

Dog Information

Jon Snow Stark Amai Ishii (Lord)
NAME

Border Collie
BREED ANCESTRY

N/A RG/SPF/20/00090 REGISTRATION

Male SEX

February 27th, 2020

DATE OF BIRTH

n/a MICROCHIP Tarcísio Mendel Almeida OWNER NAME

Canine Genetic Health Screen TEST

July 21st, 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	•
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	x
Raine Syndrome, Canine Dental Hypomineralization Syndrome	FAM20C	GG	Clear	×
Sensory Neuropathy	FAM134B	NN	Clear	×



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#### **INBREEDING AND DIVERSITY**

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		19%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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### TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	E <sup>m</sup> E
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	Dilute 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	II
S Locus (MITF)	Likely to have little to no white in coat	ss
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
Joan Coloi	KESULI	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)	II
Coat Length (FGF5)	Likely long coat	тт
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
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	СС
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	СС
lind Dewclaws (LMBR1)	Unlikely to have hind dew claws	СС

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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	СС
Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Intermediate	NI
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	тт
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	СС
Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN