

## Dog Information

Lamon's Talk Derby To Me (Sunday) NAME	Female SEX
Labrador Retriever BREED ANCESTRY	March 3rd, 2021 DATE OF BIRTH
American Kennel Club (AKC) SS24891207 REGISTRATION	n/a MICROCHIP

Tara Lamons

OWNER NAME

Canine Genetic Health Screen

TEST

February 15th, 2023

TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Centronuclear Myopathy, CNM	PTPLA	NN	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Exercise-Induced Collapse, EIC	DNM1	GG	Clear	
Hereditary Nasal Parakeratosis, HNPk	SUV39H2	GG	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	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, CMS	COLQ (Exon 14)	TT	Clear	
Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2	TTC8 Exon 8	NN	Clear	

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DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM	MTM1 (Exon 7)	CC	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	
Stargardt Disease	ABCA4 Exon 28	NN	Clear	
Ullrich-like Congenital Muscular Dystrophy	COL6A3	GG	Clear	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		15%
Immune Response 1		No Diversity
Immune Response 2		Low Diversity

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## TRAIT TESTS (1/3)

Base Coat Color	RESULT	GENETIC RESULT
Dark or Light Fur <i>E (Extension) Locus</i>	Can have dark fur	EE
Dark brown pigment <i>Cocoa</i>	No impact on fur and skin color	NN
Red Pigment Intensity LINKAGE <i>I (Intensity) Loci</i>	No impact on coat pattern	Intermediate Red Pigmentation
Brown or Black Pigment <i>B (Brown) Locus</i>	Brown fur and skin	bb
Color Dilution <i>D (Dilute) Locus</i>	Dark (non-dilute) fur and skin	DD
Coat Color Modifiers	RESULT	GENETIC RESULT
Hidden Patterning <i>K (Dominant Black) Locus</i>	More likely to have a mostly solid black or brown fur coat	K <sup>B</sup> K <sup>B</sup>
Body Pattern <i>A (Agouti) Locus</i>	No impact on coat pattern	a <sup>t</sup> a
Facial Fur Pattern <i>E (Extension) Locus</i>	No dark mask or grizzle facial fur patterns	EE
Saddle Tan	No impact on coat pattern	NI
White Spottina		

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## TRAIT TESTS (2/3)

Coat Color Modifiers	RESULT	GENETIC RESULT
Merle <i>M (Merle) Locus</i>	Unlikely to have merle pattern	mm
Harlequin	No impact on coat pattern	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length	Likely short or mid-length coat	GG
Shedding	Likely heavy/seasonal shedding	CT
Coat Texture	Likely straight coat	CC
Hairlessness (Xolo type) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (Terrier type)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 LINKAGE	Likely not albino	NN
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length	Likely medium or long muzzle	CC
Tail Length	Likely normal-length tail	CC

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## TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Hind Dew Claws	Unlikely to have hind dew claws	CC
Back Muscling & Bulk (Large Breed)	Likely normal muscling	CC
Eye Color LINKAGE	Less likely to have blue eyes	NN

Body Size	RESULT	GENETIC RESULT
Body Size 1	Intermediate	NI
Body Size 2	Larger	GG
Body Size 3	Larger	TT
Body Size 4	Larger	GG
Body Size 5	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation	Normal altitude tolerance	GG
Appetite LINKAGE	Likely to be more food motivated	ND