



GENETIC CERTIFICATE

Ms Erika BROMOSE

Dystedvej 24
4684 Holmegaard
DENMARK

Name : **Fruenshoj's Adorable
Rufus**

Breed : **Bernese Mountain Dog**

ID Number : **208 250 000 031 985**

Pedigree Number : **DK 06140/2014**

Gender : **Male**

Birth date : **04/04/2014**

Owner :

BROMOSE Erika

4684 Holmegaard (DK)

Customer Nb : C73578

Sample Number : **485 527** (Authenticated)

Sample type : Blood sample

Sample date : 26/01/2016

Request date : 29/01/2016

Sampler veterinarian :

SCHJOTH Brigitte

4623 Lille Skensved (DK)

Official number : **2352**

File Nu. : 113 680

Animal Number : 133 747

Result code : 206702

Degenerative Myelopathy (DM-sod1a)

Result : **Mutated homozygous**

Interpretation : The animal has 2 defective copies of the SOD1A allele . The animal will develop the form of Degenerative Myelopathy associated to the tested mutation. The animal will transmit the genetic anomaly to 100% of its progeny.

Result established on 04/02/2016

Certificate issued on 24/02/2016

Lina Muselet
Genetics Engineer

Explanation

This test is specific to Degenerative Myelopathy in Bernese Mountain dog. This disorder is inherited as an autosomal recessive trait. This test relies on the detection of the c.118G>A mutation in the SOD1 gene (Awano et al. 2009). This test can not be used to detect other forms of degenerative myelopathy, nor other hereditary forms of neurological diseases, nor other neurological disorders acquired during the life span of the animal. An another DNA test (DM-sod1B) is available to detect an other form of Degenerative Myelopathy in this breed

The laboratory ANTAGENE puts at its disposal all resources and means necessary with regards to reliability, quality assurance, and traceability in order to guarantee a result of 99% accuracy.