Certagen GmbH
Marie-Curie-Str. 1 Tel: 02226 / 871600 Mail: labor@certagen.de
53359 Rheinbach Fax: 02226 / 871604 Web: www.certagen.de

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

LETORT Céline
Veaux -
63820 Laqueuille
Frankreich

Test Report

Order No.:	215502
Customer No.:	WS 50245
Date of Receipt:	2018-07-06
Date of Analysis:	2018-07-27
Date of Report:	2018-07-30
Date of Print:	2018-07-30
No of Pages:	1

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

Name:	Grace N'Roses des Monts d'Auvergne		
Lab-No.:	201806727	Identification:	A225940
Gender:	female	Date of birth:	2016-03-12

Test	Inheritance	Result
ACAN	recessive	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 improved 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 improved, 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 improved or D1/D4) are not viable.
Unknown: The genotypes D3 improved /D3 improved and D4/D4 have not been detected in any animal yet. Therefore, the effect of these mutations remains unclear.

Comment: -

Rheinbach, 2018-07-30

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

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.

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UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

SKELETAL ATAVISM TEST REPORT

Provided Information:		*Case:*	**NQ58945**
Name:	**GRACE N ROSES DES MONTS D'AUVERGNE**	*Date Received:*	30-Jun-2020
Registration:	**A225940**	*Report Issue Date:*	10-Jul-2020
		Report ID:	9088-8354-6302-2095

Verify report at www.vgl.ucdavis.edu/verify

YOB: *Sex:* **Mare** *Breed:* **Miniature Horse**

Skeletal Atavism Result

N/N

Interpretation

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.