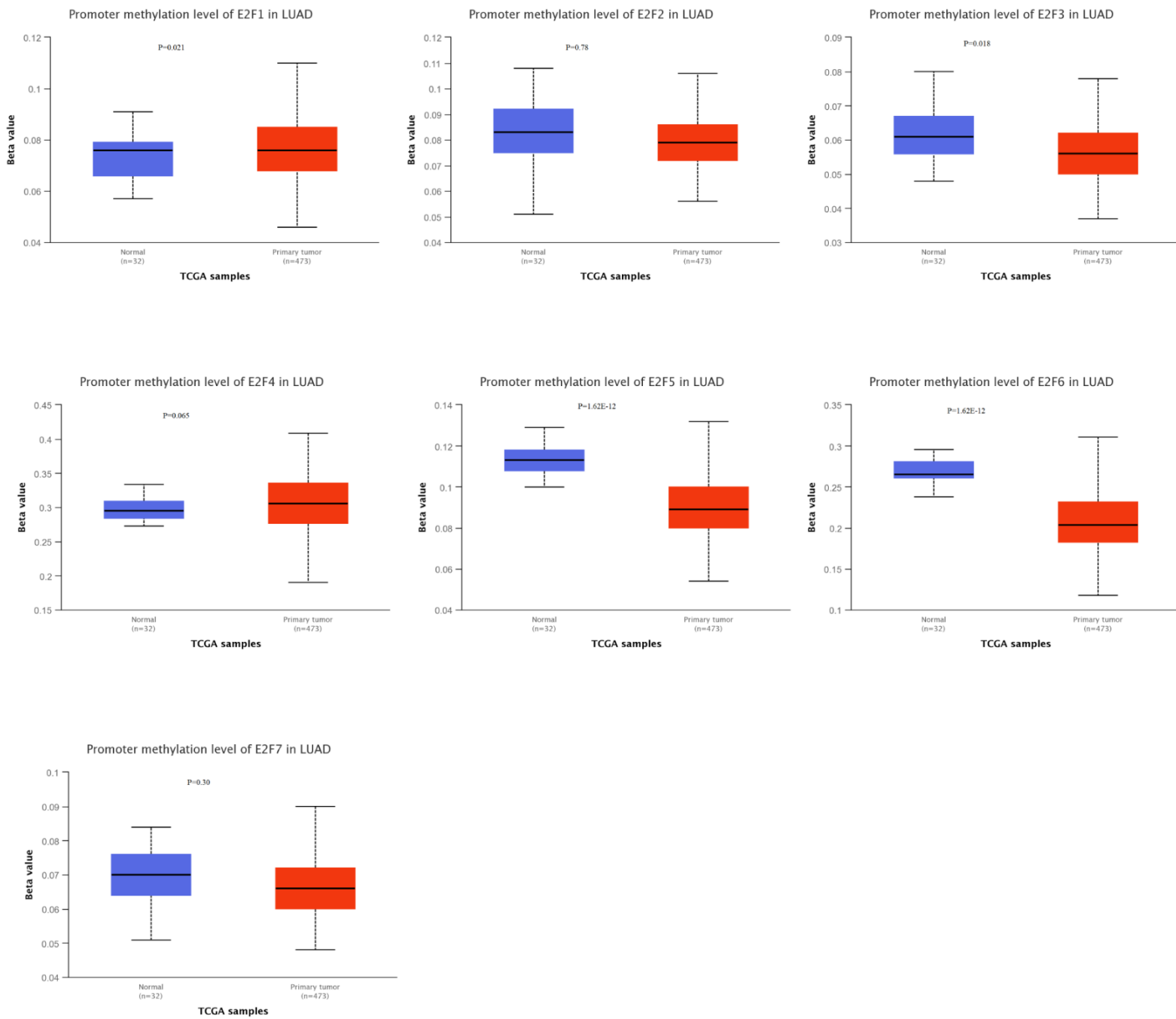
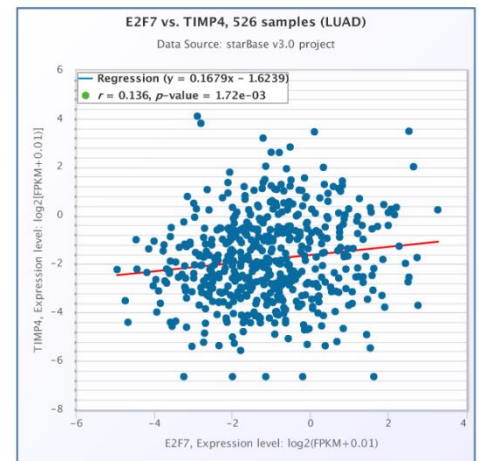
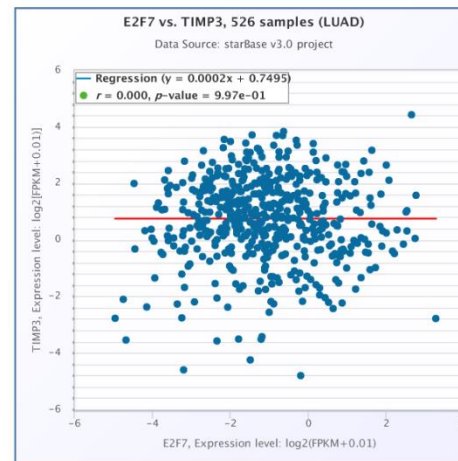
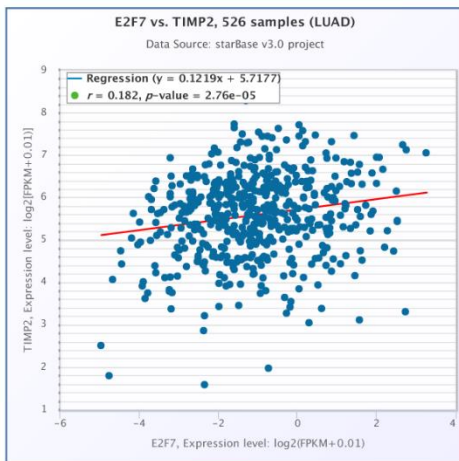
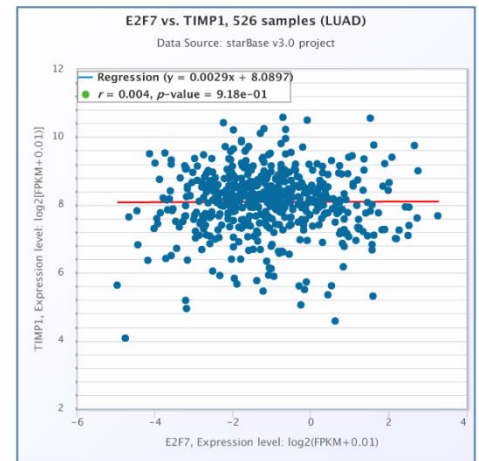
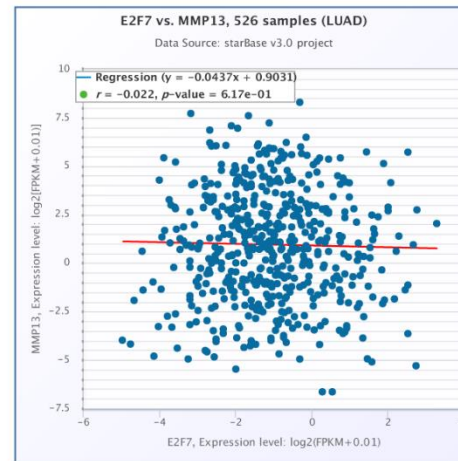
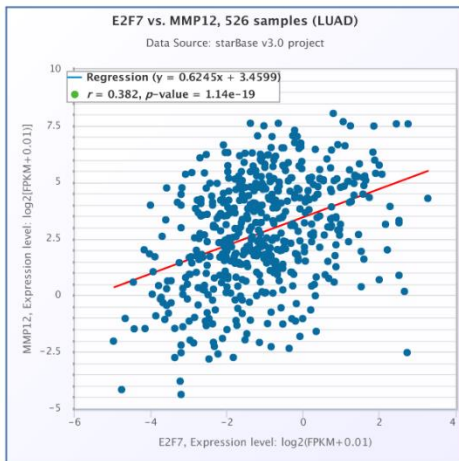
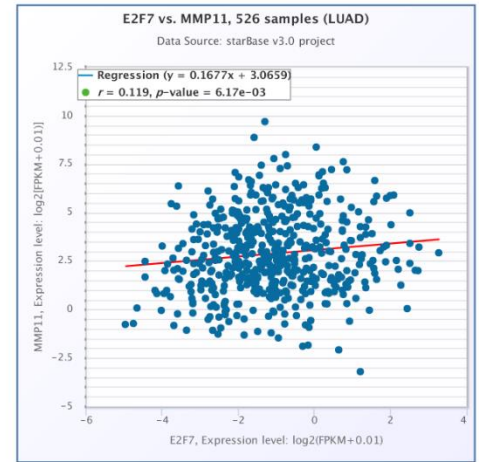
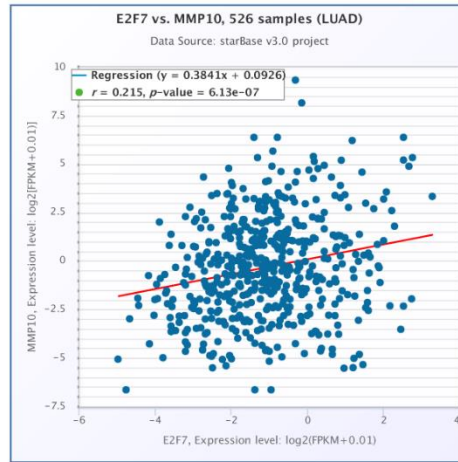
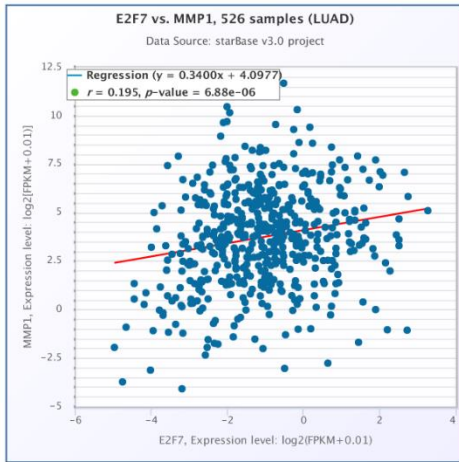


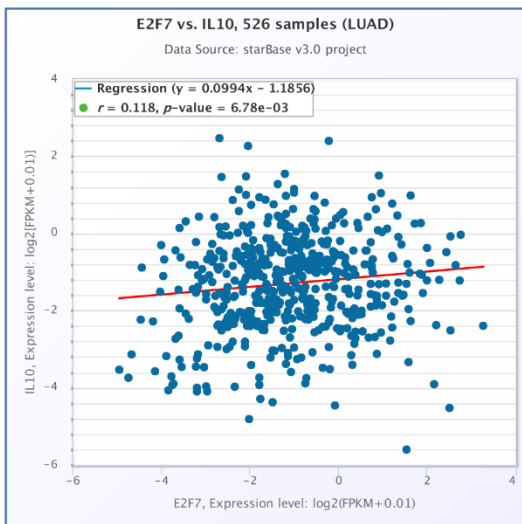
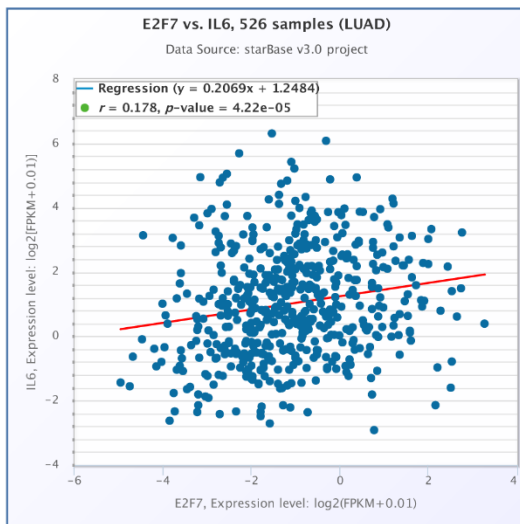
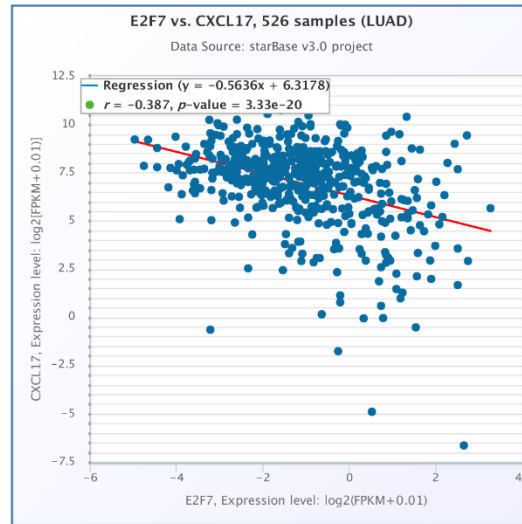
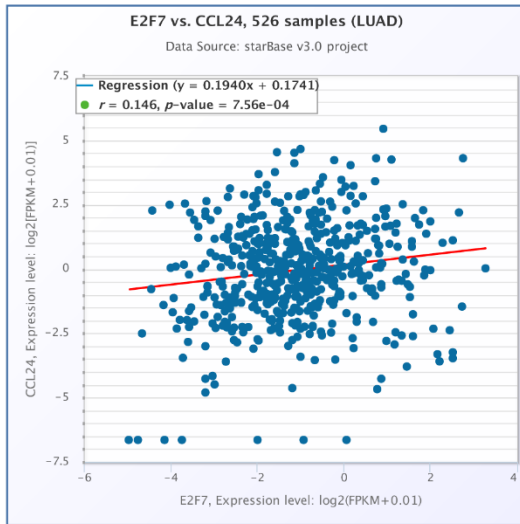
## Supplementary Figure1 - The co relationship between E2F7 expression and the levels of MMPs and TIMPs in LUAD.



## Supplementary Figure2 - The methylation status of E2F family members in LUAD vs normal.



**Supplementary Figure3** - The co relationship between E2F7 expression and the levels of common chemokines and cytokines in LUAD.



**Supplementary Table1 - The targets of E2Fs.**

# TF	Target	Type	Reference
E2F1	ABCB1	Activation	23542036
E2F1	APAF1	Activation	12149244;12766778;17600109
E2F1	APAF1	Unknown	15972851
E2F1	AR	Activation	21099103
E2F1	AR	Unknown	22508987
E2F1	ASF1B	Activation	17328667
E2F1	ATAD2	Unknown	22771493
E2F1	ATG5	Activation	18408756
E2F1	ATM	Activation	12527885;22832221
E2F1	ATM	Unknown	23993922
E2F1	AURKA	Activation	20300951
E2F1	AURKB	Unknown	15033491
E2F1	BBC3	Activation	17263886
E2F1	BCL2	Activation	11559537;12679318
E2F1	BIRC5	Activation	17848598;19102934
E2F1	BIRC5	Repression	19102934
E2F1	BIRC5	Unknown	23449974
E2F1	BMI1	Unknown	17360938
E2F1	BRCA1	Repression	20068145
E2F1	BRCA1	Unknown	18660752;19466541;23285190
E2F1	CASP7	Activation	12766778
E2F1	CCL3	Unknown	17707233
E2F1	CCNB1	Unknown	22508987
E2F1	CCND1	Activation	20220142;20655656;8618861
E2F1	CCND1	Unknown	19876926;22768064;8137237;9584162
E2F1	CCNE1	Activation	14618416;20220142;8618861
E2F1	CD2AP	Activation	22880102
E2F1	CDAN1	Unknown	19336738
E2F1	CDC6	Unknown	18541154
E2F1	CDCA7	Activation	16580749
E2F1	CDK1	Activation	14618416
E2F1	CDKN1A	Activation	10030670
E2F1	CDKN1A	Unknown	16923815
E2F1	CDKN1C	Unknown	20106982
E2F1	CDKN2A	Activation	11705881;12695664;12766778;15716352;22621932

E2F1	CHEK1	Unknown	18660752
E2F1	CHEK2	Activation	15024084
E2F1	CREBBP	Unknown	9238849
E2F1	CTNNBIP1	Activation	21532622
E2F1	CTSV	Unknown	23542171
E2F1	CUX1	Unknown	18347061
E2F1	DAPK2	Activation	18521079
E2F1	DBF4	Activation	18503552
E2F1	DDIT3	Unknown	20971808
E2F1	DHFR	Activation	14618416
E2F1	DIRAS3	Repression	16158053;16638845;16757345;17230502
E2F1	DNMT1	Repression	24502362
E2F1	DOK1	Unknown	23028047
E2F1	DRAM1	Activation	18408756
E2F1	DROSHA	Activation	24909689
E2F1	DUSP1	Activation	17638884
E2F1	E2F1	Unknown	7958836
E2F1	E2F6	Activation	16107498
E2F1	ECT2	Unknown	21886810
E2F1	ERCC1	Activation	22159227
E2F1	ERCC5	Activation	17893230
E2F1	ERICD	Repression	24168400
E2F1	ETV4	Activation	18687701
E2F1	FANCA	Activation	18438432
E2F1	FGFR1	Activation	19303924
E2F1	FHIT	Repression	15044096
E2F1	FLT1	Unknown	20516113
E2F1	FMN2	Unknown	23839046
E2F1	FOXM1	Activation	21518729
E2F1	FSHR	Unknown	11883315
E2F1	FZD1	Activation	23806799
E2F1	FZD1	Unknown	20051274
E2F1	GINS3	Unknown	17127213
E2F1	H19	Activation	15985428
E2F1	HIC1	Activation	19491197
E2F1	HMGA1	Activation	22389255
E2F1	HSPA5	Repression	18840615

E2F1	IL1B	Unknown	17707233
E2F1	IL23A	Unknown	17707233
E2F1	IRF3	Repression	21225257;22464952
E2F1	ISYNA1	Activation	15464731
E2F1	KDR	Unknown	20516113
E2F1	KIF2C	Activation	23610368
E2F1	KIF2C	Repression	18440323
E2F1	KIR3DL1	Activation	18358829
E2F1	LRBA	Activation	15064745
E2F1	MAP1LC3A	Activation	18408756
E2F1	MAP3K5	Activation	16476732;17287612
E2F1	MAP3K5	Unknown	16512785;19610065
E2F1	MAPK8	Unknown	20800677
E2F1	MCL1	Repression	11705881
E2F1	MCM5	Unknown	17210690
E2F1	MCM8	Unknown	16325355
E2F1	MCPH1	Activation	22136275
E2F1	MDM2	Repression	20837136
E2F1	MEFV	Activation	20805247
E2F1	MIR202	Unknown	24337320
E2F1	MT1G	Activation	15735762
E2F1	MUC4	Activation	22537161
E2F1	MYB	Unknown	8137237
E2F1	MYBL2	Activation	14618416;16299810
E2F1	MYC	Activation	11705881
E2F1	MYCN	Activation	14645238
E2F1	MYH10	Unknown	8931991
E2F1	NELL2	Unknown	23829315
E2F1	NOX4	Activation	18554521
E2F1	NPAT	Activation	12665581
E2F1	NRIP1	Activation	22629304
E2F1	PCNA	Activation	14618416
E2F1	PCSK6	Activation	17825503
E2F1	PDK4	Repression	21625432
E2F1	PEG10	Unknown	18625225
E2F1	PIN1	Unknown	20376080
E2F1	PLK1	Activation	24076372

E2F1	PNRC2	Repression	16181749
E2F1	PPARG	Activation	12110166
E2F1	PPARG	Unknown	20971808
E2F1	PPP1R13B	Activation	15706352;21479363
E2F1	PTPRO	Unknown	18644370
E2F1	RACGAP1	Unknown	21886810
E2F1	RAD51	Unknown	23285190
E2F1	RASGEF1B	Activation	18396012
E2F1	RASGRP1	Activation	18396012
E2F1	RB1	Activation	8264596
E2F1	RBM38	Activation	22798430
E2F1	RNF2	Unknown	17873902
E2F1	RPA2	Unknown	11313881
E2F1	RRM1	Activation	14618416
E2F1	RRM2	Activation	19416980
E2F1	RRP1B	Unknown	20040599
E2F1	SERPINB5	Activation	20197383
E2F1	SERPINE1	Repression	11402043;11559366
E2F1	SIVA1	Activation	15105421
E2F1	SIVA1	Activation	15105421
E2F1	SKP2	Activation	23352642
E2F1	SKP2	Unknown	17483325;20424123;23348237;24574749
E2F1	TERT	Activation	21411498;22207128
E2F1	TERT	Repression	21411498;22207128
E2F1	THBS1	Activation	20976175
E2F1	TLR3	Repression	22310660
E2F1	TNF	Unknown	17707233
E2F1	TNFSF11	Activation	18381203
E2F1	TOP2A	Activation	11313881
E2F1	TP53	Activation	15706352
E2F1	TP53	Repression	8557038
E2F1	TP53	Unknown	12625370;21441950;22241525
E2F1	TP53BP2	Activation	15706352
E2F1	TP53BP2	Unknown	19610065
E2F1	TP53INP1	Activation	15706352
E2F1	TP73	Activation	11115495;12766778;17980704
E2F1	TP73	Unknown	11988839;19188449

E2F1	TYMS	Activation	14618416;9748140
E2F1	TYMS	Unknown	10914714;14679120
E2F1	UHRF1	Activation	12838312;15361834
E2F1	UHRF1	Unknown	23023523
E2F1	ULK1	Activation	18408756
E2F1	VEGFA	Repression	20639906
E2F1	WWOX	Repression	15044096
E2F1	XRCC1	Activation	19031698
E2F1	ZNF350	Unknown	22768064
E2F2	CUX1	Unknown	18347061
E2F2	MAP3K5	Unknown	16512785
E2F3	AURKA	Activation	18776222
E2F3	CCNA2	Unknown	16909110
E2F3	CCNB1	Unknown	17098936
E2F3	CDC6	Unknown	18541154
E2F3	CDK1	Unknown	16909110
E2F3	CDKN1A	Activation	10030670
E2F3	CUX1	Unknown	18347061
E2F3	ERICD	Repression	24168400
E2F3	MAP3K5	Unknown	16512785
E2F3	MAPK8	Unknown	20800677
E2F3	PLK1	Unknown	16909110
E2F3	TFE3	Unknown	12748276
E2F3	VEGFA	Unknown	21372519
E2F4	AR	Unknown	22508987
E2F4	AURKB	Unknown	15033491
E2F4	BIRC5	Unknown	18504435
E2F4	BRCA1	Activation	20818429
E2F4	BRCA1	Repression	17106239;20133863;21701264;23108140
E2F4	BRCA1	Unknown	17001309
E2F4	CCNB1	Unknown	22508987
E2F4	CCND1	Unknown	9584162
E2F4	CDK2	Unknown	22447046
E2F4	CUX1	Unknown	18347061
E2F4	DIRAS3	Repression	16158053;16638845;16757345;17230502
E2F4	HCFC1	Activation	14532282
E2F4	PCLAF	Repression	23593430



E2F4	LIN54	Unknown	19725879
E2F4	LTBP4	Unknown	23741501
E2F4	MAP3K5	Unknown	16512785
E2F4	MCM10	Repression	15195143
E2F4	MYC	Unknown	17132729
E2F4	PEG10	Unknown	18625225
E2F4	PLK1	Repression	17981789
E2F4	PLK4	Unknown	24071582
E2F4	PPARG	Repression	12110166
E2F4	RAD51	Repression	20133863;21701264
E2F4	RAD51	Unknown	17001309
E2F4	TOPBP1	Repression	15195143
E2F4	TTK	Repression	17981789
E2F5	FSHR	Unknown	11883315
E2F5	LOXL2	Unknown	20012301
E2F5	MYC	Unknown	17132729
E2F6	APAF1	Repression	17600109
E2F6	BRCA1	Unknown	19466541
E2F6	BRD7	Unknown	16792505
E2F6	CYC1	Unknown	10998368
E2F6	E2F1	Repression	18562691
E2F6	IL13	Unknown	22981205
E2F6	PCLAF	Repression	23593430
E2F7	E2F1	Repression	18202719