

**MicroRNA-138-5p suppresses non-small cell lung cancer cells by targeting PD-L1/PD-1 to regulate tumor microenvironment and inhibit the growth of cancer cells**

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Symbol	Fold Change	T-TEST	Fold Up- or Down-Regulation
	G /A	p value	G /A
ACLY	0.98	N/A	-1.02
ACSL4	0.79	N/A	-1.26
ADM	1.09	N/A	1.09
ANGPT1	0.95	N/A	-1.05
ANGPT2	1.27	N/A	1.27
APAF1	1.18	N/A	1.18
ARNT	1.42	N/A	1.42
ATP5A1	0.72	N/A	-1.40
AURKA	0.54	N/A	-1.86
BCL2L11	1.00	N/A	-1.00
BIRC3	0.91	N/A	-1.10
BMI1	0.68	N/A	-1.47
CA9	<b>0.21</b>	<b>&lt;0.01</b>	<b>-4.76</b>
CASP2	0.96	N/A	-1.04
CASP7	0.89	N/A	-1.12
CASP9	0.89	N/A	-1.13

CCL2	1.17	N/A	1.17
CCND2	0.75	N/A	-1.33
CCND3	<b>0.46</b>	<b>&lt;0.05</b>	<b>-2.17</b>
CDC20	<b>0.42</b>	<b>&lt;0.05</b>	<b>-2.37</b>
CDH2	1.97	N/A	1.97
CFLAR	1.72	N/A	1.72
COX5A	1.18	N/A	1.18
CPT2	0.79	N/A	-1.27
DDB2	1.02	N/A	1.02
DDIT3	0.95	N/A	-1.05
DKC1	<b>0.44</b>	<b>&lt;0.05</b>	<b>-2.27</b>
DSP	0.79	N/A	-1.27
E2F4	0.92	N/A	-1.09
EPO	<b>4.92</b>	<b>&lt;0.01</b>	<b>4.92</b>
ERCC3	0.64	N/A	-1.57
ERCC5	1.36	N/A	1.36
ETS2	1.24	N/A	1.24
FASLG	0.77	N/A	-1.31
FGF2	1.16	N/A	1.16
FLT1	<b>10.01</b>	<b>&lt;0.001</b>	<b>10.01</b>
FOXC2	1.28	N/A	1.28
G6PD	0.72	N/A	-1.40
GADD45G	0.57	N/A	-1.77
GPD2	0.81	N/A	-1.24
GSC	<b>2.59</b>	<b>&lt;0.01</b>	<b>2.59</b>
HMOX1	<b>0.36</b>	<b>&lt;0.01</b>	<b>-2.78</b>
IGFBP3	0.89	N/A	-1.13
IGFBP5	1.60	N/A	1.60
IGFBP7	1.19	N/A	1.19
KDR	1.42	N/A	1.42
KRT14	0.52	N/A	-1.91
LDHA	0.85	N/A	-1.18
LIG4	1.19	N/A	1.19
LPL	1.42	N/A	1.42
MAP2K1	0.69	N/A	-1.45
MAP2K3	1.07	N/A	1.07
MAPK14	1.36	N/A	1.36
MCM2	<b>0.46</b>	<b>&lt;0.01</b>	<b>-2.15</b>
MKI67	<b>0.48</b>	<b>&lt;0.01</b>	<b>-2.07</b>
NOL3	1.56	N/A	1.56

OCLN	0.66	N/A	-1.51
PFKL	1.06	N/A	1.06
PGF	0.69	N/A	-1.46
PINX1	0.78	N/A	-1.28
POLB	0.97	N/A	-1.03
PPP1R15A	0.74	N/A	-1.35
SERPINB2	<b>5.15</b>	<b>&lt;0.01</b>	<b>5.15</b>
SERPINF1	1.38	N/A	1.38
SKP2	1.38	N/A	1.38
SLC2A1	<b>2.09</b>	<b>&lt;0.05</b>	<b>2.09</b>
SNAI1	0.80	N/A	-1.24
SNAI2	<b>5.23</b>	<b>&lt;0.01</b>	<b>5.23</b>
SNAI3	<b>2.49</b>	<b>&lt;0.01</b>	<b>2.49</b>
SOD1	0.88	N/A	-1.14
SOX10	<b>2.10</b>	N/A	<b>2.10</b>
STMN1	0.56	N/A	-1.79
TBX2	1.42	N/A	1.42
TEK	<b>6.03</b>	<b>&lt;0.01</b>	<b>6.03</b>
TEP1	1.90	N/A	1.90
TERF1	0.87	N/A	-1.15
TERF2IP	0.78	N/A	-1.28
TINF2	1.09	N/A	1.09
TNKS	1.24	N/A	1.24
TNKS2	0.77	N/A	-1.31
UQCRFS1	0.70	N/A	-1.43
VEGFC	1.35	N/A	1.35
WEE1	0.69	N/A	-1.46
XIAP	1.12	N/A	1.12
ACTB	0.72	N/A	-1.38
B2M	1.86	N/A	1.86
GAPDH	1.10	N/A	1.10
HPRT1	<b>0.34</b>	<b>&lt;0.05</b>	<b>-2.98</b>
RPLP0	0.68	N/A	-1.47

**SUPPLEMENTARY TABLE 1** | With lent-pri-miR138-5p treatment or not, the mRNA expression levels of molecules related to growth and immune regulation in A549 tumor cells by cancer pathway Finder PCR array and showed in table.

Fold-change and fold-regulation values greater than 2 are indicated in red, indicating up-regulated gene; fold-change values less than 0.5 and fold-regulation values less than -2 are indicated in blue, indicating down-regulated gene. p-values: The p values are calculated based on a student's t-test of the replicate  $2^{(-\Delta Ct)}$  values for each gene in the control group and treatment groups, and p values less than 0.05 are indicated in red.