

Genetic Summary Report

Animal Name: Gracie

Owner: Deena Braun

Membership Number: 209516

Member Body/Breed Club: ASCA

Approved Collection Method: No





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Genetic Summary Report

Owner's details

Name	Deena Braun
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Animal's Details

Registered Name	NE3D Grace Walks With Me
Pet Name	Gracie
Registration Number	E240465
Breed	Australian Shepherd
Microchip Number	981020061705429
Sex	Female
Date of Birth	4th Nov 2025
Colour	Blue Merle

Sample Collection Details

Case Number	26US06219
Collected By	—
Approved Collection	No
Sample Type	SWAB

Test Details

Test Requested	Australian Shepherd - Full Breed Profile-
Pet Name	Gracie
Date of Test	21st May 2026

Authorisation

Sample with Lab ID Number 26US06219 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

Orivet Genetic Analyst



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Health Tests Reported (Continued)

Breed Sense	Diseases	Result
✓	Achromatopsia (Shepherd/Arctic Breed Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Chondrodystrophy with Intervertebral Disc Disease Risk Factor (CDDY with IVDD)	NORMAL (N/N) - NO CHONDRODYSTROPHY (CDDY) VARIANT DETECTED (NO INCREASED IVDD RISK)
✓	Collie Eye Anomaly/Choroidal Hypoplasia	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Cranio-mandibular Osteopathy (Terrier Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Degenerative Myelopathy	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Exercise Induced Collapse (Retriever Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Factor VII Deficiency	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hereditary Ataxia (Australian Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hereditary Cataract	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hereditary Cataract (Dominant)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hyperuricosuria	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Intestinal Cobalamin Malabsorption (Australian Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Ivermectin Sensitivity MDR1 (Multi Drug Resistance)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Multifocal Retinopathy CMR1 (Mastiff/Bull Breeds Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Neuronal Ceroid Lipofuscinosis 6 (Australian Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Progressive Rod Cone Degeneration (prcd) - PRA	NORMAL (N/N) - [NO VARIANT DETECTED]



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Health Tests Reported

Breed Sense	Diseases	Result
	von Willebrand's Disease Type I	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cobalamin Malabsorption: Cubilin Deficiency (Border Collie Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Early Adult Onset Deafness Border Collie (Linkage Association Test)	NORMAL (N/N) FOR THE EAOD RISK VARIANT [RESEARCH ONLY]
	Neuronal Ceroid Lipofuscinosis 5 (Border Collie Type)	NORMAL (N/N) - [NO VARIANT DETECTED]



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Health Tests Reported

Breed Sense	Traits	Result
✓	A Locus (Agouti)	a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]
✓	B Locus - Bd, Bs, Bc [Various Breeds]	Bb [BcBc BdBd Bsbs] - CAN PRODUCE BROWN OFFSPRING
✓	Brown TYRP1 [Australian Shepherd Type] = Ba	B^a/B^a - NO COPY OF THE BROWN/RED c.555T>G VARIANT [AUSTRALIAN SHEPHERD TYPE] DETECTED
✓	Curly Coat/Hair Variant 1	NEGATIVE FOR THE R151W (C1) VARIANT - NOT SHOWING THE CURLY COAT PHENOTYPE
✓	D (Dilute) Locus	D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL
✓	E Locus - (Cream/Red/Yellow)	E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE
✓	K Locus (Dominant Black)	k^Y/k^Y - RECESSIVE NON- BLACK [COLOUR PATTERN DETERMINED BY A LOCUS]
✓	Long Hair Gene - L1 (Canine C95F)	POSITIVE - SHOWING THE PHENOTYPE
✓	M Locus (Merle/Dapple)	m/M [171/268bp] - CLASSIC MERLE [RANDOM "MIXED" AREAS OF DILUTED COLOUR]
✓	Natural Bob Tail (Short Tail Phenotype)	NEGATIVE - NO COPIES, NOT SHOWING THE PHENOTYPE
✓	Pied (BOTH SINE and REPEAT VARIANTS)	S/sp - CARRIER OF PIEBALD [LIMITED WHITE SPOTTING, FLASH OR PARTI]
✓	Sex Determination - ZFX	DOG IS FEMALE

Glossary of Genetic Terms (Results)

Clarification of Genetic Testing

The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify these factors.

Some diseases may demonstrate signs of what Geneticists call “genetic heterogeneity”. This is a term to describe an apparently single condition that may be caused by more than one mutation and/or gene.

It is possible that there exists more than one disease that presents in a similar fashion and segregates in a single breed. These conditions — although phenotypically similar — may be caused by separate mutations and/or genes.

It is possible that the disease affecting your breed may be what Geneticists call an “oligogenic disease”. This is a term to describe the existence of additional genes that may modify the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable age of onset for a particular condition, or affect the penetrance of a particular mutation such that some animals may never develop the condition.

The range of hereditary diseases continues to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any disease should be based on pedigree history, clinical signs, history (incidence) of the disease and the specific genetic test for the disease. Penetrance of a disease will always vary not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrition and environment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and phenotype also be considered when breeding.

Orivet Genetic Pet Care aims to frequently update breeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, please contact us on (03) 9534 1544 or admin@orivet.com and we will be happy to work with you to answer any relevant questions.

