

Canine Genetic Health Certificate™

Call Name:	Caramel	Laboratory #:	214750
Registered Name:	CARAMEL APPLE OF OUR EYE	Registration #:	SS10490704
Breed:	Labrador Retriever	Microchip #:	956000010315375
Sex:	Female	Tattoo:	NONE
DOB:	Feb. 2019	Certificate Date:	Feb. 9, 2021

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

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)
Macular Corneal Dystrophy (Labrador Retriever Type)	CHST6	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)

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Blake C Ballif, PhD Laboratory & Scientific Director

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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

Call Name: Caramel	Laboratory #: 214750	
Registered Name: CARAMEL APPLE C	OUR EYE Registration #: SS10490704	
Breed: Labrador Retrieve	Microchip #: 956000010315375	
Sex: Female	Tattoo: NONE	
DOB: Feb. 2019	Certificate Date: Feb. 9, 2021	

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 (does not carry brown)
D Locus (Dilute)	MLPH	D/D	Non-dilute (does not carry dilute)
E Locus (Yellow/Red)	MC1R	e/e	Yellow/red

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 inhibits production of black pigment. The coat color of this dog will be yellow/red (including shades of white, cream, yellow, apricot or red). This dog will pass **e** on 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.

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Blake C Ballif, PhD Laboratory & Scientific Director

Christina J Ramirez, PhD, DVM, DACVP Medical Director

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AIS) PennHIP

(877) 727-6800

www.antechimagingservices.com

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Owner's Copy

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

ſ	Client: Kellner, Casey Jo	Tattoo Num:
	Patient Name: Caramel	Patient ID: Caramel
	Reg. Name: CARAMEL APPLE OF OUR EYE	Registration Num: SS10490704
	PennHIP Num: 153992	Microchip Num: 956000010315375
	Species: Canine	Breed: LABRADOR RETRIEVER
	Date of Birth: 21 Feb 2019	Age: 24 months
	Sex: Female	Weight: 63.5 lbs/28.8 kgs
	Date of Study: 22 Feb 2021	Date Submitted: 12 Mar 2021
	Date of Report: 17 Mar 2021	

Findings

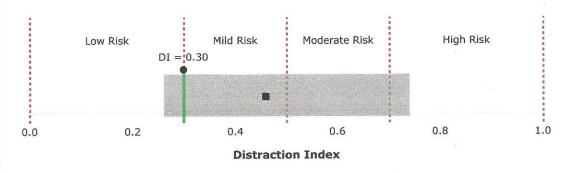
Distraction Index (DI): Right DI = 0.30, Left DI = 0.25. Osteoarthritis (OA): No radiographic evidence of OA for either hip. Cavitation/Other Findings: No cavitation present.

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 0.30.

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:





BREED STATISTICS: This interpretation is based on a cross-section of 36591 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 0.46 (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.

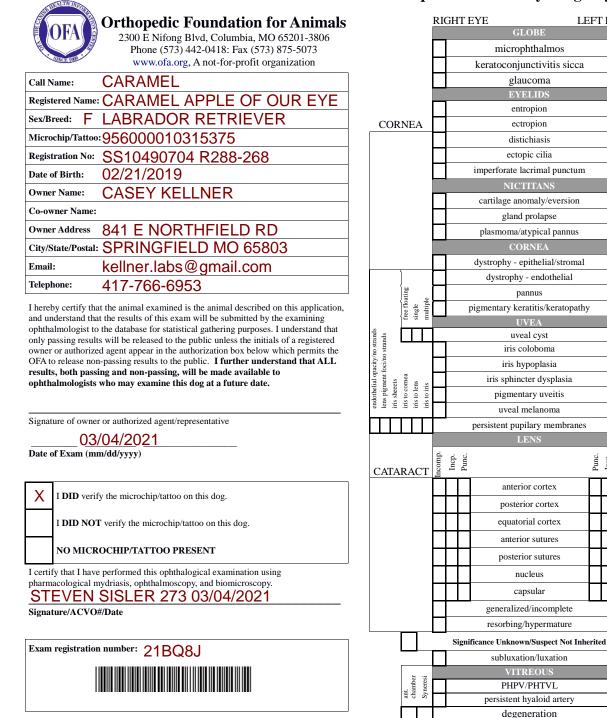
Companion Animal Eye Registry (CAER)

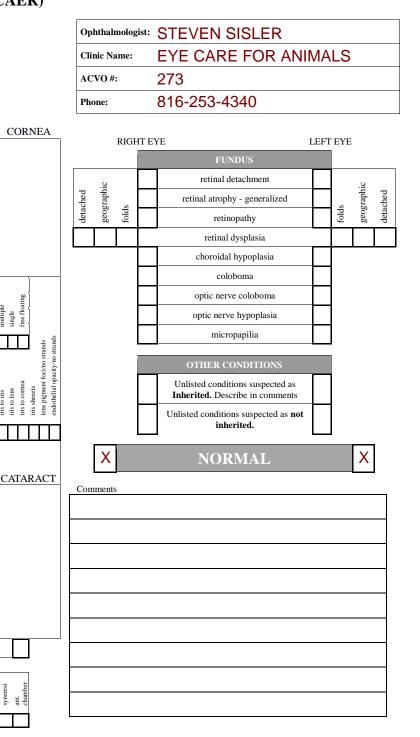
LEFT EYE

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Owner: Take this form to the exam if you want to take away a hardcopy. Full results will be sent to your email address following the exam. Instructions on submitting the results of this exam to the OFA public database will be included in the email.

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CARAMEL APPLE OF OUR EYE		SS10490704 registration no.	
LABRADOR RETRIEVER		F sex	
film/test/lab #		02/21/2019 date of birth	OFA
956000010315375 tattoo/microchip/DNA profile		24 age at evaluation in months	A Not-For-Profit Organization
2220665 application number		LR-EL101609F24-VPI	₹
03/10/2021 date of report	OFA	O.F.A. NUMBER This number issued with the right to revoke by the Orthopedic Foundati	o correct or
RESULTS: Based upon the radiograph submitted, the o	consensus was that n	151	
recognized.			
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SPRINGFIELD MO 65803		G.G.KELLER. I	D.V.M., M.S., DACVR ERINARY SERVICES
	Verify certificate with QR scan		l l l l l l l l l l l l l l l l l l l
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This electronic OFA certificate was generated on: 03/10/2021

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 to request a correction.

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

OFA website: www.ofa.org E-mail address: ofa@offa.org Phone number: 573-442-0418 Fax number: 573-875-5073

	ORTHOPEDIC	FOUNDATION FOR	ANIMALS, INC.	
	CARAMEL APPLE OF OUR EYE		10490704 istration no.	
	LABRADOR RETRIEVER	F		
	film/test/lab #		/21/2019 e of birth	
	956000010315375 tattoo/microchip/DNA profile	24 age	at evaluation in months	A Not-For-Profit Organization
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	03/10/2021 date of report		A. NUMBER s number issued with the right to oke by the Orthopedic Foundat	o correct or
	RESULTS:			
$\mathbf{X}$	Based upon the radiograph submitted, ther Disease (DJD) in either Shoulder	e was no evidence of Ost	eochondrosis or Dege	enerative Joint
		SINCE 1966	DRMAL	
	<ul> <li>CASEY JO KELLNER</li> <li>841 E NORTHFIELD RD</li> <li>SPRINGFIELD MO 65803</li> </ul>	OFA eCert	G.G.KELLER.	D.V.M., M.S., DACVR ERINARY SERVICES
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	ΛΛΛΛΛΛΛΛΛΛΛΛΛΛΛ ORTHOPEDIC	FOUNDATION FOR ANIMALS, INC.
	CARAMEL APPLE OF OUR EYE	SS10490704 registration no.
	LABRADOR RETRIEVER	F sex
	film/test/lab #	02/21/2019 date of birth
	956000010315375 tattoo/microchip/DNA profile	24 age at evaluation in months A Not-For-Profit Organization
	2220665 application number	LR-253206E24F-VPI
N N N	03/10/2021 date of report	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 recognized. The hip joint conformation was	consensus was that no evidence of hip dysplasia was s evaluated as:
		EXCELLENT
	PROVIDE A CONTRACT OF A CONTRA	OFA BCBIT HAKellendim
	841 E NORTHFIELD RD SPRINGFIELD MO 65803	G.G.KELLER. D.V.M., M.S., DACVR CHIEF OF VETERINARY SERVICES
		Verify certificate with QR scan
X		www.ofa.org

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