

## Dog Information

<b>First Point Gun Dogs Sadie Mae</b> NAME	<b>Female</b> SEX
<b>German Shorthaired Pointer</b> GENETIC BREED	<b>November 21st, 2019</b> DATE OF BIRTH
<b>American Kennel Club (AKC) SS15905202</b> REGISTRATION	<b>956000012552222</b> MICROCHIP

**Lea Bastin**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**April 13th, 2021**  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Day Blindness, Cone Degeneration, Achromatopsia	CNGB3 (Exon 6)	GG	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Von Willebrand Disease Type II, Type II vWD	VWF	TT	Clear	
Hereditary Sensory Autonomic Neuropathy, Acral Mutilation Syndrome, AMS	GDNF-AS	CC	Clear	
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		9%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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## TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark mask or grizzle	EE
K Locus (CBD103)	More likely to have a mostly solid black or brown coat	K <sup>B</sup> K <sup>B</sup>
Intensity Loci LINKAGE	No impact on coat pattern	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a <sup>t</sup> a <sup>t</sup>
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Brown hair and skin	bb
Saddle Tan (RALY)	Not expressed	ll
S Locus (MITF)	Likely flash, parti, piebald, or extreme white	spsp
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr

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## TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
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 short or mid-length coat	GG
Shedding (MC5R)	Likely light to moderate shedding	TT
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Coat Texture (KRT71)	Likely straight coat	CC
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC

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## TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Blue Eye Color (ALX4) LINKAGE	Less likely to have blue eyes	NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling	CC

  

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