Animal Genetics INCORPORATED
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# Canine Genetic Testing Report

**Submitted By**

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Fredericksburg, OH 44627
United States

**Subject Dog** 00288073

Date Received: 8/16/2021

Dog Name: **Sophie**
Breed: French Bulldog
Phenotype: Blue Merle

Registration:
Microchip:
Sex: Female
Birth: 07/14/2021

**Sire**

Sire Name:
Breed:
Registration:
Phenotype:

**Dam**

Dam Name:
Breed:
Registration:
Phenotype:

## Coat Color Testing

| | | | |
|---|---|---|---|
| X | A Locus-Ay | n/n | Dog does not carry the gene responsible for fawn/sable coat color. |
| X | A Locus-Aw | n/n | Negative for wild-sable. |
| X | A Locus-At | n/n | Dog does not carry the tan points/tricolor gene. |
| X | A Locus-a | a/a | Dog has two copies of the gene responsible for recessive black coat color. |
| X | B Locus | B/B | Dog does not carry the brown allele, and can never pass on the gene for brown to future offspring |
| X | Cocoa | n/n | Negative: Dog does not carry the cocoa mutation. |
| X | D Locus | d/d | Dog is homozygous for the dilution gene. The dog will always pass on a copy of the dilution gene to any offspring. |
| X | E Locus- EM | n/EM | Dog has one copy of the allele for melanistic mask |
| X | E Locus- e | E/e | Dog carries the allele responsible for the yellow coat color and could pass on either allele to any offspring. |
| X | K Locus-KB | n/n | Dog does not have the dominant black gene, and the color pattern is determined by the Agouti gene. |
| X | Spotting | N/N | Negative: Dog is negative for the MITF variant associated with parti-color in some breeds. |
| | Harlequin | | Not Tested |
| X | Merle | n/M | Dog has one copy of the "M" merle allele and one negative "m" copy of merle allele. The dog can pass either allele on to any offspring. |

## Coat Type Testing

| | | | |
|---|---|---|---|
| X | Hair Length | L/l4 | Short Hair: Dog has one copy of the L4 long hair allele. |
| X | Hair Curl | n/n | Non-Curly Coat: Dog does not carry the mutation for coat curl. |
| X | Furnishings | n/n | Dog is negative for the Furnishings mutation. |
| X | Shedding | n/n | Negative: Dog is unlikely to be a high shedding dog. |

## Genetic Disorders

| | | | |
|---|---|---|---|
| | CDDY | | Not Tested |
| | CDPA | | Not Tested |
| X | CMR1 | n/n | Clear: Dog tested negative for Canine Multifocal Retinopathy Type 1. |
| | cord1-PRA | | Not Tested |
| X | DM | n/n | Clear: Dog is negative for the Degenerative Myelopathy mutation. |
| X | HUU | n/n | Clear: Dog tested negative for the Hyperuricosuria. |
| X | JHC | n/n | Clear: Dog tested negative for the HSF-4 Hereditary Cataracts mutation. |
| | | | |
| | | | |
| | | | |

## Genetic Marker Results

Run Date: Not Tested

| | | | | | | |
|---|---|---|---|---|---|---|
| - AHT121 | - AHT137 | - AHTh171 | - AHTh260 | - AHTk211 | - AHTk253 | - C22-279 |
| - CAN-AMEL | - FH2054 | - FH2848 | - INRA21 | - INU005 | - INU030 | - INU055 |
| - REN54P11 | - REN162C04 | - REN169D01 | - REN169O18 | - REN247M23 | | |

## Additional Comments

A-Panel: a/a - Homozygous for recessive black.
E-Panel: EM/e-Dog has one copy of the melanistic mask allele and one copy of the recessive yellow allele.