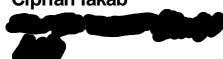
GENETIC ANALYSIS REPORT

OWNER'S DETAILS

Ciprian lakab





Breed Specific Medicine

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ANIMAL'S DE

Registered Name: iffy Joke Yoda-San

Pet Name: da San **Breed:** Exotic Shorthair

Date of Birth / Age: 05/05/

Microchip No: Sex: Colour:

Registration No: LO 2010 - 1292/EXO 498098100005531

COLLECTION DE

Case Number: 17-1452 **Date of Test:** Collected By: Ciprian lakab Approved Coll. Mthd.:

was rec Sample with Lab ID Number 17-14525 yed at Orivet Genetics, DNA was extracted and analysed with the following results reported:

PYRUVATE K JASE (F.) DEFICIENCY - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

MUCOPOLYSA CONTRACTOR OF THE PROPERTY OF TH DISEASE(S):

POLYCYSTIC KIDNEY DISEASE - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
NIEMANN PICK DISEASE - SPHYINGOMYELINOSIS - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
FAMILIAL EPISODIC (YPONALEAMIC POLYMYOPATHY - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
HYPERTROPHIC C (RDIOMYOPATHY - MAINE COON - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
HYPERTROPHIC C (RDIOMYOPATHY - RAGDOLL - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
PROGRESSIVE RETIRAL (ROPHY (PRA-RDC) CEP 290 - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)
SPINAL MUSCULAR ATROPHY (SMA) - MAINE COON - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

GANGLIOSIDOSIS - TYPE IV - NORMAL / CLEAR / NEGATIVE (NO VARIANT DE LA CLEAR / NEGATIVE (NO VARIANT DE LA CLEAR / NEGATIVE (NO VARIANT DETECTED)

ALBINISM - ALB N / ALB N - IO LBINO MUTATION DETECTED

AMBER - E/E - NO COPIES

DILUTE - d/d TWO COPIES

GLYCOGEN STORAGE DISEASE TYPE IV - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

TRAT(S):

DILUTE - d/d TWO COPIES OF DILUTE ALLELE - COAT COLOR IS DILUTED BLOOD GROUP - N/N = TYLE A (non-b/non-b) CAN BE A/A A/AB or AB/AB

CHOCOLATE AND CINNAMON - B/B (FULL COLOUR - CAT DOES NOT CARRY BROWN OF COLOURPOINT RESTRICTION (COUR) - C/C FULL COLOR, DOES NOT CARRY BURMESE (SEPIA)/SIAMESE AGOUTI (ASIP) DOMINANT BLACK - Va - OFFSPRING CAN BE AGOUTI / NON-AGOUTI DEPENDS ON MATING LONGHAIR / SHORTHAIR - N/N = NO IE OF THE 4 LONG HAIR MUTATIONS DETECTED

GLOVING PATTERN (BIRMAN) - N9/N9 NO GLOVE MUTATION DETECTED

N JAMA

Please Note: That in some cases the DNA results alone cannot identify a cat's colour and pattern as genes such as Red (O gene), Bicolour (w's gene also known as S gene) and other genes such as Tick of can mask or alter the appearance of any underlying coat colour and pattern genes. Orivet covers this in the statement (see below) that is attached to the "What is My Cat's Colour?" Poster which describes 210 possible colour and patterns for four well known genes known as Agouti (A), Colour Igment (B), Colour intensity (C) and Density (D).

Colour Statement

> Poster statement: DNA Results represent Genetic Colour and Pattern provided there are no other active colour and/or pattern enes preent ea. Silver; Golden; Tipped; Shaded; Ticked; sex-linked Red, Cream, Tortoiseshell; White, White Spotting aka Bicolour, Van, Mitted, loves; Amber; Dilute Modifier, Charcoal agouti allele and other yet to be determined alleles from Asian Leopard.

RESULTS REVIEWED AND CONFIRMED BY:

Dr. Noam Pik BVs MDSV ofronidis BSc (Hons) 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 laboratory to the other.

NORMAL/CLEAR/NEGATIVE - NO VARIANT DETECTED

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

CARRIER - NE 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 symptoms or develop the disease. Consideration needs to be taken if breeding this animal - if breeding with another carrier or affected or unknown then it may produce an affected offspring.

AFFECTED/POSI THE VARIANT

Two copies of the sease 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.

AFFECTED - HETER ZYGO IS ONE COPY (AUTOSOMAL DOM)

Also referred to as POS ONE COPY or POSITIVE HETEROZYGOUS. This result is associated with a disease that has a dominant mode of 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.

AFFECTED - HOMOZYGOUS OPIES (AUTOSOMAL DOM)

Also referred to as POSITIVE IDMOZYOUS. Two copies of the disease gene variant (mutant) have been detected and the animal may show symptoms associated with the disease. Please Note: This disease has dominant mode of inheritance so if mated to a clear animal ALL offspring with beautiful and the animal ALL offspring with beautiful and the animal animal ALL offspring with beautiful and the animal anim

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its part stage verified by DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history smitted for the parents 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. Pala age could not be determined via DNA profile as no sample was submitted.

NO RESULTS AVAILABLE

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

DNA PROFILE

Also known as a DNA fingerprint. This is unique for the art nal. 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.

INDETERMINABLE

The sample submitted has failed to give a conclusive result. This regult is mainly due to the sample failing to "cluster" or result in the current grouping. This will be repeated and looked at manual, if each substitution is substituted in the current grouping. This will be repeated and looked at manual, if each substitution is substituted in the current grouping.

PARENTAGE VERIFICATION

QUALIFIES/CONFIRMED or DOES NOT QUALIFY/EXCLUDED

Parentage is determined by examining the markers on the DNA profile. A result 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 independent 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 members bodies for the DNA collection process. The animal has been identified via its microchip number (Positive ID) and collected by a Veter parian or Approved Collection Agent.

APPROVED COLLECTION METHOD (NO)

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

TRAT

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 then it will show that characteristic eg. AFFECTED for the B (Brown) Locus or bb will be brown/chocolate.

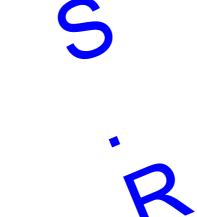
CLARIFICATION OF GIVE. SESTING The goal of genetic testing is to provide breeders with relevant information to improve breeding practices in the terest vanimal health. However, genetic inheritance is not a simple process, and may be complicated by several factors. Below is some information to help clarify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

- 1) Some diseases may demonst the signs of what Geneticists call "genetic heterogeneity". This is a term to describe an apparently single condition that may be caused a more than one mutation and/or gene.
- 2) It is possible that there exists nore 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 you breed may be what Geneticists call an "oligogenic disease". This is a term to describe the existence of additional genes that any prodiffy the action of a dominant gene associated with a disease. These modifier genes may for example give rise to a variable use 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 anoult 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 on, 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 preeders with the latest research from the scientific literature. If breeders have any questions regarding a particular condition, pleas any relevant questions.



Join the Genetic Revolution

