



AVA/ANKC CANINE HIP & ELBOW DYSPLASIA REPORT

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Please post completed form, radiographs and payment to: AVA Hip Dysplasia Scheme, PO Box 4257, KINGSTON ACT 2604

1) DISCLAIMER OF LIABILITY No liability will be accepted for any circumstances of canine hip and or elbow dysplasia not mentioned in this report which maintests after

The date of this report.

The Tributant Program will be accepted for any circumstances or cannot hip and or elbow dysplasis not mentioned in this report which manufacts and the date of this report.

The Tributant Program will be accepted for any third party who may reisy upon this report wholly or in part. Any third party acting or relying on this report wholly or in part does so at their own risk.

Please note: Turnaround time for results is approximately four weeks

GENETIC ANALYSIS REPORT

OWNER'S DETAILS

Lauren Elgie 35 WALLAROO CIRCUIT NORTH LAKES BRISBANE Queensland 4509 AU



Registered Name: CAREER DOGS' GOLD RAVEN

Registration Number: Pending

Microchip Number: 956000004011333

Date of Birth: 21st Feb 2015

COLLECTION DETAILS

Case Number: 18177319 Date of Test: 11th Apr 2018

Approved Collection Method: NO Collected By:

Sample with Lab ID Number 18177319 was received at Orivet Genetics, DNA was extracted and analysed with the following result reported:

Genetic Pet Care

Labrador Retriever

CRICKET

BLACK

Intact Female

Pet Name:

Breed:

Colour:

Sex:

NEGATIVE / CLEAR [NO VARIANT DETECTED]

GENETIC ANALYSIS SUMMARY

TESTS REPORTED

RESULT 1

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

Urogenital (Associated with the Urinary and Genital Tracts)

CANINE HYPERURICOSURIA NEGATIVE / CLEAR [NO VARIANT DETECTED]
CYSTINURIA (SLC3A1) LABRADOR RETRIEVER TYPE NEGATIVE / CLEAR [NO VARIANT DETECTED]

Neurologic (Associated with the Brain, Spinal and Nerves)

CENTRONUCLEAR MYOPATHY (LABRADOR RETRIEVER TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]
CONGENITAL MYASTHENIC SYNDROME (LABRADOR

RETRIEVER TYPE)

DEGENERATIVE MYELOPATHY

EXERCISE INDUCED COLLAPSE (RETRIEVER TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NEGATIVE / CLEAR [NO VARIANT DETECTED]

NARCOLEPSY (LABRADOR) NEGATIVE / CLEAR [NO VARIANT DETECTED]

Metabolic (Associated with the Body's Enzymes and Cell Metabolism)

COPPER TOXICOSIS (ATP7B & ATP7A) LABRADOR
RETRIEVER TYPE
MALIGNANT HYPERTHERMIA
PYRUVATE KINASE DEFICIENCY (CANINE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]
NEGATIVE / CLEAR [NO VARIANT DETECTED]

Haemolymphatic (Associated with the Circulatory System)

ELLIPTOCYTOSIS B-SPECTRIN (LABRADOR
NEGATIVE / CLEAR [NO VARIANT DETECTED]

RETRIEVER/POODLE TYPE)

Dermatologic (Associated with Skin)

HEREDITARY NASAL PARAKERATOSIS/DRY NOSE

(LABRADOR RETRIEVER TYPE)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Musculoskeletal (Associated with Bones and Muscles)

MILD DISPROPORTIONATE DWARFISM (LABRADOR TYPE) NEGATIVE / CLEAR [NO VARIANT DETECTED]

MYOTUBULAR MYOPATHY X-LINKED (LABRADOR RETRIEVER TYPE)

SKELETAL DYSPLASIA 2 (DWARFISM SD2)

NEGATIVE / CLEAR [NO VARIANT DETECTED]

Ophthalmologic (Associated with the Eyes)

Trait (Associated with Phenotype)

A LOCUS (FAWN/SABLE; TRI/TAN POINTS)
BROWN (345DELPRO) DELETION
BROWN (GLNT331STOP) STOP CODON
BROWN (SER41CYS) INSERTION CODON
D (DILUTE) LOCUS
E LOCUS - (CREAM/RED/YELLOW)
K LOCUS (DOMINANT BLACK)
LONG HAIR GENE (CANINE)
WEIGHT AND APPETITE OBESITY PRONE (LABRADOR RETRIEVER TYPE)

a^t/a - TRI COLOUR / TAN POINTS [CARRYING BICOLOUR GENE]

BB^d - DOES NOT CARRY BROWN or CHOCOLATE (DELETION)

BB^s - DOES NOT CARRY BROWN or CHOCOLATE (STOP CODON)

BB^c - DOES NOT CARRY BROWN or CHOCOLATE (INSERTION)

DD - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL

Ee - BLACK CARRIES EXTENSION (YELLOW/WHITE/APRICOT/RUBY/RED)

KK - DOMINANT BLACK - SOLID [WILL NOT BE BRINDLED or EXPRESS AGOUTI]

CARRIER - CARRYING ONE COPY OF THE PHENOTYPE

INDETERMINABLE [INCONCLUSIVE RESULT]

RESULTS REVIEWED AND CONFIRMED BY:

Dr. Noam Pik BVSc, BMVS, MBA, MACVS)123U39

George Sofronidis BSc (Hons)

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 laboratory to the other.

NEGATIVE / CLEAR [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 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.

POSITIVE / AT RISK ITWO 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 COPY OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE 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.

POSITIVE HOMOZYGOUS [TWO COPIES OF THE DOMINANT VARIANT DETECTED]

Also referred to as POSITIVE HOMOZYGOUS. 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 AFFECTED – HETEROZYGOUS ONE COPY.

NORMAL BY PARENTAGE HISTORY

The sample submitted has had its parentage verified by 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 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

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.

INDETERMINABLE

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

DNA PROFILE

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. 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 and are reported at a later date. When completed, the result will be emailed

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.

POSITIVE – SHOWING THE PHENOTYPE

The animal is showing the trait or phenotype tested.

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.

- 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.



Brisbane Veterinary Specialist Centre

A Division of Straw Veterinary Support Pty Ltd

OPHTHALMIC EXAMINATION FORM

| Owner: Lauren Elgie Address: PO Box 620 Northlakes 4509 | Animal Name: Ericket Microchip No: 956000004011333 |
|--|--|
| ANIMAL: Species: dog Breed: Colden x Lab Coat: colour/type: Black | Birthdate: 21/2/15 Sex: F |
| PREVIOUS EXAMINATION: Not prev examined Not Date of previous examination:// EXAMINATION TECHNIQUE: Direct ophthalmoscopy Biomicroscopy Other MYDRIATIC: Yes No | - |
| REGIONS EXAMINED: LIDS CORNEA IRIS | LENS FUNDUS OTHER |
| Not affected | |
| Undetermined/suspicious | |
| Affected Right | |
| Right Left A P Corn | Right Left Details to the second sec |
| INHERITED DISEASE: Yes NO Suspicious Date of Should be re-examined: Months Yearly SIGNED | 1 101. |
| SHOULD BE TE-EXAMILIEDPIONELSTEATTY STONEL | 7 |