ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

MARCHI'S DUCK BUSTING DRAKE AT CORMORET
registered name

LABRADOR RETRIEVER
breed

tattoo/microchip/DNA profile

1859422
application number

2/2/2017
date of report

SR86484804
registration no.

M
sex

1/15/2015
date of birth

24
age at evaluation in months

A Not-For-Profit Organization

LR-EL76384M24-NOPI
O.F.A. NUMBER

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

RESULTS:
Based upon the radiograph submitted, the consensus was that no evidence of elbow dysplasia was recognized.

NORMAL

owner

MARK SNEAD
PO BOX 1261
FLORENCE, MT 59833

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

www.offa.org

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M
sex

1/15/2015
date of birth

24
age at evaluation in months

A Not-For-Profit Organization

LR-224931G24M-NOPI
O.F.A. NUMBER

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

RESULTS:
Based upon the radiograph submitted, the consensus was that no evidence of hip dysplasia was recognized. The hip joint conformation was evaluated as:

GOOD

owner

MARK SNEAD
PO BOX 1261
FLORENCE, MT 59833

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

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Paw Print Genetics
A division of Genetic Veterinary Sciences, Inc.

220 E. Rowan, Suite 220
Spokane, Washington 99207
www.pawprintgenetics.com
(509) 483-5950

Laboratory Report

Laboratory #:	76324	**Call Name:**	Drake
Order #:	51356	**Registered Name:**	Marchi's Duck Busting Drake at Cormoret
Ordered By:	Mark Snead	**Breed:**	Labrador Retriever
Ordered:	Dec. 12, 2018	**Sex:**	Male
Received:	Dec. 24, 2018	**DOB:**	Jan. 2015
Reported:	Jan. 4, 2019	**Registration #:**	SR86484804

Results:

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	*PTPLA*	WT/WT	Normal (clear)
Degenerative Myelopathy	*SOD1*	WT/WT	Normal (clear)
Exercise-Induced Collapse	*DNM1*	WT/WT	Normal (clear)
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 the mutations tested.

Recommendations:

No mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. Because this dog is "clear" of these mutations, this dog will only pass the normal genes on to its offspring. 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. 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.

Helen F Smith, PhD
Assistant Laboratory Director

Christina J Ramirez, PhD, DVM, DACVP
Medical Director

Paw Print Genetics
A division of Genetic Veterinary Sciences, Inc.

Coat Color and Trait Certificate

Call Name:	Drake	**Laboratory #:**	76324
Registered Name:	Marchi's Duck Busting Drake at Cormoret	**Registration #:**	SR86484804
Breed:	Labrador Retriever	**Certificate Date:**	Jan. 7, 2019
Sex:	Male		
DOB:	Jan. 2015		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
B Locus (Brown)	*TYRP1*	B/B	Black coat, nose and foot pads
D Locus (Dilute)	*MLPH*	D/D	Non dilute
E Locus (Yellow/Red)	*MC1R*	E/e	Black (carries yellow/red)

Interpretation:

This dog carries two copies of **B** at all three of the b^C, b^d and b^S loci making the overall B locus genotype of this dog **B/B**. The overall B locus genotype for a dog is determined by the combination of the genotypes at the b^C, b^d, and b^S loci. The b^C, b^d, and b^S variants confer brown coat, nose, and foot pads when at least one of these DNA changes is present on both genes of the dog at the B locus. If the dog has one or no copies of **b** then the dog will have a black coat, nose, and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes. This dog will pass on **B** to 100% of its offspring.

This dog carries two copies of **D** which does not result in the "dilution" or lightening of the black and yellow/red pigments that produce the dog's coat color. The base coat color of this dog will be primarily determined by the E, K, A, and B genes. This dog will pass on **D** to 100% of its offspring.

This dog carries one copy of **E** and one copy of **e** which allows for the production of black pigment. However, this dog's coat color is also dependent on the K, A, and B genes. This dog will pass **E** on to 50% of its offspring and **e** to 50% of its offspring, which can produce a yellow/red coat (including shades of white, cream, yellow, apricot or red) if inherited with another copy of **e**.

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

AIS PennHIP

(877) 727-6800 www.antechimagingservices.com

Doctor's Copy

PennHIP Report

Referring Veterinarian: Dr Trevor Ferguson
Email: trevorfergusondvm@gmail.com
Clinic Name: Blue Mountain Veterinary Hospital
Clinic Address: 4646 Buckhouse Ln
Missoula, MT 59804
Phone: (406) 251-4150
Fax:(406) 541-4555

Patient Information

Client: Snead, Mark
Patient Name: Drake
Reg. Name: Marchi Duck busting Drake at Cormoret
PennHIP Num: 104318
Species: Canine
Date of Birth: 15 Jan 2015
Sex: Male
Date of Study: 23 Jan 2017
Date of Report: 24 Jan 2017
Tattoo Num:
Patient ID: 36005
Registration Num: SR86484804
Microchip Num:
Breed: LABRADOR RETRIEVER
Age: 24 months
Weight: 78 lbs/35.4 kgs
Date Submitted: 24 Jan 2017

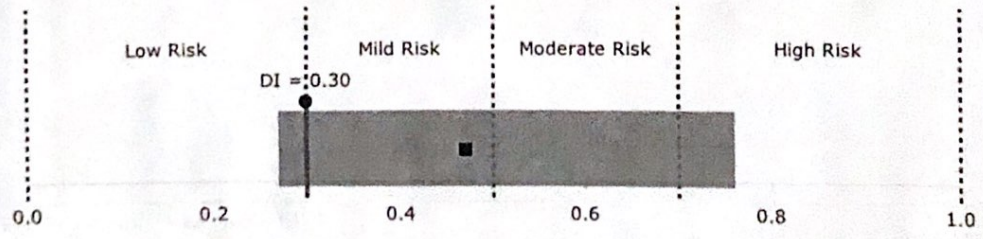
Findings

Distraction Index (DI): Right DI = 0.30, Left DI = 0.27.
Osteoarthritis (OA): No radiographic evidence of OA for either hip.
Cavitation/Other Findings: None.

Interpretation

Distraction Index (DI): The laxity ranking is based on the hip with the greater laxity (larger DI). In this case the DI used is 0.30.
OA Risk Category: The DI is less than or equal to 0.30. This patient is at minimal risk for hip OA.
Distraction Index Chart:

LABRADOR RETRIEVER



Breed Statistics: This interpretation is based on a cross-section of 29697 canine patients of the LABRADOR RETRIEVER breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.27 - 0.76) for the breed. The breed average DI is 0.47 (solid square). The patient DI is the solid circle (0.30).
Summary: The degree of laxity (DI = 0.30) falls within the central 90% range of DIs for the breed. This amount of hip laxity places hip at a minimal risk to develop hip OA. No radiographic evidence of OA for either hip.
Interpretation and Recommendations:
Comments: