

Dog Information

Breezmore's Marley And Me (Marley)	Male
NAME	SEX
Australian Shepherd Group	January 15th, 2020
GENETIC BREED	DATE OF BIRTH
Akc: Dn60985204	n/a
REGISTRATION	MICROCHIP

Heather Soper

OWNER NAME

Canine Genetic Health Screen
TEST

April 2nd, 2021

TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
Canine Multifocal Retinopathy	BEST1/VMD2 (Exon 2)	CC	Clear	
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	NN	Clear	
Craniomandibular Osteopathy, CMO	SLC37A2 (Exon 15)	CC	Clear	
Degenerative Myelopathy, DM	SOD1	GG	Clear	
Hereditary Cataracts, Early-Onset Cataracts, Juvenile Cataracts	HSF4	NN	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	CC	Clear	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Neuronal Ceroid Lipofuscinosis	CLN8	GG	Clear	
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	TT	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT
Coefficient Of Inbreeding	16%
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)	Can have a melanistic mask	E ^m E ^m
K Locus (CBD103)	More likely to have a patterned haircoat	k ^y k ^y
Intensity Loci LINKAGE	Any light hair likely white or cream	Dilute Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a ^t a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	Dd
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Black or gray hair and skin	Bb
Saddle Tan (RALY)	Not saddle tan patterned	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
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 long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN

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TRAIT TESTS (2/2)

Body Size		RESULT
Body Size (IGF1)	Smaller	II
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