

## Dog Information

Pepper/Elle  
NAME

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

American Kennel Club (AKC) Dn64937906  
REGISTRATION

Female  
SEX

November 30th, 2020  
DATE OF BIRTH












n/a  
MICROCHIP

Amber VanWinkle  
OWNER NAME

Canine Genetic Health Screen  
TEST

February 12th, 2024  
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)	ND	1 Variant	
Craniomandibular 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	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		14%
Immune Response 1		High Diversity
Immune Response 2		High Diversity

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## TRAIT TESTS (1/3)

Base Coat Color	RESULT	GENETIC RESULT
Dark or Light Fur <i>E (Extension) Locus</i>	Can have dark fur	E <sup>m</sup> 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>	Black or gray 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 <sup>y</sup> k <sup>y</sup>
Body Pattern <i>A (Agouti) Locus</i>	Black/Brown and tan coat color pattern	a <sup>t</sup> a <sup>t</sup>
Facial Fur Pattern <i>E (Extension) Locus</i>	Can have black masking (dark facial fur)	E <sup>m</sup> E
Saddle Tan	Not saddle tan patterned	II
White Spottina		

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## TRAIT TESTS (2/3)

Coat Color Modifiers	RESULT	GENETIC RESULT
Merle	May express merle	M*m
M (Merle) Locus		
Harlequin	No impact on coat pattern	hh
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	CT
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
Tail Length	Likely normal-length tail	CC

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## TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
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	Larger	NN
Body Size 2	Larger	GG
Body Size 3	Larger	TT
Body Size 4	Smaller	AA
Body Size 5	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation	Normal altitude tolerance	GG
Appetite	Normal food motivation	NN