

AMERICAN KENNEL CLUB

NAME

M&R TAMMY

NUMBER

WS69123603

BREED

BERNESE MOUNTAIN DOG

SEX

FEMALE

COLOR

BLACK RUST & WHITE

DATE OF BIRTH

JUNE 21, 2020

SIRE

HEMI OF HIGH COUNTRY

WS51270802 (06/17) AKC DNA #V858815

DAM

MISTY FLORAL BREEZE

WS57555704 (02/20) OFA31G

BREEDER

MRS. REBEKAH R ZIMMERMAN

OWNER

ANGELA R MILLER



**AMERICAN
KENNEL CLUB®**

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

This certificate issued with the right to correct or revoke by the American Kennel Club.

REGISTRATION CERTIFICATE

AMERICAN KENNEL CLUB · FOUNDED 1884

Certified Pedigree

Sire **HEMI OF HIGH COUNTRY**
WS51270802 (06-17) BLK RST & WH AKC
DNA #V858815

M&R TAMMY
WS69123603
BERNESE MOUNTAIN DOG FEMALE BLK RST & WH
Date Whelped: 06/21/2020
Breeder: MRS. REBEKAH R ZIMMERMAN

Dam **MISTY FLORAL BREEZE**
WS57555704 (02-20) OFA31G BLK RST &
WH



**AMERICAN
KENNEL CLUB®**

Guina DiNardo
Executive Secretary

The Seal of The American Kennel Club affixed hereto certifies that this pedigree was compiled from official Stud Book records on March 4, 2022.

**CH BLACK MOUNTAIN BERNER
HANSEL**
WS45239904 (01-15) OFA26G OFEL26
BLK RST & WH AKC DNA #V735733

HEMINGWAYH KATIE LOU
WS35508001 (05-12) BLK RST & WH

BREEZY RIDGE BLAKE
WS45433604 (06-15) OFA31G OFEL31
BLK RST & WH AKC DNA #V794812

MAYLEE
WS40049701 (01-17) BLK RST & WH

**GCHB CH SNOWBIZ'S BLACKMOUNTAIN
BERNER SCHULTZ**
WS39106804 (01-13) OFA25G OFEL25 BLK
RST & WH AKC DNA #V670308

BLACKMOUNTAIN BERNERS LEAH
WS37414305 (01-14) OFA57G OFEL57 BLK
RST & WH

HEMINGWAYH VAN 'T PACHTHOF
WS30593101 (03-10) BLK TN & WH (BEL)
AKC DNA #V586333

KATIE LOU VALENTINE
WS09425301 (04-06) OFA29G BLK RST & WH

SKYVIEWS TINY BEAR
WS39253903 (10-13) BLK TN & WH AKC DNA
#V718379

MINI MOUNTAIN MOLLY
WS39178002 (02-14) BLK RST & WH

NORTH COUNTRY SNOWMAN
WS27084710 (10-09) BLK RST & WH AKC
DNA #V621567

WILLOWBROOKS SWISS GIRL
WS31565505 (04-11) BLK RST & WH

HIGHLANDER VAN'T PACHTHOF
WS31386801 (02-10) BLK RST & WH (BEL) AKC
DNA #V592867%14

GENEVA VAN 'T STOKERYBOOS
WS26184302 (11-09) BLK RST & WH (BEL) AKC
DNA #V548509

HIGH COUNTRY CLYDE
WS31118204 (03-11) BLK RST & WH AKC DNA
#V636649

ROJO'S CHASSERAL JAIKI'
WS24986207 (06-10) BLK RST & WH

BATCH SANTY BAZALTIN
CMKU 2552/01

BERNICE VAN 'T BEERTJES HOF
UCS 0903118

BRUTUS BOAZ ELOHIM
WR07691502 (11-04) OFA40G BLK RST & WH AKC
DNA #V361587

ELLANORHA MAY VALENTINE
WS04293105 (11-04) BLK TN & WH

WHISPERING PINES CLYDE
WS33796511 (08-11) BLK RST & WH AKC DNA
#V691253

WHISPER WINDS WHITNEY
WS30672702 (08-11) BLK RST & WH

PAINT CREEK GENERAL
WS31678405 (04-11) BLK TN & WH AKC DNA
#V645479

BETZ
WS34734703 (10-11) BLK TN & WH

CHRIS SPOD HRADZE
WS11791501 (06-05) BLK RST & WH (SFR) AKC
DNA #V498117

IZA CSEPOOV DVOR
WR07194704 (06-05) BLK RST & WH (SFR)

TROYERS BUSTER
WS02889801 (11-04) BLK RST & WH AKC DNA
#V452493

TUJALIGETI BETTINA
WS10647301 (03-05) BLK RST & WH (HUN)

Laboratory Report

| | | | |
|----------------------|---------------|-------------------------|----------------------|
| Laboratory #: | 266147 | Call Name: | Cleo Lee |
| Order #: | 121117 | Registered Name: | - |
| Ordered By: | Angela Miller | Breed: | Bernese Mountain Dog |
| Ordered: | Oct. 23, 2021 | Sex: | Female |
| Received: | Nov. 16, 2021 | DOB: | June 2020 |
| Reported: | Nov. 24, 2021 | Registration #: | - |

Results:

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



Blake C Ballif, PhD
 Laboratory & Scientific Director



Christina J Ramirez, PhD, DVM, DACVP
 Medical Director

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.