

## Dog Information

**Gabriel's Furever Joy (Joy)**  
NAME

**Female**  
SEX

**Old English Sheepdog**  
GENETIC BREED

**April 10th, 2019**  
DATE OF BIRTH

**AKC: DN57954503**  
REGISTRATION

**900085000923304**  
MICROCHIP






**Gabriel Siqueira**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**June 28th, 2019**  
TEST DATE

## BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Exercise-Induced Collapse	DNM1	GG	Clear	
Hereditary Ataxia, Cerebellar Degeneration	RAB24 (Exon 1)	AC	1 Variant	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	
Primary Ciliary Dyskinesia, PCD	CCDC39	CC	Clear	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		17%
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)	Can have a melanistic mask	E <sup>m</sup> E <sup>m</sup>
K Locus (CBD103)	More likely to have a mostly solid black or brown coat	K <sup>Bk</sup> k <sup>y</sup>
Intensity Loci LINKAGE	No impact on coat pattern	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a <sup>wa</sup> a <sup>t</sup>
D Locus (MLPH)	Dark areas of hair and skin are not lightened	Dd
B Locus (TYRP1)	Black or gray hair and skin	BB
Saddle Tan (RALY)	Not expressed	ll
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
H Locus (Harlequin)	No harlequin alleles	hh

Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSP02) LINKAGE	Likely furnished (mustache, beard, and/or eyebrows)	FF
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely light shedding	CC
Hairlessness (FOX13) 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)	Larger	TT
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