

**Table S11. 21 target genes of three miRNAs that can directly/indirectly interact with p53**

Gene Name	RefSeq	Description	TargetScan Context Score	Interaction with p53
JMY	NM_152405	junction mediating and regulatory protein, p53 cofactor	-0.07	direct
KLLN	NM_001126049	killin, p53-regulated DNA replication inhibitor	-0.11	direct
MDM2	NM_002392	Mdm2 p53 binding protein homolog (mouse)	-0.08	direct
MDM4	NM_001204171	Mdm4 p53 binding protein homolog (mouse)	-0.15	direct
PDRG1	NM_030815	p53 and DNA-damage regulated 1	-0.18	direct
RRM2B	NM_001172477	ribonucleotide reductase M2 B (TP53 inducible)	-0.02	direct
TP53	NM_000546	tumor protein p53	-0.18	direct
TP53I11	NM_001076787	tumor protein p53 inducible protein 11	-0.11	direct
TP53INP1	NM_001135733	tumor protein p53 inducible nuclear protein 1	-0.43	direct
TP53INP2	NM_021202	tumor protein p53 inducible nuclear protein 2	> -0.01	direct
TP53RK	NM_033550	TP53 regulating kinase	-0.04	indirect
STK11	NM_000455	serine/threonine kinase 11	-1.27	indirect
FKBP8	NM_012181	FK506 binding protein 8, 38kDa	-1.11	indirect
ARAF	NM_001654	v-raf murine sarcoma 3611 viral oncogene homolog	-1.1	indirect
NRARP	NM_001004354	NOTCH-regulated ankyrin repeat protein	-1	indirect
EEF1A2	NM_001958	eukaryotic translation elongation factor 1 alpha 2	-0.86	indirect
EPHA2	NM_004431	EPH receptor A2	-0.86	indirect
DPP9	NM_139159	dipeptidyl-peptidase 9	-0.85	indirect
RAB11B	NM_004218	RAB11B, member RAS oncogene family	-0.82	indirect
NFIX	NM_002501	nuclear factor I/X (CCAAT-binding transcription factor)	-1.32	indirect
TMEM143	NM_018273	transmembrane protein 143	-0.65	indirect