Orivet
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Genetic Summary Report

Animal Name: Janet

Owner:
Marvin Huston
Membership Number : Not assigned
Member Body/Breed Club: Not assigned

Approved Collection Method: No

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Genetic Summary Report

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Owner's details

Name:	Marvin Huston

Animal's Details

Registered Name :	
Pet Name :	Janet
Registration Number :	
Breed: :	Pug
Microchip Number :	991003001180760
Sex: :	Female
Date of Birth :	15th Aug 2021
Colour :	

Sample Collection Details

Case Number :	26FB20646
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	Pug – Full Breed Profile
Pet Name :	janet
Date of Test :	14th Apr 2026

Authorisation

Sample with Lab ID Number 26FB20646 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
✓	Airway Distress Syndrome (ADAMTS3) - Risk Marker	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Degenerative Myelopathy	CARRIER (P/N) - [ONE COPY OF THE VARIANT DETECTED]
✓	May-Hegglin Anomaly (Pug Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Necrotising Meningoencephalitis (NME)	PDE/N - ONE COPY OF THE PDE/NME ASSOCIATED RISK MARKER DETECTED
✓	Pug Dog Encephalitis, Variant 1	CARRIER (P/N) - [ONE COPY OF THE VARIANT DETECTED]
✓	Pug Dog Encephalitis, Variant 2	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Pyruvate Kinase Deficiency (Pug)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Sex Determination - ZFXY	DOG IS FEMALE
✓	von Willebrand's Disease Type I	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)

Owner's Name : Marvin Huston **Pet Name :** janet

Microchip Number 991003001180760 **Approved Collection Method :** No

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Health Tests Reported

Breed Sense	Traits	Result
✓	A Locus (Agouti)	A^y/A^y - FAWN/RED or SABLE only PRODUCE ay OFFSPRING
✓	B Locus - Bd, Bs, Bc [Various Breeds]	BB [BcBc BdBd BsBs] - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE
✓	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
✓	Dilute D2 Variant (Chow Chow Type)	D^2/D^2 - NO COPY OF d2 ALLELE (DILUTE) - PIGMENT IS NORMAL
✓	E Locus - (Cream/Red/Yellow)	E/E - DOMINANT BLACK DOES NOT CARRY YELLOW/RED/WHITE
✓	EM (MC1R) Locus - Melanistic Mask	E^m/E^m - TWO MELANISTIC MASK ALLELES DEPENDS ON A and K SERIES
✓	K Locus (Dominant Black)	k^y/k^y - RECESSIVE NON- BLACK [COLOUR PATTERN DETERMINED BY A LOCUS]
✓	Long Hair Gene - L1 (Canine C95F)	NEGATIVE - NO COPIES, NOT SHOWING THE PHENOTYPE
✓	Shedding (MC5R)	SHD/SHD [LOW SHEDDING] - NO COPIES OF THE SHEDDING (MC5R) VARIANT DETECTED [REFER TO FURNISHINGS (IC) FOR LEVEL]
	Brown TYRP1 [Lancashire Heeler Type] = Bl	B^L/B^L - DOES NOT CARRY BROWN/LIVER [TYRP1]
	Chondrodysplasia (CDPA)	NORMAL (N/N) - NO SHORTENED LEGS COMPARED TO CDPA DOGS
	Coat Composition CFA28 Gene (Double/Single Coat)	UDC/UDC - NO COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED
	M Locus (Merle/Dapple)	m/m [171/171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT COLOUR)
	Oculocutaneous Albinism (Small Breed Type)	NEGATIVE - NO COPIES, NOT SHOWING THE PHENOTYPE
	Pied (BOTH SINE and REPEAT VARIANTS)	S/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR

Owner's Name : Marvin Huston **Pet Name :** janet

Microchip Number 991003001180760 **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.