Orivet

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Genetic Summary Report

Animal Name: Beau

Owner:
Denise Neal
Membership Number : Not assigned
Member Body/Breed Club: Not assigned

Approved Collection Method: No

ORIVET LAB CERTIFIED ANALYSIS

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Genetic Summary Report

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Owner's details

Name:	Denise Neal

Animal's Details

Registered Name :	Rocky Valley's With The Power Of Love
Pet Name :	Beau
Registration Number :	ML4331271
Breed: :	Miniature American Shepherd
Microchip Number :	956000017451898
Sex: :	Intact Male
Date of Birth :	14th Jun 2024
Colour :	Blue Merle, White Markings, Tan Points

Sample Collection Details

Case Number :	26US22702
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	Miniature American Shepherd – Full Breed Profile
Pet Name :	Beau
Date of Test :	17th Oct 2026

Authorisation

Sample with Lab ID Number 26US22702 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

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Orivet Genetic Analyst

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Health Tests Reported

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]
✓	Hereditary Cataract (Dominant)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Hyperuricosuria	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Ivermectin Sensitivity MDR1 (Multi Drug Resistance)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Neuroaxonal Dystrophy (Miniature American Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Neuronal Ceroid Lipofuscinosis 8	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Progressive Rod Cone Degeneration (prcd) - PRA	NORMAL (N/N) - [NO VARIANT DETECTED]
	Craniomandibular Osteopathy (Terrier Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Degenerative Myelopathy	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hereditary Ataxia (Australian Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Intestinal Cobalamin Malabsorption (Australian Shepherd Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Multifocal Retinopathy CMR1 (Mastiff/Bull Breeds Type)	NORMAL (N/N) - [NO VARIANT DETECTED]

Owner's Name : Denise Neal

Pet Name : Beau

Microchip Number 956000017451898

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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 or bb [Bcbc Bdbd BsBs] - LIKELY Bb (CARRIER) or bb (EXPRESSING BROWN)
✓	Brown TYRP1 [Australian Shepherd Type] = Ba	B^a/B^a - NO COPY OF THE BROWN/RED c.555T>G VARIANT [AUSTRALIAN SHEPHERD TYPE] DETECTED
✓	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]
✓	M Locus (Merle/Dapple)	PENDING [RESULT IS PROCESSING]
✓	Natural Bob Tail (Short Tail Phenotype)	NEGATIVE - NO COPIES, NOT SHOWING THE PHENOTYPE
✓	Piebald/White Spotting (S Locus)	S/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR
✓	Shedding (MC5R)	shd/shd [HIGH SHEDDING] - TWO COPIES OF THE shd (MC5R) VARIANT DETECTED REFER TO FURNISHINGS (IC) FOR LEVEL OF SHEDDING
	Coat Composition CFA28 Gene (Double/Single Coat)	UDC/udc - ONE COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED

Owner's Name : Denise Neal

Pet Name : Beau

Microchip Number 956000017451898

Approved Collection Method : No

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.

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.

1) 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

2) 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.

3) 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.