



dr. van haeringen laboratorium b.v.  
a VHLGenetics company

Analysis Certificate

**Animal data**

Name: CRUZ CONTROL  
Date of birth: 23.11.2014  
Sexe: Male  
Reg. nr.: PUPJE ZWART  
Breed: German Shepherd

**Sample data**

VHL\_ID: H72334  
Test ID-nr: 72198 13  
Material: Swab

**H806 - DM - Date of test: 23.12.2014**

Testresult: NORMAL

W.A. van Haeringen, PhD  
Executive Director

**H806 - DM**

Explanation about the result:

**NORMAL:** The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

**CARRIER:** The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

**AFFECTED:** The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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(Certificate nr: H16546/Date of issue: 22.12.2015)

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Analysis Certificate

Animal data

Name: CRUZ CONTROL  
Date of birth: 23.11.2014  
Sexe: Male  
Reg. nr.: PUPJE ZWART  
Breed: German Shepherd

Sample data

VHL\_ID: H76319  
Test ID-nr: 77124 1  
Material: Swab

H872 - Pituitary Dwarfism - Date of test: 16.01.2015

Testresult: NORMAL

W.A. van Haeringen, PhD  
Executive Director

H872 - Pituitary Dwarfism

Explanation about the result:

**NORMAL:** The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

**CARRIER:** The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

**AFFECTED:** The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

**NO RESULT:** The genetic test for this mutation is known to exist in a few breeds. This may lead to a situation where the test does not produce a result. In such cases, it is not possible to determine whether an animal is free, carrier or affected for this mutation.

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(Certificate nr: H16349/Date of issue: 17.12.2015)

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