

Dog Information

Happy
NAME

Australian Shepherd
Breed with variety:
100% Australian Shepherd
GENETIC BREED

American Kennel Club (AKC)
REGISTRATION

Male
SEX

December 24th, 2023
DATE OF BIRTH

n/a
MICROCHIP














Amber VanWinkle
OWNER NAME

Canine Genetic Health Screen
TEST

April 26th, 2024
TEST DATE

BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

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	
Cranio-mandibular Osteopathy, CMO	SLC37A2 (Exon 15)	CC	Clear	
Day Blindness, Cone Degeneration, Achromatopsia	CNGB3	NN	Clear	
Degenerative Myelopathy, DM	SOD1A	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	
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	TT	Clear	
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	
Primary Ciliary Dyskinesia, PCD	STK36 Intron 19	GG	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NI	1 Variant	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		6%
Immune Response 1		High Diversity
Immune Response 2		High Diversity

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TRAIT TESTS (1/4)

Base Coat Color	RESULT	GENETIC RESULT
Dark or Light Fur <i>E (Extension) Locus</i>	Can have dark fur	E ^m E
Dark brown pigment <i>Cocoa</i>	No impact on fur and skin color	NN
Red Pigment Intensity <i>I (Intensity) Loci</i>	Any light fur likely yellow or tan	Intermediate Red Pigmentation
Brown or Black Pigment <i>B (Brown) Locus</i>	Brown fur and skin	bb
Color Dilution <i>D (Dilute) Locus</i>	Dark (non-dilute) fur and skin	DD

Coat Color Modifiers	RESULT	GENETIC RESULT
Hidden Patterning <i>K (Dominant Black) Locus</i>	More likely to have patterned fur	k ^y k ^y
Body Pattern <i>A (Agouti) Locus</i>	Black/Brown and tan coat color pattern	a ^t a ^t
Facial Fur Pattern <i>E (Extension) Locus</i>	Can have black masking (dark facial fur)	E ^m E
Saddle Tan	Not saddle tan patterned	II
White Spottina		

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TRAIT TESTS (2/4)

Coat Color Modifiers		RESULT	GENETIC RESULT
Merle			
<i>M (Merle) Locus</i>	Unlikely to have merle pattern		mm
Harlequin	No impact on coat pattern		hh
Panda White Spotting	Not expected to display Panda pattern		NN
Other Coat Traits		RESULT	GENETIC RESULT
Furnishings	Likely unfurnished (no mustache, beard, and/or eyebrows)		II
Coat Length	Likely long coat		LhLh
Shedding	Likely heavy/seasonal shedding		CC
Coat Texture	Likely straight coat		CC
Hairlessness (Xolo type)	Very unlikely to be hairless		NN
Hairlessness (Terrier type)	Very unlikely to be hairless		NN
Oculocutaneous Albinism Type 2	Likely not albino		NN
Other Body Features		RESULT	GENETIC RESULT
Muzzle Length	Likely medium or long muzzle		CC

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TRAIT TESTS (3/4)

Other Body Features	RESULT	GENETIC RESULT
Tail Length	Likely normal-length tail	CC
Hind Dew Claws	Unlikely to have hind dew claws	CC
Back Muscling & Bulk (Large Breed)	Likely normal muscling	CC
Eye Color	Less likely to have blue eyes	NN
Chondrodysplasia (Leg Length)	Likely to have normal leg length	NN
Body Size	RESULT	GENETIC RESULT
Body Size 1	Intermediate	NI
Body Size 2	Larger	GG
Body Size 3	Intermediate	TA
Body Size 4	Larger	GG
Body Size 5	Larger	CC
Performance	RESULT	GENETIC RESULT
Altitude Adaptation	Normal altitude tolerance	GG

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TRAIT TESTS (4/4)

Performance	RESULT	GENETIC RESULT
Appetite	Normal food motivation	NN