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Ms.  
Dea Vemming  
Dommerengen 12  
3200 Helsingø  
Dänemark

**Report No.:** **2007-W-80224**  
Date of arrival: 31-07-2020  
Date of report: 03-08-2020  
Testing started: 31-07-2020  
Testing completed: 03-08-2020

Species:	Dog
Breed:	Rhodesian Ridgeback
Gender:	Female
Name:	Juani Bayani Etosha
Stud book No.:	DK08792/2018
Chip No.:	208210000653844
Date of birth / Age:	20-04-2018
Type of sample:	Swab
Date sample was taken:	27-07-2020
Sampler:	DVM Louise Hellenberg
Owner / Animal-ID:	Vemming, Dea
IT No. / Report-ID:	---

## **Degenerative Myelopathy - PCR**

Result: Genotype N/N (exon 2)

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the high-risk factor for DM in exon 2 of the SOD1-gene.

Trait of inheritance: autosomal-recessive

Please note: In the Bernese Mountain Dog breed the mutation in exon 1 of the SOD1-gene also occurs in correlation with DM.

## **Hemophilia B (Factor IX) - PCR**

Result: Genotype female X(N)/X(N), male X(N)/Y

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Hemophilia B in the FIX-gene.

Trait of inheritance: X chromosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Rhodesian Ridgeback

**Juvenile Myoclonic Epilepsy (JME)**

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for JME in the DIRAS1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Rhodesian Ridgeback

**D-locus D1 (dilution)**

Result: Genotype D/d1

Interpretation: The examined animal is heterozygous for the D and d1 allele if no additional d variant is present.

The test detects the alleles D and d1

Allelic series: D dominant over d1

Please note: Additional d variants have to be considered to fully evaluate the characteristic of dilution.

Please note:

A further causative mutation for dilution (d2) has been found in the following breeds:

Chow Chow, Sloughi, Thai Ridgeback

The additional mutation might be responsible for dilution in further breeds.

**B-locus (brown, chocolate, liver(nose))**

The genetic analysis of the B-locus includes the four recessive, causative variants described so far as the alleles bd, bc, bs, and b4 as well as the dominant form as allele B.

**Variant bd**

Result for bd: Genotype B/B

Interpretation: No bd allele was found for this sample.

**Variant bc**

Result for bc: Genotype B/B

Interpretation: No bc allele was found for this sample.

**Variant bs**

Result for bs: Genotype B/B

Interpretation: No bs allele was found for this sample.

**Variant b4**

Result for b4: Genotype B/B

Interpretation: No b4 allele was found for this sample.

Allelic series: B dominant over bd, bc, bs and b4

If the animal is homozygous for the causative variant, black pigment (eumelanin) is lightened, and the animal appears brown in the areas that were originally black.

If the animal is heterozygous for several causative variants, it is not possible to determine to what degree these will influence the eumelanin. Dark areas may be black or brown.

Cocoa is an additional known variant for brown coat colour in French Bulldogs, that can be tested genetically. Presumably, more genetic variants causing brown in small breeds exist. Those variants cannot be analysed by any genetic test yet.

The current result is only valid for the sample submitted to our laboratory. The sender is responsible for the correct information regarding the sample material. The laboratory can not be made liable. Furthermore, any obligation for compensation is limited to the value of the tests performed.

There is a possibility that other mutations may have caused the disease/phenotype. The analysis was performed according to the latest knowledge and technology.

The laboratory is accredited for the performed tests according to DIN EN ISO/IEC 17025:2005. (except partner lab tests).

### **Sampling:**

The following impartial person (veterinarian, breed warden, or similar) signed the form for the sampling and identity check of the animal:

### **DVM Louise Hellenberg**

These results are based on the sample material submitted to our laboratory.

This was suitable if not stated otherwise. The submitter is responsible for the accuracy of the information regarding the sample. This report can only be transmitted in toto and unchanged. Doing otherwise requires written permission from Laboklin GmbH & Co. KG.

Fr. MSc Michelle Meißler  
Abt. Molekularbiologie

**\*\*\* END of report \*\*\***



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