

Supplementary Table 2. 219 potential target genes of miR-21

miRNA	Gene Name	TargetScan Sites	PicTar Sites
hsa-miR-21-5p	KLHL15	1[18,912]	6[24,6206]
hsa-miR-21-5p	TNPO1	1[6,2277]	6[10,13308]
hsa-miR-21-5p	KLHDC5	1[7,161]	5[9,250]
hsa-miR-21-5p	PLAG1	3[7,512]	5[8,579]
hsa-miR-21-5p	UBE2K	0[0,0]	4[5,104]
hsa-miR-21-5p	YOD1	2[9,3030]	4[11,3172]
hsa-miR-21-5p	HNRNPU	1[5,110]	3[9,114]
hsa-miR-21-5p	CNOT6	1[2,21]	3[8,1002]
hsa-miR-21-5p	RASA1	1[7,212]	3[7,295]
hsa-miR-21-5p	SUZ12	0[0,0]	3[6,1166]
hsa-miR-21-5p	ITGB8	1[4,151]	3[6,1126]
hsa-miR-21-5p	SCML2	1[2,416]	3[5,439]
hsa-miR-21-5p	MAP3K1	1[5,195]	3[5,326]
hsa-miR-21-5p	PURA	0[0,0]	3[5,238]
hsa-miR-21-5p	ACBD5	0[0,0]	3[5,187]
hsa-miR-21-5p	POM121	1[1,1]	3[5,121]
hsa-miR-21-5p	MTAP	1[4,132]	3[4,290]
hsa-miR-21-5p	MTMR12	1[4,35]	3[4,286]
hsa-miR-21-5p	RPS6KA3	1[1,61]	3[4,145]
hsa-miR-21-5p	SLC7A6	1[1,4]	3[3,154]
hsa-miR-21-5p	ZNF367	2[22,8223]	3[22,8379]
hsa-miR-21-5p	RP2	0[0,0]	3[2,53]
hsa-miR-21-5p	TNRC6B	2[15,1113]	3[15,1160]
hsa-miR-21-5p	PURB	1[1,30]	3[12,1575]
hsa-miR-21-5p	CUX1	2[10,536]	3[11,752]
hsa-miR-21-5p	NFIB	1[9,662]	3[11,1028]
hsa-miR-21-5p	LEMD3	1[8,395]	2[9,400]
hsa-miR-21-5p	FRS2	1[1,113]	2[9,392]
hsa-miR-21-5p	YAP1	1[8,191]	2[9,287]
hsa-miR-21-5p	C17orf39	1[1,19]	2[9,227]
hsa-miR-21-5p	SMAD7	1[7,476]	2[8,499]
hsa-miR-21-5p	CPEB3	1[7,562]	2[7,625]
hsa-miR-21-5p	FCHO2	0[0,0]	2[7,533]
hsa-miR-21-5p	PBRM1	1[7,336]	2[7,355]
hsa-miR-21-5p	RMND5A	1[5,1139]	2[7,1393]
hsa-miR-21-5p	DNAJC16	1[3,97]	2[7,106]
hsa-miR-21-5p	AKIRIN1	0[0,0]	2[7,1054]
hsa-miR-21-5p	SPRY2	1[1,35]	2[6,77]
hsa-miR-21-5p	RBPJ	1[1,149]	2[6,686]
hsa-miR-21-5p	ZNF704	0[0,0]	2[6,40]
hsa-miR-21-5p	FAM46A	0[0,0]	2[6,3417]
hsa-miR-21-5p	SATB1	2[6,116]	2[6,116]
hsa-miR-21-5p	PPP1R3B	2[5,64]	2[5,64]

hsa-miR-21-5p	HBP1	0[0,0]	2[5,207]
hsa-miR-21-5p	RNF111	0[0,0]	2[5,189]
hsa-miR-21-5p	PLEKHA1	1[3,514]	2[4,583]
hsa-miR-21-5p	TGFBR2	1[2,3562]	2[4,3696]
hsa-miR-21-5p	EPHA4	1[3,28]	2[4,34]
hsa-miR-21-5p	CSRNP3	1[1,18]	2[4,154]
hsa-miR-21-5p	FBXO11	1[3,1]	2[4,14]
hsa-miR-21-5p	PIK3R1	2[4,108]	2[4,108]
hsa-miR-21-5p	MATR3	0[0,0]	2[3,78]
hsa-miR-21-5p	THRB	2[3,66]	2[3,66]
hsa-miR-21-5p	MKRN1	0[0,0]	2[3,45]
hsa-miR-21-5p	MEF2A	0[0,0]	2[3,279]
hsa-miR-21-5p	POM121C	1[2,7]	2[3,20]
hsa-miR-21-5p	RBMS3	1[2,60]	2[2,68]
hsa-miR-21-5p	IMPAD1	0[0,0]	2[2,66]
hsa-miR-21-5p	STAT3	1[2,168]	2[2,407]
hsa-miR-21-5p	CD47	0[0,0]	2[2,36]
hsa-miR-21-5p	PVRL3	0[0,0]	2[2,354]
hsa-miR-21-5p	ZSWIM6	1[3,395]	2[2,332]
hsa-miR-21-5p	MEF2C	1[1,17]	2[2,25]
hsa-miR-21-5p	RSBN1	0[0,0]	2[2,16]
hsa-miR-21-5p	SOX7	1[2,109]	2[2,109]
hsa-miR-21-5p	GLCCI1	1[16,1845]	2[17,2071]
hsa-miR-21-5p	ZCCHC3	1[10,1917]	2[17,1997]
hsa-miR-21-5p	SKI	1[10,643]	2[13,1587]
hsa-miR-21-5p	ADNP	1[10,455]	2[11,478]
hsa-miR-21-5p	CDC25A	1[10,123]	2[11,292]
hsa-miR-21-5p	GATAD2B	2[10,1633]	2[10,1633]
hsa-miR-21-5p	SYT14	0[0,0]	1[8,333]
hsa-miR-21-5p	BTG2	1[8,2272]	1[8,2272]
hsa-miR-21-5p	FAM63B	1[8,214]	1[8,214]
hsa-miR-21-5p	KIAA1468	0[0,0]	1[7,79]
hsa-miR-21-5p	BTBD3	0[0,0]	1[7,3161]
hsa-miR-21-5p	BCL2	1[7,276]	1[7,276]
hsa-miR-21-5p	E2F3	0[0,0]	1[7,259]
hsa-miR-21-5p	PITX2	1[7,175]	1[7,175]
hsa-miR-21-5p	MSL1	1[7,138]	1[7,138]
hsa-miR-21-5p	ATXN10	0[0,0]	1[6,924]
hsa-miR-21-5p	RAB6A	1[6,64]	1[6,64]
hsa-miR-21-5p	MRPL49	1[6,58]	1[6,58]
hsa-miR-21-5p	SPG20	1[6,286]	1[6,286]
hsa-miR-21-5p	TIMP3	1[6,136]	1[6,136]
hsa-miR-21-5p	KRIT1	1[6,124]	1[6,124]
hsa-miR-21-5p	IL12A	1[6,105]	1[5,96]
hsa-miR-21-5p	UBR3	1[5,93]	1[5,93]
hsa-miR-21-5p	PCBP1	1[5,92]	1[5,92]

hsa-miR-21-5p	TAF5	0[0,0]	1[5,87]
hsa-miR-21-5p	RHOB	1[5,5598]	1[5,5598]
hsa-miR-21-5p	ASF1A	1[5,49]	1[5,49]
hsa-miR-21-5p	SMARCD1	1[5,36]	1[5,36]
hsa-miR-21-5p	CHD7	1[5,3304]	1[5,3304]
hsa-miR-21-5p	LRRC57	1[4,79]	1[4,79]
hsa-miR-21-5p	BCL11A	1[4,43]	1[4,43]
hsa-miR-21-5p	PAN3	1[4,42]	1[4,42]
hsa-miR-21-5p	BRD1	0[0,0]	1[4,163]
hsa-miR-21-5p	TRIM33	1[4,155]	1[4,155]
hsa-miR-21-5p	AP1AR	1[3,75]	1[3,75]
hsa-miR-21-5p	PDZD2	1[3,73]	1[3,73]
hsa-miR-21-5p	SCRN1	1[3,70]	1[3,70]
hsa-miR-21-5p	NFIA	1[3,55]	1[3,55]
hsa-miR-21-5p	GLYR1	1[3,428]	1[3,428]
hsa-miR-21-5p	ALX1	1[3,33]	1[3,33]
hsa-miR-21-5p	ZDHHC17	0[0,0]	1[3,178]
hsa-miR-21-5p	RECK	1[3,161]	1[3,161]
hsa-miR-21-5p	DLX2	1[3,146]	1[3,146]
hsa-miR-21-5p	KIAA2026	0[0,0]	1[3,108]
hsa-miR-21-5p	CBX4	1[22,2569]	1[22,2569]
hsa-miR-21-5p	SPIN1	0[0,0]	1[2,94]
hsa-miR-21-5p	TGFBI	1[2,930]	1[2,930]
hsa-miR-21-5p	MBTPS2	0[0,0]	1[2,8]
hsa-miR-21-5p	PPP3CA	1[2,497]	1[2,497]
hsa-miR-21-5p	PER2	1[2,484]	1[2,484]
hsa-miR-21-5p	C11orf95	1[2,48]	1[2,48]
hsa-miR-21-5p	PPARA	1[2,40]	1[2,40]
hsa-miR-21-5p	JHDM1D	1[2,39]	1[2,39]
hsa-miR-21-5p	SOS2	0[0,0]	1[2,33]
hsa-miR-21-5p	SLC9A6	0[0,0]	1[2,288]
hsa-miR-21-5p	PCSK6	1[2,232]	1[2,232]
hsa-miR-21-5p	EHD1	1[2,228]	1[2,228]
hsa-miR-21-5p	TESK2	0[0,0]	1[2,20]
hsa-miR-21-5p	PCBP2	1[2,171]	1[2,171]
hsa-miR-21-5p	PSRC1	0[0,0]	1[2,171]
hsa-miR-21-5p	CRIM1	0[0,0]	1[2,1621]
hsa-miR-21-5p	KLF6	1[2,137]	1[2,137]
hsa-miR-21-5p	WWP1	1[2,132]	1[2,132]
hsa-miR-21-5p	ARHGAP24	1[2,13]	1[2,13]
hsa-miR-21-5p	TSHZ1	0[0,0]	1[2,115]
hsa-miR-21-5p	UBE2D3	1[2,105]	1[2,105]
hsa-miR-21-5p	STK40	1[2,0]	1[2,0]
hsa-miR-21-5p	XKR6	1[2,0]	1[2,0]
hsa-miR-21-5p	PELI1	1[19,4917]	1[19,4917]
hsa-miR-21-5p	EIF2C2	0[0,0]	1[19,1480]

hsa-miR-21-5p	PDCD4	1[18,1672]	1[18,1672]
hsa-miR-21-5p	MBNL1	1[15,3279]	1[15,3279]
hsa-miR-21-5p	STAG2	1[14,394]	1[14,394]
hsa-miR-21-5p	KLF3	1[11,4344]	1[11,4344]
hsa-miR-21-5p	EIF1AX	1[10,269]	1[10,269]
hsa-miR-21-5p	DAZL	0[0,0]	1[1,9]
hsa-miR-21-5p	NAA50	0[0,0]	1[1,6]
hsa-miR-21-5p	RASGRP1	1[1,5]	1[1,5]
hsa-miR-21-5p	SETD1B	1[1,47]	1[1,47]
hsa-miR-21-5p	NIPBL	0[0,0]	1[1,212]
hsa-miR-21-5p	SSFA2	0[0,0]	1[1,1996]
hsa-miR-21-5p	ELF2	1[1,19]	1[1,19]
hsa-miR-21-5p	MATN2	1[2,30]	1[1,17]
hsa-miR-21-5p	GLIS2	1[1,125]	1[1,125]
hsa-miR-21-5p	JPH1	1[1,12]	1[1,12]
hsa-miR-21-5p	MAPRE1	0[0,0]	1[1,11]
hsa-miR-21-5p	VCL	2[7,576]	0[0,0]
hsa-miR-21-5p	RAB22A	2[6,2476]	0[0,0]
hsa-miR-21-5p	PTPN9	1[9,425]	0[0,0]
hsa-miR-21-5p	FBXO28	1[9,137]	0[0,0]
hsa-miR-21-5p	ZNF217	1[8,1458]	0[0,0]
hsa-miR-21-5p	BRWD1	1[7,682]	0[0,0]
hsa-miR-21-5p	GNG12	1[6,587]	0[0,0]
hsa-miR-21-5p	LRP6	1[6,345]	0[0,0]
hsa-miR-21-5p	PTPN14	1[6,1660]	0[0,0]
hsa-miR-21-5p	ZFP36L2	1[6,115]	0[0,0]
hsa-miR-21-5p	DNAJA2	1[5,96]	0[0,0]
hsa-miR-21-5p	GAB1	1[5,831]	0[0,0]
hsa-miR-21-5p	CHIC1	1[5,50]	0[0,0]
hsa-miR-21-5p	SC5DL	1[5,245]	0[0,0]
hsa-miR-21-5p	SESTD1	1[5,164]	0[0,0]
hsa-miR-21-5p	DCUN1D3	1[4,69]	0[0,0]
hsa-miR-21-5p	GTPBP1	1[4,62]	0[0,0]
hsa-miR-21-5p	PRKCE	1[4,45]	0[0,0]
hsa-miR-21-5p	MAP2K3	1[4,37]	0[0,0]
hsa-miR-21-5p	PFKM	1[4,336]	0[0,0]
hsa-miR-21-5p	EIF4EBP2	1[4,303]	0[0,0]
hsa-miR-21-5p	SNTB2	1[4,214]	0[0,0]
hsa-miR-21-5p	RFFL	1[3,84]	0[0,0]
hsa-miR-21-5p	EIF2C4	1[3,6]	0[0,0]
hsa-miR-21-5p	PAG1	1[3,50]	0[0,0]
hsa-miR-21-5p	PGRMC2	1[3,469]	0[0,0]
hsa-miR-21-5p	S100A10	1[3,381]	0[0,0]
hsa-miR-21-5p	GXYLT1	1[3,336]	0[0,0]
hsa-miR-21-5p	LIFR	1[3,3256]	0[0,0]
hsa-miR-21-5p	FOXP2	1[3,32]	0[0,0]

hsa-miR-21-5p	5-Mar	1[3,14]	0[0,0]
hsa-miR-21-5p	BCL7A	1[21,973]	0[0,0]
hsa-miR-21-5p	UBN2	1[2,99]	0[0,0]
hsa-miR-21-5p	TNFRSF11B	1[2,91]	0[0,0]
hsa-miR-21-5p	KLF5	1[2,823]	0[0,0]
hsa-miR-21-5p	ARMCX1	1[2,78]	0[0,0]
hsa-miR-21-5p	DUSP8	1[2,66]	0[0,0]
hsa-miR-21-5p	TOPORS	1[2,61]	0[0,0]
hsa-miR-21-5p	TET1	1[2,38]	0[0,0]
hsa-miR-21-5p	AIM1L	1[2,37]	0[0,0]
hsa-miR-21-5p	MBLAC2	1[2,35]	0[0,0]
hsa-miR-21-5p	MSH2	1[2,325]	0[0,0]
hsa-miR-21-5p	SLC10A7	1[2,26]	0[0,0]
hsa-miR-21-5p	COL4A1	1[2,2419]	0[0,0]
hsa-miR-21-5p	GPR64	1[2,24]	0[0,0]
hsa-miR-21-5p	BMPR2	1[2,210]	0[0,0]
hsa-miR-21-5p	ZBTB47	1[2,2042]	0[0,0]
hsa-miR-21-5p	MCTP2	1[2,20]	0[0,0]
hsa-miR-21-5p	C5orf41	1[2,137]	0[0,0]
hsa-miR-21-5p	SESN1	1[2,132]	0[0,0]
hsa-miR-21-5p	C17orf75	1[2,13]	0[0,0]
hsa-miR-21-5p	FAM3C	1[2,12]	0[0,0]
hsa-miR-21-5p	ARHGEF12	1[2,11]	0[0,0]
hsa-miR-21-5p	CCR7	1[2,108]	0[0,0]
hsa-miR-21-5p	C10orf12	1[2,10]	0[0,0]
hsa-miR-21-5p	BRD2	1[17,667]	0[0,0]
hsa-miR-21-5p	CDK6	1[13,1469]	0[0,0]
hsa-miR-21-5p	KBTD6	1[11,635]	0[0,0]
hsa-miR-21-5p	ARHGAP31	1[1,8]	0[0,0]
hsa-miR-21-5p	FAM126B	1[1,70]	0[0,0]
hsa-miR-21-5p	HSDL2	1[1,6]	0[0,0]
hsa-miR-21-5p	MBNL3	1[1,5]	0[0,0]
hsa-miR-21-5p	DAG1	1[1,213]	0[0,0]
hsa-miR-21-5p	PIKFYVE	1[1,21]	0[0,0]
hsa-miR-21-5p	TNS1	1[1,189]	0[0,0]
hsa-miR-21-5p	RALGPS2	1[1,13]	0[0,0]
hsa-miR-21-5p	FAM13A	1[1,13]	0[0,0]
hsa-miR-21-5p	LMBR1	1[1,107]	0[0,0]
