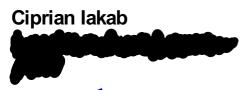
GENETIC ANALYSIS REPORT

OWNER'S DETAILS





Medicine

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ANIMAL'S

Registered Name: Irish Ceam Mechta Pet Name: Irish Cream **Breed: Exotic Shorthair**

Date of Birth / Age: 20/06

Sex: Colour:

Registration No: O) FELIS LO 130452 Microchip No: 498098100005531

Female

COLLECTION

Case Number: Date of Test: Collected By: Ciprian lakab Approved Coll. Mthd.:

Sample with Lab ID Number 17-143 27 was received at Orivet Genetics, DNA was extracted and analysed with the following results reported:

DISEASE(S):

MUCOPO YSACCHARADOSIS - NORMAL / CLEAR / NEGATIVE (NO VARIAN DE SECTED)
POLYCYS NEW JEY DISEASE - NORMAL / CLEAR / NEGATIVE (NO VARIAN DE SCTED) POLYCYSIN KIPLEY DISEASE - NORMAL / CLEAR / NEGATIVE (NO VARIAL DETECTED)
NIEMANN PICK DISEASE - SPHYINGOMYELINOSIS - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

HYPERTROPHIC CARDIOMYOPATHY - MAINE COON - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED) HYPERTROPHIC ARE MOMYOPATHY - RAGDOLL - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

SPINAL MUSCUL R ATROPHY (SMA) - MAINE COON - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

GANGLIOSIDOS - TYPE 1 & 2 - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

PYRUVATE KINAS DEF CIENCY (Feline) - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

HEREDITARY RETINAL DEGENERATION PRA (CEP290) - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)

Burmese Hypokalaemia Periodic Polymyopathy - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED) TRAT(S):

ALBINISM - ALB N / ALB N - NO ALBINO MUTATION DETECTED

AMBER - E/E - NO COPI S OF AMBER MUTATION DETECTED

DILUTE - d/d TWO COPI S OF DILUTE ALLELE - COAT COLOR IS DILUTED BLOOD GROUP - N/N = YPE A non-b/non-b) CAN BE A/A A/AB or AB/AB
CHOCOLATE AND CINNA NON - B/B (FULL COLOUR - CAT DOES NOT CARRY BROWN

COLOURPOINT RESTRICTION (CQLOUR) - C/C FULL COLOR, DOES NOT CARRY BURMESE (SEPIA)/SIAMESE

AGOUTI (ASIP) DOMINANT BLACK - a/a NON AGOUTI SELF COLORED (SOLID COLORED)
LONGHAIR / SHORTHAIR - N/N NONE OF THE 4 LONG HAR MUTATIONS DETECTED

GLOVING PATTERN (BIRMAN) - NO GLOVE MUTATION DETECTED

D AND CONFIRMED BY:

Dr. Noam Pik BVs MDSV

George Sofronidis 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 - ONE COLY OF HE 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/POSITIVE FOR THE ARIANT

Two copies of the disease get e 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 - HETEROZYGOU OPY (AUTOSOMAL DOM)

Also referred to as POSITIVE ONL COST 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 Verinarian. This result can still be used to produce a clear offspring.

AFFECTED - HOMOZYGOUS TWO COPIES (AUTOSOMAL DOM)

Also referred to as POSITIVE HOMOZYG TUS. 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 be AFFEC ED – HOTEROZYGOUS ONE COPY.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verificary, DNA. By interrogating the DNA profiles of the Dam, Sire and Offspring this information together with the history submitted for the parents excludes this animal from having this disease. The controls run confirm that the dog is NORMAL for the disease request 1.

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 control 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 animal. No immal 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 results may be due to the sample failing to "cluster" or result in the current grouping. This will be repeated and looked at manually; if a result cappet be determined, a recollection may be requested.

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 independently at a 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 identified via its microchip number (Positive ID) and collected by a Vetering and on opproved Collection Agent.

APPROVED COLLECTION METHOD (NO)

The sample submitted for testing HAS NOT met the requirements recommended by members 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 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 to one process formation to help clarify these factors.

- 1) Some diseases may a monstate 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 fore than one disease that presents in a similar fashion and segregates in a single breed. These conditions although phenotypic livimilar may be caused by separate mutations and/or genes.
- 3) It is possible that the disease fecting 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 addition.

The range of hereditary diseases contract to increase and we see some that are relatively benign and others that can cause severe and/or fatal disease. Diagnosis of any of ease 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 carry irror breed to breed but within a breed, and will vary with different diseases. Factors that influence penetrance are genetics, nutrity in and extremely irrorment. Although genetic testing should be a priority for breeders, we strongly recommend that temperament and enotype ilso 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 and we will be happy to work with you to answer any relevant questions.



Join the Genetic Revolution

