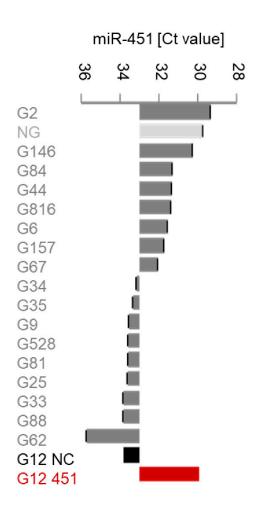
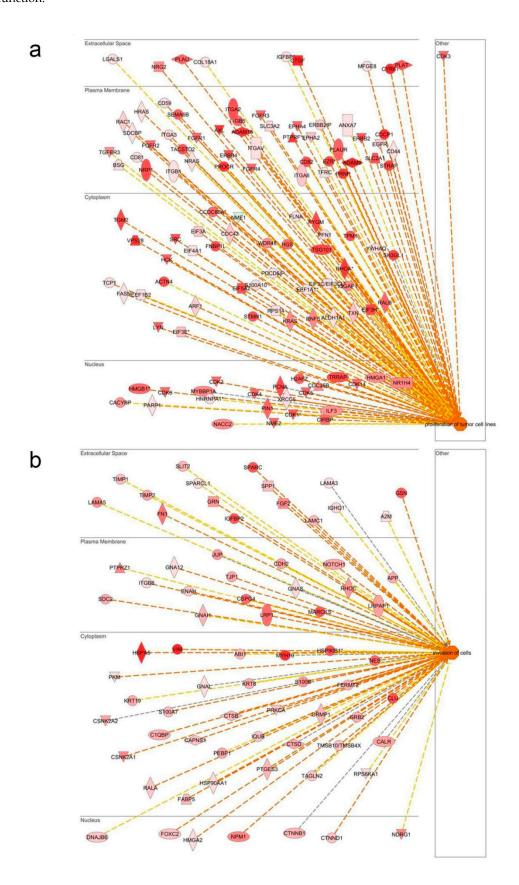




Supplementary Figure 1: The expression of miR-451 is variable in primary GBM cells. NG – neuroglia; GBM 12 carrying either control (NC) or miR-451 expressing vector. Ct values of qRT-PCR are shown.



Supplementary Figure 2. Gene expression analysis in nodular (\mathbf{A}) vs. invasive (\mathbf{B}) GSCs (n=8 independent GSCs, 4 per subclass; p< 0.05, fold>2) showing their cellular localization, network and function.



Supplementary Figure 3. AMPK network is the most prominent among 91 targeted genes (see Figure 5. (STRING software). Experimentally validated miR-451 targets are indicated by solid black line.

