

Canine Genetic Health Certificate™

Call Name:

Rose Bud

Laboratory #:

137462

Registered Name:

Registration #:

Breed:

Bernese Mountain Dog

Certificate Date:

June 17, 2019

Sex:

Female

DOB:

Sept. 2015

This canine's DNA showed the following genotype(s):

| | - | | | |
|---|------------|----------|----------------|---|
| Disease | Gene | Genotype | Interpretation | |
| Degenerative Myelopathy | SOD1 | WT/M | Carrier | |
| Degenerative Myelopathy (Bernese Mountain Dog Type) | SOD1 | WT/WT | Normal (clear) | |
| Von Willebrand Disease I | <i>VWF</i> | WT/WT | Normal (clear) | 1 |

WT, wild type (normal); M, mutant; Y, Y chromosome (male)

Helm Smith

Helen F Smith, PhDAssistant Laboratory Director

Christina J Ramirez, PhD, DVM, DACVP Medical Director

Chto

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results. Genetic counseling is available at Paw Print Genetics.



220 E. Rowan, Suite 220 Spokane, Washington 99207 www.pawprintgenetics.com (509) 483-5950

Laboratory Report

Laboratory #:

137462

Call Name:

Rose Bud

Order #:

60683

Registered Name: Breed:

*

Ordered By: Ordered:

Janet Best May 28, 2019

Sex:

Bernese Mountain Dog Female

Received:

June 5, 2019

DOB:

Sept. 2015

Reported:

June 17, 2019

Registration #:

. .

Results:

| Disease | Gene | Genotype | Interpretation |
|---|------------|----------|----------------|
| Degenerative Myelopathy | SOD1 | WT/M | Carrier |
| Degenerative Myelopathy (Bernese Mountain Dog Type) | SOD1 | WT/WT | Normal (clear) |
| Von Willebrand Disease I | VWF | WT/WT | Normal (clear) |

WT, wild type (normal); M, mutant; Y, Y chromosome (male)

Interpretation:

Molecular genetic analysis was performed for three specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in two of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these two mutations. However, we identified one normal copy and one mutant copy of the DNA sequences for *SOD1*. Thus, this dog is a carrier of Degenerative Myelopathy.

Recommendations:

Degenerative Myelopathy is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *SOD1* gene, this dog is a carrier of this disease. Although dogs that carry only one copy of this mutation will not be clinically affected, if bred with another carrier, the pairing could produce affected offspring. To avoid producing affected offspring, this dog should be bred with dogs that are normal (WT/WT) for this gene. Dogs related to this dog have an increased risk to be affected by or carry the mutated gene. Additional testing for this mutation is indicated for related dogs.

Paw Print Genetics[®] has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.

Helen F Smith, PhD

Helm Shouth

Assistant Laboratory Director

Christina J Ramirez, PhD, DVM, DACVP

Medical Director

Cht

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