

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

MAIDSTONE EDLYN JOLLY ROGER THAT, CH  
*registered name*

LABRADOR RETRIEVER  
*breed*

C109054  
*film/test/lab #*

956000005059790  
*tattoo/microchip/DNA profile*

1948469  
*application number*

11/25/2020  
*date of report*

**RESULTS:**

NORMAL: NO EVIDENCE OF CONGENITAL OR ADULT ONSET INHERITED HEART DISEASE --  
AUSCULTATION & ECHO (NOTE: THE CONGENITAL CLEARANCE IS CONSIDERED PERMANENT;  
ADULT ONSET CLEARANCE VALID FOR 1 YEAR FROM TEST DATE 10/30/2020.)

SR98113904  
*registration no.*

M  
*sex*

03/23/2017  
*date of birth*

43  
*age at evaluation in months*



A Not-For-Profit Organization

LR-ACA2396/43M-VPI  
*O.F.A. NUMBER*

*This number issued with the right to correct or  
revoke by the Orthopedic Foundation for Animals.*

NORMAL AO/CONG, AUSC/ECHO

**owner** DIANE MCCLURG; ERIN MCROBB  
7201 HUNNINGTON  
SANGER TX 76266

OFA eCert



Verify certificate  
with QR scan

G.G.KELLER, D.V.M., M.S., DACVR  
CHIEF OF VETERINARY SERVICES

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 11/25/2020

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFFA.ORG](mailto:CORRECTIONS@OFFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@offa.org](mailto:ofa@offa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073



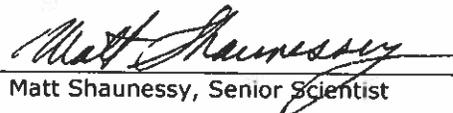
## Hereditary Nasal Parakeratosis DNA Test

Case Number: 105055  
Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**  
Call Name: **Mike**  
Sex: **Male**  
Birthdate: **03/23/2017**  
Breed: **Labrador Retriever**  
Coat Color: **Yellow**  
Registered Name: **Maidstone Edlyn Jolly Roger That**  
Registration Number: **SR98113904**  
Microchip/Tattoo:  
Report Date: **3/26/2018**  
DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## PRA-prcd DNA Test

Case Number: 105056  
Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**  
Call Name: **Mike**  
Sex: **Male**  
Birthdate: **03/23/2017**  
Breed: **Labrador Retriever**  
Coat Color: **Yellow**  
Registered Name: **Maidstone Edlyn Jolly Roger That**  
Registration Number: **SR98113904**  
Microchip/Tattoo:  
Report Date: 3/26/2018  
DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Centronuclear Myopathy DNA Test

Case Number: 105051

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: **3/27/2018**

DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Coat Length DNA Test

Case Number: 105058

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **Clear (FGF5:c284G>T -/-; those having 2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Coat Color DNA Test

Case Number: 105057

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **DD C.22G>A -/-**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Cystinuria DNA Test

Case Number: 105052

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Exercise Induced Collapse DNA Test

Case Number: 105054

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Degenerative Myelopathy DNA Test

Case Number: 105053

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **Clear (2 copies of the normal allele)**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



## Coat Color DNA Test

Case Number: 105057

Owner: Diane McClurg  
2405 N Crest Dr  
Plano TX 75075

### Canine Information

DNA ID Number: **150974**

Call Name: **Mike**

Sex: **Male**

Birthdate: **03/23/2017**

Breed: **Labrador Retriever**

Coat Color: **Yellow**

Registered Name: **Maidstone Edlyn Jolly Roger That**

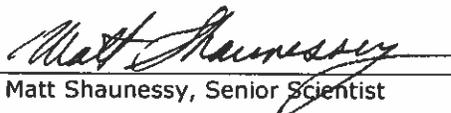
Registration Number: **SR98113904**

Microchip/Tattoo:

Report Date: 3/26/2018

DNA Result: **DD C.22G>A -/-**

These results are based on data obtained from analysis of unique DNA loci in accordance with the standards and protocols set forth by DDC Veterinary. The accuracy of the result is based on the information and the quality of samples provided by the client. DDC Veterinary does not assume responsibility of errors due to mislabeled or incorrectly sampled submissions.

  
Matt Shaunessy, Senior Scientist



This supplemental sheet can be used as a guide to help clients better understand their DNA Coat Color results.

More comprehensive information about DNA Color testing can be found at our webpage:

<http://www.vetdnacenter.com/canine-dna-coat-color.html>

|                       |   |  |
|-----------------------|---|--|
| <b>BB</b>             | S41C <b>-/-</b> , Q331X <b>-/-</b> , 345delP <b>-/-</b> | (does not carry brown)                     |
| <b>Bb</b>             | S41C <b>+/-</b> , Q331X <b>-/-</b> , 345delP <b>-/-</b> | (brown carrier)                            |
| <b>Bb</b>             | S41C <b>-/-</b> , Q331X <b>+/-</b> , 345delP <b>-/-</b> | (brown carrier)                            |
| <b>Bb</b>             | S41C <b>-/-</b> , Q331X <b>-/-</b> , 345delP <b>+/-</b> | (brown carrier)                            |
| <b>Bb<sub>2</sub></b> | S41C <b>+/-</b> , Q331X <b>-/-</b> , 345delP <b>+/-</b> | (carries 2 copies of brown alleles)        |
| <b>bb</b>             | S41C, Q331X, 345delP                                    | (brown phenotype; 2 or more SNPs detected) |

\*Please note that brown color is also commonly referred to as “liver” or “chocolate” and occasionally “red” in a few breeds as well.

|           |         |            |                         |
|-----------|---------|------------|-------------------------|
| <b>EE</b> | R306ter | <b>-/-</b> | (does not carry yellow) |
| <b>Ee</b> | R306ter | <b>+/-</b> | (yellow carrier)        |
| <b>ee</b> | R306ter | <b>+/+</b> | (yellow phenotype)      |

\*Please note that yellow color in Labrador Retrievers can be interpreted differently in other breeds. The phenotype could include a number of lighter colors described by breeders as cream, white, clear red, red, or apricot.

|           |         |            |                           |
|-----------|---------|------------|---------------------------|
| <b>DD</b> | C.22G>A | <b>-/-</b> | (does not carry dilution) |
| <b>Dd</b> | C.22G>A | <b>+/-</b> | (dilute carrier)          |
| <b>dd</b> | C.22G>A | <b>+/+</b> | (dilute phenotype)        |

|                                   |       |            |  |
|-----------------------------------|-------|------------|--|
| <b>E<sup>m</sup>E<sup>m</sup></b> | M264V | <b>+/+</b> | (2 copies of dominant mask allele)                                     |
| <b>E<sup>m</sup>E<sup>x</sup></b> | M264V | <b>+/-</b> | (1 copy of dominant mask allele & 1 copy of recessive non-mask allele) |
| <b>E<sup>x</sup>E<sup>x</sup></b> | M264V | <b>-/-</b> | (2 copies of recessive non-mask allele)                                |

|           |           |            |   |
|-----------|-----------|------------|---|
| <b>NN</b> | spot SINE | <b>-/-</b> | (2 copies of the non-piebald allele)                                |
| <b>NS</b> | spot SINE | <b>+/-</b> | (1 copy of the non-piebald allele and 1 copy of the piebald allele) |
| <b>SS</b> | spot SINE | <b>+/+</b> | (2 copies of the piebald allele)                                    |

|                                   |        |            |  |
|-----------------------------------|--------|------------|--|
| <b>K<sup>B</sup>K<sup>B</sup></b> | G23del | <b>+/+</b> | (2 copies of dominant allele)                            |
| <b>K<sup>B</sup>K<sup>y</sup></b> | G23del | <b>+/-</b> | (1 copy of dominant allele & 1 copy of recessive allele) |
| <b>K<sup>y</sup>K<sup>y</sup></b> | G23del | <b>-/-</b> | (2 copies of recessive allele)                           |

|                                   |      |            |   |
|-----------------------------------|------|------------|---|
| <b>a<sup>y</sup>a<sup>y</sup></b> | A82S | <b>+/+</b> | (2 copies of fawn/sable allele)                                 |
| <b>a<sup>y</sup>a<sup>w</sup></b> | A82S | <b>+/-</b> | (1 copy of fawn/sable allele & 1 copy of non-fawn/sable allele) |
| <b>a<sup>w</sup>a<sup>w</sup></b> | A82S | <b>-/-</b> | (2 copies of non-fawn/sable allele)                             |

|                                   |      |            |   |
|-----------------------------------|------|------------|---|
| <b>aa</b>                         | R96C | <b>+/+</b> | (2 copies of recessive black allele)                                      |
| <b>aa<sup>x</sup></b>             | R96C | <b>+/-</b> | (1 copy of recessive black allele & 1 copy of non-recessive black allele) |
| <b>a<sup>x</sup>a<sup>x</sup></b> | R96C | <b>-/-</b> | (2 copies of non-recessive black allele)                                  |

|                                   |          |            |   |
|-----------------------------------|----------|------------|---|
| <b>a<sup>w</sup>a<sup>w</sup></b> | tan SINE | <b>-/-</b> | (2 copies of the non-tan point allele)                                  |
| <b>a<sup>w</sup>a<sup>t</sup></b> | tan SINE | <b>+/-</b> | (1 copy of the non-tan point allele and 1 copy of the tan point allele) |
| <b>a<sup>t</sup>a<sup>t</sup></b> | tan SINE | <b>+/+</b> | (2 copies of the tan point allele)                                      |

|           |                |            |   |
|-----------|----------------|------------|---|
| <b>NN</b> | PSMB7:c.146T>G | <b>-/-</b> | (does not carry harlequin)  |
| <b>NH</b> | PSMB7:c.146T>G | <b>+/-</b> | (1 copy of the harlequin, harlequin is expressed if merle gene is also present) |



This supplemental sheet can be used as a guide to help clients better understand their DNA Coat Color results.

More comprehensive information about DNA Color testing can be found at our webpage:

<http://www.vetdnacenter.com/canine-dna-coat-color.html>

|                       |   |   |
|-----------------------|---|---|
| <b>BB</b>             | <b>S41C -/-, Q331X -/-, 345delP -/-</b> | <b>(does not carry brown)</b>                     |
| <b>Bb</b>             | <b>S41C +/-, Q331X -/-, 345delP -/-</b> | <b>(brown carrier)</b>                            |
| <b>Bb</b>             | <b>S41C -/-, Q331X +/-, 345delP -/-</b> | <b>(brown carrier)</b>                            |
| <b>Bb</b>             | <b>S41C -/-, Q331X -/-, 345delP +/-</b> | <b>(brown carrier)</b>                            |
| <b>Bb<sub>2</sub></b> | <b>S41C +/-, Q331X -/-, 345delP +/-</b> | <b>(carries 2 copies of brown alleles)</b>        |
| <b>bb</b>             | <b>S41C, Q331X, 345delP</b>             | <b>(brown phenotype; 2 or more SNPs detected)</b> |

\*Please note that brown color is also commonly referred to as “liver” or “chocolate” and occasionally “red” in a few breeds as well.

|           |                |            |                                |
|-----------|----------------|------------|--------------------------------|
| <b>EE</b> | <b>R306ter</b> | <b>-/-</b> | <b>(does not carry yellow)</b> |
| <b>Ee</b> | <b>R306ter</b> | <b>+/-</b> | <b>(yellow carrier)</b>        |
| <b>ee</b> | <b>R306ter</b> | <b>+/+</b> | <b>(yellow phenotype)</b>      |

\*Please note that yellow color in Labrador Retrievers can be interpreted differently in other breeds. The phenotype could include a number of lighter colors described by breeders as cream, white, clear red, red, or apricot.

|                                   |                          |            |  |
|-----------------------------------|--------------------------|------------|--|
| <b>DD</b>                         | <b>C.22G&gt;A</b>        | <b>-/-</b> | <b>(does not carry dilution)</b>   |
| <b>Dd</b>                         | <b>C.22G&gt;A</b>        | <b>+/-</b> | <b>(dilute carrier)</b>  |
| <b>dd</b>                         | <b>C.22G&gt;A</b>        | <b>+/+</b> | <b>(dilute phenotype)</b>  |
| <b>E<sup>M</sup>E<sup>M</sup></b> | <b>M264V</b>             | <b>+/+</b> | <b>(2 copies of dominant mask allele)</b>  |
| <b>E<sup>M</sup>E<sup>x</sup></b> | <b>M264V</b>             | <b>+/-</b> | <b>(1 copy of dominant mask allele &amp; 1 copy of recessive non-mask allele)</b>      |
| <b>E<sup>x</sup>E<sup>x</sup></b> | <b>M264V</b>             | <b>-/-</b> | <b>(2 copies of recessive non-mask allele)</b>   |
| <b>NN</b>                         | <b>spot SINE</b>         | <b>-/-</b> | <b>(2 copies of the non-piebald allele)</b>  |
| <b>NS</b>                         | <b>spot SINE</b>         | <b>+/-</b> | <b>(1 copy of the non-piebald allele and 1 copy of the piebald allele)</b>             |
| <b>SS</b>                         | <b>spot SINE</b>         | <b>+/+</b> | <b>(2 copies of the piebald allele)</b>  |
| <b>K<sup>B</sup>K<sup>B</sup></b> | <b>G23del</b>            | <b>+/+</b> | <b>(2 copies of dominant allele)</b>   |
| <b>K<sup>B</sup>K<sup>y</sup></b> | <b>G23del</b>            | <b>+/-</b> | <b>(1 copy of dominant allele &amp; 1 copy of recessive allele)</b>                    |
| <b>K<sup>y</sup>K<sup>y</sup></b> | <b>G23del</b>            | <b>-/-</b> | <b>(2 copies of recessive allele)</b>  |
| <b>a<sup>y</sup>a<sup>y</sup></b> | <b>A82S</b>              | <b>+/+</b> | <b>(2 copies of fawn/sable allele)</b>   |
| <b>a<sup>y</sup>a<sup>w</sup></b> | <b>A82S</b>              | <b>+/-</b> | <b>(1 copy of fawn/sable allele &amp; 1 copy of non-fawn/sable allele)</b>             |
| <b>a<sup>w</sup>a<sup>w</sup></b> | <b>A82S</b>              | <b>-/-</b> | <b>(2 copies of non-fawn/sable allele)</b>   |
| <b>aa</b>                         | <b>R96C</b>              | <b>+/+</b> | <b>(2 copies of recessive black allele)</b>  |
| <b>aa<sup>x</sup></b>             | <b>R96C</b>              | <b>+/-</b> | <b>(1 copy of recessive black allele &amp; 1 copy of non-recessive black allele)</b>   |
| <b>a<sup>x</sup>a<sup>x</sup></b> | <b>R96C</b>              | <b>-/-</b> | <b>(2 copies of non-recessive black allele)</b>  |
| <b>a<sup>w</sup>a<sup>w</sup></b> | <b>tan SINE</b>          | <b>-/-</b> | <b>(2 copies of the non-tan point allele)</b>  |
| <b>a<sup>w</sup>a<sup>t</sup></b> | <b>tan SINE</b>          | <b>+/-</b> | <b>(1 copy of the non-tan point allele and 1 copy of the tan point allele)</b>         |
| <b>a<sup>t</sup>a<sup>t</sup></b> | <b>tan SINE</b>          | <b>+/+</b> | <b>(2 copies of the tan point allele)</b>  |
| <b>NN</b>                         | <b>PSMB7:c.146T&gt;G</b> | <b>-/-</b> | <b>(does not carry harlequin)</b>  |
| <b>NH</b>                         | <b>PSMB7:c.146T&gt;G</b> | <b>+/-</b> | <b>(1 copy of the harlequin, harlequin is expressed if merle gene is also present)</b> |