

Table S1 - Pathways targeted by individual up-regulated miRNAs

KEGG Pathway	Expected	Actual	P-value
hsa-miR-142-5p			
Ribosome	1	4	4.46E-02
TGF-beta signaling pathway	1	6	6.55E-03
hsa-miR-155			
Ubiquitin mediated proteolysis	1	4	5.90E-03
Glutamate metabolism	0	3	8.68E-04
hsa-miR-183			
Regulation of actin cytoskeleton	1	5	1.95E-02
Long-term depression	0	3	1.72E-02
hsa-miR-203			
Focal adhesion	2	7	3.35E-02
Insulin signaling pathway	2	6	1.72E-02
hsa-miR-21			
Acute myeloid leukemia	1	3	3.53E-02
hsa-miR-25			
Regulation of actin cytoskeleton	2	5	4.11E-02
hsa-miR-27a			
Glutamate metabolism	0	3	7.63E-03

Table S2 - Pathways targeted by individual down-regulated miRNAs

KEGG Pathway	Expected	Actual	P-value
hsa-miR-497			
MAPK signaling pathway	4	9	2.92E-02
Prostate cancer	2	5	1.96E-02
Renal cell carcinoma	1	5	1.64E-02
Regulation of actin cytoskeleton	3	8	3.17E-02
hsa-miR-663			
Non-small cell lung cancer	0	4	4.16E-02
Phosphatidylinositol signaling system	1	4	5.82E-03
Chronic myeloid leukemia	1	4	8.52E-03
Inositol phosphate metabolism	0	4	6.53E-04