

### PennGen Laboratories | School of Veterinary Medicine | University of Pennsylvania

3900 Delancey Street, Room 4022, Philadelphia, PA 19104

Lab: 215-898-5703 | PennVetDNA@lists.upenn.edu | http://research.vet.upenn.edu/penngen

DNA Testing: Owner/Patient Report 2/22/2017

### **Submitter Information**

Owner's Name Tracy Brown

### **Patient Information**

Official Name Ch. Armada's Busting On The Scene

**Call Name** Buster **DOB** 4/21/2014 (2 Years 10 Months)

BreedPortuguese Water DogSexMale (Intact)Registration #BG553063Tattoo#LUJ 10B

### **Testing Information**

**Submission ID** 15871

Testing Date 2/22/2017 Processed By Dr. Paula Henthorn

Test Juvenile Dilated Cardiomyopathy (JDCM) Linked Marker-DNA [Fresh EDTA blood]

### **Result Information**

**Genotype** 1-1 (Homozygous Normal Markers)

Phenotype Probable Normal (Healthy)

Interpretation 1-1 (Probable Normal) dogs are not expected to develop JDCM, nor are they expected

to pass a JDCM-causing gene to their offspring. Due to the inherent nature of linked marker tests, there is a slight chance that a pattern 1-1 dog is

a carrier of JDCM and an even smaller chance that a pattern 1-1 dog is affected.

### Sincerely,

Paula Henthorn, PhD
Professor of Medical Genetics

Michael Raducha, BS Research Specialist

Scott McQueen 2803 Coughlan Green SW Edmonton, Alberta T6W 3P1 Canada Optigen Accession #: 17-696 Report issued for: Buster

## OptiGen Test Certificate

Optigen Accession #: 17-696

Test Performed: GM1

Registered Name: Ch. Armada's Busting On The Scene

Breed: Portuguese Water Dog

Sex: Male

Date of Birth: April 21, 2014

Owner(s):

Scott McQueen

Test Completed: 02/20/2017 Report Issued: 02/20/2017

Result: Normal Sample Type: Blood

Reg#: BG553063

ID#: LUJ 10B



OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is: NORMAL/CLEAR

Risk for developing GM1: This dog will not develop the form of storage disorder caused by the GM1 mutation.

Significance for breeding: Genetically Normal/Clear dogs can be bred to any dog and will produce no pups affected with disease due to the GM1 mutation.

Other forms of storage disease(s): Please note that the GM1 DNA test is only able to identify the single mutation currently known as GM1 in the PWD. DNA tests do not replace the importance of regular veterinary clinical assessments of breeding stock.

For further information, please consult the OptiGen website at www.optigen.com

International DNA Based Genetic Database: To register this result with OFA, make a copy, sign below, mail WITH FEE, to OFA, 2300 E. Nifong Blvd, Columbia, MO 65201-3856 or FAX to 573-875-5073, www.offa org

I hereby certify that the sample submitted was of the animal described on this application. I authorize the OFA to release all information on the test results thus placing the results in the public domain and I hereby release OFA from any and all liability associated with the release of test information.

Signature of owner or authorized representative

Cornell Business & Technology Park

tel: 607.257.0301

fax: 607.257.0353

767 Warren Road, Suite 300, Ithaca, NY 14850

email: genetest@optigen.com

# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

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ARMADA'S BUSTING ON THE SCENE, CH registered name

BG553063

registration no.

PORTUGUESE WATER DOG

17-696

film/test/lab #

**LUJ 10B** 

tattoo/microchip/DNA profile

application number 1831178

6/20/2017 date of report

RESULTS:

GM1 GANGLIOSIDOSIS: GENOTYPICALLY NORMAL

These results are based on the laboratory report from OPTIGEN and the owner's certification that the sample provided was from the animal described above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results

Sex 3 age at evaluation in months 4/21/2014 O.F.A. NUMBER date of birth PW-GM1-3441/33M-PI

A Not-For-Profit Organization

HOPEDIC

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

owner

SCOTT MCQUEEN

CANADA

EDMONTON, AB T6W3P1 2803 COUGHLAN GREEN SW

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

www.offa.org

Scott McQueen 2803 Coughlan Green SW Edmonton, Alberta T6W 3P1 Canada Optigen Accession #: 17-696 Report issued for: Buster

### OptiGen Test Certificate

Optigen Accession #: 17-696

Test Performed: Curly Hair Test

Registered Name: Ch. Armada's Busting On The Scene

Breed: Portuguese Water Dog

Sex: Male

Date of Birth: April 21, 2014

Owner(s):

Scott McQueen

Test Completed: 02/15/2017 Report Issued: 02/15/2017

Result: Carrier
Sample Type: Blood

Reg#: BG553063

ID#: LUJ 10B



OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of this dog is CARRIER of one copy of the KRT71 mutation and one copy of the normal gene.

Interpretation of test result: this dog will most likely have no tight curls due to the mutation but it may have loose curls or waves due to incomplete dominance of the mutation or due to effects of other genes.

Significance for breeding: Carrier dogs transmit the KRT71 mutation to about 50% of its offspring.

For further information, please consult the OptiGen website at www.optigen.com

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email: genetest@optigen.com

Scott McQueen 2803 Coughlan Green SW Edmonton, Alberta T6W 3P1 Canada Optigen Accession #: 17-696 Report issued for: Buster

## OptiGen Test Certificate

Optigen Accession #: 17-696

Test Performed: Improper Coat Test

Registered Name: Ch. Armada's Busting On The Scene

Breed: Portuguese Water Dog

Sex: Male

Date of Birth: April 21, 2014

Owner(s):

Scott McQueen

Test Completed: 02/15/2017 Report Issued: 02/15/2017

Result: Normal Sample Type: Blood

Reg#: BG553063

ID#: LUJ 10B



OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is Normal for Improper Coat (IC)

Risk for having IC. This dog will never exhibit the Improper Coat that is detected by the IC13 DNA test. So far, this test is able to detect the only identified form of IC in the breed and is responsible for at least 95% of the IC cases. It is important to remember, however, that other infrequent genes also may determine IC and that this test is only reliable as a test for the presence or absence of this particular mutation.

Significance for breeding: Genetically Normal dogs can be bred to any dog and will produce no pups affected with the IC13 form of Improper Coat.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing the IC13 form of Improper Coat in Portuguese Water Dogs as of the date on this report.

For further information, please consult the OptiGen website at www.optigen.com

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Scott McQueen 2803 Coughlan Green SW Edmonton, Alberta T6W 3P1 Canada Optigen Accession #: 17-696 Report issued for: Buster

### OptiGen Test Certificate

Optigen Accession #: 17-696

Test Performed: prcd Mutation Test for PRA

Registered Name: Ch. Armada's Busting On The Scene

Breed: Portuguese Water Dog

Sex: Male

Date of Birth: April 21, 2014

Owner(s):

Scott McQueen

Test Completed: 02/16/2017 Report Issued: 02/16/2017

Result: Normal Sample Type: Blood

Reg#: BG553063

ID#: LUJ 10B



OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is NORMAL/CLEAR.

Risk for developing prcd-PRA: This dog will never develop the prcd form of PRA (progressive rod-cone degeneration form of Progressive Retinal Atrophy). prcd-PRA is the most prevalent form of PRA in most breeds of dog but there are other forms of PRA that could occur in any breed.

DNA testing does not replace the value of routine eye exams.

Significance for breeding: Genetically Normal/Clear dogs can be bred to any dog and will produce no pups affected with the prcd form of PRA.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing the prod form of PRA in Portuguese Water Dogs as of the date on this report.

For further information, please consult the OptiGen website at www.optigen.com. Note: The use of this test is patent protected and licensed to OptiGen. See http://www.optigen.com/opt9\_patent.html for details.

International DNA Based Genetic Database: To register this result with OFA, make a copy, sign below, mail WITH FEE, to OFA, 2300 E. Nifong Blvd, Columbia, MO 65201-3856 or FAX to 573-875-5073, www.offa.org

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ARMADA'S BUSTING ON THE SCENE, CH registered name

PORTUGUESE WATER DOG

17-696

film/test/lab #

tattoo/microchip/DNA profile **LUJ 10B** 

application number 1831178

date of report 6/20/2017

RESULTS:

owner

SCOTT MCQUEEN

2803 COUGHLAN GREEN SW

EDMONTON, AB T6W3P1

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

CANADA

PROGRESSIVE RETINAL ATROPHY: CLEAR/NORMAL

above. The OFA registers these lab results, but cannot warrant the accuracy of the lab results These results are based on the laboratory report from OPTIGEN and the owner's certification that the sample provided was from the animal described

registration no.

sex 3

date of birth

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

BG553063

4/21/2014

age at evaluation in months

O.F.A. NUMBER

PW-PRA3877/33M-PI

OPEDIC STANNA ROA

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# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

ARMADA'S BUSTING ON THE SCENE, CH registered name

PORTUGUESE WATER DOG

LUJ10B

tattoo/microchip/DNA profile

2/20/2017 date of report

application number

1831178

RESULTS:

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

BG553063 registration no.

3

4/21/2014 date of birth

date of birth

A Not-For-Profit Organization

PW-EL3389M33-VPI

age at evaluation in months

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NORMAL

AA Kellersin

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

owner

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