

## Canine Genetic Health Certificate™

<b>Call Name:</b>	Blackberry	<b>Laboratory #:</b>	214751
<b>Registered Name:</b>	KELLNER'S WILD BLACKBERRY	<b>Registration #:</b>	SS13021213
<b>Breed:</b>	Labrador Retriever	<b>Microchip #:</b>	985112010099601
<b>Sex:</b>	Female	<b>Certificate Date:</b>	Feb. 9, 2021
<b>DOB:</b>	June 2019		

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

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	<i>PTPLA</i>	WT/WT	Normal (clear)
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (clear)
Exercise-Induced Collapse	<i>DNM1</i>	WT/WT	Normal (clear)
Hereditary Nasal Parakeratosis	<i>SUV39H2</i>	WT/WT	Normal (clear)
Macular Corneal Dystrophy (Labrador Retriever Type)	<i>CHST6</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	<i>PRCD</i>	WT/WT	Normal (clear)
Retinal Dysplasia/Oculoskeletal Dysplasia 1	<i>COL9A3</i>	WT/WT	Normal (clear)
Skeletal Dysplasia 2	<i>COL11A2</i>	WT/WT	Normal (clear)

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



**Blake C Ballif, PhD**  
Laboratory & Scientific Director



**Christina J Ramirez, PhD, DVM, DACVP**  
Medical Director

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. 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. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results. Genetic counseling is available at Paw Print Genetics.

## Coat Color and Trait Certificate

<b>Call Name:</b>	Blackberry	<b>Laboratory #:</b>	214751
<b>Registered Name:</b>	KELLNER'S WILD BLACKBERRY	<b>Registration #:</b>	SS13021213
<b>Breed:</b>	Labrador Retriever	<b>Microchip #:</b>	985112010099601
<b>Sex:</b>	Female	<b>Certificate Date:</b>	Feb. 9, 2021
<b>DOB:</b>	June 2019		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
B Locus (Brown)	<i>TYRP1</i>	B/B	Black coat, nose and foot pads (does not carry brown)
D Locus (Dilute)	<i>MLPH</i>	D/D	Non-dilute (does not carry dilute)
E Locus (Yellow/Red)	<i>MC1R</i>	E/E	Black

### Interpretation:

This dog does not carry any copies of the  $b^a$ ,  $b^c$ ,  $b^d$  or  $b^s$  mutations and has a B locus genotype of **B/B**. Thus, this dog typically will have a black coat, nose, and foot pads. However, this dog's coat color is dependent on the genotypes of many other genes. This dog will pass one copy of **B** to 100% of its offspring and cannot produce b/b dogs.

This dog does not carry any copies of the  $d^1$  or  $d^2$  mutations and has a D locus genotype of **D/D** which does not result in the "dilution" or lightening of the pigments that produce the dog's coat color. This dog will pass one copy of **D** to 100% of its offspring and cannot produce d/d dogs.

This dog carries two copies 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 on **E** to 100% of its 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.



**Blake C Ballif, PhD**  
Laboratory & Scientific Director



**Christina J Ramirez, PhD, DVM, DACVP**  
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. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.

## PennHIP Report

Referring Veterinarian: Dr Paul Nelson

Clinic Name: Country Hills Animal Hospital of  
MO

Email: countryhills@cebridge.net

Clinic Address: 745 North 20th Street  
Ozark, MO 65721

Phone: (417) 581-3000

Fax: (417) 581-7817

## Patient Information

Client: Kellner, Ben

Tattoo Num:

Patient Name: Blackberry

Patient ID: 985112010099601

Reg. Name:

Registration Num:

PennHIP Num: 158501

Microchip Num: 985112010099601

Species: Canine

Breed: LABRADOR RETRIEVER

Date of Birth: 02 Jun 2019

Age: 24 months

Sex: Female

Weight: 58 lbs/26.3 kgs

Date of Study: 11 Jun 2021

Date Submitted: 11 Jun 2021

Date of Report: 17 Jun 2021

## Findings

Distraction Index (DI): Right DI = 0.29, Left DI = 0.28.

Osteoarthritis (OA): **No radiographic evidence of OA for either hip.**

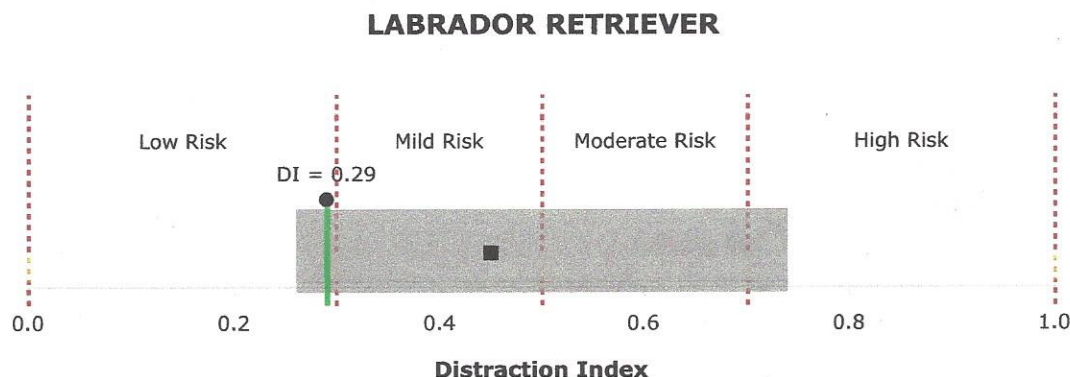
Cavitation/Other Findings: No cavitation present.

## 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 0.29.

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:



**BREED STATISTICS:** This interpretation is based on a cross-section of 37214 canine patients of the LABRADOR RETRIEVER breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.26 - 0.74) for the breed. The breed average DI is 0.45 (solid square). The patient DI is the solid circle (0.29).

# OFA CANINE HEALTH INFORMATION CENTER

KELLNER'S WILD BLACKBERRY, CGC, TKN  
*registered name*

LABRADOR RETRIEVER  
*breed*

985112010099601  
*tattoo/microchip/DNA profile*

**CHIC#:** 168494

D LOCUS

EXERCISE INDUCED COLLAPSE

EYES

HIPS

ELBOW

SS13021213  
*registration no.*

F 06/02/2019  
*sex date of birth*

04/05/2022  
*date of report*

## REQUIRED TESTS

OFA	LR-DL2837/20F-PI	02/09/2021
OFA	LR-EIC6893/20F-PI	02/09/2021
OFA	LR-EYE21788/21F-VPI	03/04/2021
OFA	LR-255821G24F-VPI	06/11/2021
OFA	LR-EL104102F24-VPI	06/11/2021

## OTHER TESTS

OFA	LR-CNM4077/20F-PI	02/09/2021
OFA	LR-PRA3855/20F-PI	02/09/2021
OFA	LR-SH524F24-VPI	06/11/2021

owner

BEN KELLNER  
841 E NORTHFIELD RD  
SPRINGFIELD MO 65803

OFA eCert



with QR scan

*G.G. Keller, D.V.M., M.S., DACVR*

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

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 04/05/2022

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFFA.ORG](mailto:CORRECTIONS@OFFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@offa.org](mailto:ofa@offa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073





# ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KELLNER'S WILD BLACKBERRY  
*registered name*

LABRADOR RETRIEVER  
*breed*

*film/test/lab #*

985112010099601  
*tattoo/microchip/DNA profile*

2224165  
*application number*

06/25/2021  
*date of report*

**RESULTS:**

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

SS13021213  
*registration no.*

F  
*sex*

06/02/2019  
*date of birth*

24  
*age at evaluation in months*



A Not-For-Profit Organization

LR-EL104102F24-VPI  
*O.F.A. NUMBER*

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

NORMAL

**owner** CASEY KELLNER; BEN KELLNER  
841 E NORTHFIELD RD  
SPRINGFIELD MO 65803

OFA eCert



Verify certificate  
with QR scan

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

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 06/25/2021

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFFA.ORG](mailto:CORRECTIONS@OFFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@offa.org](mailto:ofa@offa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

**ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.**

**KELLNER'S WILD BLACKBERRY**  
*registered name*

**LABRADOR RETRIEVER**  
*breed*

*film/test/lab #*

**985112010099601**  
*tattoo/microchip/DNA profile*

**2224165**  
*application number*

**06/25/2021**  
*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:

**SS13021213**  
*registration no.*

**F**  
*sex*

**06/02/2019**  
*date of birth*

**24**  
*age at evaluation in months*



A Not-For-Profit Organization

**LR-255821G24F-VPI**  
*O.F.A. NUMBER*

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

**GOOD**

**owner** CASEY KELLNER; BEN KELLNER  
841 E NORTHFIELD RD  
SPRINGFIELD MO 65803

OFA eCert



*Verify certificate  
with QR scan*

*G.G. Keller DVM*

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

**www.ofa.org**

This electronic OFA certificate was generated on: 06/25/2021

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFFA.ORG](mailto:CORRECTIONS@OFFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@offa.org](mailto:ofa@offa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073

## ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KELLNER'S WILD BLACKBERRY  
*registered name*

LABRADOR RETRIEVER  
*breed*

*film/test/lab #*

985112010099601  
*tattoo/microchip/DNA profile*

2224165  
*application number*

06/25/2021  
*date of report*

**RESULTS:**

Based upon the radiograph submitted, there was no evidence of Osteochondrosis or Degenerative Joint Disease (DJD) in either Shoulder

SS13021213  
*registration no.*

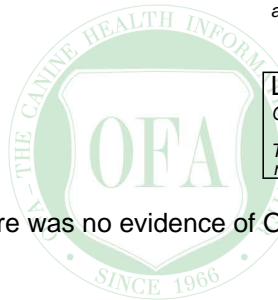
F  
*sex*

06/02/2019  
*date of birth*

24  
*age at evaluation in months*



A Not-For-Profit Organization



LR-SH524F24-VPI  
*O.F.A. NUMBER*

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

NORMAL

**owner** CASEY KELLNER; BEN KELLNER  
841 E NORTHFIELD RD  
SPRINGFIELD MO 65803

OFA eCert



*Verify certificate  
with QR scan*

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

[www.ofa.org](http://www.ofa.org)

This electronic OFA certificate was generated on: 06/25/2021

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email [CORRECTIONS@OFFA.ORG](mailto:CORRECTIONS@OFFA.ORG) to request a correction.

Orthopedic Foundation for Animals, Inc.  
2300 E. Nifong Blvd.  
Columbia, MO 65201-3806

OFA website: [www.ofa.org](http://www.ofa.org)  
E-mail address: [ofa@offa.org](mailto:ofa@offa.org)  
Phone number: 573-442-0418  
Fax number: 573-875-5073