Orivet

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Genetic Summary Report

Animal Name: Luka

Owner:
Laurie Butler
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:	Laurie Butler

Animal's Details

Registered Name :	Luka
Pet Name :	Luka
Registration Number :	
Breed: :	Maine Coon
Microchip Number :	985113008729249
Sex: :	Intact Male
Date of Birth :	19th Oct 2024
Colour :	Black Smoke

Sample Collection Details

Case Number :	25A167940
Collected By :	
Approved Collection :	No
Sample Type :	SWAB

Test Details

Test Requested :	My CatScan™
Pet Name :	Luka
Date of Test :	24th Jun 2025

Authorisation

Sample with Lab ID Number 25A167940 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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Genetic Summary Report

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Health Tests Reported (Continued)

Breed Sense	Diseases	Result
✓	Hypertrophic Cardiomyopathy - Maine Coon	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Polycystic Kidney Disease	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Pyruvate Kinase Deficiency (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
✓	Spinal Muscular Atrophy	INDETERMINABLE [INCONCLUSIVE RESULT - RECOLLECTION REQUIRED]
	Acute Intermittent Porphyria (Variant 1)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Intermittent Porphyria (Variant 2)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Intermittent Porphyria (Variant 3)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Intermittent Porphyria (Variant 4) (Siamese Type 1)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Intermittent Porphyria (Variant 5) (Siamese Type 2)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Acute Intermittent Porphyria (Variant 6)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Alpha Mannisidosis (Persian/Domestic Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Autoimmune Lymphoproliferative Syndrome	NORMAL (N/N) - [NO VARIANT DETECTED]
	Chylomicronemia - Lipoprotein Lipase Deficiency (Domestic Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Adrenal Hyperplasia	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Erythropoietic Porphyria, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Erythropoietic Porphyria, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]

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Health Tests Reported (Continued)

Breed Sense	Diseases	Result
	Congenital Hypothyroidism (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Congenital Myasthenic Syndrome	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type 1A (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type B, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type B, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type B, Variant 3 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type B, Variant 4 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Cystinuria, Type B, Variant 5 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Dihydropyrimidinase Deficiency (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Epidermolysis Bullosa Simplex (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Factor XII Deficiency, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Factor XII Deficiency, Variant 3 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Feline Leukocyte Adhesion Deficiency, Type 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Feline Spongy Encephalopathy (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Folded Ears with Osteochondrodysplasia (Feline)	f/f - TYPICAL (NON-FOLDED) EARS
	Forebrain Commissural Malformation (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]

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Health Tests Reported (Continued)

Breed Sense	Diseases	Result
	Frontonasal Dysplasia (Burmese Head Defect)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM1 (Japanese Domestic Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Gangliosidosis GM2A (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Glycogen Storage Disease Type IV (Norwegian Forest Cat Type)	INDETERMINABLE [INCONCLUSIVE RESULT - RECOLLECTION REQUIRED]
	GM1 - Gangliosidosis	NORMAL (N/N) - [NO VARIANT DETECTED]
	GM2 Gangliosidosis (Burmese Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	GM2 Gangliosidosis (Korat Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	GM2 Gangliosidosis, Type II	NORMAL (N/N) - [NO VARIANT DETECTED]
	Haemophilia B (Variant 1)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Haemophilia B (Variant 2)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hyperoxaluria GRHPR (Domestic Short/Long Hair Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypertrophic Cardiomyopathy (Sphynx Type Risk Factor) (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypertrophic Cardiomyopathy - Ragdoll	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypogonadotropic Hypogonadism (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypokalaemia Periodic Polymyopathy - Burmese	NORMAL (N/N) - [NO VARIANT DETECTED]
	Hypotrichosis with Short Life Expectancy (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]

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Health Tests Reported (Continued)

Breed Sense	Diseases	Result
	Inflammatory Linear Verrucous Epidermal Nevus (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	L-2-Hydroxyglutaric Aciduria (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Methemoglobinemia, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Methemoglobinemia, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucolipidosis II (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type I	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type VI (Siamese Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type VII, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Mucopolysaccharidosis Type VII, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Myotonia Congenita (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 6 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Neuronal Ceroid Lipofuscinosis 7, Variant 1 (Feline)	INDETERMINABLE [INCONCLUSIVE RESULT - RECOLLECTION REQUIRED]
	Neuronal Ceroid Lipofuscinosis 7, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Niemann-Pick C1 Disease, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Niemann-Pick C1 Disease, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Niemann-Pick C2 Disease (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]

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Breed Sense	Diseases	Result
	Niemann-Pick Disease - Sphingomyelinosis	NORMAL (N/N) - [NO VARIANT DETECTED]
	Polycystic Kidney Disease (Siberian Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Primary Congenital Glaucoma (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Abyssinian Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Bengal Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Progressive Retinal Atrophy (Persian Type)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Rod-Cone Dysplasia (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Vitamin D-Dependent Rickets Type IB (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Vitamin D-dependent Rickets, Type IA, Variant 1 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Vitamin D-dependent Rickets, Type IA, Variant 2 (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]

Owner's Name : Laurie Butler

Pet Name : Luka

Microchip Number 985113008729249

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Health Tests Reported (Continued)

Breed Sense	Traits	Result
✓	Agouti	a/a - SOLID - NO TABBY EXPRESSION ALLOWED
✓	Blood Groups	A/A - A BLOOD GROUP
✓	Chocolate & Cinnamon	B/B - BLACK COAT COLOUR
✓	Dilute (MLPH)	D/d - CARRIER OF DILUTE [ONE COPY OF DILUTE ALLELE PRESENT]
✓	Long Hair / Short Hair	lh^4/lh^4 - LONGHAIRED
✓	White Gloves (Birman Pattern)	N/N - DOES NOT CARRY THE GLOVING PATTERN
	Amber and Russet Coat Colour - E Locus	E/E- NON-AMBER, DARKLY PIGMENTED COAT COLOUR
	Coat Type - Curly (Devon Rex, Selkirk Rex Type) or Hairless (Sphynx Type) - R Locus	R/R - STRAIGHT COAT
	Curly Coat - Cornish Rex	Cu/Cu - STRAIGHT COAT
	Dominant White & White Spotting [W LOCUS]	w/w- NO WHITE SPOTTING
	Golden/Sunshine Coat (Siberian Type) - Wb Locus	Wb/Wb - NON-SUNSHINE TABBY
	Multiple Drug Resistance (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Oculocutaneous Albinism (Feline)	NORMAL (N/N) - [NO VARIANT DETECTED]
	Pointed Coat Colour and Albinism - C Locus	C/C - NON-POINTED COAT
	Polydactyly (Feline)	pd/pd - NORMAL (TYPICAL) TOES
	Sex Determination - ZFXY (Feline)	CAT IS MALE
	Short Tail (Bobtail) - T Locus (Feline)	t/t - NORMAL LENGTH TAIL

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Breed Sense	Traits	Result
	Short Tail (Japanese Bobtail Type) (Feline)	st/st - NORMAL LENGTH TAIL
	Tabby Coat Colour Pattern - Mc Locus (Feline)	mc^1/mc^1 - BLOTCHED (CLASSIC) TABBY COAT COLOUR PATTERN
	Ticked - Ti Locus (Feline)	ti+/ti+ - NON-TICKED TABBY

Owner's Name : Laurie Butler

Pet Name : Luka

Microchip Number 985113008729249

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.