embark

DNA Test Report

Dog Information

Riverdales' Bright Horizons (River)
NAME

Male
SEX

Labrador Retriever
GENETIC BREED

March 28th, 2018
DATE OF BIRTH

American Kennel Club (AKC)
REGISTRATION

n/a
MICROCHIP

Sarah Smith
OWNER NAME

Canine Genetic Health Screen
TEST

August 13th, 2019
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)	CY	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		17%
Immune Response 1		Low Diversity
Immune Response 2		No Diversity

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TRAIT TESTS (1/2)

Base Coat Color	RESULT	GENETIC RESULT
Dark or Light Fur *E (Extension) Locus*	Can have dark fur	E^mE
Red Pigment Intensity LINKAGE *I (Intensity) Loci*	No impact on coat pattern	Intermediate Red Pigmentation
Brown or Black Pigment *B (Brown) Locus*	Brown fur and skin	bb
Color Dilution *D (Dilute) Locus*	Fur and skin have lighter (dilute) coloration	dd

Coat Color Modifiers	RESULT	GENETIC RESULT
Hidden Patterning *K (Dominant Black) Locus*	More likely to have a mostly solid black or brown fur coat	K^Bk^y
Body Pattern *A (Agouti) Locus*	No impact on coat pattern	a^ta^t
Facial Fur Pattern *E (Extension) Locus*	Can have black masking (dark facial fur)	E^mE
Saddle Tan	No impact on coat pattern	ll
White Spotting *S (White Spotting) Locus*	Likely to have little to no white in coat	SS
Merle *M (Merle) Locus*	Unlikely to have merle pattern	mm
Harlequin	No impact on coat pattern	hh

	RESULT	GENETIC RESULT

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TRAIT TESTS (2/2)

Other Body Features	RESULT	GENETIC RESULT
Muzzle Length	**Likely medium or long muzzle**	**CC**
Tail Length	**Likely normal-length tail**	**CC**
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	**Larger**	**NN**
Body Size 2	**Larger**	**GG**
Body Size 3	**Larger**	**TT**
Body Size 4	**Larger**	**GG**
Body Size 5	**Larger**	**CC**

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