

Anna's Health Clearances

AKC: SR 92419602

Orthopedic Foundation for Animals: [Anna's Clearances](http://www.ofa.org)

Heart Clearance

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KAUFMANN'S ANNA
registered name

LABRADOR RETRIEVER
breed

tattoo/microchip/DNA profile

2037349
application number

3/5/2019
date of report

SR92419602
registration no.

F
sex

4/2/2016
date of birth

34
age at evaluation in months

LR-CA11132/34F/S-NOPI-ECHO
O.F.A. NUMBER

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

A Not-For-Profit Organization

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

NORMAL - SPECIALIST, ECHO

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

owner
ANDREA KAUFMANN
CHRISTIAN KAUFMANN
90 LEWIS ROAD
COCHRANVILLE, PA 19330

www.ofa.org

September 9, 2019

Elbow Dysplasia Clearance

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KAUFMANN'S ANNA
registered name

LABRADOR RETRIEVER
breed

956000004042557
tattoo/microchip/DNA profile

2037349
application number

3/27/2019
date of report

SR92419602
registration no.

F
sex

4/2/2016
date of birth

35
age at evaluation in months

LR-EL88825F35-VPI
O.F.A. NUMBER

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

A Not-For-Profit Organization

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

NORMAL

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

owner
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September 9, 2019

Hip Dysplasia Clearance

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KAUFMANN'S ANNA
registered name

LABRADOR RETRIEVER
breed

956000004042557
tattoo/microchip/DNA profile

2037349
application number

3/27/2019
date of report

SR92419602
registration no.

F
sex

4/2/2016
date of birth

35
age at evaluation in months

LR-239283G35F-VPI
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 consensus was that no evidence of hip dysplasia was recognized. The hip joint conformation was evaluated as:

GOOD

ANDREA KAUFMANN
CHRISTIAN KAUFMANN
90 LEWIS ROAD
COCHRANVILLE, PA 19330

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

September 9, 2019

www.ofa.org

Eyes Clearance

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

KAUFMANN'S ANNA
registered name

LABRADOR RETRIEVER
breed

563908
film/test/lab #

956000004042557
tattoo/microchip/DNA profile

2037349
application number

3/21/2019
date of report

SR92419602
registration no.

F
sex

4/2/2016
date of birth

33
age at evaluation in months

LR-EYE 16764/33F-VPI
O.F.A. NUMBER

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

RESULTS:
Based upon the exam dated 1/6/2019, this dog has been found to be free of observable inherited eye disease and has been issued an Eye Certification Registry Number which is valid for one year from the time of the exam.

ANDREA KAUFMANN
CHRISTIAN KAUFMANN
90 LEWIS ROAD
COCHRANVILLE, PA 19330

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

www.ofa.org



PRA-prcd DNA Test

Case Number: 137965

Owner: Andrea Kaufmann

90 Lewis Rd

Cochranville PA 19330

Canine Information

DNA ID Number: **185970**

Call Name: **Anna Kaufmann**

Sex: **Female**

Birthdate: **04/09/2016**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name:

Registration Number:

Microchip/Tattoo:

Report Date: 2/11/2020

DNA Result: **Clear (2 copies of the normal allele)**



Hereditary Nasal Parakeratosis DNA Test

Case Number: 137964

Owner: Andrea Kaufmann

90 Lewis Rd

Cochranville PA 19330

Canine Information

DNA ID Number: **185970**

Call Name: **Anna Kaufmann**

Sex: **Female**

Birthdate: **04/09/2016**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name:

Registration Number:

Microchip/Tattoo:

Report Date: 2/11/2020

DNA Result: **Clear (2 copies of the normal allele)**



Degenerative Myelopathy DNA Test

Case Number: 137962

Owner: Andrea Kaufmann
90 Lewis Rd
Cochranville PA 19330

Canine Information

DNA ID Number: **185970**

Call Name: **Anna Kaufmann**

Sex: **Female**

Birthdate: **04/09/2016**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name:

Registration Number:

Microchip/Tattoo:

Report Date: 2/11/2020

DNA Result: **Clear (2 copies of the normal allele)**



Exercise Induced Collapse DNA Test

Case Number: 123552

Owner: Andrea Kaufmann

90 Lewis Rd

Cochranville PA 19330

Canine Information

DNA ID Number: **170688**

Call Name: **Anna**

Sex: **Female**

Birthdate: **04/02/2016**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name: **Kaufmann's Anna**

Registration Number: **SR92419602**

Microchip/Tattoo: **95600000442557**

Report Date: 3/18/2019

DNA Result: **Carrier (1 normal allele/1 EIC mutation)**



Cystinuria DNA Test

Case Number: 137961

Owner: **Andrea Kaufmann**

90 Lewis Rd

Cochranville PA 19330

Canine Information

DNA ID Number: **185970**

Call Name: **Anna Kaufmann**

Sex: **Female**

Birthdate: **04/09/2016**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name:

Registration Number:

Microchip/Tattoo:

Report Date: 2/11/2020

DNA Result: **Clear (2 copies of the normal allele)**

Coat Color and Trait Certificate

Call Name:	Anna	Laboratory #:	116058
Registered Name:	-	Registration #:	-
Breed:	Labrador Retriever	Certificate Date:	May 21, 2021
Sex:	Female		
DOB:	April 2017		

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 (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.



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.

Laboratory Report

Laboratory #:	116058	Call Name:	Anna
Order #:	107308	Registered Name:	-
Ordered By:	Andrea Kaufmann	Breed:	Labrador Retriever
Ordered:	May 3, 2021	Sex:	Female
Received:	May 17, 2021	DOB:	April 2017
Reported:	May 21, 2021	Registration #:	-

Results:

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	<i>PTPLA</i>	WT/WT	Normal (clear)
Copper Toxicosis (Labrador Retriever Type) ATP7A	<i>ATP7A</i>	M/M	Two Copy Carrier Female
Copper Toxicosis (Labrador Retriever Type) ATP7B	<i>ATP7B</i>	WT/WT	Normal (clear)

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

Interpretation:

Molecular genetic analysis was performed for three specific mutations reported to be associated with disease in dogs (two deleterious mutations and one protective mutation). We identified two normal copies of the DNA sequences in the two deleterious mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these two mutations. However, we identified two mutant copies of the DNA sequences for *ATP7A*. Thus, this dog carries two copies of the protective mutation for Copper Toxicosis (Labrador Retriever Type) *ATP7A*.

Recommendations:

No deleterious mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. This dog was also tested for a genetic mutation of the canine *ATP7A* gene which partially protects against copper toxicosis in dogs that have inherited the *ATP7B* mutation described above. This dog carries two copies of the *ATP7A* gene mutation. The *ATP7A* gene mutation is more effective at decreasing the risk of copper toxicosis in male dogs than females. However, since multiple factors (both genetic and environmental) play a role in causing copper toxicosis, the *ATP7A* mutation is not completely protective in either sex. Note: The *ATP7A* mutation is located on the X chromosome. Since males only have a single X chromosome, they can only inherit a single copy of this mutation.

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
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Medical Director

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