

Dog Information

Britain Border I Believe In Miracle NAME	Male SEX
Border Collie GENETIC BREED	December 13th, 2017 DATE OF BIRTH
N/A RG/MGK/17/08810 REGISTRATION	n/a MICROCHIP

Thais Machado
OWNER NAME

Canine Genetic Health Screen
TEST

March 11th, 2020
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	ND	1 Variant	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption	CUBN (Exon 53)	NN	Clear	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	
Myotonia Congenita	CLCN1 (Exon 23)	NN	Clear	
Neuronal Ceroid Lipofuscinosis 5, NCL 5	CLN5 (Exon 4)	CC	Clear	
Primary Lens Luxation	ADAMTS17	GG	Clear	
Trapped Neutrophil Syndrome, TNS	VPS13B Exon 19	NN	Clear	
Goniodysgenesis and Glaucoma, Pectinate Ligament Dysplasia, PLD	OLFML3	GG	Clear	

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INBREEDING AND DIVERSITY

	RESULT	GENETIC RESULT
Genetic Diversity		
Coefficient Of Inbreeding		21%
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 mostly solid black or brown coat	K ^B K ^B
Intensity Loci LINKAGE	No impact on coat pattern	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a ⁺ a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	Dd
B Locus (TYRP1)	Brown hair and skin	bb
Saddle Tan (RALY)	Not expressed	NI
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 (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC

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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