

AMERICAN KENNEL CLUB

NAME

WOODLAND ACRES MILLY

BREED

BERNESE MOUNTAIN DOG

COLOR

BLACK RUST & WHITE

SIRE

HIGH TOP MAX

WS60932606 08-19 (AKC DNA #V912181)

DAM

NOBLE LANE SASHA

WS61118608 08-19

BREEDER

WAYNE TROYER

OWNER

ADEN MILLER

4503 TOWNSHIP ROAD 606

FREDERICKSBURG OH 44627-9604

NUMBER

WS68473304

SEX

FEMALE

DATE OF BIRTH

MAY 19, 2020



AMERICAN  
KENNEL CLUB

CERTIFICATE ISSUED  
AUGUST 10, 2020

*This certificate invalidates all previous certificates.*

If a date appears after the name and number of the sire and dam, it indicates the issue of the Register in which the sire or dam is published.

For Transfer Instructions, see back of certificate.

*This Certificate issued with the right to be voided or revoke by the American Kennel Club.*

REGISTRATION CERTIFICATE

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

WOODLAND ACRES MILLY  
*registered name*

WS68473304  
*registration no.*



BERNESE MOUNTAIN DOG  
*breed*

F  
*sex*



5/19/2020  
*date of birth*

37  
*age at evaluation in months*

A Not-For-Profit Organization

*tattoo/microchip/DNA profile*

2469964  
*application number*

7/13/2023  
*date of report*

BMD-EL16739F37-C-NOPI  
*O.F.A. NUMBER*

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

**RESULTS:**

Based upon the radiograph submitted, the consensus was that no evidence of elbow dysplasia was recognized.

NORMAL

OFA Certificate



Verify with QR Scan

*G.G. Keller, D.V.M.*

G.G. KELLER, D.V.M., M.S., DACVR  
CHIEF OF VETERINARY SERVICES

owner

ADEN MILLER  
4503 TOWNSHIP ROAD 606  
FREDERICKSBURG, OH 44627

www.ofa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

WOODLAND ACRES MILLY  
*registered name*

WS68473304  
*registration no.*



BERNESE MOUNTAIN DOG  
*breed*

F  
*sex*



5/19/2020  
*date of birth*

37  
*age at evaluation in months*

A Not-For-Profit Organization

*tattoo/microchip/DNA profile*

2469964  
*application number*

7/13/2023  
*date of report*

BMD-26721G37F-C-NOPI  
*O.F.A. NUMBER*

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

**RESULTS:**

Based upon the radiograph submitted, the consensus was that no evidence of hip dysplasia was recognized. The hip joint conformation was evaluated as:

GOOD

OFA Certificate



Verify with QR Scan

*G.G. Keller, D.V.M.*

G.G. KELLER, D.V.M., M.S., DACVR  
CHIEF OF VETERINARY SERVICES

owner

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FREDERICKSBURG, OH 44627

www.ofa.org

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

WOODLAND ACRES MILLY  
*registered name*

BERNESE MOUNTAIN DOG  
*breed*

*film/test/lab #*

900233004101486  
*tattoo/microchip/DNA profile*

2469964  
*application number*

05/13/2026  
*date of report*

**RESULTS:**

Normal cardiovascular examination via auscultation - No evidence of congenital or acquired heart disease was noted. Since acquired heart disease may develop later, these evaluation results remain valid for one year, and annual examinations are recommended to continue to monitor cardiac health.

WS68473304  
*registration no.*

F  
*sex*

05/19/2020  
*date of birth*

71  
*age at evaluation in months*



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BMD-BCA3093/71F/C-VPI  
*O.F.A. NUMBER*

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revoke by the Orthopedic Foundation for Animals.*

NORMAL/CLEAR - CARDIOLOGIST

**owner**  
ADEN MILLER  
4503 TOWNSHIP ROAD 606  
FREDERICKSBURG OH 44627



G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 05/13/2026

This certification can be verified on the OFA website by entering the animal's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFA.ORG](mailto:CORRECTIONS@OFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

WOODLAND ACRES MILLY  
*registered name*

BERNESE MOUNTAIN DOG  
*breed*

*film/test/lab #*

900233004101486  
*tattoo/microchip/DNA profile*

2469964  
*application number*

05/27/2026  
*date of report*

**RESULTS:**

DEGENERATIVE MYELOPATHY (DM): N/N, TWO NORMAL COPIES OF THE GENE ASSOCIATED WITH DM SUSCEPTIBILITY

*These results are based on the EMBARK laboratory report and the owner's certification that the sample provided was from the animal described above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results.*

**owner**

ADEN MILLER  
4503 TOWNSHIP ROAD 606  
FREDERICKSBURG OH 44627

OFA eCert



Verify QR scan

WS68473304  
*registration no.*

F  
*sex*

05/19/2020  
*date of birth*

23  
*age at evaluation in months*



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BMD-DM3728/23F-PI  
*O.F.A. NUMBER*

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Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

WOODLAND ACRES MILLY  
*registered name*

BERNESE MOUNTAIN DOG  
*breed*

426313  
*film/test/lab #*

900233004101486  
*tattoo/microchip/DNA profile*

2469964  
*application number*

05/27/2026  
*date of report*

**RESULTS:**

**Degenerative Myelopathy B (DMB): Clear/Normal for the SOD1B Mutation**

*These results are based on the GENSOL DIAGNOSTICS laboratory report and the owner's certification that the sample provided was from the animal described above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results.*

**owner**

ADEN MILLER  
4503 TOWNSHIP ROAD 606  
FREDERICKSBURG OH 44627

OFA eCert



Verify QR scan

WS68473304  
*registration no.*

F  
*sex*

05/19/2020  
*date of birth*

36  
*age at evaluation in months*



A Not-For-Profit Organization

**BMD-DMB593/36F-PI**  
**O.F.A. NUMBER**

*This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.*

G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

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WOODLAND ACRES MILLY  
*registered name*

BERNESE MOUNTAIN DOG  
*breed*

*film/test/lab #*

900233004101486  
*tattoo/microchip/DNA profile*

2469964  
*application number*

05/27/2026  
*date of report*

*RESULTS:*

VON WILLEBRAND'S (VWD): N/N CLEAR

WS68473304  
*registration no.*

F  
*sex*

05/19/2020  
*date of birth*

23  
*age at evaluation in months*



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BMD-VW1758/23F-PI  
*O.F.A. NUMBER*

*This number issued with the right to correct or  
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*owner*

ADEN MILLER  
4503 TOWNSHIP ROAD 606  
FREDERICKSBURG OH 44627

OFA eCert



Verify QR scan

G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

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Phone number: 573-442-0418  
Fax number: 573-875-5073



## CERTIFICATE OF RESULTS

**OWNERS NAME:** ARIE MILLER  
**PET'S NAME\*\*:** MILLIE

**PET'S REGISTRATION #:** NOT PROVIDED  
**PET'S BREED:** BERNESE MOUNTAIN DOG  
**TEST:** SOD1B DEGENERATIVE MYELOPATHY  
**DATE:** 6/28/2023

### Test Score Explanation:

(CLEAR/NORMAL): These dogs have two copies of the normal gene and will not develop degenerative myelopathy due to this mutation.

### TEST SCORE\*:

**A**

**SAMPLE ID #:**

**426313**

For detailed result explanation  
please visit our website:

[www.GenSolDx.com](http://www.GenSolDx.com)

\*All samples submitted to GenSol become the property of GenSol and may be used for internal quality control and/or research purposes. Test results provide information concerning a pet's DNA sequence and are not an indication or guarantee of pet's disease state or condition. Test results alone should not be used to diagnosis, treat or prevent disease.

\*\*GenSol warrants its test results to be accurate for the sample obtained from the above dog. In the event of a valid claim, owner's sole remedy is a refund of the fee paid. IN NO EVENT SHALL GEN SOL BE LIABLE FOR INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND. Any claim must be asserted within one year of the report of test results.

**Please consult a licensed veterinarian  
to discuss the implications of the above test results.**

125 North Main Street Unit 1846, Clayton, GA 30525

1-844-369-3686 - [info@Gensoldx.com](mailto:info@Gensoldx.com)

**WWW.GENSOLDX.COM**

## BREED ANCESTRY

 **Bernese Mountain Dog : 100.0%**

## GENETIC STATS

Predicted adult weight: **79 lbs**

Genetic age: n/a (Date of birth unknown)

## TEST DETAILS

Kit number: EM-16358915

Swab number: 31210751803218

## HEALTH REPORT

### How to interpret Millie's genetic health results:

If Millie inherited any of the variants that we tested, they will be listed at the top of the Health Report section, along with a description of how to interpret this result. We also include all of the variants that we tested Millie for that we did not detect the risk variant for.

### A genetic test is not a diagnosis

This genetic test does not diagnose a disease. Please talk to your vet about your dog's genetic results, or if you think that your pet may have a health condition or disease.



### Good news!

Millie is not at increased risk for the genetic health conditions that Embark tests.

**Breed-Relevant Genetic Conditions**

**2 variants not detected**



**Additional Genetic Conditions**



**217 variants not detected**



## BREED-RELEVANT CONDITIONS TESTED



**Millie did not have the variants that we tested for, that are relevant to her breed:**

-  Von Willebrand Disease Type I, Type I vWD (VWF)
-  Degenerative Myelopathy, DM (SOD1A)

## INBREEDING AND DIVERSITY

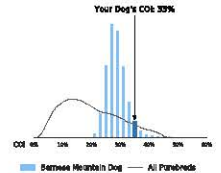
### CATEGORY

### RESULT

#### Coefficient Of Inbreeding

Our genetic COI measures the proportion of your dog's genome where the genes on the mother's side are identical by descent to those on the father's side.

33%

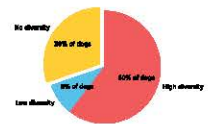


#### MHC Class II - DLA DRB1

A Dog Leukocyte Antigen (DLA) gene, DRB1 encodes a major histocompatibility complex (MHC) protein involved in the immune response. Some studies have shown associations between certain DRB1 haplotypes and autoimmune diseases such as Addison's disease (hypoadrenocorticism) in certain dog breeds, but these findings have yet to be scientifically validated.

#### No Diversity

How common is this amount of diversity in purebreds:



#### MHC Class II - DLA DQA1 and DQB1

DQA1 and DQB1 are two tightly linked DLA genes that code for MHC proteins involved in the immune response. A number of studies have shown correlations of DQA-DQB1 haplotypes and certain autoimmune diseases; however, these have not yet been scientifically validated.

#### No Diversity

How common is this amount of diversity in purebreds:

