Canine Genetic Health Certificate™

Call Name:	Loco	**Laboratory #:**	321739
Registered Name:	-	**Registration #:**	SS35183404
Breed:	Labrador Retriever	**Certificate Date:**	Aug. 29, 2022
Sex:	Female		
DOB:	April 2022		

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

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	*PTPLA*	WT/WT	Normal (clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	*COLQ*	WT/WT	Normal (clear)
Copper Toxicosis (Labrador Retriever Type) ATP7A	*ATP7A*	WT/WT	Normal/Clear Female
Copper Toxicosis (Labrador Retriever Type) ATP7B	*ATP7B*	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, Golden Retriever 2	*TTC8*	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)
Stargardt Disease	*ABCA4*	WT/M	Carrier

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 testing on the dog listed on this certificate. 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. The results included in this report relate only to the items tested using the sample provided. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the test(s)' accuracy and precision with >99.9% sensitivity and specificity. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a breed identification test. 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.

Companion Animal Eye Registry (CAER)

Orthopedic Foundation for Animals
2300 E Nifong Blvd, Columbia, MO 65201-3806
Phone: (573) 442-0418; Fax: (573)875-5073
www.ofa.org, A not-for-profit organization

Call name: LOCO
Registered name: FR's Freaky Fowl Fetcher
Breed: Labrador
Sex: F
ID Number (If any): ☐ Tattoo ☒ Microchip 956000013798676
Registration Number: ☒ AKC ☐ Other SS35183404
Date of Birth (mm/dd/yy): 043022
Date of Exam (mm/dd/yy): 102922

Owner Name: Casey Dowler
Co-Owner Name: Jessica Dowler Phone: 8162609644
Owner Address: PO Box 72
City: Britton State: SD Zip/postal code: 57430
E-Mail (use both lines if needed): frlabs@yahoo.com

I hereby certify that the animal examined is the animal described on this application, and understand that the results of this exam will be submitted by the examining ophthalmologist to the database for statistical gathering purposes. I understand that only passing results will be released to the public unless the initials of a registered owner or authorized agent appear in the authorization box below which permits the OFA to release non-passing results to the public.

Jessica F Dowler
Signature of owner or authorized agent/representative

I hereby authorize the OFA to release the results of the evaluation of the animal described on this application to the public if the results are non-passing (initials) _____

☒	**I DID** verify microchip/tattoo on this dog
☐	**I DID NOT** verify microchip/tattoo on this dog
☐	**NO MICROCHIP/TATTOO PRESENT**

I certify that I have performed this ophthalmic examination using pharmacological mydriasis, ophthalmoscopy, and biomicroscopy.

Signature	ACVO #	Date
	5??	10/23/22

Diplomate, American College of Veterinary Ophthalmologists

FEES AND CREDIT CARD INFORMATION ON THE BACK OF THE WHITE (OWNER) COPY

860858

Ophthalmologist Name: Adam King, DVM, DACVO EC555
Ophthalmologist Address: askingdvm@gmail.com
City: State: Zip/postal code:
Phone: ACVO #:
Email:

RIGHT EYE	GLOBE	LEFT EYE
☐	microphthalmos	☐
☐	keratoconjunctivitis sicca	☐
☐	glaucoma	☐
	EYELIDS	
☐	entropion	☐
☐	ectropion	☐
☐	distichiasis	☐
☐	ectopic cilia	☐
☐	imperforate lacrimal punctum	☐
	NICTITANS	
☐	cartilage anomaly/eversion	☐
☐	gland prolapse	☐
☐	plasmoma/atypical pannus	☐
	CORNEA	
☐	dystrophy—epithelial/stromal	☐
☐	dystrophy—endothelial	☐
☐	pannus	☐
☐	pigmentary keratitis/keratopathy	☐
	UVEA	
☐	uveal cyst	☐
☐	iris coloboma	☐
☐	iris hypoplasia	☐
☐	iris sphincter dysplasia	☐
☐	pigmentary uveitis	☐
☐	uveal melanoma	☐
☐	persistent pupillary membranes	☐

CORNEA (T N A P) — endothelial opacity/no strands; lens pigment foci/no strands; iris sheets; iris to cornea; iris to lens; iris to Iris; free floating; single; multiple

CORNEA (N T A P) — multiple; single; free floating; iris to Iris; iris to lens; iris to cornea; iris sheets; lens pigment foci/no strands; endothelial opacity/no strands

CATARACT	Incomp.	Incip.	Punc.		Punc.	Incip.	Incomp.	CATARACT
	☐	☐	☐	anterior cortex	☐	☐	☐	
	☐	☐	☐	posterior cortex	☐	☐	☐	
	☐	☐	☐	equatorial cortex	☐	☐	☐	
	☐	☐	☐	anterior sutures	☐	☐	☐	
	☐	☐	☐	posterior sutures	☐	☐	☐	
	☐	☐	☐	nucleus	☐	☐	☐	
	☐	☐	☐	capsular	☐	☐	☐	
	☐			generalized/complete			☐	
	☐			resorbing/hypermature			☐	

☐	***Significance Unknown/Suspect Not Inherited***	☐
☐	posterior Y-suture tip opacities	☐
☐	subluxation/luxation	☐

	VITREOUS	
☐	PHPV/PHTVL	☐
☐	persistent hyaloid artery	☐
☐	degeneration	☐

ant. chamber; syneresis — syneresis; ant. chamber

RIGHT EYE	FUNDUS	LEFT EYE
☐	retinal detachment	☐
☐	retinal atrophy—generalized	☐
☐	CMR/CMR-like retinopathy	☐
☐	other presumed inherited retinopathy	☐
☐	retinal dysplasia	☐
☐	choroidal hypoplasia	☐
☐	coloboma	☐
☐	optic nerve coloboma	☐
☐	optic nerve hypoplasia	☐
☐	micropapilla	☐

detached; geographic; folds — folds; geographic; detached

OTHER CONDITIONS	
☐	Unlisted conditions suspected as **inherited**. Describe in comments ☐
☐	Unlisted conditions suspected as **not inherited** ☐

☑ **NORMAL** ☑

Comments

11/18/21

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WHITE = Owner/OFA Registration copy; PINK = ACVO Diplomate copy; YELLOW = ACVO Research copy

Coat Color and Trait Certificate

Call Name:	Loco	**Laboratory #:**	321739
Registered Name:	-	**Registration #:**	SS35183404
Breed:	Labrador Retriever	**Certificate Date:**	Aug. 29, 2022
Sex:	Female		
DOB:	April 2022		

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 - e (Apricot/Cream/Red/Yellow, Common Variant Found in Many Breeds)	*MC1R*	E/e	Black (carries 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 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.

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