

Dog Information

Sayre's Shining Sun (Sunshine)

NAME

Female SEX

Australian Shepherd Breed with variety:

June 18th, 2021 DATE OF BIRTH

100% Australian Shepherd BREED ANCESTRY

n/a MICROCHIP

American Kennel Club (AKC) DN67957707

REGISTRATION

KIMBERLY SAYRE
OWNER NAME

Canine Genetic Health Screen

TEST

February 27th, 2022

TEST DATE

#### **BREED HEALTH TESTS**

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Canine Multifocal Retinopathy, cmr1	BEST1/VMD2 Exon 2	СС	Clear	<b>②</b>
Collie Eye Anomaly, Choroidal Hypoplasia, CEA	NHEJ1 (Intron 4)	NN	Clear	<b>(1)</b>
Craniomandibular Osteopathy, CMO	SLC37A2 (Exon 15)	CC	Clear	
Day Blindness, Cone Degeneration, Achromatopsia	CNGB3	NN	Clear	
Degenerative Myelopathy, DM	SOD1A	GG	Clear	<b>©</b>
Hereditary Cataracts, Early-Onset Cataracts, Juvenile Cataracts	HSF4	NN	Clear	<b>©</b>
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	<b>©</b>
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	<b>©</b>
Junctional Epidermolysis Bullosa	LAMB3 Exon 11	TT	Clear	x
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	TT	Clear	x
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	×



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#### **INBREEDING AND DIVERSITY**

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		12%
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)	No dark mask or grizzle	EE
K Locus (CBD103)	More likely to have a patterned haircoat	k <sup>y</sup> k <sup>y</sup>
Intensity Loci	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a <sup>t</sup> a
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)	Likely saddle tan patterned	NI
S Locus (MITF)	Likely to have little to no white in coat	ss
M Locus (PMEL)	Two merle alleles; may express merle or double merle	M*M*
R Locus (USH2A)	Likely no impact on coat pattern	rr

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### TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	LhLh
Shedding (MC5R)	Likely heavy/seasonal shedding	СС
Coat Texture (KRT71)	Likely straight coat	СС
Hairlessness (FOXI3)	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2)	Likely not albino	NN
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	СС
Tail Length (T)	Likely normal-length tail	СС
Hind 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)	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	TT
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	СС
Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC)	Normal food motivation	NN