**Identification and validation of microRNAs that synergize with miR-34a – a basis for combinatorial microRNA therapeutics**

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**Supplemental Information.**

**Supplemental Figure 1:**

Testing and selection of H441 stable clones. H441 NSCLC cells were transfected with linearized pmiR-Glo (Promega). Individual clones were selected by culturing cells in the presence of G418 (see methods section). Resulting clones were assayed for both Firefly and Renilla activity. Clone 22 was used for all subsequent experiments. RLU: relative light units.

**Supplemental Figure 2:**

The five miR-34a-synergistic miRNAs were evaluated using miRPathDB v1.1. Significant pathways predicted to be influenced by the individual miRNAs were determined using KEGG. Bold text indicates pathways that overlap with the KEGG analysis presented in Figure 5.