

## Coat Color and Trait Certificate

**Call Name:** Marley  
**Registered Name:** Marley Mae VI  
**Breed:** Golden Retriever  
**Sex:** Female  
**DOB:** May 2020

**Laboratory #:** 266145  
**Registration #:** SS19391806  
**Microchip #:** 991003000374985  
**Certificate Date:** Nov. 24, 2021

**This canine's DNA showed the following genotype(s):**

| Coat Color/Trait Test                | Gene         | Genotype | Interpretation                |
|--------------------------------------|--------------|----------|-------------------------------|
| IC Locus (Improper Coat/Furnishings) | <i>RSPO2</i> | IC/IC    | No furnishings, improper coat |
| SD Locus (Shedding)                  | <i>MC5R</i>  | SD/SD    | High shedding                 |

### Interpretation:

This dog carries two copies of **IC** and will therefore have no furnishings (improper coat). This dog does not carry the mutation for weak furnishings. However, the overall coat type of this dog is dependent on the combination of this dog's genotypes at the L, Cu, and IC loci. This dog will pass **IC** (improper coat) to 100% of its offspring and can produce puppies with improper coat if bred with a dog that carries one or two copies of the mutation for improper coat.

This dog carries two copies of **SD** which has been associated with higher shedding. However, the overall degree of shedding for this dog is dependent on the combination of this dog's genotypes at the SD and IC loci. This dog will pass **SD** on to 100% of its offspring.

Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



**Blake C Ballif, PhD**  
Laboratory & Scientific Director



**Christina J Ramirez, PhD, DVM, DACVP**  
Medical Director

Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics®. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.

## Canine Genetic Health Certificate™

**Call Name:** Marley  
**Registered Name:** Marley Mae VI  
**Breed:** Golden Retriever  
**Sex:** Female  
**DOB:** May 2020

**Laboratory #:** 266145  
**Registration #:** SS19391806  
**Microchip #:** 991003000374985  
**Certificate Date:** Nov. 24, 2021

**This canine's DNA showed the following genotype(s):**

| Disease                                                        | Gene          | Genotype | Interpretation |
|----------------------------------------------------------------|---------------|----------|----------------|
| Degenerative Myelopathy                                        | <i>SOD1</i>   | WT/WT    | Normal (clear) |
| Ichthyosis (Golden Retriever Type)                             | <i>PNPLA1</i> | WT/WT    | Normal (clear) |
| Neuronal Ceroid Lipofuscinosis 5 (Golden Retriever Type)       | <i>CLN5</i>   | WT/WT    | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 1                | <i>SLC4A3</i> | WT/WT    | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 2                | <i>TTC8</i>   | WT/M     | Carrier        |
| Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration | <i>PRCD</i>   | WT/WT    | Normal (clear) |

WT, wild type (normal); M, mutant; Y, Y chromosome (male)



**Blake C Ballif, PhD**  
Laboratory & Scientific Director



**Christina J Ramirez, PhD, DVM, DACVP**  
Medical Director

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results. Genetic counseling is available at Paw Print Genetics.

## Laboratory Report

|                      |               |                         |                  |
|----------------------|---------------|-------------------------|------------------|
| <b>Laboratory #:</b> | 266145        | <b>Call Name:</b>       | Marley           |
| <b>Order #:</b>      | 121117        | <b>Registered Name:</b> | Marley Mae VI    |
| <b>Ordered By:</b>   | Angela Miller | <b>Breed:</b>           | Golden Retriever |
| <b>Ordered:</b>      | Oct. 23, 2021 | <b>Sex:</b>             | Female           |
| <b>Received:</b>     | Nov. 16, 2021 | <b>DOB:</b>             | May 2020         |
| <b>Reported:</b>     | Nov. 24, 2021 | <b>Registration #:</b>  | SS19391806       |
|                      |               | <b>Microchip #:</b>     | 991003000374985  |

### Results:

| Disease                                                        | Gene          | Genotype | Interpretation |
|----------------------------------------------------------------|---------------|----------|----------------|
| Degenerative Myelopathy                                        | <i>SOD1</i>   | WT/WT    | Normal (clear) |
| Ichthyosis (Golden Retriever Type)                             | <i>PNPLA1</i> | WT/WT    | Normal (clear) |
| Neuronal Ceroid Lipofuscinosis 5 (Golden Retriever Type)       | <i>CLN5</i>   | WT/WT    | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 1                | <i>SLC4A3</i> | WT/WT    | Normal (clear) |
| Progressive Retinal Atrophy, Golden Retriever 2                | <i>TTC8</i>   | WT/M     | Carrier        |
| Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration | <i>PRCD</i>   | WT/WT    | Normal (clear) |

WT, wild type (normal); M, mutant; Y, Y chromosome (male)

### Interpretation:

Molecular genetic analysis was performed for six specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in five of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these five mutations. However, we identified one normal copy and one mutant copy of the DNA sequences for *TTC8*. Thus, this dog is a carrier of Progressive Retinal Atrophy, Golden Retriever 2.

### Recommendations:

Progressive Retinal Atrophy, Golden Retriever 2 is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *TTC8* gene, this dog is a carrier of this disease. Although dogs that carry only one copy of this mutation will not be clinically affected, if bred with another carrier, the pairing could produce affected offspring. To avoid producing affected offspring, this dog should be bred with dogs that are normal (WT/WT) for this gene. Dogs related to this dog have an increased risk to be affected by or carry the mutated gene. Additional testing for this mutation is indicated for related dogs.

Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.

# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

MARLEY MAE VI  
*registered name*

GOLDEN RETRIEVER  
*breed*

*film/test/lab #*

991003000374985  
*tattoo/microchip/DNA profile*

2627213  
*application number*

05/13/2026  
*date of report*

**RESULTS:**

Normal cardiovascular examination via auscultation - No evidence of congenital or acquired heart disease was noted. Since acquired heart disease may develop later, these evaluation results remain valid for one year, and annual examinations are recommended to continue to monitor cardiac health.

SS19391806  
*registration no.*

F  
*sex*

05/27/2020  
*date of birth*

71  
*age at evaluation in months*



A Not-For-Profit Organization

GR-BCA12495/71F/C-VPI  
*O.F.A. NUMBER*

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

NORMAL/CLEAR - CARDIOLOGIST

*owner*  
ANGELA MILLER  
6237 CR 203  
MILLERSBURG OH 44654

OFA eCert



Verify QR scan

G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

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

This electronic OFA certificate was generated on: 05/13/2026

This certification can be verified on the OFA website by entering the animal'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@OFA.ORG](mailto:CORRECTIONS@OFA.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@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

**MARLEY MAE VI**  
*registered name*

**GOLDEN RETRIEVER**  
*breed*

*film/test/lab #*

**991003000374985**  
*tattoo/microchip/DNA profile*

**2627213**  
*application number*

**06/30/2025**  
*date of report*

**RESULTS:**

No radiographic evidence of hip dysplasia is present. The consensus evaluation is: FAIR

**SS19391806**  
*registration no.*

**F**  
*sex*

**05/27/2020**  
*date of birth*

**60**  
*age at evaluation in months*



A Not-For-Profit Organization

**GR-149917F60F-P-VPI**  
*O.F.A. NUMBER*

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

**owner**  
**ANGELA MILLER**  
**6237 CR 203**  
**MILLERSBURG OH 44654**

OFA eCert



Verify QR scan

*G.G. Keller, DVM*

G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

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

This electronic OFA certificate was generated on: 06/30/2025

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@OFA.ORG](mailto:CORRECTIONS@OFA.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@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

MARLEY MAE VI  
*registered name*

GOLDEN RETRIEVER  
*breed*

*film/test/lab #*

991003000374985  
*tattoo/microchip/DNA profile*

2627213  
*application number*

07/01/2025  
*date of report*

**RESULTS:**

The results of the examination submitted to OFA indicate that no evidence of patellar luxation was recognized.

SS19391806  
*registration no.*

F  
*sex*

05/27/2020  
*date of birth*

60  
*age at evaluation in months*



A Not-For-Profit Organization

GR-PA4193/60F/P-VPI  
*O.F.A. NUMBER*

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

NORMAL - PRACTITIONER

**owner**  
ANGELA MILLER  
6237 CR 203  
MILLERSBURG OH 44654

OFA eCert



Verify QR scan

G.G. KELLER, DVM, MS, DACVR  
CHIEF OF VETERINARY SERVICES

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

This electronic OFA certificate was generated on: 07/01/2025

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@OFA.ORG](mailto:CORRECTIONS@OFA.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@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073



**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

**MARLEY MAE VI**  
*registered name*

**GOLDEN RETRIEVER**  
*breed*

*film/test/lab #*

**991003000374985**  
*tattoo/microchip/DNA profile*

**2627213**  
*application number*

**05/20/2025**  
*date of report*

**RESULTS:**

Based upon the exam dated 05/09/2025, this dog has been found to be free of observable inherited eye disease and has been issued an Eye Certification Registry Number which is valid for one year from the time of the exam.

**SS19391806**  
*registration no.*

**F**  
*sex*

**05/27/2020**  
*date of birth*

**59**  
*age at evaluation in months*



A Not-For-Profit Organization

**GR-EYE37584/59F-VPI**  
*O.F.A. NUMBER*

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

**NORMAL**

**owner**  
**ANGELA MILLER**  
**6237 CR 203**  
**MILLERSBURG OH 44654**

OFA eCert



Verify QR scan

*G.G. Keller, DVM*

**G.G. KELLER, DVM, MS, DACVR**  
**CHIEF OF VETERINARY SERVICES**

**www.ofa.org**

This electronic OFA certificate was generated on: 05/20/2025

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@OFA.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@ofa.org](mailto:ofa@ofa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073