

Dog Information

Ollie
 NAME
Male
 SEX
Australian Shepherd Group
 Breed with variety:
59.8% Australian Shepherd
40.2% Miniature/MAS-type Australian Shepherd
 GENETIC BREED
American Stock Dog Registry (ASDR)
 REGISTRATION
February 16th, 2023
 DATE OF BIRTH
 n/a
 MICROCHIP

Jess Ranieri
 OWNER NAME
Canine Genetic Health Screen
 TEST
August 18th, 2023
 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	
Cranio-mandibular 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	
Neuronal Ceroid Lipofuscinosis 6, NCL 6	CLN6 (Exon 7)	TT	Clear	
Neuronal Ceroid Lipofuscinosis 8, NCL 8	CLN8	GG	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Junctional Epidermolysis Bullosa	LAMB3 Exon 11	TT	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		9%
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	EE
Dark brown pigment <i>Cocoa</i>	No impact on fur and skin color	NN
Red Pigment Intensity LINKAGE <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	$k^Y k^Y$
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>	No dark mask or grizzle facial fur patterns	EE
Saddle Tan	Not saddle tan patterned	II
White Spottina		

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TRAIT TESTS (2/3)

Coat Color Modifiers	RESULT	GENETIC RESULT
Merle <i>M (Merle) Locus</i>	May express merle	M*m
Harlequin	No impact on coat pattern	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length	Likely long coat	TT
Shedding	Likely heavy/seasonal shedding	CT
Coat Texture	Likely straight coat	CC
Hairlessness (Xolo type) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (Terrier type)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 LINKAGE	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 LINKAGE	Likely to have blue eyes or partial blue eyes	NDup

Body Size	RESULT	GENETIC RESULT
Body Size 1	Smaller	II
Body Size 2	Larger	GG
Body Size 3	Intermediate	TA
Body Size 4	Smaller	AA
Body Size 5	Larger	CC

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