

220 E. Rowan, Suite 220 Spokane, Washington 99207 www.pawprintgenetics.com (509) 483-5950

## **Laboratory Report**

**Laboratory #:** 196901 **Call Name:** Ciara

Order #: 88465 Registered Name: Discovery Tails Ciara
Ordered By: Vicki McCormack Breed: Australian Labradoodle

(Co-)Owner: Vicki Mccormack Sex: Female Ordered: Sept. 21, 2020 DOB: Dec. 2019 Received: Oct. 16, 2020 Registration #: WALA00035494 Oct. 30, 2020 Microchip #: 602592795 Reported:

## **Results:**

Disease	Gene	Genotype	Interpretation
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)
Neonatal Encephalopathy with Seizures	ATF2	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4	RPGRIP1	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	PRCD	WT/WT	Normal (clear)
Von Willebrand Disease I	VWF	WT/WT	Normal (clear)

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

## Interpretation:

Molecular genetic analysis was performed for eight specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in the mutations tested.

## **Recommendations:**

No mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. Because this dog is "clear" of these mutations, this dog will only pass the normal genes on to its offspring. 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. Paw Print Genetics<sup>®</sup> 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.



## **Coat Color and Trait Certificate**

Call Name: Ciara Laboratory #: 196901

Registered Name:Discovery Tails CiaraRegistration #:WALA00035494Breed:Australian LabradoodleMicrochip #:602592795Sex:FemaleCertificate Date:Oct. 30, 2020

**DOB:** Dec. 2019

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
A Locus (Agouti)	ASIP	a <sup>t</sup> /a	Tricolor, black and tan (carries bicolor/solid)
B Locus (Brown)	TYRP1	B/b or b/b	Carries brown and may have brown or black coat, nose and foot pads
E Locus (Yellow/Red)	MC1R	e/e	Yellow/red
IC Locus (Improper Coat/Furnishings)	RSP02	F/F	Furnishings
K Locus (Dominant Black)	CBD103	K <sup>B</sup> /k <sup>y</sup>	No agouti expression allowed (carrier)
S Locus (White Spotting, Parti, or Piebald)	MITF	S/s <sup>p</sup>	Limited white spotting, flash, parti, or piebald (carrier)

## **Interpretation:**

This dog carries one copy of  $\mathbf{a}^{\mathbf{t}}$  and one copy of  $\mathbf{a}$  which results in tan points and can also present as a black and tan or tricolor coat color. However, this dog's coat color is also dependent on the E, K, and B genes. The tan point coat color is only expressed if the dog is also E/E or E/e at the E locus and  $\mathbf{k}^{\mathbf{y}}/\mathbf{k}^{\mathbf{y}}$  at the K locus. This dog will pass on  $\mathbf{a}^{\mathbf{t}}$  to 50% of its offspring and  $\mathbf{a}$  to 50% of its offspring.

The overall B locus genotype for a dog is determined by the combination of genotypes present at the  $b^c$ ,  $b^d$ , and  $b^s$  loci. The  $b^c$ ,  $b^d$ , and  $b^s$  variants confer brown when at least one of these DNA changes is present on both genes of the dog at the B locus. This dog carries two copies of **B** at the  $b^s$  locus. In addition, this dog carries one copy of **B** and one copy of **b** at both the  $b^c$  and  $b^d$  loci. The presence of both these variants on a single copy of the gene cannot be excluded. Thus, due to the particular combination of variants detected, the overall B locus genotype of this dog is **B/b** or **b/b** and cannot be determined without additional testing of parental samples. Therefore, this dog carries brown and may have brown or black coat, nose and foot pads.

If the b<sup>c</sup> and b<sup>d</sup> variants each occur on separate copies of the B locus, the dog will be brown (**b/b**). However, if these variants occur on the same copy of the gene, the dog will be black (**B/b**). Therefore, the final B locus genotype for this dog can be inferred by evaluating the color of this dog's nose. If this dog's nose is brown, the final B locus genotype of this dog is **b/b** and this dog will pass on **b** to 100% of its offspring. If this dog's nose is black, the final B locus genotype of this dog is **B/b** and this dog will pass on **b** to 50% of its offspring. If this dog is B/b it can produce offspring with a black or brown coat, nose and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes.

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.

This dog does not carry the mutation for improper coat and will therefore have furnishings (proper coat). However, the overall coat type of this dog is dependent on the combination of this dog's genotypes at the L, Cu, and IC loci. This dog will pass **F** (furnishings, proper coat) on to 100% of its offspring.

This dog carries one copy of  $\mathbf{K}^{\mathbf{B}}$  and one copy of  $\mathbf{k}^{\mathbf{y}}$  which prevents expression of the agouti gene (A locus) and allows for solid eumelanin (black pigment) production in pigmented areas of the dog. However, this dog's coat color is also dependent on its genotypes at the E and B genes. This dog will pass on  $\mathbf{K}^{\mathbf{B}}$  to 50% of its offspring and  $\mathbf{k}^{\mathbf{y}}$  to 50% of its offspring.

This dog carries one copy of **S** and one copy of  $\mathbf{s}^{\mathbf{p}}$  which results in limited white spotting, flash, parti, or piebald coat color due to the co-dominance of **S** and  $\mathbf{s}^{\mathbf{p}}$ . This dog will pass on one copy of **S** to 50% of its offspring and one copy of  $\mathbf{s}^{\mathbf{p}}$  to 50% of its offspring.

Paw Print Genetics<sup>®</sup> 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.

Helen F Smith, PhD

Hely Smith

**Assistant Laboratory 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.

## **Orthopedic Foundation for Animals**

Hip Dysplasia Evaluation Report



DISCOVERY TAILS CIARA registered name

AUSTRALIAN LABRADOODLE

breed

film/test/lab #

602592795

tattoo/microchip/DNA profile

VICKI MCCORMACK

81 EASTGATE PL

SEQUIM WA 98382

CHIEF OF VETERINARY SERVICES

2200142

application number

12/18/2020

date of report

Owner

WALA00035494

registration no.

F

sex

12/10/2019 date of birth

12

age at evaluation in months

Veterinarian

HURRICANE RIDGE VETERINARY HOSPITAL 660 N 7TH AVE SEQUIM WA 98382

RADIOGRAPHIC EVALUATION OF PELVIC PHENOTYPE WITH RESPECT TO HIP DYSPLASIA

EXCELLENT HIP JOINT CONFORMATION  superior hip joint conformation as compared with other individuals of the same breed and age	BORDERLINE HIP JOINT CONFORMATION marginal hip joint conformation of indeterminate status with respect to hip dysplasia at this time Repeat study in six months
✓ GOOD HIP JOINT CONFORMATION  well formed hip joint conformation as compared with other individuals of the same breed and age	MILD HIP DYSPLASIA radiographic evidence of minor dysplastic changes of the hip joints
FAIR HIP JOINT CONFORMATION  minor irregularities of the hip joint conformation as compared with other individuals of the same breed and age	MODERATE HIP DYSPLASIA  well defined radiographic evidence of dysplastic changes of the hip joints
	SEVERE HIP DYSPLASIA radiographic evidence of marked dysplastic changes of the hip joints
RADIOGRAPHIC FINDINGS  subluxation remodeling of femoral head/neck osteoarthritis/degenerative joint disease shallow acetabula acetabular rim/edge change	unilateral pathology left right transitional vertebra spondylosis panosteitis



## Orthopedic Foundation for Animals

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

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Zip/postal code:	9880	A			795	π ]	ina	HZATION

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J thereby 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.

-Mail (use both lines if needed

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)

signature of owner or authorized agent/representative

I DID NOT verify microchip/tattoo on this dog	I DID verify microchip/tattoo on this dog

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

diplomate, American College of Veterinary Ophthalmologists

OF THE WHITE (OWNER) COPY

□ ant. chamber □ syneresis

persistent hyaloid artery

□ □ □ □ □ □ □ syneresis □ ant. chamber

VITREOUS PHPV/PHTVL

degeneration

subluxation/luxation



521684

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WHITE = Owner/OFA Registration copy; PINK = ACVO Diplomate copy; YELLOW = ACVO Research copy © American College of Veterinary Ophthalmologists

08/19/16

## **Orthopedic Foundation for Animals**

## Elbow Dysplasia Evaluation Report



DISCOVERY TAILS CIARA registered name

AUSTRALIAN LABRADOODLE

breed

film/test/lab # 602592795

tattoo/microchip/DNA profile

VICKI MCCORMACK

81 EASTGATE PL

SEQUIM WA 98382

2200142 application number

12/18/2020 date of report

Owner

WALA00035494 registration no.

F sex

> 12/10/2019 date of birth

12

age at evaluation in months

Veterinarian

HURRICANE RIDGE VETERINARY HOSPITAL 660 N 7TH AVE SEQUIM WA 98382

RADIOGRAPHIC EVALUATION OF PHENOTYPE WITH RESPECT TO ELBOW DYSPLASIA

ELBOW JOINTS FLEXED LATERAL VIEW	L_√	R <u>√</u>	
ELBOW DYSPLASIA GRADE I GRADE II GRADE III	L L L	R R R	
RADIOGRAPHIC FINDINGS degenerative joint disease (DJD) ununited anconeal process (UAP) fragmented coronoid process (FCP) osteochondrosis	L L L	R R R R	



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Registered name:			AKC registration number:	Other regis	try name: WALA
DISCOVERY TAILS	S CIARA "CIARA	Α"			try#: 00035494
<sup>Breed:</sup> AUSTRALIAN LABF	RADOODLE	Sex: F	Date of birth (MM/DD/YY): 12/10/2019		
Aicrochip/tattoo:			Registration number of sire:	Registration	n number of dam:
602592795			WALA00009343	WAL	A00009342
Owner name:	Co-Owner name:		Examining veterinary/clinic:		Date of evaluation (MM/DD/YY):
VICKI MCCORMAC  Aailing address:	K		HURRICANE RIDGE VETE	RINARY HOSPITAL	12/11/2020
81 EASTGATE PL			Mailing address: 660 N 7TH AVE		
ity:	State:	Zip/postal code:	City:	State:	Zip/postal code:
SEQUIM	WA	98382	SEQUIM	WA	98382
hone:	E-mail:		Phone:	E-mail:	
(360) 808-9800	DISCOVERYTA	AILS@GMAIL.COM	(360) 681-0117	TECHNICI	AN@HURRICANERIDGEVET.CO
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## **Application for Patellar Luxation Database**

Registered name:			AKC registration number:	Other registry name	· WALA
DISCOVERY TAILS CI	ARA "CIAF	RA"	***************************************	Other registry #: O(	
Breed:		Sex:	Date of birth (MM/DD/YY):		
AUSTRALIAN LABRAE	DOODLE	F	12/10/2019		
Microchip/tattoo: 602592795			Registration number of sire:	Registration number	
wner name:			WALA00009343	WALA000	009342
VICKI MCCORMACK			Date of evaluation (MM/DD/YY): 12/11/2020		
o-ownername:	***************************************		Examining veterinary clinic:		
			HURRICANE RIDG	F VETERINAR	Y HOSPITAI
Mailing address:			Mailing address:		THOOTHAL
81 EASTGATE PL			660 N 7TH AVE		
City:	State:	Zip/postal code:	City:	State:	Zip/postal code:
SEQUIM	WA	98382	SEQUIM	WA	98382
hone:	E-mail:		Phone:	E-mail:	
360) 808-9800	DISCOVERY	TAILS@GMAIL.C	СОМ (360) 681-0117	TECHNICIAN@HUR	RRICANERIDGEVET.COM
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atellar Examination Re	the results of its ev tered owner or a	valuation of the ani uthorized represe	imal described on this application to the entative).		abnormal
atellar Examination Re	the results of its ev tered owner or a	valuation of the ani uthorized represe	imal described on this application to the entative).  3. Classification of luxation	public if the results are a	
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