-4516	TP53
TCF12	hsa-miR-4531	TP53
TCF12	hsa-miR-21-5p	TGFB1
TCF12	hsa-miR-21-5p	HIF1A
TCF12	hsa-miR-21-5p	NFKB1
TCF12	hsa-miR-1908-5p	PTGS2
TCF12	hsa-miR-137	PTGS2
TCF12	hsa-miR-320a	PTGS2
TCF12	hsa-miR-149-5p	IL6
TCF12	hsa-miR-3074-3p	HIF1A
TCF12	hsa-let-7a-5p	IL6
TCF12	hsa-let-7a-5p	PTGS2
TCF12	hsa-let-7a-5p	NFKB1
TCF12	hsa-miR-449c-5p	HIF1A
TCF12	hsa-miR-138-5p	HIF1A
TCF12	hsa-miR-324-3p	TGFB1
TCF12	hsa-miR-663a	TGFB1
TCF12	hsa-miR-6872-3p	STAT3
TCF12	hsa-miR-149-3p	TP53
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TCF12	hsa-miR-605-5p	TP53
TCF12	hsa-miR-6875-3p	STAT3
TCF12	hsa-miR-9-5p	NFKB1
TCF12	hsa-miR-128-3p	PTGS2
TCF12	hsa-miR-92b-3p	SMAD3
TCF12	hsa-miR-130b-3p	STAT3
TCF12	hsa-miR-124-3p	IL6

TCF12	hsa-miR-124-3p	PTGS2
TCF12	hsa-miR-124-3p	STAT3
TCF12	hsa-miR-3668	HIF1A
TCF12	hsa-miR-1181	STAT3
TCF12	hsa-miR-365a-5p	STAT3
TCF21	hsa-miR-22-3p	HIF1A
TCF21	hsa-miR-199b-5p	HIF1A
TCF21	hsa-miR-155-5p	NFKB1
TCF21	hsa-miR-100-5p	PTGS2
TCF3	hsa-miR-365a-5p	STAT3
TCF3	hsa-miR-5692a	HIF1A
TCF3	hsa-miR-6511a-5p	HIF1A
TCF3	hsa-miR-4418	HIF1A
TCF3	hsa-miR-4516	STAT3
TCF3	hsa-miR-4516	TP53
TCF3	hsa-miR-4531	TP53
TCF3	hsa-miR-21-5p	TGFB1
TCF3	hsa-miR-21-5p	HIF1A
TCF3	hsa-miR-21-5p	NFKB1
TCF3	hsa-miR-6815-3p	HIF1A
TCF3	hsa-miR-6789-3p	STAT3
TCF3	hsa-miR-4487	HIF1A
TCF3	hsa-miR-6875-3p	STAT3
TCF3	hsa-miR-3662	HIF1A
TCF3	hsa-miR-1181	STAT3
TCF3	hsa-miR-155-5p	NFKB1
TCF3	hsa-miR-107	HIF1A
TCF4	hsa-miR-4799-5p	HIF1A
TCF4	hsa-miR-6809-3p	STAT3
TCF4	hsa-miR-22-3p	HIF1A
TCF4	hsa-miR-3165	TP53
TCF4	hsa-miR-24-3p	TGFB1
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TCF4	hsa-miR-3074-3p	HIF1A
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TCF4	hsa-miR-6760-5p	TP53

TCF4	hsa-miR-124-3p	STAT3
TCF4	hsa-miR-199b-5p	HIF1A
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TCF7L2	hsa-miR-210-3p	NFKB1
TCF7L2	hsa-miR-210-3p	HIF1A
TCF7L2	hsa-miR-4799-5p	HIF1A
TCF7L2	hsa-miR-1908-5p	PTGS2
TCF7L2	hsa-let-7a-5p	PTGS2
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TCF7L2	hsa-miR-3165	TP53
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TCF7L2	hsa-miR-9-5p	NFKB1
TCF7L2	hsa-miR-145-5p	SMAD3
TCF7L2	hsa-miR-663a	TGFB1
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TCF7L2	hsa-miR-128-3p	PTGS2
TCF7L2	hsa-miR-92b-3p	SMAD3
TCF7L2	hsa-miR-365a-5p	STAT3
TCF7L2	hsa-miR-320a	PTGS2
TEAD2	hsa-miR-935	HIF1A
TEAD2	hsa-let-7a-5p	PTGS2
TEAD4	hsa-miR-1178-3p	STAT3
TEAD4	hsa-miR-26a-5p	IL6
TEAD4	hsa-miR-203a-3p	IL6
TEAD4	hsa-miR-199a-3p	PTGS2
TEAD4	hsa-miR-1972	TP53
TEAD4	hsa-miR-130b-3p	STAT3
TEAD4	hsa-miR-149-3p	TP53
TEAD4	hsa-miR-22-3p	HIF1A
TEAD4	hsa-miR-4470	HIF1A
TEAD4	hsa-miR-4768-5p	STAT3

TEAD4	hsa-miR-146b-5p	NFKB1
TEAD4	hsa-miR-92a-3p	NFKB1
TEAD4	hsa-miR-874-3p	STAT3
TEAD4	hsa-miR-3160-3p	HIF1A
TEAD4	hsa-miR-7151-3p	STAT3
TEAD4	hsa-miR-5681a	STAT3
TEAD4	hsa-miR-5681b	HIF1A
TEAD4	hsa-miR-4487	HIF1A
TEAD4	hsa-miR-6755-5p	HIF1A
TEAD4	hsa-miR-92b-3p	SMAD3
TEAD4	hsa-miR-4662a-5p	HIF1A
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TEAD4	hsa-miR-744-5p	TGFB1
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TEAD4	hsa-miR-365a-5p	STAT3
TEAD4	hsa-miR-18a-3p	SMAD3
TEAD4	hsa-miR-922	STAT3
TEAD4	hsa-miR-10b-5p	TP53
TEAD4	hsa-miR-139-5p	NFKB1
TEAD4	hsa-miR-4282	HIF1A
TEAD4	hsa-miR-4286	TP53
TEAD4	hsa-miR-4778-3p	STAT3
TEAD4	hsa-miR-6133	TP53
TEAD4	hsa-miR-199a-5p	PTGS2
TEAD4	hsa-miR-199a-5p	HIF1A
TEAD4	hsa-miR-199a-5p	NFKB1
TEAD4	hsa-miR-92a-2-5p	TP53
TEAD4	hsa-miR-3128	HIF1A
TEAD4	hsa-miR-329-5p	HIF1A
TEAD4	hsa-miR-137	PTGS2
TEAD4	hsa-miR-652-3p	PTGS2
TEAD4	hsa-miR-6893-5p	HIF1A

TEAD4	hsa-miR-663a	TGFB1
TEAD4	hsa-miR-6760-5p	TP53
TEAD4	hsa-miR-589-5p	PTGS2
TEAD4	hsa-miR-605-5p	TP53
TEAD4	hsa-miR-6789-3p	STAT3
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TEAD4	hsa-miR-6875-3p	STAT3
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TEAD4	hsa-miR-335-5p	IL6
TEAD4	hsa-miR-335-5p	PTGS2
TEAD4	hsa-miR-335-5p	IL17A
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TEAD4	hsa-miR-18a-5p	TP53
TEAD4	hsa-miR-18a-5p	HIF1A
TEAD4	hsa-miR-18a-5p	SMAD3
TEAD4	hsa-miR-9-5p	NFKB1
TEAD4	hsa-miR-371b-3p	STAT3
TEAD4	hsa-miR-1908-5p	PTGS2
TEAD4	hsa-miR-5193	TP53
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TEAD4	hsa-miR-146a-5p	PTGS2
TEAD4	hsa-miR-146a-5p	NFKB1
TEAD4	hsa-miR-513b-3p	TP53
TEAD4	hsa-miR-365a-3p	IL6
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TEAD4	hsa-miR-2682-5p	HIF1A
TEAD4	hsa-miR-142-3p	IL6
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TEAD4	hsa-miR-3529-3p	TP53
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TEAD4	hsa-miR-17-5p	HIF1A
TEAD4	hsa-miR-17-5p	SMAD3
TEAD4	hsa-miR-17-5p	TP53
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TEAD4	hsa-miR-4270	STAT3
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TEAD4	hsa-miR-4531	TP53
TEAD4	hsa-miR-155-5p	IL6
TEAD4	hsa-miR-155-5p	NFKB1
TEAD4	hsa-miR-155-5p	SMAD3
TEAD4	hsa-miR-424-5p	HIF1A
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TEAD4	hsa-miR-519d-3p	HIF1A
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TEAD4	hsa-miR-4441	STAT3
TEAD4	hsa-miR-107	IL6
TEAD4	hsa-miR-107	HIF1A
TEAD4	hsa-miR-4725-3p	TP53
TFAP2A	hsa-miR-21-5p	TGFB1
TFAP2A	hsa-miR-21-5p	NFKB1
TFAP2A	hsa-miR-24-3p	TGFB1
TFAP2A	hsa-miR-1908-5p	PTGS2
TFAP2C	hsa-miR-365a-5p	STAT3
TFAP2C	hsa-miR-24-3p	TGFB1
TFAP2C	hsa-miR-4470	HIF1A
TFAP2C	hsa-miR-211-5p	TGFB1
TFAP2C	hsa-miR-324-3p	TGFB1
TFAP2C	hsa-miR-124-3p	PTGS2
TFAP2C	hsa-miR-124-3p	STAT3
TP53	hsa-miR-124-3p	PTGS2
TP53	hsa-miR-124-3p	STAT3
TP53	hsa-miR-124-3p	IL6
TP53	hsa-miR-3934-5p	PTGS2
TP53	hsa-miR-203a-3p	IL6
TP53	hsa-miR-210-3p	NFKB1
TP53	hsa-miR-143-3p	PTGS2
TP53	hsa-miR-143-3p	SMAD3
TP53	hsa-miR-26b-5p	NFKB1
TP53	hsa-miR-26b-5p	PTGS2
TP53	hsa-miR-199a-3p	PTGS2
TP53	hsa-miR-1908-5p	PTGS2
TP53	hsa-miR-144-3p	TGFB1
TP53	hsa-miR-101-3p	PTGS2
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TP53	hsa-miR-26a-5p	IL6
TP53	hsa-miR-324-3p	TGFB1
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TP53	hsa-miR-137	PTGS2
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TP53	hsa-miR-633	TGFB1
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TP53	hsa-let-7a-5p	IL6
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TP53	hsa-miR-21-5p	NFKB1
TP53	hsa-miR-199a-5p	PTGS2
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TP63	hsa-let-7a-5p	PTGS2
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TP63	hsa-miR-26b-5p	PTGS2
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TP63	hsa-miR-454-3p	TP53

TP63	hsa-miR-6511a-5p	HIF1A
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TP63	hsa-miR-6789-3p	STAT3
TP63	hsa-miR-187-3p	TNF
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TP63	hsa-miR-199a-3p	PTGS2
TP63	hsa-miR-1908-5p	PTGS2
TP63	hsa-miR-155-5p	NFKB1
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TP63	hsa-miR-199a-5p	NFKB1
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TP63	hsa-miR-6871-3p	STAT3
TP63	hsa-miR-138-2-3p	STAT3
TP63	hsa-miR-589-5p	PTGS2
TP63	hsa-miR-6875-3p	STAT3
TP63	hsa-miR-1322	HIF1A
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TP63	hsa-miR-200a-3p	TP53
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TP63	hsa-miR-1181	STAT3
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TP63	hsa-miR-4470	HIF1A
TP63	hsa-miR-34b-5p	HIF1A
TP63	hsa-miR-130a-3p	TNF
TP63	hsa-miR-3609	HIF1A

TP73	hsa-miR-18a-5p	TP53
TP73	hsa-miR-18a-5p	HIF1A
TP73	hsa-miR-18a-5p	SMAD3
TP73	hsa-miR-20a-5p	TP53
TP73	hsa-miR-20a-5p	HIF1A
TP73	hsa-miR-4463	HIF1A
TP73	hsa-miR-19b-3p	TGFB1
TP73	hsa-miR-19b-3p	TP53
TP73	hsa-miR-92a-1-5p	TP53
TP73	hsa-miR-18a-3p	SMAD3
TP73	hsa-miR-19a-3p	TP53
TP73	hsa-miR-181a-5p	PTGS2
TP73	hsa-miR-181a-5p	STAT3
TP73	hsa-miR-5702	TP53
UBTF	hsa-miR-132-3p	PTGS2
UBTF	hsa-miR-139-5p	NFKB1
UBTF	hsa-miR-3934-5p	PTGS2
UBTF	hsa-miR-9-5p	NFKB1
UBTF	hsa-miR-146b-5p	NFKB1
UBTF	hsa-miR-146b-5p	TLR4
UBTF	hsa-miR-149-5p	IL6
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UBTF	hsa-miR-4659a-3p	TLR4
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UBTF	hsa-miR-618	STAT3
UBTF	hsa-miR-4270	STAT3
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UBTF	hsa-miR-200a-3p	TP53
UBTF	hsa-miR-200a-3p	SMAD3
UBTF	hsa-miR-124-3p	IL6
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UBTF	hsa-miR-6872-3p	STAT3
UBTF	hsa-miR-320a	PTGS2
UBTF	hsa-miR-199b-5p	HIF1A
USF1	hsa-miR-132-3p	PTGS2
USF1	hsa-miR-210-3p	HIF1A
USF1	hsa-let-7a-5p	PTGS2
USF1	hsa-miR-5003-5p	TP53
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USF1	hsa-miR-6511a-5p	HIF1A
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USF1	hsa-miR-1908-5p	PTGS2
USF1	hsa-miR-6789-3p	STAT3
USF1	hsa-miR-4516	STAT3
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USF1	hsa-miR-4531	TP53
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USF1	hsa-miR-137	PTGS2
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USF1	hsa-miR-6875-3p	STAT3
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USF1	hsa-miR-1181	STAT3
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USF2	hsa-miR-18a-5p	TP53
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USF2	hsa-miR-3934-5p	PTGS2
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USF2	hsa-miR-942-5p	TLR4
USF2	hsa-miR-6809-3p	STAT3
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USF2	hsa-miR-130a-3p	TNF
USF2	hsa-miR-20a-5p	TP53
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USF2	hsa-miR-17-5p	PTGS2
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USF2	hsa-miR-17-5p	SMAD3
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USF2	hsa-miR-24-3p	TGFB1
USF2	hsa-miR-4306	TP53
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USF2	hsa-miR-5692a	HIF1A
USF2	hsa-miR-4470	HIF1A
USF2	hsa-miR-324-3p	TGFB1
USF2	hsa-miR-935	HIF1A
USF2	hsa-miR-19a-3p	TNF
USF2	hsa-miR-19a-3p	TP53
USF2	hsa-miR-3128	HIF1A
USF2	hsa-miR-92a-3p	NFKB1
USF2	hsa-miR-93-5p	TGFB1
USF2	hsa-miR-93-5p	STAT3
USF2	hsa-miR-93-5p	HIF1A
USF2	hsa-let-7a-5p	PTGS2
USF2	hsa-let-7a-5p	NFKB1
USF2	hsa-miR-1322	HIF1A
USF2	hsa-miR-1908-5p	PTGS2
USF2	hsa-miR-106b-3p	HIF1A
USF2	hsa-miR-145-5p	SMAD3
USF2	hsa-miR-449c-5p	HIF1A
USF2	hsa-miR-5193	TP53
USF2	hsa-miR-6871-3p	STAT3
USF2	hsa-miR-19b-3p	TGFB1
USF2	hsa-miR-19b-3p	TP53
USF2	hsa-miR-589-5p	PTGS2
USF2	hsa-miR-144-3p	TGFB1
USF2	hsa-let-7b-5p	PTGS2
USF2	hsa-let-7b-5p	TLR4
USF2	hsa-let-7b-5p	HIF1A
USF2	hsa-miR-22-3p	HIF1A
USF2	hsa-let-7i-5p	TLR4
USF2	hsa-miR-618	STAT3

USF2	hsa-miR-4659a-3p	TLR4
USF2	hsa-miR-4659b-3p	TLR4
USF2	hsa-miR-106b-5p	STAT3
USF2	hsa-miR-106b-5p	HIF1A
USF2	hsa-miR-146b-5p	NFKB1
USF2	hsa-miR-146b-5p	TLR4
USF2	hsa-miR-92a-1-5p	TP53
USF2	hsa-miR-18a-3p	SMAD3
VDR	hsa-miR-150-5p	TP53
VDR	hsa-miR-663a	TGFB1
VDR	hsa-miR-21-5p	TGFB1
VDR	hsa-miR-21-5p	HIF1A
VDR	hsa-miR-211-5p	TGFB1
VDR	hsa-miR-1910-3p	HIF1A
VDR	hsa-miR-30d-5p	TP53
VDR	hsa-let-7b-5p	HIF1A
VDR	hsa-miR-6789-3p	STAT3
VDR	hsa-miR-6872-3p	STAT3
VDR	hsa-miR-3662	HIF1A
VEZF1	hsa-miR-18a-5p	TP53
VEZF1	hsa-miR-18a-5p	SMAD3
VEZF1	hsa-miR-19a-3p	TP53
VEZF1	hsa-miR-19b-3p	TP53
VEZF1	hsa-miR-17-5p	PTGS2
VEZF1	hsa-miR-17-5p	TP53
VEZF1	hsa-miR-17-5p	SMAD3
VEZF1	hsa-miR-6789-3p	STAT3
VEZF1	hsa-miR-92b-3p	SMAD3
VEZF1	hsa-miR-1181	STAT3
VEZF1	hsa-miR-92a-1-5p	TP53
VEZF1	hsa-miR-18a-3p	SMAD3
WHSC1	hsa-miR-625-3p	HIF1A
WHSC1	hsa-let-7a-5p	NFKB1
WHSC1	hsa-miR-151a-3p	HIF1A
WHSC1	hsa-miR-877-3p	STAT3
WHSC1	hsa-miR-622	TP53

WHSC1	hsa-miR-3128	HIF1A
WHSC1	hsa-miR-30b-5p	TP53
WHSC1	hsa-miR-3074-3p	HIF1A
WHSC1	hsa-miR-449c-5p	HIF1A
WHSC1	hsa-miR-4748	HIF1A
WHSC1	hsa-miR-146b-5p	NFKB1
WHSC1	hsa-miR-940	HIF1A
WHSC1	hsa-miR-6807-3p	HIF1A
WHSC1	hsa-miR-4487	HIF1A
WHSC1	hsa-miR-6807-5p	STAT3
WHSC1	hsa-miR-922	STAT3
XBP1	hsa-miR-199a-5p	HIF1A
XBP1	hsa-miR-4470	HIF1A
XBP1	hsa-miR-3165	TP53
XBP1	hsa-miR-6845-3p	STAT3
YY1	hsa-miR-3934-5p	PTGS2
YY1	hsa-miR-203a-3p	IL6
YY1	hsa-miR-203a-3p	TNF
YY1	hsa-miR-210-3p	NFKB1
YY1	hsa-miR-210-3p	HIF1A
YY1	hsa-miR-4684-5p	STAT3
YY1	hsa-miR-143-3p	PTGS2
YY1	hsa-miR-143-3p	TNF
YY1	hsa-miR-143-3p	SMAD3
YY1	hsa-miR-149-3p	TP53
YY1	hsa-miR-4306	TP53
YY1	hsa-miR-6722-3p	TP53
YY1	hsa-miR-4470	HIF1A
YY1	hsa-miR-26b-5p	NFKB1
YY1	hsa-miR-26b-5p	PTGS2
YY1	hsa-miR-146b-5p	NFKB1
YY1	hsa-miR-199a-3p	PTGS2
YY1	hsa-miR-5681a	STAT3
YY1	hsa-miR-144-3p	TGFB1
YY1	hsa-miR-5681b	HIF1A
YY1	hsa-miR-4487	HIF1A

YY1	hsa-miR-7113-5p	STAT3
YY1	hsa-miR-124-3p	IL6
YY1	hsa-miR-124-3p	PTGS2
YY1	hsa-miR-124-3p	STAT3
YY1	hsa-miR-106b-5p	STAT3
YY1	hsa-miR-106b-5p	HIF1A
YY1	hsa-miR-1234-3p	STAT3
YY1	hsa-miR-138-5p	HIF1A
YY1	hsa-miR-199b-5p	HIF1A
YY1	hsa-miR-101-3p	PTGS2
YY1	hsa-miR-889-3p	HIF1A
YY1	hsa-miR-153-5p	HIF1A
YY1	hsa-miR-365a-5p	STAT3
YY1	hsa-miR-6754-5p	STAT3
YY1	hsa-miR-4286	TP53
YY1	hsa-miR-33a-5p	HIF1A
YY1	hsa-miR-1181	STAT3
YY1	hsa-miR-24-3p	TGFB1
YY1	hsa-miR-155-5p	IL6
YY1	hsa-miR-155-5p	NFKB1
YY1	hsa-miR-155-5p	SMAD3
YY1	hsa-miR-26a-5p	IL6
YY1	hsa-miR-622	TP53
YY1	hsa-miR-4418	HIF1A
YY1	hsa-miR-324-3p	TGFB1
YY1	hsa-miR-5702	TP53
YY1	hsa-miR-137	PTGS2
YY1	hsa-miR-4290	SMAD3
YY1	hsa-miR-6893-5p	HIF1A
YY1	hsa-miR-663a	TGFB1
YY1	hsa-miR-6760-5p	TP53
YY1	hsa-miR-589-5p	PTGS2
YY1	hsa-miR-6789-3p	STAT3
YY1	hsa-miR-1322	HIF1A
YY1	hsa-miR-145-5p	SMAD3
YY1	hsa-miR-6872-3p	STAT3

YY1	hsa-miR-6875-3p	STAT3
YY1	hsa-miR-200a-3p	TP53
YY1	hsa-miR-200a-3p	SMAD3
YY1	hsa-miR-329-5p	HIF1A
YY1	hsa-miR-34b-5p	HIF1A
YY1	hsa-miR-320a	PTGS2
YY1	hsa-miR-132-3p	PTGS2
YY1	hsa-miR-9-5p	NFKB1
YY1	hsa-miR-371b-3p	STAT3
YY1	hsa-miR-1908-5p	PTGS2
YY1	hsa-miR-5193	TP53
YY1	hsa-miR-7110-3p	STAT3
YY1	hsa-miR-6808-5p	HIF1A
YY1	hsa-miR-6806-5p	HIF1A
YY1	hsa-miR-365a-3p	IL6
YY1	hsa-miR-935	HIF1A
YY1	hsa-miR-2682-5p	HIF1A
YY1	hsa-miR-142-3p	IL6
YY1	hsa-miR-4531	TP53
YY1	hsa-miR-6815-3p	HIF1A
YY1	hsa-miR-3074-3p	HIF1A
YY1	hsa-miR-22-3p	HIF1A
YY1	hsa-miR-4682	TP53
YY1	hsa-let-7a-5p	IL6
YY1	hsa-let-7a-5p	PTGS2
YY1	hsa-let-7a-5p	NFKB1
YY1	hsa-miR-618	STAT3
YY1	hsa-miR-608	TP53
YY1	hsa-miR-424-5p	HIF1A
YY1	hsa-miR-149-5p	IL6
YY1	hsa-miR-6842-5p	TP53
YY1	hsa-miR-195-5p	SMAD3
YY1	hsa-miR-92b-3p	SMAD3
YY1	hsa-miR-3165	TP53
YY1	hsa-miR-21-5p	TGFB1
YY1	hsa-miR-21-5p	HIF1A

YY1	hsa-miR-21-5p	NFKB1
YY1	hsa-miR-211-5p	TGFB1
YY1	hsa-miR-199a-5p	PTGS2
YY1	hsa-miR-199a-5p	HIF1A
YY1	hsa-miR-199a-5p	NFKB1
YY1	hsa-miR-1910-3p	HIF1A
YY1	hsa-miR-449c-5p	HIF1A
YY1	hsa-miR-4748	HIF1A
YY1	hsa-miR-106b-3p	HIF1A
YY1	hsa-miR-299-5p	HIF1A
ZBTB7A	hsa-miR-9-5p	NFKB1
ZBTB7A	hsa-miR-210-3p	NFKB1
ZBTB7A	hsa-miR-210-3p	HIF1A
ZBTB7A	hsa-let-7a-5p	NFKB1
ZBTB7A	hsa-miR-6809-3p	STAT3
ZBTB7A	hsa-miR-143-3p	SMAD3
ZBTB7A	hsa-miR-195-5p	SMAD3
ZBTB7A	hsa-miR-193b-3p	SMAD3
ZBTB7A	hsa-miR-4470	HIF1A
ZBTB7A	hsa-miR-146b-5p	NFKB1
ZBTB7A	hsa-miR-145-5p	SMAD3
ZBTB7A	hsa-miR-449c-5p	HIF1A
ZBTB7A	hsa-miR-663a	TGFB1
ZBTB7A	hsa-miR-4487	HIF1A
ZBTB7A	hsa-miR-6872-3p	STAT3
ZBTB7A	hsa-miR-92b-3p	SMAD3
ZBTB7A	hsa-miR-200a-3p	SMAD3
ZBTB7A	hsa-miR-1234-3p	STAT3
ZBTB7A	hsa-miR-34b-5p	HIF1A
ZBTB7A	hsa-miR-199b-5p	HIF1A
ZBTB7A	hsa-miR-138-5p	HIF1A
ZBTB7A	hsa-let-7e-5p	STAT3
ZEB1	hsa-miR-5193	TP53
ZEB1	hsa-miR-139-5p	NFKB1
ZEB1	hsa-miR-6872-3p	STAT3
ZEB1	hsa-miR-320a	PTGS2

ZEB1	hsa-miR-589-5p	PTGS2
ZEB1	hsa-miR-4531	TP53
ZFP42	hsa-miR-4271	TP53
ZFP42	hsa-miR-1234-3p	STAT3
ZFX	hsa-miR-199a-5p	NFKB1
ZFX	hsa-miR-199a-5p	HIF1A
ZKSCAN1	hsa-miR-132-3p	PTGS2
ZKSCAN1	hsa-miR-22-3p	HIF1A
ZKSCAN1	hsa-miR-1908-5p	PTGS2
ZMIZ1	hsa-miR-5193	TP53
ZMIZ1	hsa-miR-424-5p	HIF1A
ZMIZ1	hsa-miR-106b-5p	STAT3
ZMIZ1	hsa-miR-106b-5p	HIF1A
ZMIZ1	hsa-miR-30b-5p	TP53
ZMIZ1	hsa-miR-106b-3p	HIF1A
ZMIZ1	hsa-miR-1181	STAT3
ZNF143	hsa-miR-132-3p	PTGS2
ZNF143	hsa-miR-625-3p	HIF1A
ZNF143	hsa-miR-1908-5p	PTGS2
ZNF143	hsa-miR-7110-3p	STAT3
ZNF143	hsa-miR-6809-3p	STAT3
ZNF143	hsa-miR-143-3p	PTGS2
ZNF143	hsa-miR-143-3p	TNF
ZNF143	hsa-miR-143-3p	SMAD3
ZNF143	hsa-miR-22-3p	HIF1A
ZNF143	hsa-miR-6760-5p	TP53
ZNF143	hsa-miR-193b-3p	SMAD3
ZNF143	hsa-miR-4470	HIF1A
ZNF143	hsa-miR-935	HIF1A
ZNF143	hsa-miR-1322	HIF1A
ZNF143	hsa-miR-4290	SMAD3
ZNF143	hsa-miR-145-5p	SMAD3
ZNF143	hsa-miR-3529-3p	TP53
ZNF143	hsa-miR-3529-3p	SMAD3
ZNF143	hsa-miR-30e-5p	TP53
ZNF143	hsa-miR-324-3p	TGFB1

ZNF143	hsa-let-7a-5p	IL6
ZNF143	hsa-let-7a-5p	PTGS2
ZNF143	hsa-let-7a-5p	NFKB1
ZNF143	hsa-miR-7151-3p	STAT3
ZNF143	hsa-miR-589-5p	PTGS2
ZNF143	hsa-miR-195-5p	SMAD3
ZNF143	hsa-miR-9-5p	NFKB1
ZNF143	hsa-miR-618	STAT3
ZNF143	hsa-miR-128-3p	PTGS2
ZNF143	hsa-miR-3662	HIF1A
ZNF143	hsa-miR-124-3p	IL6
ZNF143	hsa-miR-124-3p	PTGS2
ZNF143	hsa-miR-124-3p	STAT3
ZNF143	hsa-miR-155-5p	IL6
ZNF143	hsa-miR-155-5p	NFKB1
ZNF143	hsa-miR-155-5p	SMAD3
ZNF143	hsa-miR-130a-3p	TGFB1
ZNF143	hsa-miR-130a-3p	TNF
ZNF217	hsa-miR-92b-3p	SMAD3
ZNF217	hsa-miR-155-5p	NFKB1
ZNF217	hsa-miR-155-5p	SMAD3
ZNF250	hsa-miR-1178-3p	STAT3
ZNF263	hsa-miR-18a-5p	TP53
ZNF263	hsa-miR-18a-5p	HIF1A
ZNF263	hsa-miR-18a-5p	SMAD3
ZNF263	hsa-miR-26a-5p	IL6
ZNF263	hsa-miR-3934-5p	PTGS2
ZNF263	hsa-miR-150-5p	TP53
ZNF263	hsa-miR-125a-5p	TP53
ZNF263	hsa-miR-139-5p	NFKB1
ZNF263	hsa-miR-6808-5p	HIF1A
ZNF263	hsa-let-7e-5p	STAT3
ZNF263	hsa-miR-20a-5p	TP53
ZNF263	hsa-miR-20a-5p	HIF1A
ZNF263	hsa-miR-19a-3p	TP53
ZNF263	hsa-miR-6845-3p	STAT3

ZNF263	hsa-miR-142-3p	IL6
ZNF263	hsa-miR-93-5p	TGFB1
ZNF263	hsa-miR-93-5p	STAT3
ZNF263	hsa-miR-93-5p	HIF1A
ZNF263	hsa-miR-17-5p	TGFB1
ZNF263	hsa-miR-17-5p	PTGS2
ZNF263	hsa-miR-17-5p	HIF1A
ZNF263	hsa-miR-17-5p	SMAD3
ZNF263	hsa-miR-17-5p	TP53
ZNF263	hsa-miR-663a	TGFB1
ZNF263	hsa-miR-9-5p	NFKB1
ZNF263	hsa-miR-124-3p	IL6
ZNF263	hsa-miR-124-3p	PTGS2
ZNF263	hsa-miR-124-3p	STAT3
ZNF263	hsa-miR-106b-5p	STAT3
ZNF263	hsa-miR-106b-5p	HIF1A
ZNF263	hsa-miR-106b-3p	HIF1A
ZNF263	hsa-miR-320a	PTGS2
ZNF263	hsa-miR-18a-3p	SMAD3
ZNF263	hsa-miR-26b-5p	NFKB1
ZNF263	hsa-miR-26b-5p	PTGS2
ZNF384	hsa-miR-3165	TP53
ZNF384	hsa-miR-4650-5p	TP53
ZNF384	hsa-miR-4270	STAT3
ZNF384	hsa-miR-5094	HIF1A
ZNF384	hsa-miR-143-3p	TNF
ZNF384	hsa-miR-199b-5p	HIF1A
ZNF384	hsa-miR-22-3p	HIF1A
ZNF384	hsa-miR-4470	HIF1A
ZNF384	hsa-miR-3128	HIF1A
ZNF384	hsa-miR-24-3p	TGFB1
ZNF384	hsa-miR-4531	TP53
ZNF384	hsa-miR-6815-3p	HIF1A
ZNF384	hsa-miR-449c-5p	HIF1A
ZNF384	hsa-miR-30e-5p	TP53
ZNF384	hsa-miR-144-3p	TGFB1

ZNF384	hsa-miR-4487	HIF1A		
ZNF384	hsa-miR-124-3p	STAT3		
ZNF384	hsa-miR-138-5p	HIF1A		
ZNF384	hsa-miR-130a-3p	TGFB1		
ZNF384	hsa-miR-130a-3p	TNF		
ZNF83	hsa-miR-4799-5p	HIF1A		
ZNF83	hsa-miR-6875-3p	STAT3		

Supplemental Table 7: Dysregulated miRNAs in cholangiopathies. This table shows dysregulated miRNAs in cholangiopathies. Dysregulated miRNAs were curated by collecting differentially expressed miRNAs between disease and healthy control samples with validation shown in the same reference. PBMC, peripheral blood mononuclear cell.

Disease	miRNAs	Sample	Level compared to healthy control	Pubmed ID
Biliary Atresia	hsa-miR-21-5p	serum	up	26927196
Biliary Atresia	hsa-miR-200b-3p	liver	up	24412919
Biliary Atresia	hsa-miR-222-3p	liver	up	25238119
Biliary Atresia	hsa-miR-122-5p	plasma	up	26960174
Biliary Atresia	hsa-miR-100-5p	plasma	up	26960174
Biliary Atresia	hsa-miR-140-3p	plasma	down	26960174
Biliary Atresia	hsa-miR-126-3p	plasma	down	26960174
Biliary Atresia	hsa-miR-150-3p	serum	up	26879603
Biliary Atresia	hsa-miR-4689	serum	up	26879603
Biliary Atresia	hsa-miR-92a-3p	serum	up	26879603
Biliary Atresia	hsa-miR-4429	serum	down	26879603
Biliary Atresia	hsa-miR-124-3p	liver	down	25450715
Primary Biliary Cholangitis	hsa-miR-328a-3p	liver	up	19345069
Primary Biliary Cholangitis	hsa-miR-122-5p	liver	down	19345069
Primary Biliary Cholangitis	hsa-miR-26a-5p	liver	down	19345069
Primary Biliary Cholangitis	hsa-miR-155-5p	PBMC	up	23834361
Primary Biliary Cholangitis	hsa-miR-146a-5p	PBMC	up	23834361
Primary Biliary Cholangitis	hsa-miR-506-3p	cholangiocyte in liver	up	22383162
Primary Biliary Cholangitis	hsa-miR-505-3p	serum	down	23776611
Primary Biliary Cholangitis	hsa-miR-197-3p	serum	down	23776611
Primary Biliary Cholangitis	hsa-miR-500-3p	serum	down	23776611
Primary Biliary Cholangitis	hsa-miR-15a-5p	PBMC	up	23173724
Primary Biliary Cholangitis	hsa-miR-20a-5p	PBMC	up	23173724
Primary Biliary Cholangitis	hsa-miR-140-5p	PBMC	up	23173724

Primary Biliary Cholangitis	hsa-miR-106b-5p	PBMC	up	23173724
Primary Biliary Cholangitis	has-miR-3654	PBMC	down	23173724
Primary Biliary Cholangitis	hsa-miR-181a-5p	PBMC	down	23173724
Primary Biliary Cholangitis	hsa-miR-122-5p	serum	up	25347847
Primary Biliary Cholangitis	hsa-miR-34a-5p	serum	up	25347847
Primary Biliary Cholangitis	hsa-miR-141-5p	serum	up	25347847
Primary Biliary Cholangitis	hsa-miR-27b-5p	serum	up	25347847
Primary Biliary Cholangitis	hsa-miR-26b-5p	serum	down	25347847
Primary Biliary Cholangitis	hsa-miR-572	plasma, PBMC	up	27246196
Primary Biliary Cholangitis	hsa-miR-575	plasma, PBMC	up	27246196
Primary Biliary Cholangitis	hsa-miR-92a-3p	plasma, PBMC	down	27246196
Primary Biliary Cholangitis	hsa-miR-4516	plasma, PBMC	down	27246196
Primary Sclerosing Cholangitis	hsa-miR-760	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-122-5p	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-132-3p	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-885-5p	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-193b-3p	serum	up	26864161
Primary Sclerosing Cholangitis	has-miR-30a-5p	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-193b	serum	up	26864161
Primary Sclerosing Cholangitis	hsa-miR-454-3p	serum	down	26864161
Primary Sclerosing Cholangitis	hsa-miR-376c-5p	serum	down	26864161
Primary Sclerosing Cholangitis	hsa-miR-200c	serum	down	26864161
Primary Sclerosing Cholangitis	hsa-miR-1281	serum	up	26431155
Primary Sclerosing Cholangitis	hsa-miR-126-3p	serum	up	26431155
Primary Sclerosing Cholangitis	hsa-miR-26a	serum	up	26431155
Primary Sclerosing Cholangitis	hsa-miR-30b-5p	serum	up	26431155
Primary Sclerosing Cholangitis	hsa-miR-194-5p	serum	up	26431155

Supplemental Table 8 Primer sequences for quantify expression of target genes

Gene	Primer Sequences
<i>IL6</i>	Forward: 5'-ACTCACCTCTTCAGAACGAATTG-3' Reverse: 5'-CCATCTTTGGAAGGTTTCAGGTTG-3'
<i>TGFB1</i>	Forward: 5'-GGCCAGATCCTGTCCAAGC-3' Reverse: 5'-GTGGGTTTCCACCATTAGCAC-3'
<i>TNF</i>	Forward: 5'-CCTCTCTCTAATCAGCCCTCTG-3' Reverse: 5'-GAGGACCTGGGAGTAGATGAG-3'
<i>NFKB1</i>	Forward: 5'-AACAGAGAGGATTTTCGTTTCCG-3' Reverse: 5'-TTTGACCTGAGGGTAAGACTTCT-3'
<i>STAT3</i>	Forward: 5'-CAGCAGCTTGACACACGGTA-3' Reverse: 5'-AAACACCAAAGTGGCATGTGA-3'
<i>SMAD3</i>	Forward: 5'-CCATCTCCTACTACGAGCTGAA-3' Reverse: 5'-CACTGCTGCATTCCTGTTGAC-3'
<i>ACTA2</i>	Forward: 5'-GTGTTGCCCTGAAGAGCAT-3' Reverse: 5'-GCTGGGACATTGAAAGTCTCA-3'
<i>COL1A1</i>	Forward: 5'-GAGGGCCAAGACGAAGACATC-3' Reverse: 5'-CAGATCACGTCATCGCACAAAC-3'
<i>GAPDH</i>	Forward: 5'-AAATCCCATCACCATCTTCCAG-3' Reverse: 5'-AAATGAGCCCCAGCCTTCTC-3'

Supplemental Table 9 Number of genes with overlapping patterns among cholangiopathy-associated genes, hub genes, and essential genes.

Gene set pairs	# overlapped genes	P value	Odds ratio
BA vs PBC	85	1.10E-83	31.8
BA vs PSC	47	8.70E-49	35.4
PBC vs PSC	74	6.30E-84	53
BA vs Hub	74	6.90E-12	2.8
PBC vs Hub	99	6.70E-14	2.6
PSC vs Hub	54	3.80E-12	3.5
BA vs Essential	90	3.10E-13	2.7
PBC vs Essential	100	3.20E-08	2
PSC vs Essential	49	2.20E-06	2.3

BA, biliary atresia; PBC, primary biliary cholangitis; PSC, primary sclerosing cholangitis

Supplemental Table 10 Associations of subcore genes according to various biological, physiological, clinical criteria and network connectivity

Subcore genes	Clustered by biological processes	Mouse phenotypes		Expression *			Genetic **			Experimental model ***			Clinical parameters ****			Functional score*****	Connectivity score*****	Overall Score *****
		Abnormal	Abnormal	BA	PBC	PSC	BA	PBC	PSC	BA	PBC	PSC	BA	PBC	PSC			
		liver	hepatobiliary															
		physiology	physiology															
STAT3	0	1	1	1	1	0	0	0	0	1	0	1	0	0	0	6	11	17
IL6	1	1	1	1	1	1	0	0	0	1	1	0	1	0	0	9	4.5	13.5
FOXP3	0	1	1	1	1	1	0	1	0	1	1	1	0	0	0	9	4	13
TP53	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	5	7.5	12.5
HIF1A	0	1	1	1	1	1	0	0	0	0	0	0	1	0	0	6	6	12
TNF	1	1	1	1	1	1	0	0	1	1	0	1	1	0	0	10	2	12
IL2	1	1	1	1	1	1	0	0	1	1	0	0	1	0	0	9	2.5	11.5
TGFB1	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	8	3	11
NFKB1	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	6	4	10.5
SMAD3	0	1	1	1	1	0	0	0	0	1	1	1	0	0	0	7	3.5	10.5
IL10	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	8	2	10
IL17A	0	0	0	1	1	1	0	0	0	1	1	0	0	1	0	6	3	9
TLR4	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	7	1.5	8.5
PTGS2	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	4	2.5	6.5

“1” indicates association while “0” indicates no association;

* Abnormal expression level of pattern; ** GWAS or variant; *** KO, antibody neutralization, overexpression, inhibition, in vitro, in vivo

**** Total bilirubin, ALT, GGT levels, Survival; *****Functional score is the sum of scores of functional studies (column with “1” and “0” values);

*****Average # Connections from Figure 6A and Supplemental Figure 1; *****Overall score is sum of Functional score and Connectivity Score

Supplemental Table 11

Fold change in the mRNA expression of core genes in the AGE-RAGE pathway in the liver of patients with cholangiopathies*

Core genes in AGE-RAGE pathway	Fold change			References
	BA vs NC	PBC vs NC	PSC vs NC	
<i>TNF</i>	1.1	1.7	1.5	(1, 2)
<i>TGFB1</i>	1.6	1.5	12	(1-3)
<i>IL6</i>	1.6	3.6	>20	(1, 4, 5)
<i>SMAD3</i>	1.4	Increased	ND	(1, 6)
<i>NFKB1</i>	1.2	ND	ND	(1)
<i>STAT3</i>	0.63	0.4	ND	(1, 7)

*Fold changes are expressed in relation to normal controls (NC).

BA: Biliary atresia; PBC: Primary biliary cholangitis; PSC: Primary sclerosing cholangitis; ND: Not done.

In bold are the genes that are increased by at least 1.5 fold in all three cholangiopathies.

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