

GENETIC ANALYSIS REPORT



OWNER'S DETAILS

Stephen McLeod-Robertson
80 Ira Buckby Road West
Cashmere, QLD 4500

Add: P.O. Box 110
St Kilda 3182 VIC

Ph: +61 3 9534 1544
Fax: +61 3 9525 3550

email: info@orivet.com.au
website: www.orivet.com.au

A.B.N. 8 722 516 58 99

ANIMAL'S DETAILS

Registered Name: Jehannah Supertrooper
Pet Name: Cooper
Breed: Cavalier King Charles Spaniel
Date of Birth / Age:

Registration No: Pending
Microchip No: 941000019433586
Sex:
Colour: Not Supplied By Client

COLLECTION DETAILS

Case Number: 16-125705
Collected By: Stephen McLeod-Robertson

Date of Test: 28/10/16
Approved Coll. Mthd.:

Sample with Lab ID Number 16-125705 was received at Orivet Genetics, DNA was extracted and analysed with the following results reported:

DNA PROFILE The DNA Profile below represents the genetic identification of Jehannah Supertrooper

SNP01 GG	SNP02 AT	SNP03 GG	SNP04 CC	SNP05 CC	SNP06 CC	SNP07 GC	SNP08 GG	SNP09 GG	SNP10 AA	SNP11 GG
SNP12 GG	SNP13	SNP14 AA	SNP15	SNP16 TT	SNP17 AA	SNP18 GT	SNP19 TT	SNP20 CC	SNP21 TC	SNP22 CG
SNP23 AT	SNP24 CC	SNP25 GG	SNP26	SNP27 AA	SNP28 GG	SNP29 AT	SNP30 GA	SNP31 CC	SNP32 AA	SNP33 CC
SNP34 CC	SNP35 CC	SNP36 AA	SNP37 GG	SNP38 CC	SNP39 GT	SNP40 TT	SNP41 GG	SNP42 CC	SNP43 CC	SNP44 GG
SNP45 CC	SNP46 GG	SNP47 CC	SNP48 CC	SNP49 AA	SNP50 AA	SNP51 GT	SNP52 CC	SNP53 GG	SNP54 CC	SNP55 TT
SNP56 CC	SNP57 CC	SNP58 GG	SNP59 CC	SNP60 TT	SNP61 GA	SNP62 CC	SNP63 CC	SNP64 CG	SNP65 TT	SNP66 TT
SNP67 AA	SNP68 TT	SNP69 CC	SNP70 CC	SNP71 GG	SNP72 GA	SNP73 CC	SNP74 CC	SNP75 CC	SNP76 GG	SNP77 TT
SNP78 CC	SNP79 TT	SNP80 AA	SNP81 GG	SNP82 CT	SNP83 CT	SNP84 CC	SNP85 AA	SNP86 CC	SNP87 AA	SNP88 GG



RESULTS REVIEWED AND CONFIRMED BY:

Dr. Noam Pik BVs MDSV

George Sofronidis BSc (Hons)

GENETIC ANALYSIS REPORT

OWNER'S DETAILS

Stephen McLeod-Robertson

80 Ira Buckby Road West

Cashmere, QLD 4500



Add: P.O. Box 110
St Kilda 3182 VIC

Ph: +61 3 9534 1544

Fax: +61 3 9525 3550

email: info@orivet.com.au
website: www.orivet.com.au

A.B.N. 8 722 516 58 99

ANIMAL'S DETAILS

Registered Name: Jehannah Supertrooper
Pet Name: Cooper
Breed: Cavalier King Charles Spaniel
Date of Birth / Age:

Registration No: Pending
Microchip No: 941000019433586
Sex:
Colour: Not Supplied By Client

COLLECTION DETAILS

Case Number: 16-125705
Collected By: Stephen McLeod-Robertson

Date of Test: 28/10/16
Approved Coll. Mthd.:


Sample with Lab ID Number 16-125705 was received at Orivet Genetics, DNA was extracted and analysed with the following results reported:

DISEASE(S): DRY EYE CURLY COAT SYNDROME - NORMAL / CLEAR / NEGATIVE (NO VARIANT DETECTED)



RESULTS REVIEWED 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 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/POSITIVE FOR THE VARIANT

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.

AFFECTED – HETEROZYGOUS ONE COPY (AUTOSOMAL DOM)

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.

AFFECTED – HOMOZYGOUS TWO COPIES (AUTOSOMAL DOM)

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 will 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.

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.

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. This will be repeated and looked at manually; if a result cannot 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 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 identified via its microchip number (Positive ID) and collected by a Veterinarian 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.

TRAIT

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 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 and we will be happy to work with you to answer any relevant questions.

Join the Genetic Revolution

ORIVET GENETIC PET CARE PO BOX 110, ST KILDA 3182 VIC AUSTRALIA orivet.com.au

The logo for Orivet Genetic Pet Care features a stylized white outline of a dog's head and neck, positioned above the word "Orivet" in a large, elegant, white serif font. Below "Orivet" is the phrase "Genetic Pet Care" in a smaller, white, sans-serif font. The entire logo is set against a dark teal background.

Orivet
Genetic Pet Care