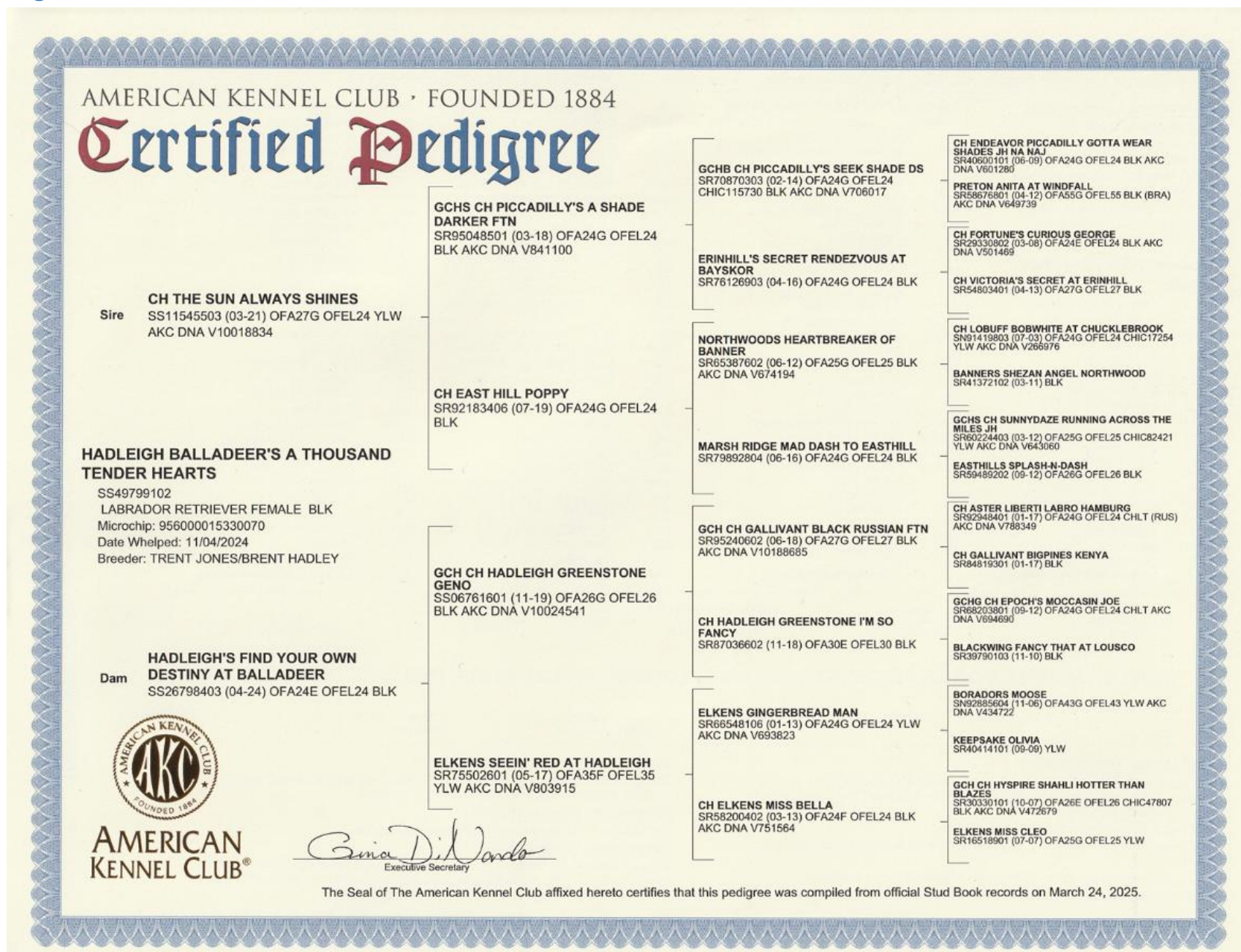


Balladeer Labradors

Montpelier, VA | Website: www.balladeerlabradors.com

Pedigree and Clearance Packet for Venus...as of 7/1/2025





OFA Hips

Results forthcoming...

This test will be scheduled and performed when she reaches two years of age.

OFA Elbows

Results forthcoming...

This test will be scheduled and performed when she reaches two years of age.

OFA Cardiac Clearance (Heart)

TBD

Paw Print Genetics: Canine Genetic Health Certificate Testing Results



4131 N. 48th St.
Lincoln, NE 68504
www.pawprintgenetics.com
(509) 483-5950

Laboratory Report

Laboratory #:	481739	Call Name:	Venus
Order #:	218729	Registered Name:	Hadleigh Balladeer's A Thousand Tender Hearts
Ordered By:	Trent Jones	Breed:	Labrador Retriever
Ordered:	Jan. 24, 2025	Sex:	Female
Received:	Feb. 6, 2025	DOB:	Nov. 2024
Reported:	Feb. 26, 2025	Registration #:	SS49799102
		Microchip #:	956000015330070

Results:

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	PTPLA	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	COLQ	WT/WT	Normal (Clear)
Exercise-Induced Collapse	DNM1	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis (Labrador Retriever Type)	SUV39H2	WT/M	Carrier
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/WT	Normal (Clear)

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

Interpretation:

Molecular genetic analysis was performed for 10 specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in nine of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these nine mutations. However, we identified one normal copy and one mutant copy of the DNA sequences for SUV39H2. Thus, this dog is a carrier of Hereditary Nasal Parakeratosis (Labrador Retriever Type).

Recommendations:

Hereditary Nasal Parakeratosis (Labrador Retriever Type) is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the SUV39H2 gene, this dog is a carrier of this disease. Although dogs that carry only one copy of this mutation will not be clinically affected, if bred with another carrier, the pairing could produce affected offspring. To avoid producing affected offspring, this dog should be bred with dogs that are normal (WT/WT) for this gene. Dogs related to this dog have an increased risk to be affected by or carry the mutated gene. Additional testing for this mutation is indicated for related dogs.

Paw Print Genetics: Coat Color and Trait Certificate



Coat Color and Trait Certificate

Call Name:	Venus	Laboratory #:	481739
Registered Name:	Hadleigh Balladeer's A Thousand Tender Hearts	Registration #:	SS49799102
Breed:	Labrador Retriever	Microchip #:	956000015330070
Sex:	Female	Certificate Date:	Feb. 26, 2025
DOB:	Nov. 2024		

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	<i>MC1R</i>	E/e ¹	Black - Carrier (Yellow/Red)
K Locus (Dominant Black)	<i>CBD103</i>	K ^B /K ^B	No agouti expression allowed
L Locus (Long Hair/Fluffy)	<i>FGF5</i>	Sh/Lh ¹	Shorthaired (carries one copy of long hair)

Interpretation:

This dog does not carry any copies of the b^a, b^c, b^d, b^e, b^h, and 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 d¹, d², or d³ 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 **e¹** 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 **e¹** 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 **e¹**, **e²**, or **e³**.

The K locus genotype for this dog is **K^B/K^B** 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 loci. This dog will pass on **K^B** to 100% of its offspring.

This dog carries one copy of the Sh and one copy of the Lh¹ Mutation which results in short hair. This dog will pass one copy of Sh to 50% of its offspring and one copy of Lh¹ to 50% of its offspring. This dog can produce Lh/Lh offspring if bred to a dog that is also a Carrier of an Lh mutation (Sh/Lh or Lh/Lh).

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.

CAER Eye Testing Results

TBD