

Dog Information

Murphy	Male
NAME	SEX
Golden Retriever	December 28th, 2019
GENETIC BREED	DATE OF BIRTH
n/a	982091071870165
REGISTRATION	MICROCHIP

Kaylee Morse
OWNER NAME

Canine Genetic Health Screen
TEST

February 21st, 2023
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Golden Retriever Progressive Retinal Atrophy 1, GR-PRA1	SLC4A3 Exon 16	NN	Clear	
Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2	TTC8 Exon 8	NN	Clear	
Ichthyosis, ICH1	PNPLA1 (Exon 8)	ACC/TACTACTA	1 Variant	
Muscular Dystrophy	DMD	AY	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Congenital Myasthenic Syndrome, CMS	COLQ	GG	Clear	
Dystrophic Epidermolysis Bullosa	COL7A1 (Exon 68)	GG	Clear	
Neuronal Ceroid Lipofuscinosis 5, NCL 5	CLN5 (Exon 4 Deletion)	NN	Clear	
Osteogenesis Imperfecta, Brittle Bone Disease	COL1A1 (Exon 18)	GG	Clear	
Retina Dysplasia and/or Optic Nerve Hypoplasia	SIX6 Exon 1	CC	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		21%
Immune Response 1		High Diversity
Immune Response 2		High Diversity

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TRAIT TESTS (1/3)

Base Coat Color	RESULT	GENETIC RESULT
Dark or Light Fur <i>E (Extension) Locus</i>	Light colored fur (cream to red)	ee
Dark brown pigment <i>Cocoa</i>	No impact on skin color	NN
Red Pigment Intensity LINKAGE <i>I (Intensity) Loci</i>	Any pigmented fur likely yellow or tan	Intermediate Red Pigmentation
Brown or Black Pigment <i>B (Brown) Locus</i>	Likely black colored nose/feet	BB
Color Dilution <i>D (Dilute) Locus</i>	Dark (non-dilute) skin	DD
Coat Color Modifiers	RESULT	GENETIC RESULT
Hidden Patterning <i>K (Dominant Black) Locus</i>	No impact on coat color	K ^B K ^B
Body Pattern <i>A (Agouti) Locus</i>	No impact on coat pattern	a ^t a
Facial Fur Pattern <i>E (Extension) Locus</i>	No dark fur anywhere	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>	No impact on coat color	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 long coat	TT
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		Smaller	II
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	Normal food motivation		NN