

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RIOROCK'S WITCH HAZEL
registered name

LABRADOR RETRIEVER
breed

CHOCOLATE
color

081 059 844
tattoo/microchip/DNA profile

1395633
application number

1/18/2011
date of report

RESULTS:

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

SR52292801
registration no.

F
sex

9/22/2008
date of birth

27
age at evaluation in months



A Not-For-Profit Organization

LR-190771G27F-VPI
O.F.A. NUMBER

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

GOOD

owner

HEATHER HORN

G.G. Keller DVM

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

www.offa.org

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RIOROCK'S WITCH HAZEL
registered name

LABRADOR RETRIEVER
breed

CHOCOLATE
color

081 059 844
tattoo/microchip/DNA profile

1395633
application number

1/18/2011
date of report

RESULTS:

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

SR52292801
registration no.

F
sex

9/22/2008
date of birth

27
age at evaluation in months



A Not-For-Profit Organization

LR-EL49584F27-VPI
O.F.A. NUMBER

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

NORMAL

owner

HEATHER HORN

G.G. Keller DVM

G.G.KELLER, D.V.M., M.S., DACVR
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ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

RIOROCK'S WITCH HAZEL
registered name

SR52292801
registration no.

LABRADOR RETRIEVER
breed

F
sex

CHOCOLATE
color

9/22/2008
date of birth

081 059 844
tattoo/microchip/DNA profile

17
age at evaluation in months

1395633
application number

LR-CA4296/17F/C-VPI
O.F.A. NUMBER

4/5/2010
date of report

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



A Not-For-Profit Organization

The results of the examination submitted to OFA indicate that no evidence of congenital cardiac disease was recognized.

NORMAL - CARDIOLOGIST

owner

HEATHER HORN

G.G. Keller, D.V.M.

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

www.offa.org

ORIGINAL



CANINE EYE REGISTRATION FOUNDATION 1717 S. Philo Rd. Suite #15. Urbana, IL 61802

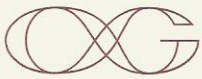
Telephone: 217-693-4800

Email: cerf@vmdb.org

04/11/2013

BREED	LABRADOR RETRIEVER	CERF #	LR-363759 (2013-55)
REGISTRATION NAME	RIOROCK'S WITCH HAZEL		Permanent Identification Scanned
REGISTRATION NUMBER	SR52292801	COLOR	CHOCOLATE
		BIRTH DATE	09/22/2008
		SEX	F
HEATHER HORN		DATE EXAMINED	04/07/2013
		PERMANENT IDENTIFICATION	081 059 844
		BREEDER OPTION DIAGNOSIS (details on back) No inherited eye disease found	

THIS CERTIFICATE IS VALID ONLY FOR 12 MONTHS, FROM DATE OF EXAMINATION. Certification relates to PHENOTYPE (appearance) only at time of examination; it implies no clearance for GENOTYPE (possible "carrier") or for heritable ocular disease developing subsequent to date of examination. WARNING: certificate invalid if background not printed in blue ink with the word "original" printed in red ink.



Test Report

Heather Horn

Optigen Accession #: **12-7659**
Report issued for: **Hazel**

OptiGen Test Certificate

Optigen Accession #: 12-7659

Test Completed: 09/17/2012
Report Issued: 09/18/2012

Test Performed: **prcd Mutation Test for PRA**

Result: **Carrier**
Sample Type: **Swab**

Registered Name: **Riorock's Witch Hazel**

Reg#: **SR52292801**

Breed: **Labrador Retriever**

ID#: **081 059 844**

Sex: **Female**

Date of Birth: **September 22, 2008**

Owner(s):
Heather Horn



Susan Peaslee Kelling
OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is **CARRIER**.

Risk for developing PRA: This dog will never develop the prcd form of PRA (progressive rod-cone degeneration form of Progressive Retinal Atrophy). So far, the only inherited PRA disease known in dogs of your breed is the prcd form of PRA.

Significance for breeding: Carrier dogs should be bred only to a mate of Normal/Clear genotype to avoid producing 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 prcd form of PRA in Labrador Retrievers 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

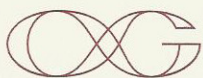
I hereby certify that the sample submitted was of the animal described on this application. I authorize the OFA to release all information on the test results thus placing the results in the public domain and I hereby release OFA from any and all liability associated with the release of test information.

Signature of owner or authorized representative: _____

Cornell Business & Technology Park

tel: 607.257.0301

fax: 607.257.0353



Test Report

Heather Horn

Optigen Accession #: **12-7659**
Report issued for: **Hazel**

OptiGen Test Certificate

Optigen Accession #: 12-7659

Test Completed: 09/18/2012
Report Issued: 09/19/2012

Test Performed: **Inherited RD/OSD**

Result: **Normal**
Sample Type: **Swab**

Registered Name: **Riorock's Witch Hazel**

Reg#: **SR52292801**

Breed: **Labrador Retriever**

ID#: **081 059 844**

Sex: **Female**

Date of Birth: **September 22, 2008**

Owner(s):
Heather Horn



Susan Reau Kelling
OptiGen Authorized Signature

www.optigen.com

Test Results: Genotype of your dog is **NORMAL**.

Risk for developing RD/OSD: This dog will never develop the OSD-associated form of RD (Retinal Dysplasia-retinal folds). There are many forms of RD in the Labrador Retriever. A Normal result for this test does not mean the dog will never develop RD however other forms of RD in the breed are likely to be considered insignificant compared to RD/OSD.

Significance for breeding: Genetically Normal RD/OSD dogs can be bred to any dog and will not produce dogs showing severe OSD disease (dwarfism and blindness). Genetically Normal RD/OSD dogs may produce dogs with retinal folds (RD) if bred to mates that carry the RD/OSD mutation.

This interpretation is based on the test result of the DNA test for the specific mutation identified as causing the OSD-associated form of RD (Retinal Dysplasia-retinal folds) in Labrador Retrievers 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.ofa.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

Exercise Induced Collapse DNA Test

Case Number: 20066

Owner Information

Owner: Heather Horn

Phone:

Email: riorocklabradors@aol.com

Canine Information

DNA ID Number: **30059**

Call Name: **Hazel**

Sex: **Female**

Birthdate: **9/22/2008**

Breed: **Labrador Retriever**

Coat Color: **Chocolate**

Registered Name: **Riorock's Witch Hazel**

Registry: **AKC**

Registration Number: **SR52292801**

Microchip Number: **081-059-844**

Tattoo Number:

Markings:

Report Date: 4/15/2009

DNA Result: Clear



Matt Shaunessy

Matt Shaunessy, Senior Scientist

Pet Profile Number:



0002000644

Canine



PAWSITIVE I.D.™

CERTIFICATE OF GENOTYPING

Date of Test: 00/00/0000
Date of Certificate: 00/00/0000

Pet Name: Hazel
Date of Birth: 2008-09-22
Pet Type: Canine
Breed: Labrador Retriever
Sex: Female
Spayed/Neutered: No
Coat Color: Chocolate
Eye Color: Hazel
Weight: 25

Vet Name:
Clinic:
Address:
Phone:
Fax:

Microchip: Yes
Microchip Type: Avid
Microchip Number: 081 059 844

Registry: Yes
Registry Name: Riorock's Witch Hazel
Registry Number: SR52292801

Lana Horn
10112 W US Hwy 160
Del Norte, CO 81132



The following genotyping results were produced using the VeriSNP(TM) Universal Genetic Evaluation process:

Pet Profile Number: 0002000644, Owner: Horn, Pet: Hazel

Genetic Fingerprint:

CF01-01	CF01-02	CF01-03	CF02-04	CF02-05	CF02-06	CF03-07	CF03-08	CF03-09	CF04-10	CF04-11	CF04-12	CF05-13	CF05-14	CF05-15	CF06-17
CF06-18	CF07-19	CF07-21	CF08-23	CF09-24	CF09-25	CF09-26	CF10-27	CF10-28	CF10-88	CF11-29	CF11-31	CF11-89	CF12-32	CF12-90	CF13-33
CF13-34	CF13-39	CF14-36	CF14-92	CF15-38	CF16-39	CF17-41	CF17-42	CF18-43	CF18-44	CF19-45	CF20-47	CF20-48	CF21-49	CF21-50	CF22-51
CF22-52	CF23-53	CF23-54	CF24-55	CF24-56	CF24-76	CF25-57	CF25-58	CF26-59	CF26-60	CF28-63	CF28-64	CF29-65	CF29-66	CF30-67	CF30-68
CF31-69	CF31-70	CF32-71	CF33-73	CF33-74	CF34-75	CF35-77	CF35-78	CF36-79	CF36-80	CF37-81	CF37-82	CF38-83	CF38-84	CFX-85	CFX-86

Legend: = A = T = C = G = Undetermined

Screened Non-Premium Diseases:

TEST # 1	MYOTONIA CONGENITA	Negative
TEST # 2-A	PROGRESSIVE RETINAL ATROPHY (RCD-3)	Negative
TEST # 2-B	PROGRESSIVE RETINAL ATROPHY (PRAG)	Negative
TEST # 2-C	PROGRESSIVE RETINAL ATROPHY (RCD1-cGMP)	Negative
TEST # 3	HYPOTHYROIDISM	Negative
TEST # 4	CANINE LEUCOCYTE ADHESION DEFICIENCY	Negative
TEST # 5-A	NEURONAL CEROID LIPOFUSCINOSES (CLN2-TPP1)	Negative
TEST # 5-B	NEURONAL CEROID LIPOFUSCINOSES (CLN8)	Negative
TEST # 5-C	NEURONAL CEROID LIPOFUSCINOSES (CLN5_B_C)	Negative
TEST # 6	CYSTINURIA	Negative
TEST # 7	NARCOLEPSY	Negative
TEST # 8	MUSCULAR DYSTROPHY	Negative
TEST # 9	GLOBOID CELL LEUCODYSTROPHY	Negative
TEST # 10-A	VON WILLEBRAND DISEASE (VW_1)	Negative
TEST # 10-B	VON WILLEBRAND DISEASE (vW_KOOIKER)	Negative
TEST # 11-A	GM1 GANGLIOSIDOSIS (GM1_portug)	Negative
TEST # 11-B	GM1 GANGLIOSIDOSIS (GM1_shiba)	Negative
TEST # 12	MUCOPOLYSACCHARIDOSIS TYPE VII	Negative
TEST # 13	HEMOPHILIA B	Negative
TEST # 14	PHOSPHOFRUCTOKINASE DEFICIENCY	Negative
TEST # 15-A	SEVERE COMBINED IMMUNODEFICIENCY (SCIW)	Negative
TEST # 15-B	SEVERE COMBINED IMMUNODEFICIENCY (SCIX)	Negative
TEST # 15-C	SEVERE COMBINED IMMUNODEFICIENCY (SCID)	Negative
TEST # 16	THROMBASTHENIC THROMBOPATHIA	Negative
TEST # 17	CONE DEGENERATION	Negative
TEST # 18	RETINAL DYSTROPHY	Negative
TEST # 20	NEONATAL ENCEPHALOPATHY WITH SEIZURES	Negative
TEST # 21	GLYCOGEN STORAGE DISEASE IA	Negative
TEST # 22	L-2-HYDROXYGLUTARIC ACIDURIA	Negative
TEST # 23	MULTIDRUG RESISTANCE IN CANCER	Negative
TEST # 24	NEURONAL CERIOD LIPOFUSCINOSIS	Negative
TEST # 25	PYRUVATE DEHYDROGENASE PHOSPHATASE 1 DEFICIENCY	Negative
TEST # 26	PYRUVATE KINASE DEFICIENCY	Negative
TEST # 27	CANINE MULTIFOCAL RETINOLPATHY	Negative
TEST # 28	CANINE RETINOLPATHY	Negative
TEST # 30	AUTOSOMAL RECESSIVE HEREDITARY NEPHROPATHY	Negative

Screened Premium Diseases:

PREM # 19	PROGRESSIVE ROD-CONE DEGENERATION	Carrier
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IF A RESULT IS LISTED AS POSITIVE OR CARRIER, SEE INTERPRETIVE GUIDE FOR FURTHER GUIDANCE.

Physical Attributes:

TEST # A	YELLOW	--	Does Not Carry
TEST # B	MELANISTIC MASK	--	Does Not Carry
TEST # C	AGOUTI (A82S)	--	Does Not Carry
TEST # D	AGOUTI (R96C)	--	Does Not Carry
TEST # E	DILUTE COAT COLOR	--	Does Not Carry
TEST # F	BROWN	--	Does Not Carry
TEST # G	BROWN	++	Homozygous
TEST # H	BROWN	--	Does Not Carry
TEST # I	BLACK	--	Does Not Carry
TEST # J	LONG HAIR	--	Does Not Carry

NOTE: The above listed disease and physical traits can be breed specific and are possibly found in the affected breed. However, it is possible that other breeds may test Positive or Carrier for the screened tests. Please refer to the Interpretive Guide included with this test for a detailed definition of the test and listing of the commonly affected breeds.

Non-Premium tests are processed by The Equine Genetics Lab at Texas A&M University and/or DNA Diagnostic Laboratory d/b/a Shelterwood Labs in Timpson, TX. Premium Tests are processed by International Genetics, Inc in Freeport, The Bahamas.