

Milk-derived miRNA profiles elucidate molecular pathways that underlie breast dysfunction in women with common genetic variants in *SLC30A2*

*Shannon L. Kelleher^{1,2,3}, Annie Gagnon¹, Olivia C. Rivera^{2,3}, Steven D. Hicks⁴, Molly C. Carney⁴, and Samina Alam³

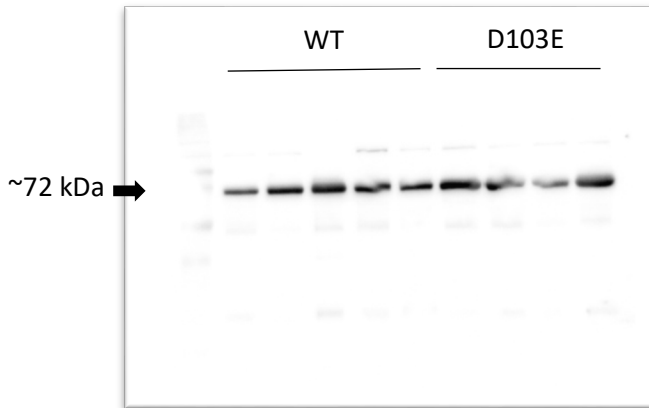
¹Department of Biomedical and Nutritional Sciences, University of Massachusetts Lowell, Lowell, Massachusetts, United States of America

²Department of Cellular and Molecular Physiology, Penn State Hershey College of Medicine, Hershey, Pennsylvania, United States of America

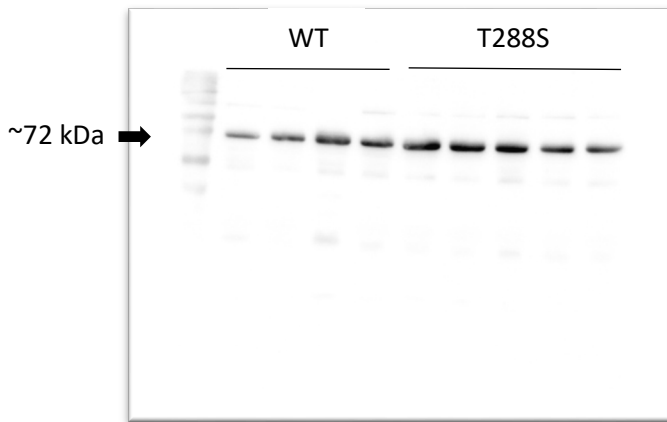
³Department of Surgery, Penn State Hershey College of Medicine, Hershey, Pennsylvania, United States of America

⁴Department of Pediatrics, Penn State Hershey College of Medicine, Hershey, Pennsylvania, United States of America

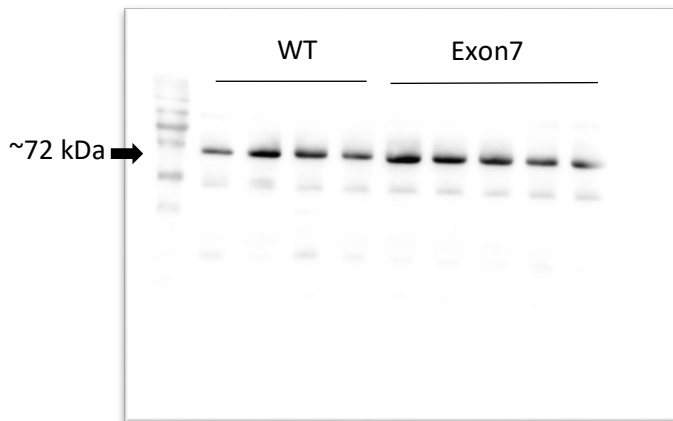
VAMP7 Milk



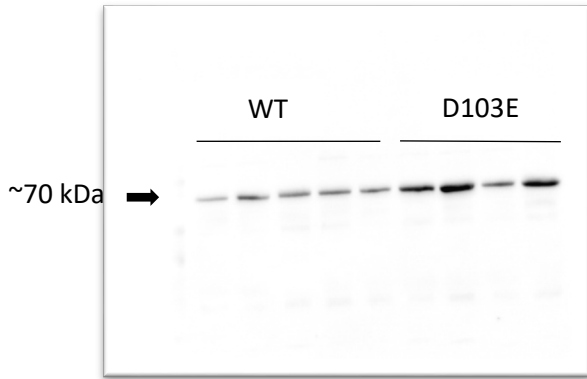
VAMP7 Milk



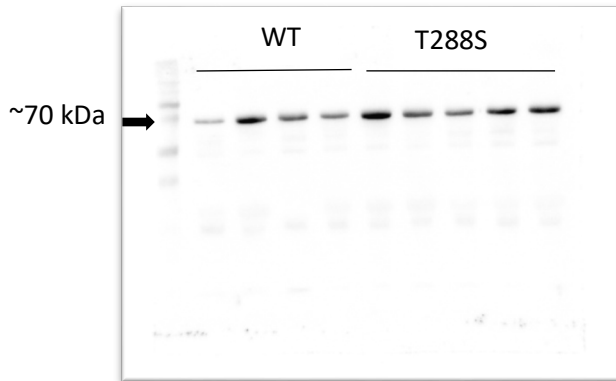
VAMP7 Milk



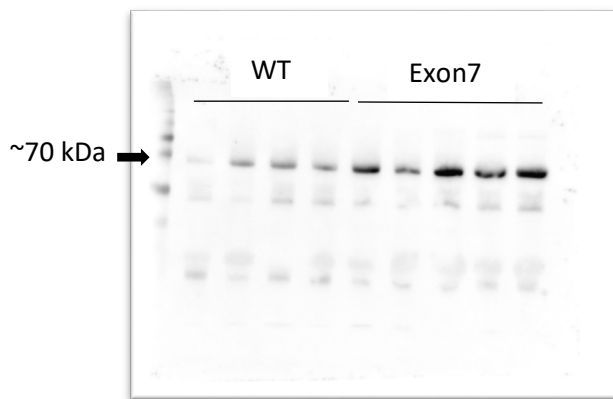
SOX4 Milk



SOX4 Milk



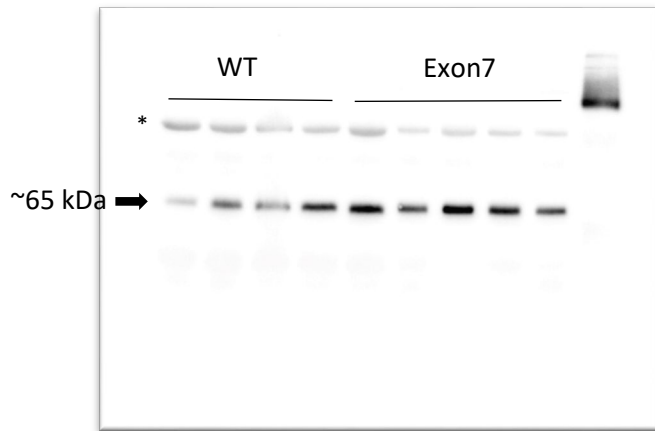
SOX4 Milk



PRLR Milk

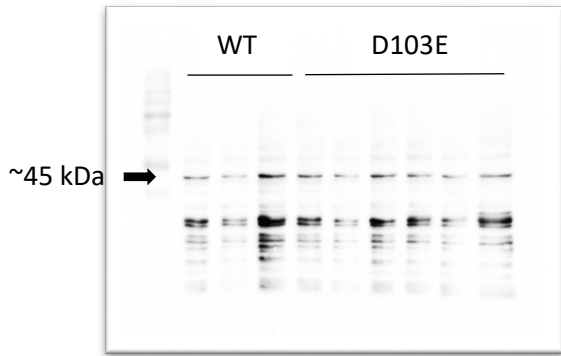


PRLR Milk

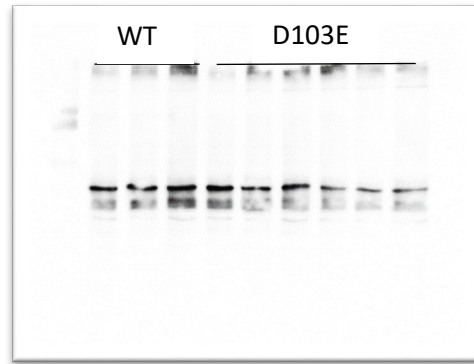


*>150 kDa

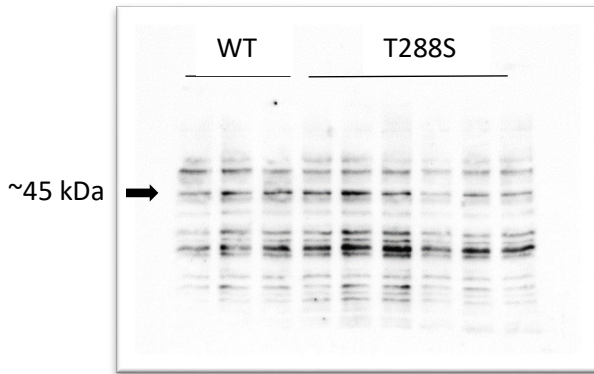
SOX4 cells



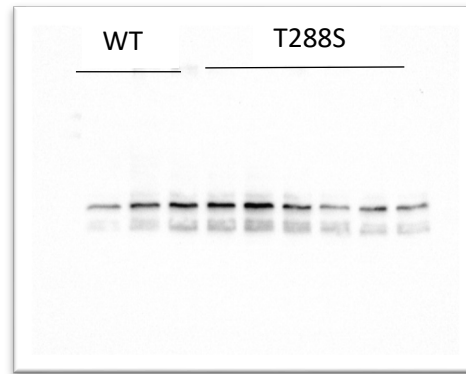
actin



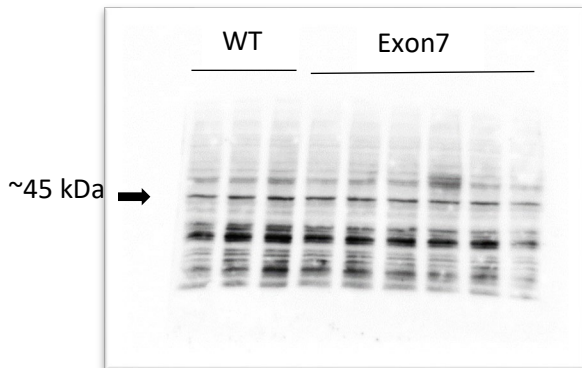
SOX4 cells



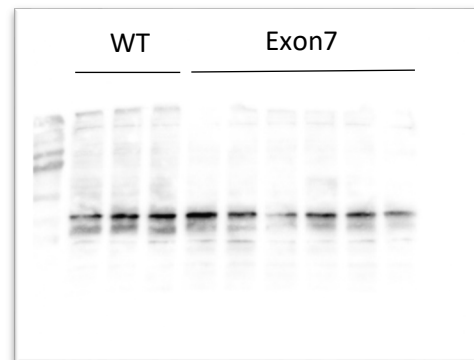
actin



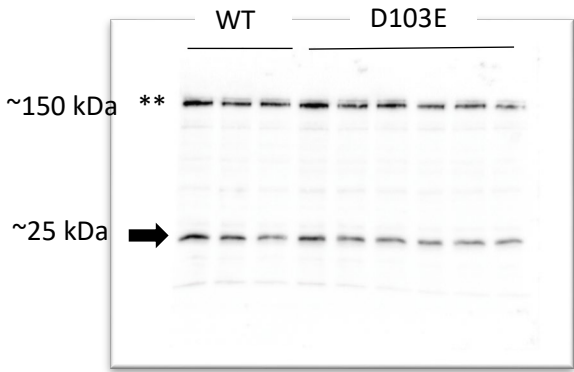
SOX4 cells



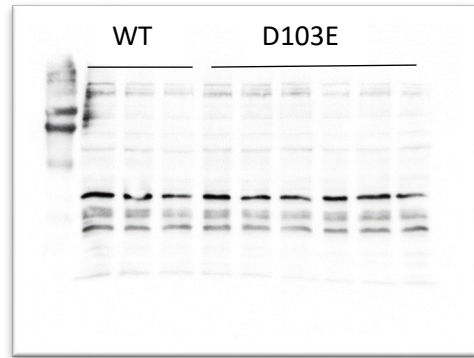
actin



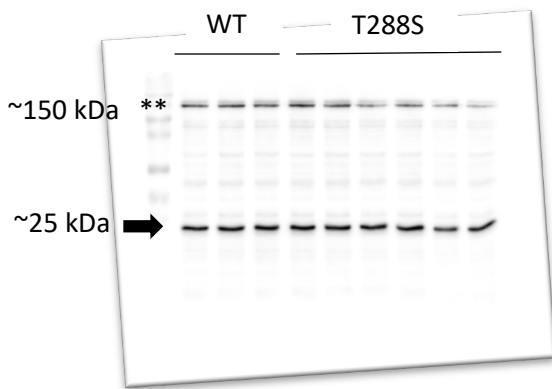
VAMP7 cells



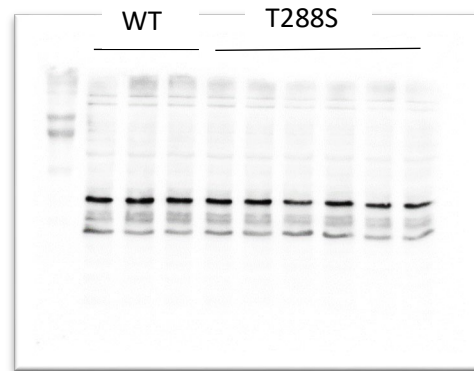
actin



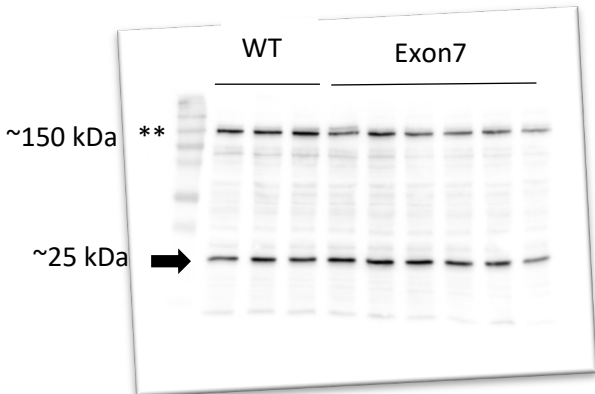
VAMP7 cells



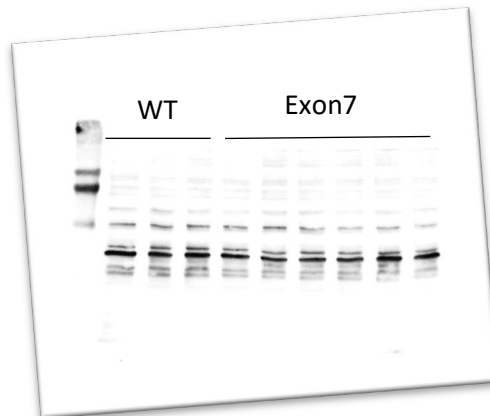
actin



VAMP7 cells



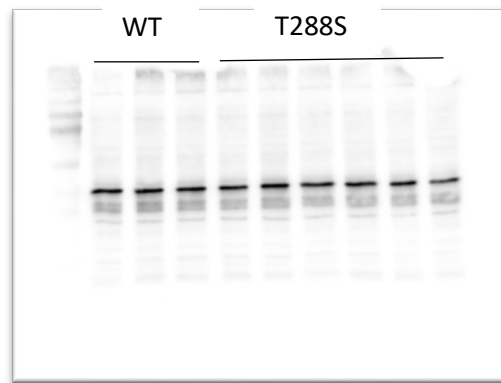
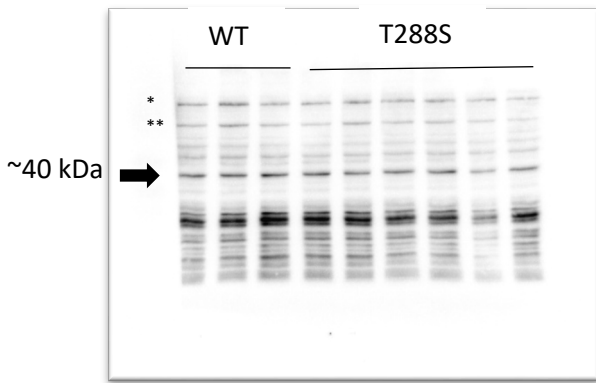
actin



** VAMP7 multimer of unknown function (Siddiqi et al, J Cell Sci, 2006)

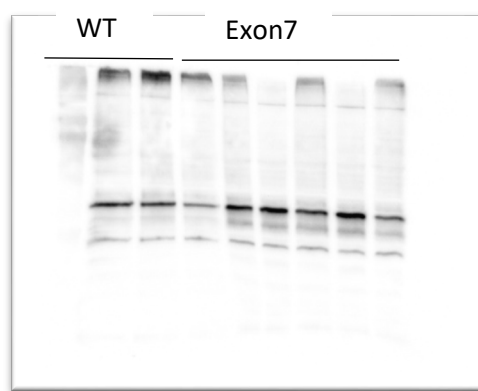
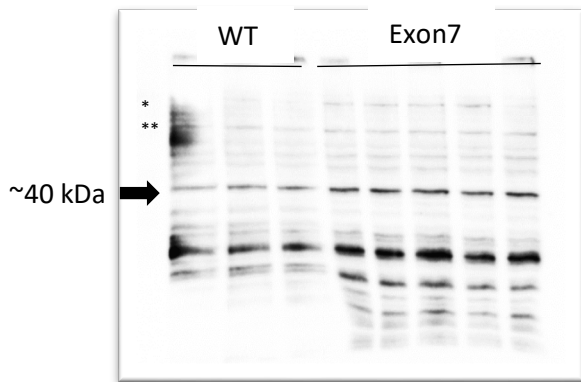
PRLR cells

actin



PRLR cells

actin



*Long form
**Intermediate form

} Expression pattern similar to short (40 kDa) form, but difficult to detect under these experimental conditions