

850 E. Spokane Falls Blvd., Suite 200 Spokane, Washington 99202 www.pawprintgenetics.com (509) 483-5950

## **Laboratory Report**

Laboratory #: 10087 Call Name: Lyric

**Order #:** 3414 **Registered Name:** Callibreeze Rhythm of My Heart

Ordered By: Rosanne Starkman Breed: Labrador Retriever

 Ordered:
 April 9, 2015
 Sex:
 Female

 Received:
 May 4, 2015
 DOB:
 Oct. 2012

 Reported:
 May 8, 2015
 Registration #:
 ZU476448

**Microchip #:** 956000008355500

## **Results:**

Disease	Gene	Genotype	Interpretation
Centronuclear myopathy	PTPLA	WT/WT	Normal
Degenerative myelopathy	SOD1	WT/WT	Normal
Exercise-induced collapse	DNM1	WT/M	Carrier
Hereditary nasal parakeratosis	SUV39H2	WT/WT	Normal
Progressive retinal atrophy, Progressive rod-cone degeneration	PRCD	WT/WT	Normal
Retinal dysplasia/Oculoskeletal dysplasia 1	COL9A3	WT/WT	Normal
Skeletal dysplasia 2	COL11A2	WT/WT	Normal

WT, wild type (normal); M, mutant

## Interpretation:

Molecular genetic analysis was performed for specific mutations of seven genes reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in six of the genes tested. Thus, this dog is not at an increased risk for any of the diseases associated with these six genes. However, we identified one normal copy and one mutant copy of the DNA sequences for *DNM1*. Thus, this dog is a carrier of exercise-induced collapse.

## **Recommendations:**

Exercise-induced collapse is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *DNM1* gene, this dog is a carrier of this disease. Although this dog is not clinically affected by this mutation, 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.

Christina J Ramirez, PhD, DVM, DACVP Medical Director

**Casey R Carl, DVM** Associate 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.