



## DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

|  |  |
|--|--|
| <b>Provided Information:</b><br><br>Name: <b>TURBO RANSOM REESE</b><br><br>Registration:           | <b>Case: NCD184112</b><br>Date Received: 01-Mar-2022<br>Report Issue Date: 18-Mar-2022<br>Report ID: 4233-5919-4397-7028<br><br><p style="text-align: center; font-size: small;">Verify report at <a href="http://www.vgl.ucdavis.edu/verify">www.vgl.ucdavis.edu/verify</a></p> |
| DOB: <b>09/25/2021</b> Sex: <b>Male</b> Breed: <b>French Bulldog</b> Color: <b>Chocolate Merle</b> |  |
| Call Name: <b>Turbo</b>  |  |

**RESULT**

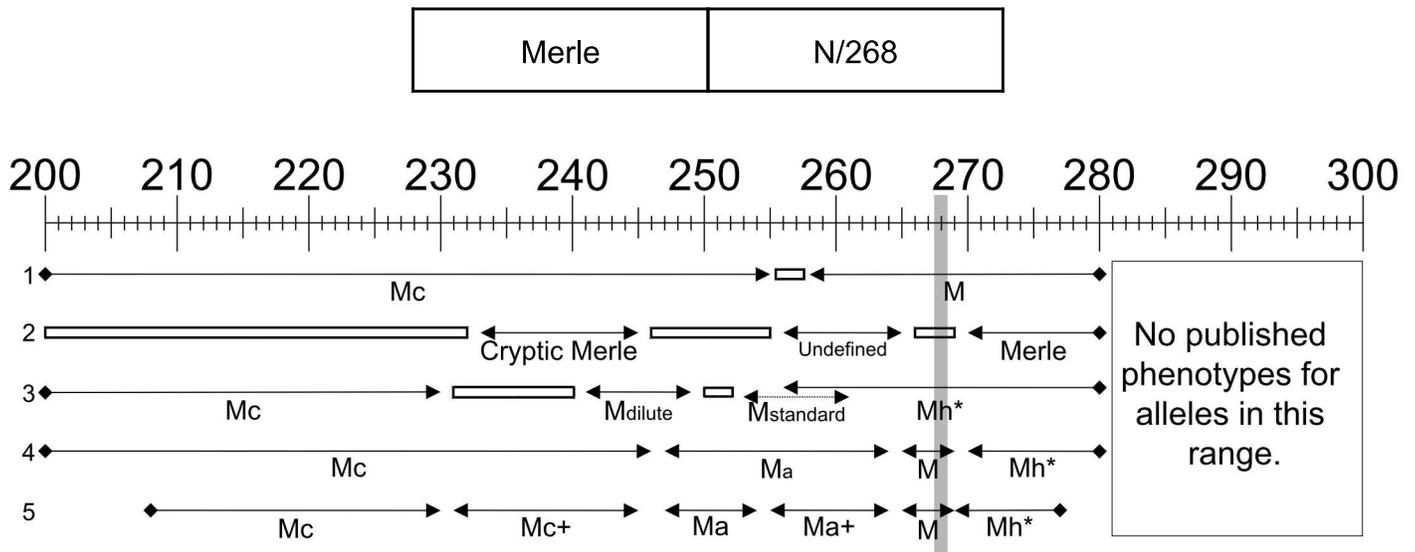
**INTERPRETATION**

| Locus                           | Genotype                                 | Interpretation  |
|---------------------------------|--|---|
| <b>MC1R (E LOCUS)</b>           | <b>E<sup>m</sup>/E<sup>m</sup></b>       | 2 copies of mask.   |
| <b>BROWN (B LOCUS)</b>          | <b>B/B</b>                               | Does not carry brown - cannot have brown offspring.   |
| <b>DILUTE (D LOCUS)</b>         | <b>D/d<sup>1</sup></b>                   | Carries 1 copy of the dilution variant.   |
| <b>DOMINANT BLACK (K LOCUS)</b> | <b>K/N</b>                               | 1 copy of dominant black is present. *  |
| <b>LEGACY AGOUTI</b>            | <b>a/a</b>                               | Homozygous for recessive black.   |
| <b>AGOUTI (A LOCUS)</b>         | <b>ASIP<sup>a</sup>/ASIP<sup>a</sup></b> | Two copies of recessive black.  |
| <b>MERLE</b>                    | <b>N/268</b>                             | One copy of the merle associated SINE insertion. See attachment (last page) for additional information. |
| <b>PIEBALD (S LOCUS)</b>        | <b>N/N</b>                               | Dog has no copies of piebald.   |
| <b>INTENSITY DILUTION</b>       | <b>N/In</b>                              | Carrier of intensity dilution. Dog is unlikely to exhibit the intensity dilution phenotype.             |

**ADDITIONAL INFORMATION FOR  
 MERLE RESULTS**

|   |  |
|---|--|
| <b>Provided Information:</b><br><br><b>Name:</b> TURBO RANSOM REESE<br><br><b>Registration:</b> | <b>Case:</b> NCD184112<br><b>Date Received:</b> 01-Mar-2022<br><b>Report Issue Date:</b> 18-Mar-2022<br><b>Report ID:</b> 4233-5919-4397-7028<br><br>Verify report at <a href="http://www.vgl.ucdavis.edu/verify">www.vgl.ucdavis.edu/verify</a> |
| <b>DOB: 09/25/2021 Sex: Male Breed: French Bulldog Color: Chocolate Merle</b>                   |  |
| <b>Call Name: Turbo</b>   |  |

Several interpretations and nomenclatures for the Merle variant have been proposed. Below is a graphical display of the merle alleles detected and the publications that define these nomenclatures.



Open boxes represent unassigned size variants within a specific naming system.

<sup>1</sup>Previous merle pattern result reported by the VGL.  
 Mc=200-255, M=258-280

<sup>2</sup>Merle pattern nomenclature defined by Clark et al. 2006.

<sup>3</sup>Merle pattern nomenclature defined by Murphy et al. 2018.  
 Mc=200-230, M<sup>dilute</sup>=241-249, M<sup>standard</sup>=253-261, M<sup>h</sup>=256-280

<sup>4</sup>Merle pattern nomenclature defined by Ballif et al. 2018.  
 Mc=200-246, Ma=247-264, M=265-269, M<sup>h</sup>=270-280

<sup>5</sup>Merle pattern nomenclature defined by Langevin et al. 2018.  
 Mc=208-230, Mc<sup>+</sup>=231-245, Ma=247-254, Ma<sup>+</sup>=255-264, M=265-269, M<sup>h</sup>=269-277

\* M<sup>h</sup> “harlequin” is not the true Great Dane Harlequin (H) identified by Clark et al. 2008.



## COCOA TEST REPORT

|  |                                       |
|--|---------------------------------------|
| <i>Provided Information:</i>   | <i>Case:</i> <b>NCD184112</b>         |
| <i>Name:</i> <b>TURBO RANSOM REESE</b>   | <i>Date Received:</i> 01-Mar-2022     |
| <i>Registration:</i>   | <i>Report Issue Date:</i> 15-Mar-2022 |
|  | <i>Report ID:</i> 1840-2296-9895-7099 |
| Verify report at <a href="http://www.vgl.ucdavis.edu/verify">www.vgl.ucdavis.edu/verify</a>                                    |                                       |
| <i>DOB:</i> <b>09/25/2021</b> <i>Sex:</i> <b>Male</b> <i>Breed:</i> <b>French Bulldog</b> <i>Color:</i> <b>Chocolate Merle</b> |                                       |
| <i>Call Name:</i> <b>Turbo</b>   |                                       |

### RESULT

### INTERPRETATION

|              |              |
|--------------|--------------|
| <b>COCOA</b> | <b>co/co</b> |
|--------------|--------------|

2 copies of the cocoa variant.

## Canine Genetic Testing Report



Submitted By  
Sarah Reese  
[REDACTED]  
Independence, MO 64056  
United States

**Subject Dog** 00235105 Date Received: 2/4/2021

Dog Name: **Turbo Ransom Reese**  
Breed: French Bulldog  
Phenotype: Chocolate Merle

Registration:  
Microchip:  
Sex: Male Birth: 09/25/2020

**Sire**

Sire Name: Masterpiece Picasso  
Breed: French Bulldog  
Registration: NP48359406  
Phenotype: Merle

**Dam**

Dam Name: Masterpiece Lilac Lilly  
Breed: French Bulldog  
Registration: NP50784601  
Phenotype: Lilac

| 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       | co/co | Cocoa: Dog has two copies of the cocoa mutation.  |
| X                  | D Locus     | D/d   | Dog carries the dilution gene, but will appear full color.  |
| X                  | E Locus- EM | EM/EM | Dog has two copies of allele for melanistic mask.   |
| X                  | E Locus- e  | E/E   | Dog does not carry the gene responsible for yellow coat color. This dog will never pass on the allele for yellow coat color.            |
| X                  | K Locus-KB  | n/KB  | Dog has one copy of the dominant black gene. Dog is self-colored and can pass on that gene to any offspring.                            |
| 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. |

| 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/DM | Carrier: Dog carries one copy of the mutation associated with Degenerative Myelopathy, and could pass on the mutation to any offspring. |
| 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.   |

| Coat Type Testing |             |     |  |
|-------------------|-------------|-----|--|
| X                 | Hair Length | L/L | Short Hair: Dog does not have the 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 Marker Results |           |           |           |           |        |         | Run Date:  |
|------------------------|-----------|-----------|-----------|-----------|--------|---------|------------|
| -                      | -         | -         | -         | -         | -      | -       | Not Tested |
| AHT121                 | AHT137    | AHT171    | AHT260    | AHT211    | AHT253 | 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/EM-Dog has two copies of the melanistic mask allele and does not carry the recessive yellow allele.