

Dog Information

Sayre's Shots Fired (Rifle) NAME

Male SEX

Australian Shepherd Group

May 22nd, 2022

Breed with variety:

DATE OF BIRTH

100% Australian Shepherd

BREED ANCESTRY

MICROCHIP

American Kennel Club (AKC) DN72585401

REGISTRATION

KIMBERLY SAYRE OWNER NAME

Canine Genetic Health Screen

TEST

September 28th, 2022

TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Canine Multifocal Retinopathy, cmr1	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	•
Day Blindness, Cone Degeneration, Achromatopsia	CNGB3	NN	Clear	•
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	•
Hereditary Cataracts, Early-Onset Cataracts, Juvenile Cataracts	HSF4	NN	Clear	•
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	•
MDR1 Drug Sensitivity	ABCB1	NN	Clear	•
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	•
Junctional Epidermolysis Bullosa	LAMB3 Exon 11	TT	Clear	x
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	тт	Clear	×
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	차



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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		5%
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 ^m E
K Locus (CBD103)	More likely to have a patterned haircoat	k ^y k ^y
Intensity Loci LINKAGE	Any light hair likely yellow or tan	Intermediate 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)	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)	No merie 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 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	СТ
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	СС
Tail Length (T)	Short/natural bobtail	CG
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) LINKAGE	Likely to have blue eyes or partial blue eyes	NDup
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)	Smaller	AA
Body Size (GHR - P177L)	Larger	CC
Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN