

Description of Additional Supplementary Information

Title: Supplementary Data 1

Description: Differentially expressed gene sets in *Zeb1/Snail* OE compared to EV. Genes with $\log_2(\text{fold change}) > 1.5$ or < -1.5 and adjusted p value < 0.01 by RNA-seq analysis were listed.

Title: Supplementary Data 2

Description: *Irf6* signature gene sets. This signature was obtained from top ranked genes by a STAT value following the DESeq2 analysis of *Irf6* re-expressing Esc vs. EV Esc tumor cells.