

## Dog Information

<b>Britain Border Mystic Night</b> NAME	<b>Female</b> SEX
<b>Border Collie</b> GENETIC BREED	<b>October 19th, 2017</b> DATE OF BIRTH
<b>N/A RG/MGK/17/08799</b> REGISTRATION	<b>n/a</b> MICROCHIP

**Thais Machado**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**March 18th, 2020**  
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	
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	GA	1 Variant	

## Dog Information

**Britain Border Mystic Night**  
NAME

## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		18%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

## Dog Information

Britain Border Mystic Night  
NAME

## 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 <sup>Bk</sup> γ
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
B Locus (TYRP1)	Black or gray hair and skin	BB
Saddle Tan (RALY)	Not expressed	II
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

## Dog Information

**Britain Border Mystic Night**  
NAME

## 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