



## GENETIC CERTIFICATE

Name : **Qashqai Vom Moosmüllli**

**Ms Karin NEFF**  
Paradiesstrasse 48  
9404 Rorschacherberg  
SWITZERLAND

Breed : **Bernese Mountain Dog**

ID Number : **756 097 200 099 561**

Pedigree Number : **734631**

Gender : **Male**

Birth date : **10/05/2015**

Owner :

**NEFF Karin**

9404 Rorschacherberg (CH)

Customer Nb : C79350

Sample Number : **495 318** (Authenticated)

Sample type : Blood sample

Sample date : 12/08/2016

Request date : 16/08/2016

Sampler veterinarian :

**KRAMERS Paul**

CH-8050 Zurich (CH)

Official number :

File Nu. : 121 855

Animal Number : 143 572

Result code : 231731

### Degenerative Myelopathy (DM-sod1a)

Result : **Heterozygous**

Interpretation : The animal has 1 normal copy and 1 defective copy of the SOD1A allele. The animal will not develop the form of Degenerative Myelopathy associated to this single mutation. Statistically the animal will transmit the genetic anomaly to 50% of its progeny. An another DNA test (DM-sod1b) is available to detect an other form of Degenerative Myelopathy in this breed. Dogs heterozygous for both SOD1A and SOD1B may also develop a Degenerative Myelopathy associated to this double heterozygosity.

Result established on 18/08/2016

Certificate issued on 18/08/2016

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.