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Test Report

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

Name: Vendetta du Cap de la Coste
 Lab-No.: 201800134 Identification: A196585
 Gender: female Date of birth: 2009-06-22

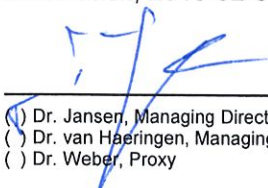
Test	Inheritance	Result
ACAN	recessiv	Normal (N/N)

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


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

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