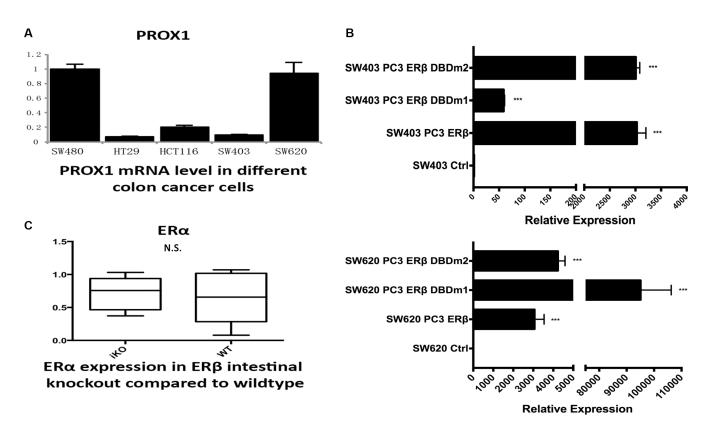
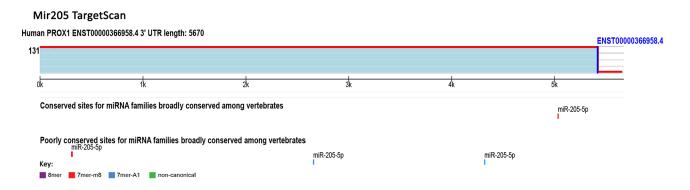
Estrogen receptor beta reduces colon cancer metastasis through a novel miR-205 - PROX1 mechanism

Supplementary Materials



Supplementary Figure S1: mRNA levels measured by qPCR. (A) PROX1 in different colorectal cancer cell lines. The inverse correlation between miR-205 and PROX1 mRNA levels (r = -0.44) were not significant (p = 0.09). (B) Expression of transiently transfected ERβ and ERβ-DBD mutant corroborated in SW403 and SW620 cell lines. (*P < 0.05, **P < 0.01, Student's *t*-test). C. Expression of ERα in colon epithelial scrape from intestine-specific ERβ knockout mice (iKO) and corresponding controls (WT) is not changed.



Supplementary Figure S2: Predicted miR-205 sites of PROX1 3'UTR using Targetscan. In this study we demonstrate that the site at position 291-313 nt 3' of the coding sequence (to the left in figure) *de facto* interacts with miR-205.

Supplementary Table S1: Correlation between ER β , Prox1, and miR-205 in ER β^{iKO} mouse colon tissue

	PROX1	miR-205
ERβ	-0.38 (p = 0.037)	$0.51 \ (p = 0.028)$
PROX1		-0.05 (p = 0.048)

Expression of ER β is correlated to miR-205 expression, while inversely correlated to *Prox1* expression. Correlations were analyzed using Pearson correlation, and considered significant if p < 0.05.