

Canine Genetic Health Certificate™

Call Name:	Ritz	Laboratory #:	163742
Registered Name:	FR's Little Quacker Dealer	Registration #:	SS15579502
Breed:	Labrador Retriever	Microchip #:	956000012313498
Sex:	Female	Certificate Date:	April 26, 2022
DOB:	Oct. 2019		

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

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	<i>PTPLA</i>	WT/WT	Normal (clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	<i>COLQ</i>	WT/WT	Normal (clear)
Copper Toxicosis (Labrador Retriever Type) ATP7A	<i>ATP7A</i>	WT/WT	Normal/Clear Female
Copper Toxicosis (Labrador Retriever Type) ATP7B	<i>ATP7B</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, Golden Retriever 2	<i>TTC8</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 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.



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

Companion Animal Eye Registry (CAER)

Call name: **Ritz**

Registered name: **N/A**

Breed: **Lab** Sex: **F**

ID Number (if any): Tattoo Microchip
956000012313498

Registration Number: AKC Other
5515579502

Date of Birth (mm/dd/yy): **10/18/19** Date of Exam (mm/dd/yy): **02/29/20**

Owner Name: **Cathy & Jessica Dack**

Co-Owner Name: _____ Phone: **605 691-3444**

Owner Address: **P.O. Box 72**

City: **Britton, SD** 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.

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

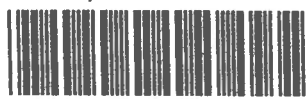
NO MICROCHIP/TATTOO PRESENT

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

Signature: **Dr. Daniel M. Betts** ACVO # **101** Date: **2-29-20**

Diplomate, American College of Veterinary Ophthalmologists

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



650639

RIGHT EYE	GLOBE	LEFT EYE
<input type="checkbox"/>	microphthalmos	<input type="checkbox"/>
<input type="checkbox"/>	keratoconjunctivitis sicca	<input type="checkbox"/>
<input type="checkbox"/>	glaucoma	<input type="checkbox"/>
EYELIDS		
<input type="checkbox"/>	entropion	<input type="checkbox"/>
<input type="checkbox"/>	ectropion	<input type="checkbox"/>
<input type="checkbox"/>	distichiasis	<input type="checkbox"/>
<input type="checkbox"/>	ectopic cilia	<input type="checkbox"/>
<input type="checkbox"/>	imperforate lacrimal punctum	<input type="checkbox"/>
NICTITANS		
<input type="checkbox"/>	cartilage anomaly/eversion	<input type="checkbox"/>
<input type="checkbox"/>	gland prolapse	<input type="checkbox"/>
<input type="checkbox"/>	plasmoma/atypical pannus	<input type="checkbox"/>
CORNEA		
<input type="checkbox"/>	dystrophy — epithelial/stromal	<input type="checkbox"/>
<input type="checkbox"/>	dystrophy — endothelial	<input type="checkbox"/>
<input type="checkbox"/>	pannus	<input type="checkbox"/>
<input type="checkbox"/>	pigmentary keratitis/keratopathy	<input type="checkbox"/>
UVEA		
<input type="checkbox"/>	uveal cyst	<input type="checkbox"/>
<input type="checkbox"/>	iris coloboma	<input type="checkbox"/>
<input type="checkbox"/>	iris hypoplasia	<input type="checkbox"/>
<input type="checkbox"/>	iris sphincter dysplasia	<input type="checkbox"/>
<input type="checkbox"/>	pigmentary uveitis	<input type="checkbox"/>
<input type="checkbox"/>	uveal melanoma	<input type="checkbox"/>
LENS		
<input type="checkbox"/>	anterior cortex	<input type="checkbox"/>
<input type="checkbox"/>	posterior cortex	<input type="checkbox"/>
<input type="checkbox"/>	equatorial cortex	<input type="checkbox"/>
<input type="checkbox"/>	anterior sutures	<input type="checkbox"/>
<input type="checkbox"/>	posterior sutures	<input type="checkbox"/>
<input type="checkbox"/>	nucleus	<input type="checkbox"/>
<input type="checkbox"/>	capsular	<input type="checkbox"/>
<input type="checkbox"/>	generalized/complete	<input type="checkbox"/>
<input type="checkbox"/>	resorbing/hypermature	<input type="checkbox"/>
VITREOUS		
<input type="checkbox"/>	PHPV/PHTVL	<input type="checkbox"/>
<input type="checkbox"/>	persistent hyaloid artery	<input type="checkbox"/>
degeneration		
<input type="checkbox"/>	ant. chamber syneresis	<input type="checkbox"/>

Ophthalmologist Name: **Dr. Daniel M. Betts EC101**

Ophthalmologist Address: **2108 Hughes Ave**

City: **Ames, IA** State: **IA** Zip/postal code: **50014**

Phone: **515-230-0413**

Email: _____

RIGHT EYE	FUNDUS	LEFT EYE
<input type="checkbox"/>	retinal detachment	<input type="checkbox"/>
<input type="checkbox"/>	retinal atrophy—generalized	<input type="checkbox"/>
<input type="checkbox"/>	retinopathy	<input type="checkbox"/>
retinal dysplasia		
<input type="checkbox"/>	choroidal hypoplasia	<input type="checkbox"/>
<input type="checkbox"/>	coloboma	<input type="checkbox"/>
<input type="checkbox"/>	optic nerve coloboma	<input type="checkbox"/>
<input type="checkbox"/>	optic nerve hypoplasia	<input type="checkbox"/>
<input type="checkbox"/>	micropapilla	<input type="checkbox"/>
OTHER CONDITIONS		
<input type="checkbox"/>	Unlisted conditions suspected as inherited . Describe in comments	
<input type="checkbox"/>	Unlisted conditions suspected as not inherited	

NORMAL

Comments

Coat Color and Trait Certificate

Call Name:	Ritz	Laboratory #:	163742
Registered Name:	FR's Little Quacker Dealer	Registration #:	SS15579502
Breed:	Labrador Retriever	Microchip #:	956000012313498
Sex:	Female	Certificate Date:	Nov. 13, 2020
DOB:	Oct. 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
D Locus (Dilute)	<i>MLPH</i>	D/D	Non dilute

Interpretation:

This dog carries two copies of **B** at all three of the b^c , b^d and b^s loci making the overall B locus genotype of this dog **B/B**. The overall B locus genotype for a dog is determined by the combination of the genotypes at the b^c , b^d , and b^s loci. The b^c , b^d , and b^s variants confer brown coat, nose, and foot pads when at least one of these DNA changes is present on both genes of the dog at the B locus. If the dog has one or no copies of **b** then the dog will have a black coat, nose, and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes. This dog will pass on **B** to 100% of its offspring.

This dog carries two copies of **D** which does not result in the "dilution" or lightening of the black and yellow/red pigments that produce the dog's coat color. The base coat color of this dog will be primarily determined by the E, K, A, and B genes. This dog will pass on **D** 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.



Christina J Ramirez, PhD, DVM, DACVP
Medical Director



Casey R Carl, DVM
Associate 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.