

Canine Genetic Health Certificate™

Call Name:	Ha
Registered Name:	-
Breed:	Lal
Sex:	Fer
DOB:	Jur

arper abrador Retriever emale ne 2020

 Laboratory #:
 221509

 Registration #:
 SS20394101

 Microchip #:
 991001911150342

 Certificate Date:
 April 16, 2021

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

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	PTPLA	WT/WT	Normal (clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	COLQ	WT/WT	Normal (clear)
Copper Toxicosis (Labrador Retriever Type) ATP7A	ATP7A	M/M	Two Copy Carrier Female
Copper Toxicosis (Labrador Retriever Type) ATP7B	ATP7B	WT/M	At-Risk
Cystinuria (Labrador Retriever Type)	SLC3A1	WT/WT	Normal (clear)
Degenerative Myelopathy	SOD1	WT/WT	Normal (clear)
Elliptocytosis	SPTB	WT/WT	Normal (clear)
Exercise-Induced Collapse	DNM1	WT/WT	Normal (clear)
Hereditary Nasal Parakeratosis	SUV39H2	WT/WT	Normal (clear)
Hyperuricosuria	SLC2A9	WT/WT	Normal (clear)
Macular Corneal Dystrophy (Labrador Retriever Type)	CHST6	WT/WT	Normal (clear)
Myotubular Myopathy 1	MTM1	WT/WT	Normal/Clear Female

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

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Blake C Ballif, PhD Laboratory & Scientific Director

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Christina J Ramirez, PhD, DVM, DACVP 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.



Canine Genetic Health Certificate™

Call Name:	ŀ
Registered Name:	-
Breed:	L
Sex:	F
DOB:	J

Harper -Labrador Retriever Female June 2020
 Laboratory #:
 221509

 Registration #:
 SS20394101

 Microchip #:
 991001911150342

 Certificate Date:
 April 16, 2021

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

Disease	Gene	Genotype	Interpretation
Narcolepsy (Labrador Retriever Type)	HCRTR2	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4	RPGRIP1	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)
Pyruvate Kinase Deficiency (Labrador Retriever Type)	PKLR	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)

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Blake C Ballif, PhD Laboratory & Scientific Director

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Christina J Ramirez, PhD, DVM, DACVP Medical Director

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Coat Color and Trait Certificate

Call Name:	Harper	Laboratory #:	221509
Registered Name:	-	Registration #:	SS20394101
Breed:	Labrador Retriever	Microchip #:	991001911150342
Sex:	Female	Certificate Date:	March 26, 2021
DOB:	June 2020		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
D Locus (Dilute)	MLPH	D/D	Non-dilute (does not carry dilute)

Interpretation:

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.

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.

*Note: At the client's request, this certificate was amended on March 26, 2021 to update the call name, registration number and microchip number for this dog.

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Blake C Ballif, PhD Laboratory & Scientific Director

Casey R Carl, DVM Associate Medical Director

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