## **GENETIC ANALYSIS REPORT**

#### **OWNER'S DETAILS**





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**ANIMAL'S DETAILS** 

Registered Name: NIKO LOVE CASANOVA

Registration Number:cfa\_834-02066243Breed:\_xotic ShorthairMicrochip Number:93 00 011116475Sex:Intact Male

Date of Birth: 17 Colour: silver blue tabby blotched

**COLLECTION DETAILS** 

Case Number: 17143 56 Date of Test: 13 12/201

Approved Collection Method: NO (Collected By:

Sample with Lab ID Number 17143158 was inceived at Orivet Genetics, DNA was extracted analysed with the following result reported:

Pet Name

## **TESTS REPORTED**

## **ESULT** 1

<sup>1</sup>Please Note: This is a summary disease and trait it vort. To view more details on each test, including a DNA profile, please log in to your account and view the detailed single DNA report.

HEREDITARY RETINAL DEGENERATION PRA (CEP290)
PYRUVATE KINASE DEFICIENCY (FELINE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Cardiorespiratory (Associated with Heart and Lungs)

HYPERTROPHIC CARDIOMYOPATHY - MAINE COON NEGATIVE / CLEAR [NO VARIANT DETECTED]
HYPERTROPHIC CARDIOMYOPATHY - RAGDOLL NEGATIVE / CLEAR [NO VARIANT DETECTED]

Metabolic (Associated with the Body's Enzymes and Vetabolism)

HYPOKALAEMIA PERIODIC POLYMYOPATHY - BURMESE NEGATIE / CLEAR [NO VARIANT DETECTED]

Urogenital (Associated with the Urinary and Genital Tracts)

POLYCYSTIC KIDNEY DISEASE

NEGATIVE

AR [NO VARIANT DETECTED]

Musculoskeletal (Associated with Bones and Muscles)

SPINAL MUSCULAR ATROPHY NEGATIVE / CLEAR NO VARIANT DETECTED]

Trait (Associated with Phenotype)

AGOUTI Aa - HETEROZYGOUS FOR AGOUTI (OF SPRING CAN BE AGOUTI OR NON-AGOUTI)

AMBER EE - NO COPIES OF THE MUTATION PRESENT FOR AMBER

CHOCOLATE & CINNAMON B/B - FULL COLOUR (CAT DOES NOT CARRY BROWN OR CINNAMON)

COLOURPOINT RESTRICTION (SIAMESE/BURMESE) C/C - FULL COLOUR, CAT DOES NOT CARRY BURMESE (SEPIA) or SIAMESE COLOURP

LONG HAIR / SHORT HAIR N/M1, N/M2, N/M3, N/M4 - CARRIES ONE COPY OF A LONG HAIR VARIANT (CAT HAS SHO

HAIR)

BLOOD GROUPS TYPE A - is DOMINANT to TYPE B (b)

DILUTE dd - TWO COPIES OF DILUTE ALLELE [COAT COLOUR IS DILUTED]

WHITE GLOVES (BIRMAN PATTERN) NN - DOES NOT CARRY THE GLOVING PATTER

# **RESULTS REVIEWED AND CONFIRMED BY:**





#### **EXPLANATION of RESULT TERMINOLOGY**

The terms below are provided to help clarify certain results phrases on your genetic report. The phrases below are those as reported by Orivet and may vary from one label atory to the other.

#### NQ NEGATIVE / CL VARIANT DETECTED

No presence of the variate mutation) has been detected. The animal is clear of the disease and will not pass on any disease-causing mutation.

#### CARRIER IONE COPY OF THE VARIANT DETECTED!

This is also referred to as HETEROZYGOUS. One copy of the normal gene and copy of the affected (mutant) gene has been detected. The animal will not exhibit disease sy in toms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown there t me produce an affected offspring.

## POSITIVE / AT RISK [TV] COPIES OF THE VARIANT DETECTED]

Two copies of the disease gene variant (mutation) have been detected also referred to as HOMOZYGOUS for the variant. The animal may show symptoms (affected) associated with the disease. Appropriate treatment should be pursued by consulting a Veterinarian.

## POSITIVE HETEROZYGOUS ONE OPY OF THE DOMINANT VARIANT DETECTED]

COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of Also referred to as POSITIVE C inheritance. One copy of the normal gene (wild type) and affected (mutant) gene is present. Appropriate treatment should be pursued by consulting a Veterinarian. This result can still be used to produce a clear offspring.

#### POSITIVE HOMOZYGOUS [TWO COP

THE DOMINANT VARIANT DETECTED]
GOUS. wo copies of the disease gene variant Also referred to as POSITIVE HOMO wo copies of the disease gene variant (mutant) have been detected and the animal may show symptoms associated with the disease Please bte: This disease has dominant mode of inheritance so if mated to a clear animal ALL offspring with be AFFECTED - HETEROZYGOUS O E CO

#### NORMAL BY PARENTAGE HISTORY

by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information The sample submitted has had its parentage ve together with the history submitted for the par nts excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease requested.

#### NORMAL BY PEDIGREE

The sample submitted has had its parentage verified by Pedigree. The pedigree has been provided and details (genetic testing reports) of the parents have been included. Parentage could not be determined via DNA profile as no sample was submitted.

#### NO RESULTS AVAILABLE

this test. Sire and Dam information and/or sample may be required. This result is Insufficient information has been provided to provide a mostly associated with tests that have a patent/license and therefore certain restrictions apply. Please contact the laboratory to discuss.

#### **INDETERMINABLE**

is result is mainly due to the sample failing to "cluster" or result in the current The sample submitted has failed to give a conclusive result grouping. A recollection is required at no charge.

Also known as a DNA fingerprint. This is unique for the animal. No animal shares the same DNA profile. An individual's DNA profile is inherited from both parents and can be used for verifying parentage (pedigrees). This profile contains no disease or trait information and is simply a unique DNA signature for that animal.

#### PARENTAGE VERIFICATION

## QUALIFIES/CONFIRMED or DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. The sult is generated and stated for all DNA parentage requests. Parentage confirmation reports can only be generated if a DNA profile has been carried out for Dam, Offspring and possible Sire/s.

#### **PENDING**

Results for this test are still being processed. Some tests are run independently and are reported at a later date. When completed, the result will be emailed.

## APPROVED COLLECTION METHOD (YES)

The sample submitted for testing HAS met the requirements recommended by member bodies for the DNA collection process. The animal has been -Appro identified via its microchip number (Positive ID) and collected by a Veterinarian d Collection Agent. APPROVED COLLECTION METHOD

The sample submitted for testing HAS NOT met the requirements recommended mem. bodies for the DNA collection process.

#### TRAIT (PHENOTYPE)

A feature that an animal is born with (a genetically determined characteristic). Traits are a visual phenotype that range from colour to hair length, and also includes certain features such as tail length. If an individual is AFFECTED for a trait t show that characteristic eg. AFFECTED for the B (Brown) Locus or bb will be brown/chocolate.

#### POSITIVE - SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

#### **CLARIFICATION OF GENETIC TESTING**

to provide breeders with relevant information to improve breeding practices in the interest of animal health. However, The goal of genetic pple process, and may be complicated by several factors. Below is some information to help clarify these factors. genetic inheritance

- 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 simi may be caused by separate mutations and/or genes.

  3) It is possible that the disease a fecting your breed may be what Geneticists call an "oligogenic disease". This is a term to describe the existence of additional genes that may may be caused by separate mutations and/or genes. ticular condition, or affect the penetrance of a particular mutation such that some animals may never develop the variable age of onset for a pa

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 would 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 alway not only from breed to breed but within a breed, and will vary with different diseases. Factors that influence environment. Although genetic testing should be a priority for breeders, we strongly recommend that penetrance are genetics, nutrition al temperament and phenotype also be onsidered when breeding.

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