

Canine Genetic Health Certificate™

Call Name:	Hope	Laboratory #:	453460
Registered Name:	Patriots Chillbrook Hope of Firefly	Registration #:	AKC SS40047901
Breed:	Labrador Retriever	Microchip #:	956000014226110
Sex:	Female	Certificate Date:	July 8, 2024
DOB:	March 2023		

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

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	PTPLA	WT/WT	Normal (Clear)
Cone Degeneration (Labrador Retriever Type)	CNGA3	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	COLQ	WT/WT	Normal (Clear)
Copper Toxicosis (Labrador Retriever Type) ATP7A	ATP7A	WT/WT	Normal/Clear Female
Copper Toxicosis (Labrador Retriever Type) ATP7B	ATP7B	WT/WT	Normal (Clear)
Cystinuria (Labrador Retriever Type)	SLC3A1	WT/WT	Normal (Clear)
Degenerative Myelopathy (Common Variant)	SOD1	WT/WT	Normal (Clear)
Elliptocytosis	SPTB	WT/WT	Normal (Clear)
Exercise-Induced Collapse	DNM1	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis (Labrador Retriever Type)	SUV39H2	WT/WT	Normal (Clear)
Hyperuricosuria	SLC2A9	WT/WT	Normal (Clear)
Ichthyosis (Golden Retriever Type 1)	PNPLA1	WT/WT	Normal (Clear)

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

Paw Print Genetics® performed the testing on the dog listed on this certificate. 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. The results included in this report relate only to the items tested using the sample provided. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the test(s) accuracy and precision with >99.9% sensitivity and specificity. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a breed identification test. 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.

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Disease	Gene	Genotype	Interpretation
Macular Corneal Dystrophy (Labrador Retriever Type)	CHST6	WT/WT	Normal (Clear)
Myotubular Myopathy 1 (Labrador Retriever Type)	MTM1	WT/WT	Normal/Clear Female
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)

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