

## Dog Information

CoCo (Coco)  
NAME

Female  
SEX

Labrador Retriever  
GENETIC BREED

August 4th, 2017  
DATE OF BIRTH
















American Kennel Club: SS01004001  
REGISTRATION

n/a  
MICROCHIP

Canine Genetic Health Screen  
TEST

June 10th, 2021  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
Centronuclear Myopathy	PTPLA	NN	Clear	
Degenerative Myelopathy, DM	SOD1	GG	Clear	
Exercise-Induced Collapse	DNM1	GT	1 Variant	
Hereditary Nasal Parakeratosis	SUV39H2	GG	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	CC	Clear	
Macular Corneal Dystrophy, MCD	CHST6	CC	Clear	
Narcolepsy	HCRTR2	AA	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Pyruvate Kinase Deficiency	PKLR Exon 7 SNP Variant 1	CC	Clear	
Skeletal Dysplasia 2, SD2	COL11A2	GG	Clear	
Achromatopsia	CNGA3 (Exon 7 Deletion)	NN	Clear	
Alexander Disease	GFAP (Exon 4)	GG	Clear	
Canine Elliptocytosis	SPTB Exon 30	CC	Clear	
Congenital Myasthenic Syndrome	COLQ (Exon 14)	TT	Clear	
Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2	TTC8 Exon 8	NN	Clear	

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**n/a**  
MICROCHIP

**Natasha Wheeler**  
OWNER NAME

**Canine Genetic Health Screen**  
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## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
<b>Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM</b>	<b>MTM1 (Exon 7)</b>	<b>CC</b>	<b>Clear</b>	
<b>Progressive Retinal Atrophy - crd4/cord1</b>	<b>RPGRIP1 (Exon 2)</b>	<b>NN</b>	<b>Clear</b>	
<b>Ulrich-like Congenital Muscular Dystrophy</b>	<b>COL6A3</b>	<b>GG</b>	<b>Clear</b>	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT
Coefficient Of Inbreeding	38%
MHC Class II - DLA DRB1	High Diversity
MHC Class II - DLA DQA1 and DQB1	High Diversity

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## TRAIT TESTS (1/2)

Coat Color		RESULT
E Locus (MC1R)	No dark mask or grizzle	Ee
K Locus (CBD103)	More likely to have a mostly solid black or brown coat	K <sup>B</sup> K <sup>B</sup>
Intensity Loci LINKAGE	No impact on coat pattern	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a <sup>t</sup> a <sup>t</sup>
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Brown hair and skin	bb
Saddle Tan (RALY)	Not expressed	ll
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits		RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll
Coat Length (FGF5)	Likely short or mid-length coat	GG
Shedding (MC5R)	Likely heavy/seasonal shedding	CT
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN

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## TRAIT TESTS (2/2)

Body Size		RESULT
Body Size (IGF1)	Larger	NN
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	CC

Performance		RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN