



Demographic Information

Call Name	Bear	DOB	Nov 2020
Registered Name		Registration Number	
Breed	Bernese Mountain Dog	Tattoo	
Sex	M	Microchip	2940
Owner	Darrin Yoder	Laboratory #	AN-21-006078
		Report Date	July 29, 2021

These tests were developed and performed by Paw Print Genetics®, Spokane WA.

Explanation of Results

Normal	A 'Normal' result means that your dog does not have the mutation that causes the associated genetic disease.
Carrier	A 'Carrier' result indicates that your dog has inherited one copy of the mutation that has been reported to cause this genetic disease. Your dog may not be clinically affected by this mutation because two copies of the mutation are usually required to cause disease.
Carrier / At-Risk	A 'Carrier / At-Risk' result indicates that your dog inherited one copy of the mutation that has been reported to cause this genetic disease. Based on the mode of genetic inheritance for this particular disease, inheriting one mutant copy of the gene may result in the disease. Dogs with one copy of the mutation may have a milder phenotype as compared to dogs with two copies of this mutation.
At-Risk / Affected	An 'At-Risk / Affected' result indicates that your dog inherited one or two copies of the mutation that has been reported to cause this genetic disease. Based on the mode of genetic inheritance for this particular disease, inheriting one or two mutant copies of the gene may result in the disease.
No Result	'No Result' indicates that we were unable to obtain a genotype for your dog for this specific disease or trait and does not mean that your dog is a carrier or at-risk for this disease. There are a variety of reasons why a specific test may not provide a reportable result. Unique variations in the genetic code of some individuals may exist and cause certain regions of the genome to not perform properly with a specific test. In addition, suboptimal sampling of the dog's cheek cells could also result in poor sample performance due to inadequate cell counts, bacterial and fungal growth, or the presence of other test inhibitors. An acceptable level of tests with no results has been determined by Paw Print Genetics. Dogs with at least 90% of the test results are determined to be acceptable and reportable. If your dog has an unacceptable level of tests with no results, you will be contacted for a new sample to repeat the testing.

Please review our testing terms and disclaimers regarding your results.

WT: **wild type (normal)** M: **mutant** Y: **Y chromosome (male)**

Breed Profile

Disease Name

Degenerative Myelopathy

Degenerative Myelopathy (Common Variant)
 Degenerative Myelopathy (Bernese Mountain Dog Variant)

Genotype

WT/WT

0
0

Interpretation

Von Willebrand Disease I

WT/WT

WT: wild type (normal) M: mutant Y: Y chromosome (male)

Coat Colors & Traits

Trait Name

Genotype

Interpretation

A Locus
Agouti

a^t/a^t

Tricolor, black and tan

A^s Locus
Saddle Tan

N/N

No saddle tan/creeping tan

B Locus
Brown

B/B

Black coat, nose and foot pads

B Locus (Brown) - b^c
 B Locus (Brown) - b^s
 B Locus (Brown) - b^d
 B Locus (Brown) - b^a

0
0
0
0

Brachycephaly

BR/BR

Likely medium to long muzzle

Chondrodysplasia
CDPA

cd/cd

Likely typical leg length

Cu Locus
Curly Hair

Cu/Cu

Straight coat

D Locus
Dilute

D/D

Non dilute

D Locus (Dilute) - d^1
 D Locus (Dilute) - d^2

0
0

E Locus
Yellow/Red

E/E

Black

E^g Locus
Grizzle, Afghan Hound Type

N/N

No grizzle

E^h Locus
Sable, Cocker Spaniel Type

N/N

No sable

E^m Locus

N/N

No melanistic mask

Melanistic Mask

H Locus Harlequin, Great Dane Type	h/h	No harlequin
Hr Locus FOXI3 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type	hr/hr	Coated
I Locus Intensity	I/I	Normal intensity
IC Locus Improper Coat/Furnishings	IC/IC	No furnishings, improper coat
K Locus Dominant Black	k ^y /k ^y	Agouti expression allowed
L Locus Long Hair/Fluffy	Lh/Lh	Longhaired
L Locus (Long Hair/Fluffy) - Lh ¹	2	
L Locus (Long Hair/Fluffy) - Lh ²	0	
M Locus Merle	m/m	Non merle
Polydactyly	PD/PD	Likely polydactylous with hind dewclaws
S Locus White Spotting, Parti, or Piebald	S/S	No white spotting, flash, parti, or piebald
SD Locus Shedding	SD/SD	High shedding
Sex Determination	X/Y	Male
T Locus Natural Bobtail	t/t	Normal tail

WT: wild type (normal) M: mutant Y: Y chromosome (male)

Determinants of coat colors and traits are complex. Many of these variants are known and many of the genes screened in the Canine HealthCheck interact. In addition, not all the genetic factors that contribute to a dog's coat color and traits are known. Because of the complexities in gene-gene interactions, the coat colors and traits reported in your Canine HealthCheck results may vary from your dog's actual appearance. Individual differences in genes throughout the canine genome, not tested in this genetic screen, may also affect the final coat color or traits seen in your dog.

Diseases

Disease Name	Genotype	Interpretation
Acral Mutilation Syndrome	WT/WT	Normal (Clear)
Acute Respiratory Distress Syndrome	WT/WT	Normal (Clear)
Adult Paroxysmal Dyskinesia	WT/WT	Normal (Clear)