

DNA Test Report

Dog Information





Foxglove Farms Bleu Camas (Bleu) NAME	Female SEX
Collie BREED ANCESTRY	April 4th, 2021 DATE OF BIRTH
AKC: DN68504001 REGISTRATION	n/a MICROCHIP

Julia Jensen
OWNER NAME

Canine Genetic Health Screen
TEST

September 28th, 2021
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	NN	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	
Recurrent Inflammatory Pulmonary Disease, RIPD	AKNA	n/a	n/a	

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INBREEDING AND DIVERSITY

Genetic Diversity

RESULT

GENETIC
RESULT

Coefficient Of Inbreeding

40%

MHC Class II - DLA DRB1

No
Diversity

MHC Class II - DLA DQA1 and DQB1

No
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
Intensity Loci LINKAGE	Any light hair likely yellow or tan	Intermediate 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	II
S Locus (MITF)	Likely solid colored, but may have small amounts of white	Ssp
M Locus (PMEL)	One merle allele, likely to appear merle or "phantom merle"	M*m
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 (RSP02) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	TT

Shedding (MC5R)

Likely heavy/seasonal shedding

CC

Hairlessness (FOXI3) LINKAGE

Very unlikely to be hairless

NN

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)	Intermediate	TA
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	CC

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

