

DNA Test Report

Dog Information

Anya NAME	Female SEX
Bernese Mountain Dog GENETIC BREED	March 10th, 2019 DATE OF BIRTH
American Kennel Club (AKC) WS63949601 n/a REGISTRATION	 MICROCHIP

Leigh Davies Allison

OWNER NAME



Canine Genetic Health Screen

TEST

June 24th, 2021

TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1(A)	AA	Clear	
Von Willebrand Disease Type I, Type I vWD	VWF	GG	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	GENETIC RESULT
Coefficient Of Inbreeding	24%
MHC Class II - DLA DRB1	High Diversity
MHC Class II - DLA DQA1 and DQB1	High Diversity

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TRAIT TESTS (1/2)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark mask or grizzle	EE
K Locus (CBD103)	More likely to have a patterned haircoat	k ^Y k ^Y Intermediate
Intensity Loci LINKAGE yellow or tan	Any light hair likely	Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a ^t a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Black or gray hair and skin	BB
Saddle Tan (RALY)	Not saddle tan patterned	ll
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN

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Other Coat Traits

RESULT

**GENETIC
RESULT**

Hairlessness (SGK3)

Very unlikely to be hairless

NN

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TRAIT TESTS (2/2)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Larger	NN
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN