

Certagen GmbH | Marie-Curie-Str. 1 | D-53359 Rheinbach

LETORT Céline
Veaux -
63820 Laqueuille
Frankreich

Test Report

Order No.: 209832
Customer No.: D104493
Date of Receipt: 2018-01-16
Date of Analysis: 2018-02-07
Date of Report: 2018-02-08
Date of Print: 2018-02-08
No of Pages: 1

Analysis of the predisposition to dwarfism in Miniature Horses (ACAN D1, D2, D3, D4)

Name: Dakota Girl du Cap de la Coste
Lab-No.: 201800137 Identification: A222014
Gender: female Date of birth: 2013-04-19

Test	Inheritance	Result
ACAN	recessiv	Normal (N/N)

Remark: The analysis was performed by a partner laboratory.
In literature 4 mutations in the ACAN gene were described which are responsible for dwarfism in Miniature Horses. The genotypes D1/D1, D1/D2, D1/D3 and D1/D4 are lethal. Therefore, breeding with D1 carriers should be avoided.

Legend:
Normal: The animal does not carry the mutation. When used in breeding this animal will not spread the predisposition into the population.
Carrier: The animal is heterozygous for the predisposition. When used in breeding on average 50% of the offspring will inherit the mutated allele. Carriers (D1, D2, D3, D4) of the predisposition will not show dwarfism-like symptoms.
Affected: The animal has two mutated alleles and will be affected by disproportionate dwarfism. When used in breeding all offspring will inherit a mutated allele.
Lethal: Affected animals with a D1 genotype (D1/D1, D1/D2, D1/D3 or D1/D4) are not viable.
Unknown: The genotypes D3/D3 and D4/D4 have not been detected in any animal yet. Therefore, the effect of these mutations remains unclear.

Comment: -

Rheinbach, 2018-02-08

Please note:

Sampling and shipment has been done by the client. All results and identifications refer to the samples and information sent by the customer and cannot be verified by Certagen.

A report sent by Fax or E-Mail has no legal relevance. Only the signed, original report is valid.

You may not copy this report without the written authorization of Certagen GmbH.

() Dr. Jansen, Managing Director
() Dr. van Haeringen, Managing Director
() Dr. Weber, Proxy

Geschäftsführung:
Dr. Thomas Jansen
Dr. Wim van Haeringen

Steuernummer
222 / 5702 / 2219
FA Sankt Augustin
Ust-ID-Nr.: DE247730580

Registergericht
Bonn HRB 14504

Bankverbindung
IBAN: DE93370501981937009395
BIC: COLSDE33XXX
Institut: Sparkasse KölnBonn



VETERINARY GENETICS LABORATORY
SCHOOL OF VETERINARY MEDICINE
ONE SHIELDS AVENUE
DAVIS, CALIFORNIA 95616-8744

TELEPHONE: (530) 752-2211
FAX: (530) 752-3556

SKELETAL ATAVISM REPORT

<p>LETORT CÉLINE VEAUX 63820 LAQUEUILLE FRANCE</p>	<p>Case: NQ54723 Date Received: 13-Jan-2020 Print Date: 17-Jan-2020 Report ID: 5306-5486-3301-2019 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm</p>
<p>Name: DAKOTA Reg: YOB: Sex: Mare Breed: Miniature Horse</p>	

Skeletal Atavism Test Result

N/N



Interpretation of Results

N/N	Normal. No copies of the skeletal atavism mutations detected.
N/Del1	Carrier. 1 copy of a skeletal atavism mutation detected.
N/Del2	Carrier. 1 copy of a skeletal atavism mutation detected.
Del1/Del1	Affected. 2 copies of mutation detected.
Del2/Del2	Affected. 2 copies of mutation detected.
Del1/Del2	Affected. 2 copies of mutation detected.

Skeletal atavism (SA) is a heritable recessive defect of bone development that occurs in Shetland ponies and American Miniature horses. SA limb deformities progressively worsen with age and usually lead to euthanasia within six months.

For more information on Skeletal Atavism test, see
<https://www.vgl.ucdavis.edu/services/horse/SkeletalAtavism.php>
<http://www.capiletgenetics.com/en/skeletal-atavism-test-eng>