



*ROBO1 Extracellular Domain Fragments Increase Milk Production. (A-C) RT-qPCR shows significantly reduced expression of WAP (A), XDH (B) and CSN2 (C) in mock-injected Robo1^{-/-} compared to Robo1^{+/+} animals. There is significantly increased expression of WAP, CSN2 and a trending increase in XDH in Robo1^{+/+} animals injected with ROBO1 ECD-Fc (R1ECD). There is significantly increased expression of WAP, XDH and CSN2 in Robo1^{-/-} animals injected with ROBO1 ECD-Fc (R1ECD). (D-H) Immunohistochemistry (D-G) and quantification (H) demonstrates a significant decrease in milk protein expression in the mock-injected Robo1^{-/-} mammary gland tissue compared to control Robo1^{+/+} tissue and significant increases in milk protein expression with the injection of ROBO1 ECD-Fc (R1ECD) fragment into either Robo1^{+/+} or Robo1^{-/-} animals. (SEM, *p< 0.05, **p< 0.01, ***p < 0.001).*

APPLICATIONS

- ▶ milk production
- ▶ pharmaceutical intervention
- ▶ biopharmaceutical intervention
- ▶ transgenic animals
- ▶ RNAi

ADVANTAGES

- ▶ promotes milk production

INTELLECTUAL PROPERTY INFORMATION

Country	Type	Number	Dated	Case
China	Published Application	114401982	04/26/2022	2018-394
United States Of America	Published Application	2020-033967	10/29/2020	2018-394
Additional Patents Pending				