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Laboratory Report

Laboratory #:

116754

Order #:

51356

Ordered By: Ordered:

Mark Snead

Received: Reported: Dec. 24, 2018

Dec. 12, 2018

Jan. 4, 2019

Call Name:

Registered Name:

Legacy's 12 GA INCA from Boulder

Crest at Kachka

Breed: Sex:

Labrador Retriever Female

DOB: Registration #:

July 2017 SS00068206

Results:

Disease	Gene	Genotype	Interpretation	
Centronuclear Myopathy	PTPLA	WT/WT	Normal (clear)	
Degenerative Myelopathy	SOD1	WT/WT	Normal (clear)	
Exercise-Induced Collapse	DNM1	WT/M	Carrier	
Hereditary Nasal Parakeratosis	SUV39H2	WT/WT	Normal (clear)	
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	PRCD	WT/WT	Normal (clear)	
Retinal Dysplasia/Oculoskeletal Dysplasia 1	COL9A3	WT/WT	Normal (clear)	
Skeletal Dysplasia 2	COL11A2	WT/WT	Normal (clear)	

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

Interpretation:

Molecular genetic analysis was performed for seven specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in six of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these six mutations. 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 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.