

CELTIC POLLED CATTLE- celtic polled alteration on bovine autosomal chromosome 1 not applicable

Acceligen

Celtic Polled Cattle

Identity: CRISPR-Cas12a editing with homology dependent repair in cattle to introduce two copies of the Celtic allele of Bos taurus chromosome 1 (NC_037328.1). The intended mutations resulted in presence of a known polled genotype variation already present within the species.

Claim: The homozygous Celtic allele will allow the introduction of a polled phenotype into horned cattle.

Product Use: Founder animals are intended for production and sale of semen to enable the establishment of polled herds, the progeny of which will be used as a food source.



PRLR-SLICK Cattle

Certificate of Animal Health & Identification

Animal Identification			
Ear Tag ID		Birth Date	
RFID		Dam ID	
Sex		Sire ID	

Pre-Shipment Veterinary Health Status Reviewed On: _____ Date

Genotype: Bos taurus g.[NC_037347.1] fs(39099129-39099368): PRLR gene edit by homology dependent repair or non-homologous end-joining repair as confirmed by Sanger/NGS sequence of PCR Amplicons

Specific off-targets identified in this founder animal, if any, are listed below based on target site sequencing:

PRLR_SLICK Cattle (Bos taurus g.[NC_037347.1] fs(39099129-39099368): PRLR gene edit by homology dependent repair or non-homologous end-joining repair)

Identity: CRISPR-Cas9 editing with or without homology dependent repair in heat-susceptible beef and/or dairy breeds to introduce mutations into at least one copy of the PRLR gene of Bos taurus chromosome 20 (NC_037347.1). The intended mutations generate a premature stop codon in the coding sequence resulting in a truncated PRLR protein and a SLICK coat phenotype.

Claim: Mutations causing PRLR protein truncation at or between amino acids 433 to 497 produce a SLICK coat phenotype that is reported to be linked to increased thermotolerance in Bos taurus species raised in sub-tropical environments.

Product Use: Founder animals are intended for production and sale of seed stock and/or embryos to enable the establishment of PRLR-SLICK thermotolerant beef and/or dairy herds that will be used as a food source. Due to the specific process used to produce these animals, they may have 2 or more genetically different sets of cells, and as a result the PRLR-SLICK thermotolerant phenotype may not be inherited by all first generation progeny.

Produced by Acceligen

For more information, contact:

Customer Support: 612-727-2000

Acceligen www.acceligen.com

600 County Rd D West Suite B
New Brighton, MN 55112 USA



PRLR-SLICK Cattle

INSTRUCTIONS FOR USE

1. Product Definition

1.1 Identity

CRISPR-Cas9 editing with or without homology dependent repair in heat-susceptible beef and/or dairy breeds to introduce mutations into at least one copy of the PRLR gene of Bos taurus chromosome 20 (NC_037347.1). The intended mutations generate a premature stop codon in the coding sequence resulting in a truncated PRLR protein and a SLICK coat phenotype.

1.2 Claim

Mutations causing PRLR protein truncation at or between amino acids 433 to 497 produce a SLICK coat phenotype that is reported to be linked to increased thermotolerance in Bos taurus species raised in sub-tropical environments.

2. Product Use

Founder animals are intended for production and sale of seed stock and/or embryos to enable the establishment of PRLR-SLICK thermotolerant beef and/or dairy herds that will be used as a food source. Due to the specific process used to produce these animals, they may have 2 or more genetically different sets of cells, and as a result the PRLR-SLICK thermotolerant phenotype may not be inherited by all first generation progeny.

3. Product Performance

Founder animals are generated using CRISPR-Cas9 gene editing and carry PRLR protein truncation coding sequence mutations that are similar to those that are known to produce the SLICK coat phenotype, which is part of the convergent adaptation phenomena commonly found in heritage Criollo cattle breeds that natively developed in the hot climates of the Caribbean, Central and South America. This SLICK coat phenotype is a well-established trait providing beneficial thermotolerance in cattle raised in sub-tropical environments.

4. Animal Safety

Founder animals are similar in weight and body size to non-modified cattle of the same breed, and growth kinetics up to six months are also similar to non-edited breed standards.

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Claim: Mutations causing PRLR protein truncation at or between amino acids 433 to 497 produce a SLICK coat phenotype that is reported to be linked to increased thermotolerance in Bos taurus species raised in sub-tropical environments.

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1.2 Claim

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2. Product Use

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3. Product Performance

Founder animals are generated using CRISPR-Cas9 gene editing and carry PRLR protein truncation coding sequence mutations that are similar to those that are known to produce the SLICK coat phenotype, which is part of the convergent adaptation phenomena commonly found in heritage Criollo cattle breeds that natively developed in the hot climates of the Caribbean, Central and South America. This SLICK coat phenotype is a well-established trait providing beneficial thermotolerance in cattle raised in sub-tropical environments.

4. Animal Safety

Founder animals are similar in weight and body size to non-modified cattle of the same breed, and growth kinetics up to six months are also similar to non-edited breed standards.

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Product Information

Product Type		Item Code (Source)	NDC:86251-001	
Route of Administration	NOT APPLICABLE			
Active Ingredient/Active Moiety				
	Ingredient Name	Basis of Strength	Strength	
	BOS TAURUS G.(NC_037328.1) DUP(2429109-2429320) + DEL(2429327-2429336) (UNII: MXA2P479Z3) (BOS TAURUS G.(NC_037328.1) DUP(2429109-2429320) + DEL(2429327-2429336) - UNII:MXA2P479Z3)	BOS TAURUS G.(NC_037328.1) DUP(2429109-2429320) + DEL(2429327-2429336)	1 [Amb'a'1'U] in 1 [Amb'a'1'U]	
Packaging				
#	Item Code	Package Description	Marketing Start Date	Marketing End Date
1	NDC:86251-001-01	1 [Amb'a'1'U] in 1 NOT APPLICABLE		
Marketing Information				
Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date	
unapproved drug other		03/09/2026		

Labeler - Acceligen (108237218)

Registrant - Acceligen (108237218)

Establishment			
Name	Address	ID/FEI	Business Operations
Recombinetics		829874523	manufacture

Revised: 3/2026

Acceligen