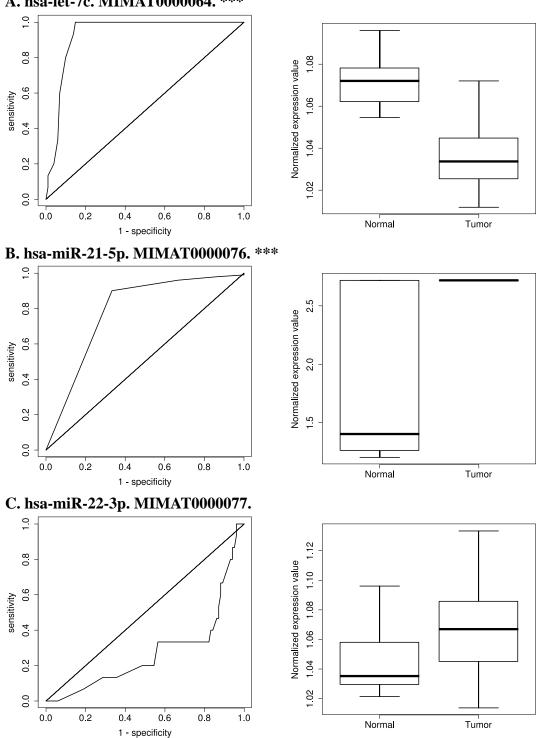
Supplementary Information

Figure S1. ROC curves and expression distribution of miRNAs. Expression profiles of NTUH miRNA dataset was used for validating our results. Solid line: actual prediction performance of the miRNA as diagnostic marker; dashed line: AUC = 0.5 (no predictive power). * p-value < 0.05; ** p-value < 0.01; *** p-value < 0.001.



A. hsa-let-7c. MIMAT0000064. ***

Figure S1. Cont.

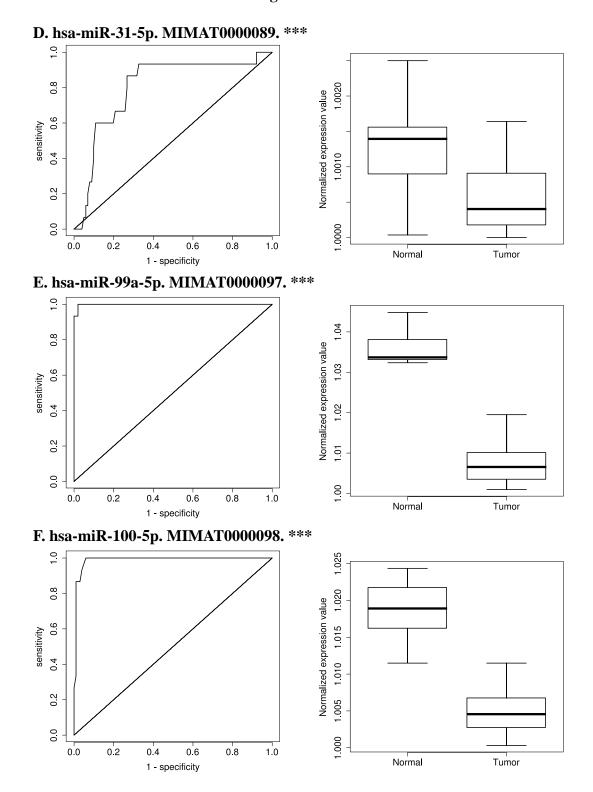


Figure S1. Cont.

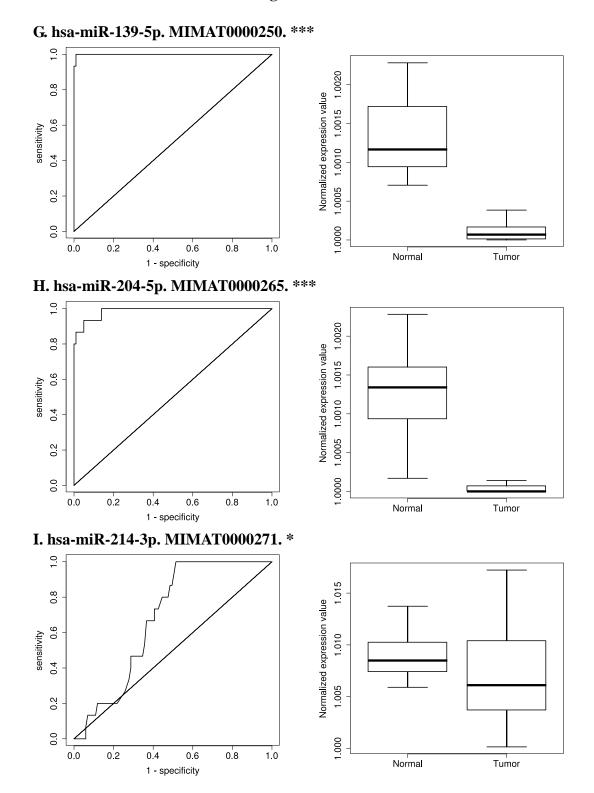


Figure S1. Cont.

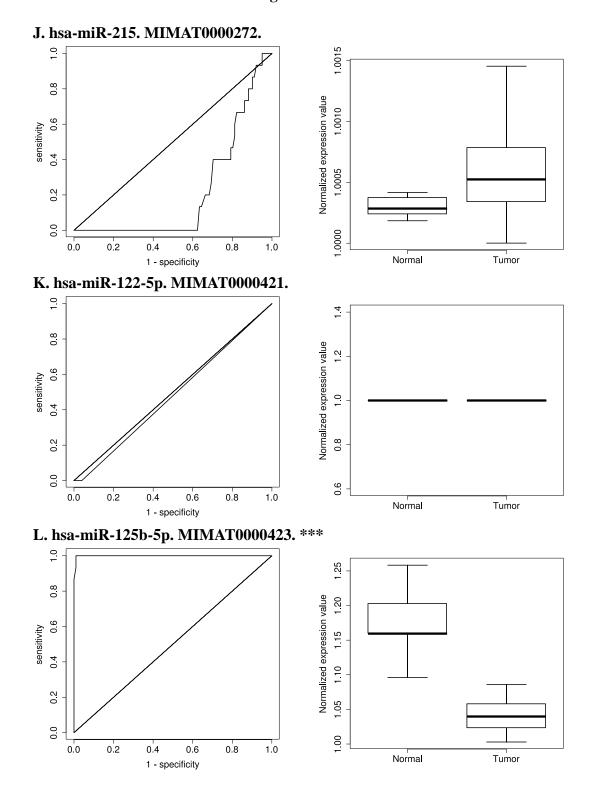


Figure S1. Cont.

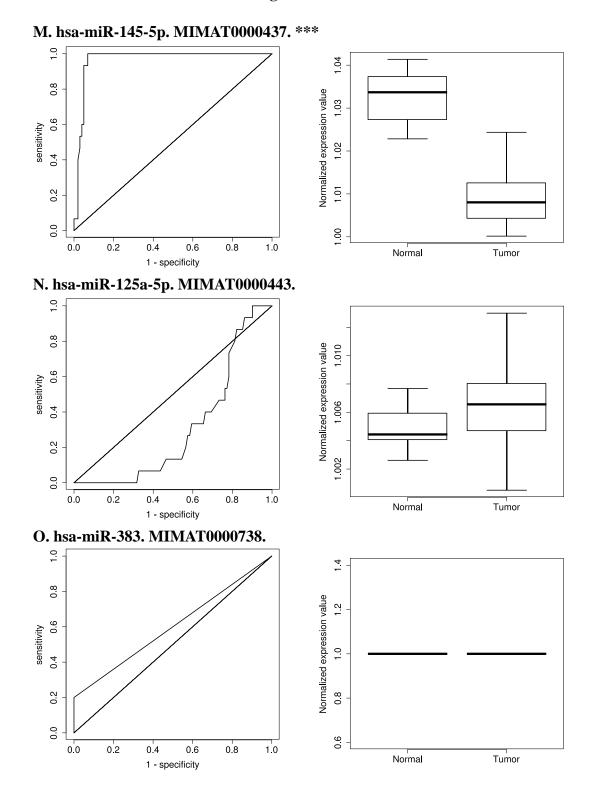


Figure S1. Cont.

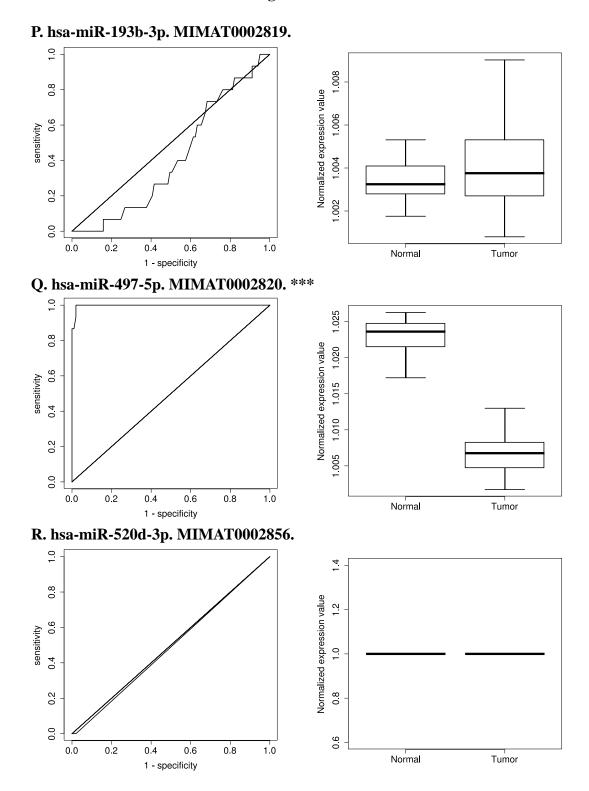
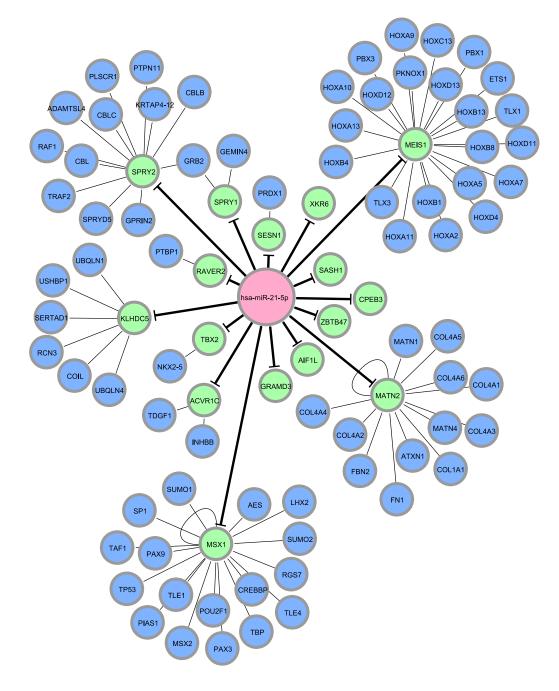


Figure S2. miRNA-regulated PIN. (hsa-miR-21-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.



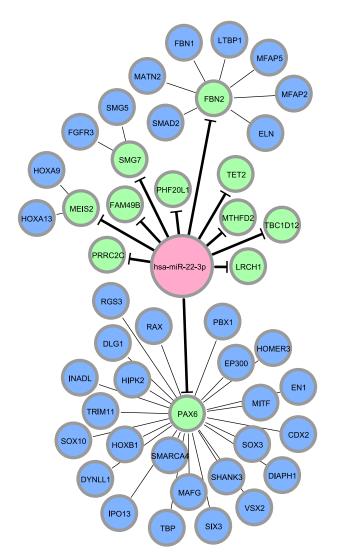


Figure S3. miRNA-regulate PIN. (hsa-miR-22-3p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

Figure S4. miRNA-regulated PINs. (hsa-miR-31-5p and hsa-miR-99a-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

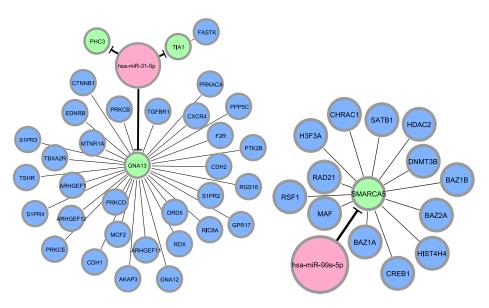


Figure S5. miRNA-regulated PINs. (hsa-miR-100-5p and hsa-miR-139-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

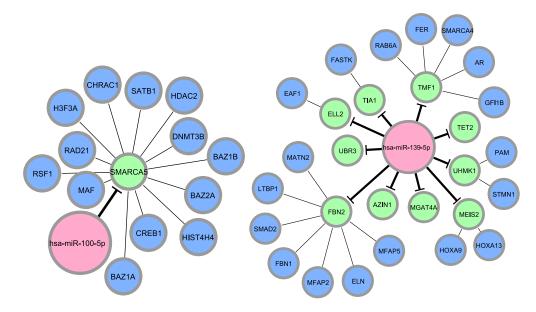


Figure S6. miRNA-regulated PIN. (hsa-204-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

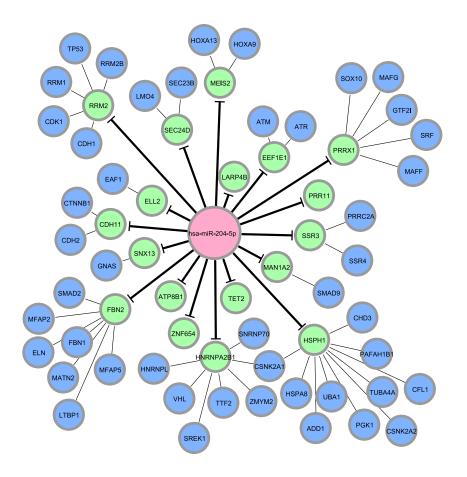


Figure S7. miRNA-regulated PINs. (hsa-miR-214-3p, hsa-miR-215, and hsa-miR-122-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

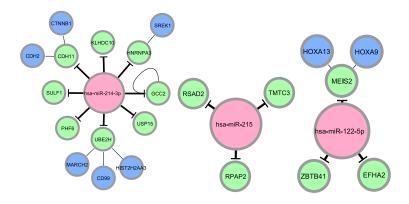


Figure S8. miRNA-regulated PIN. (hsa-miR-125b-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

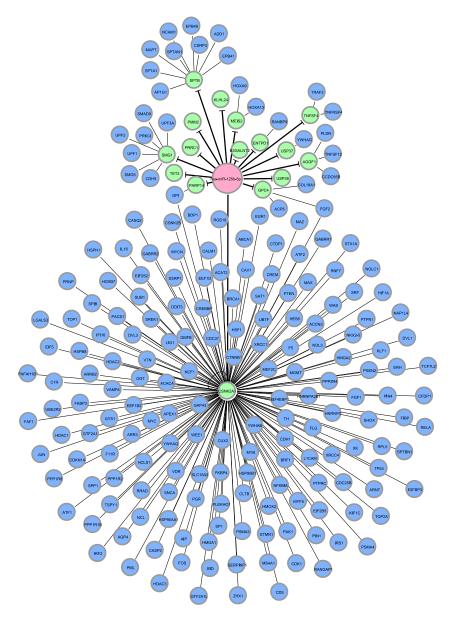
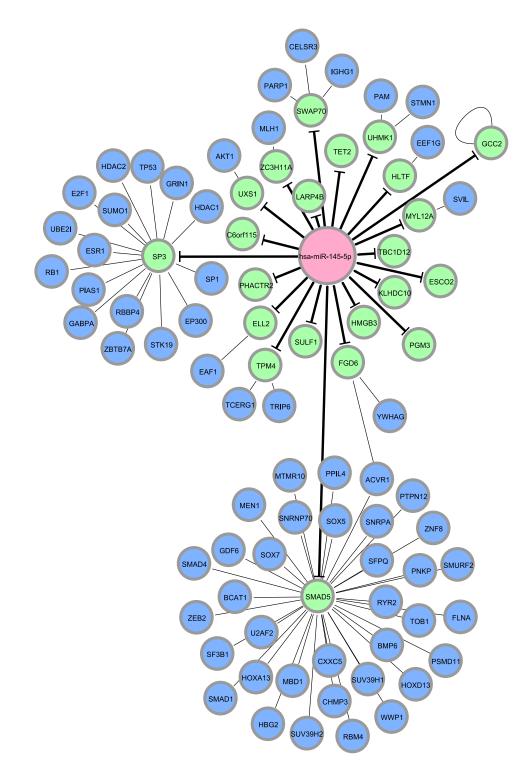


Figure S9. miRNA-regulated PIN. (hsa-miR-145-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.



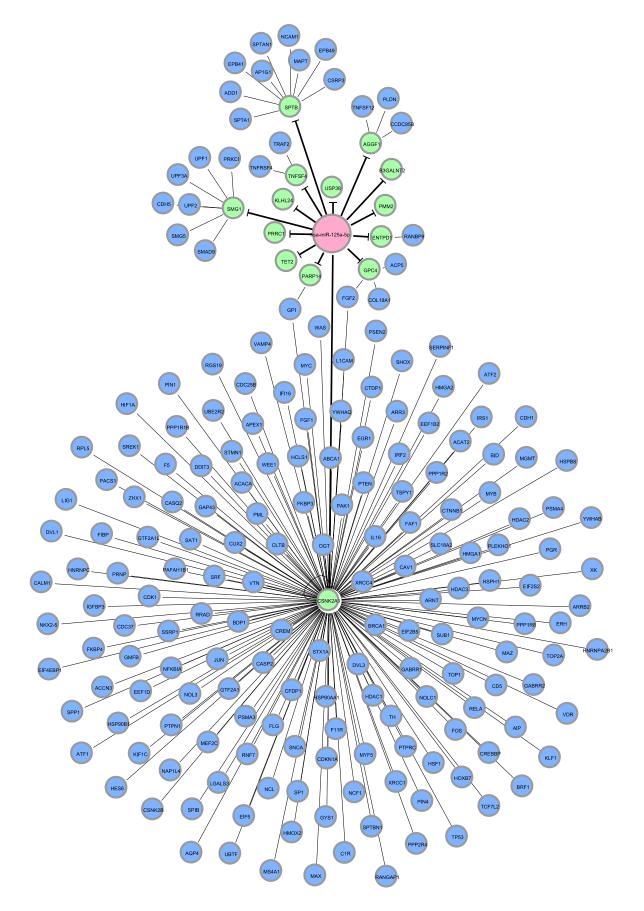


Figure S11. miRNA-regulated PINs. (hsa-miR-383 and hsa-miR-193b-3p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

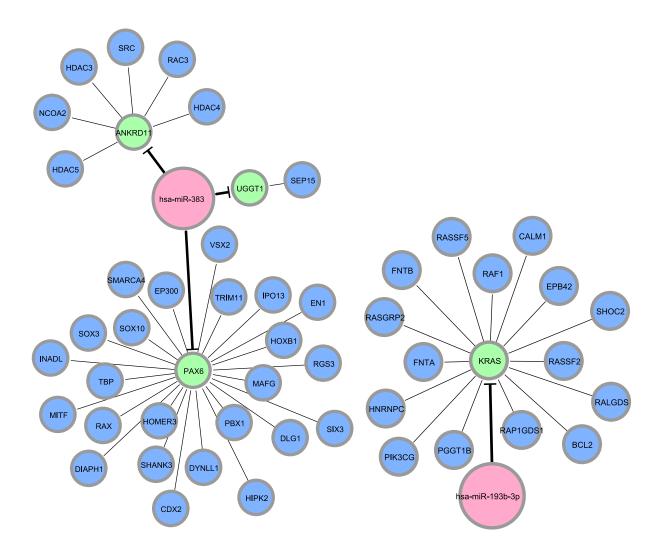


Figure S12. miRNA-regulated PIN. (hsa-miR-497-5p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

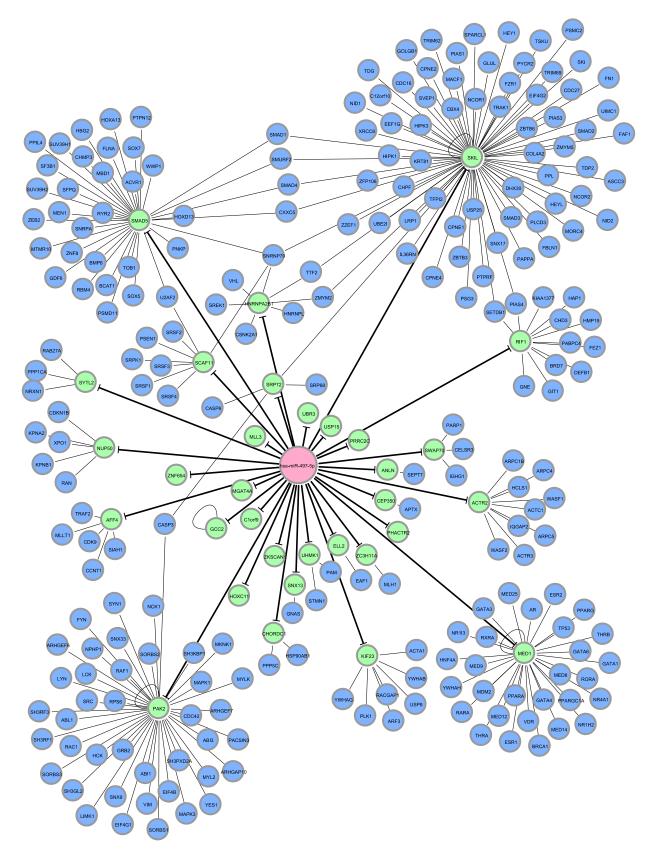


Figure S13. miRNA-regulated PIN. (hsa-miR-520d-3p). **Red**: miRNA; **green**: direct target of the miRNA; **blue**: proteins interacting with direct target of the miRNA.

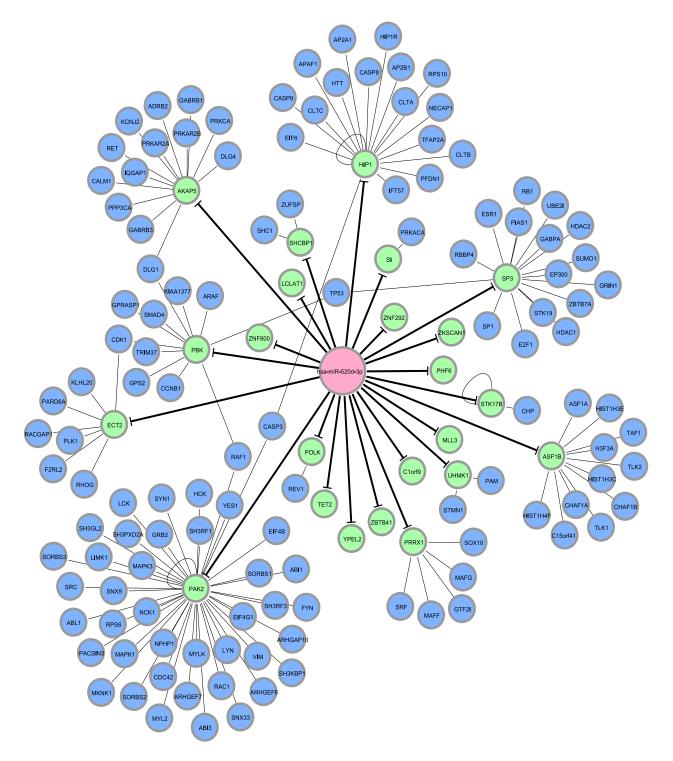
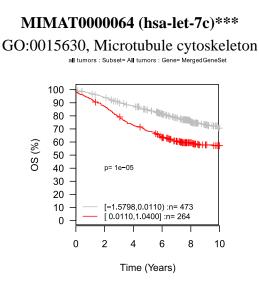
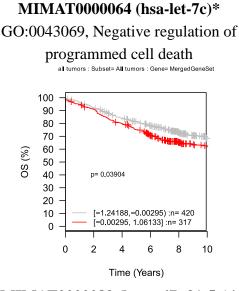
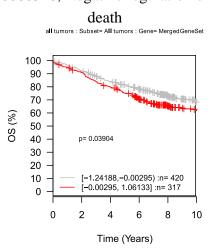


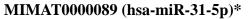
Figure S14. GOBO Kaplan-Meier survival curve of selected gene set with significant clinical outcome. (continue). The gene set was formed by selecting genes annotated with designated GO term in the miRNA-regulated PIN. Full GOBO Kaplan-Meier survival p-value were calculated and listed in Table 9. * p < 0.05; ** p < 0.01; *** p < 0.001.



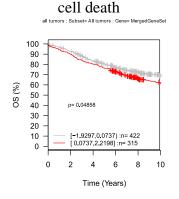


MIMAT0000064 (hsa-let-7c)* GO:0060548, Negative regulation of cell



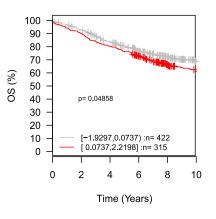


GO:0012502, Induction of programmed



MIMAT0000089 (hsa-miR-31-5p)*

GO:0006917, Induction of apoptosis all tumors : Subset = All tumors : Gene= MergedGeneSet



MIMAT0000423 (hsa-miR-125b-5p)*

GO:0015630, Microtubule cytoskeleton all tumors : Subset= All tumors : Gene= MergedGeneSet

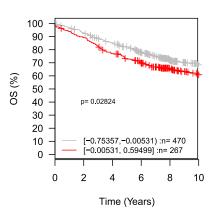
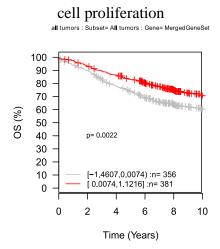
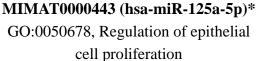


Figure S14. Cont.

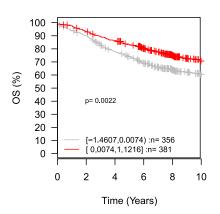
MIMAT0000423 (hsa-miR-125b-5p)**

GO:0050678, Regulation of epithelial



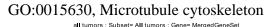


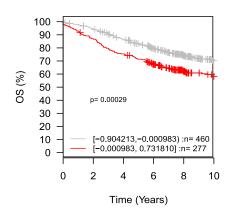




MIMAT0002856

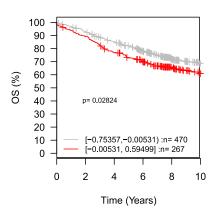
(hsa-miR-520d-3p)***





MIMAT0000443 (hsa-miR-125a-5p)*

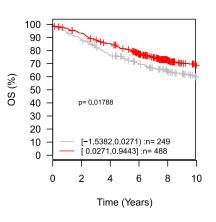
GO:0015630, Microtubule cytoskeleton all tumors : Subset= All tumors : Gene= MergedGeneSet



MIMAT0002820 (hsa-miR-497-5p)*

GO:0007179, Transforming growth factor

beta receptor signaling pathway all tumors : Subset= All tumors : Gene= MergedGeneSet



MIMAT0002856 (hsa-miR-520d-3p)*

GO:0048011, Nerve growth factor receptor signaling pathway

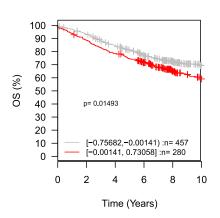
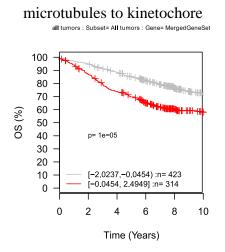


Figure S14. Cont.

MIMAT0002856 (hsa-miR-520d-3p)***

GO:0051988, Regulation of attachment of spindle



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