

## Dog Information

<b>Bailey</b> NAME	<b>Female</b> SEX
<b>Golden Retriever</b> GENETIC BREED	-- DATE OF BIRTH
<b>American Kennel Club (AKC)</b> REGISTRATION	n/a MICROCHIP

**Jenna Goebel**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**May 25th, 2022**  
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	AA	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	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		15%
Immune Response 1		High Diversity
Immune Response 2		High Diversity

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## TRAIT TESTS (1/2)

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 <sup>B</sup> K <sup>Y</sup>
Body Pattern <i>A (Agouti) Locus</i>	No impact on coat pattern	a <sup>t</sup> a <sup>t</sup>
Facial Fur Pattern <i>E (Extension) Locus</i>	No dark fur anywhere	ee
Saddle Tan	No impact on coat pattern	II

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