

Dog Information

Mist (Mist) Female NAME SEX

Labrador Retriever December 26th, 2021
BREED ANCESTRY DATE OF BIRTH

American Kennel Club (AKC) n/a
REGISTRATION MICROCHIP

Laurel McComas
OWNER NAME

Canine Genetic Health Screen TEST

March 18th, 2022 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	GA	1 Variant	•
Pyruvate Kinase Deficiency	PKLR Exon 7 SNP Variant 1	СС	Clear	•
Skeletal Dysplasia 2, SD2	COL11A2	GG	Clear	(
Achromatopsia	CNGA3 (Exon 7 Deletion)	NN	Clear	x
Alexander Disease	GFAP (Exon 4)	GG	Clear	ᅪ
Canine Elliptocytosis	SPTB Exon 30	CC	Clear	ᅪ
Congenital Myasthenic Syndrome, CMS	COLQ (Exon 14)	TT	Clear	x
Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2	TTC8 Exon 8	NN	Clear	×





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Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM	MTM1 (Exon 7)	cc	Clear	x
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	x
Ullrich-like Congenital Muscular Dystrophy	COL6A3	GG	Clear	x



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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		14%
MHC Class II - DLA DRB1		Low Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	E ^m e
K Locus (CBD103)	More likely to have a mostly solid black or brown coat	K ^B k ^y
Intensity Loci LINKAGE	No impact on coat pattern	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	aa
D Locus (MLPH)	Dark areas of hair and skin are lightened	dd
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Brown hair and skin	bb
Saddle Tan (RALY)	Not expressed	NN
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merie alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr

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TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	GG
Shedding (MC5R)	Likely heavy/seasonal shedding	СС
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Coat Texture (KRT71)	Likely straight coat	СС
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	СС
Tail Length (T)	Likely normal-length tail	СС
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	СС



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TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Blue Eye Color (ALX4) LINKAGE	Less likely to have blue eyes	NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling	CC
Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Larger	NN
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Intermediate	TA
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	СС
Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN