

## Canine Genetic Health Certificate™

<b>Call Name:</b>	Twyla	<b>Laboratory #:</b>	269593
<b>Registered Name:</b>	Sandstone Backstreets	<b>Registration #:</b>	SS297290/02
<b>Breed:</b>	Labrador Retriever	<b>Microchip #:</b>	981020043646187
<b>Sex:</b>	Female	<b>Certificate Date:</b>	Dec. 7, 2021
<b>DOB:</b>	Sept. 2021		

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

Disease	Gene	Genotype	Interpretation
Exercise-Induced Collapse	<i>DNM1</i>	WT/M	Carrier
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, Progressive Rod-Cone Degeneration	<i>PRCD</i>	WT/WT	Normal (clear)

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



**Blake C Ballif, PhD**  
Laboratory & Scientific Director



**Casey R Carl, DVM**  
Associate 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

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<b>Breed:</b>	Labrador Retriever	<b>Microchip #:</b>	981020043646187
<b>Sex:</b>	Female	<b>Certificate Date:</b>	Dec. 7, 2021
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**This canine's DNA showed the following genotype(s):**

Coat Color/Trait Test	Gene	Genotype	Interpretation
D Locus (Dilute)	<i>MLPH</i>	D/D	Non-dilute (does not carry dilute)
E Locus (Apricot/Yellow/Red) - e (Common Variant Found in Many Breeds)	<i>MC1R</i>	E/E	Black
L Locus (Long Hair/Fluffy) - Lh <sup>1</sup> (Common Variant Found in Many Breeds)	<i>FGF5</i>	Sh/Sh	Shorthaired (does not carry long hair)

**Interpretation:**

This dog does not carry any copies of the d<sup>1</sup> or d<sup>2</sup> 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 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 on **E** to 100% of its offspring.

This dog carries two copies of **Sh** which results in short hair. This dog will pass on **Sh** 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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