

Dog Information

Sedona (Sedona)
NAME

Female
SEX

Border Collie
GENETIC BREED

April 19th, 2019
DATE OF BIRTH

AKC: n/a
REGISTRATION










n/a
MICROCHIP


Laurel McComas
OWNER NAME

Canine Genetic Health Screen
TEST

July 22nd, 2020
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	ND	1 Variant	
Degenerative Myelopathy, DM	SOD1	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 1, NCL 5	CLN5 (Exon 4)	CC	Clear	
Primary Lens Luxation	ADAMTS17	GG	Clear	
Trapped Neutrophil Syndrome	VPS13B Exon 19	NN	Clear	
Goniodysgenesis and Glaucoma	OLFML3	GG	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT
Coefficient Of Inbreeding	15%
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
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
A Locus (ASIP)	Not expressed	a ^w a ^t
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	NI
M Locus (PMEL)	One merle allele, likely to appear merle or "phantom merle"	M*m
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits		RESULT
Furnishings (RSP02) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	GT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Coat Texture (KRT71)	Likely straight coat	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
Other Body Features		RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC

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TRAIT TESTS (2/2)

Body Size		RESULT
Body Size (IGF1)	Intermediate	NI
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Intermediate	TA
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	CC

Performance		RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN