

Summer V. G. L.
Registration: N/A
Breed: Border Collie

Sample ID: DBFQVQW
Test Date: 28/10/2020
MyDogDNA

DNA Test Report

Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Collie Eye Anomaly (CEA)	NHEJ1	Deletion	0	Clear
Dental Hypomineralization	FAM20C	C>T	0	Clear
Early Adult Onset Deafness For Border Collies only (Linkage test)	unknown	Insertion	0	Clear
Goniodysgenesis and Glaucoma (Discovered in the Border Collie)	OLFML3	G>A	0	Clear
Intestinal Cobalamin Malabsorption (Discovered in the Border Collie)	CUBN	Deletion	0	Clear
MDR1 Medication Sensitivity	MDR1/ABCB1	Deletion	0	Clear
Sensory Neuropathy	FAM134B	Insertion	0	Clear
Trapped Neutrophil Syndrome	VPS13B	Deletion	0	Clear

Other Conditions Tested

Genetic Condition	Gene	Risk Variant	Copies	Result
2,8-dihydroxyadenine (DHA) Urolithiasis	APRT	G>A	0	Clear
Acral Mutilation Syndrome	GDNF	C>T	0	Clear
Acute Respiratory Distress Syndrome	ANLN	C>T	0	Clear
Alaskan Husky Encephalopathy	SLC19A3	G>A	0	Clear
Alexander Disease	GFAP	G>A	0	Clear
Amelogenesis Imperfecta	ENAM	Deletion	0	Clear
Bandera's Neonatal Ataxia	GRM1	Insertion	0	Clear
Benign Familial Juvenile Epilepsy	LGI2	A>T	0	Clear
Canine Leukocyte Adhesion Deficiency (CLAD), type III	FERMT3	Insertion	0	Clear
Canine Multifocal Retinopathy 1	BEST1	C>T	0	Clear
Canine Multifocal Retinopathy 2	BEST1	G>A	0	Clear
Canine Multifocal Retinopathy 3	BEST1	Deletion	0	Clear

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Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Fawn	ASIP	a ^y	0	Not fawn
Recessive Black	ASIP	a	0	Not black due to this variant
Tan Points	ASIP	a ^t	2	Tan points possible
Dominant Black	CBD103	K ^B or K ^{Br}	2	Black
Ancient Red (eA)	MC1R	e ^A	0	Ancient red effect will not be visible
Grizzle	MC1R	E ^G	0	Not grizzle
Mask	MC1R	E ^m	0	No dark muzzle
Recessive Red	MC1R	e ¹	0	Cream to red coat color unlikely
Recessive Red (e2)	MC1R	e ²	0	Cream to red coat color unlikely
Recessive Red (e3)	MC1R	e ³	0	Cream to red coat color unlikely
Red Intensity	MFSD12	i	0	White to yellow coat shades unlikely
Dilution (d1) Linkage test	MLPH	d ¹	1	Dilution unlikely
Dilution (d2)	MLPH	d ²	0	Dilution unlikely
Dilution (d3)	MLPH	d ³	0	Dilution unlikely
Chocolate (Variant 1)	TYRP1	b ^c	0	Not chocolate due to this variant
Chocolate (Variant 2)	TYRP1	b ^s	1	Not chocolate due to this variant
Chocolate (Variant 3)	TYRP1	b ^d	0	Not chocolate due to this variant
Chocolate (Variant 4)	TYRP1	b ^{asd}	0	Not chocolate due to this variant

Coat Patterns

Genetic Trait	Gene	Variant	Copies	Result
Piebald	MITF	s ^P	0	Minimal white
Merle	PMEL	M	0	Not merle