

Resource Summary Report

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PCR-based assay for genotyping of the slick mutation in cattle

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Proper Citation

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Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.6kxhcxn>

Authors: Elizabeth Jannaman, M. Sofia Ortega, Tad S. Sonstegard, Peter Hansen

Group: University of Florida Bovine Embryo Lab

Summary: Several mutations exist in the prolactin receptor gene (PRLR) of cattle that cause a short, sleek haircoat.. The mutation is dominant so slick-haired cattle can have either one or two copies of the mutation. The assay described here detects the most-well studied mutation (SLICK1) that causes translation of a truncated PRLR of 461 amino acids. Originally described in Senepol cattle, this mutation has also been introduced into Holsteins in Puerto Rico, Florida and elsewhere. Note that the assay will not detect other mutations in PRLR that also cause the slick phenotype.

Affiliations: University of Florida , University of Missouri - Columbia, Recombinetics, Inc., University of Florida

External URL: https://animal.ifas.ufl.edu/hansen/lab_protocol_docs/SLICK.pdf

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