

Dog Information

Nutmeg NAME	Male SEX
Golden Retriever GENETIC BREED	May 18th, 2019 DATE OF BIRTH
n/a REGISTRATION	n/a MICROCHIP

rose smith
OWNER NAME

Canine Genetic Health Screen
TEST

June 17th, 2021
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)	AAC/AAC	Clear	
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	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Inbreeding		30%
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 white or cream	Dilute 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 ^Y
Body Pattern <i>A (Agouti) Locus</i>	No impact on coat pattern	a ^t a ^t
Facial Fur Pattern <i>E (Extension) Locus</i>	No dark fur anywhere	ee
Saddle Tan	No impact on coat pattern	NI

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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	Intermediate	TA
Body Size 4	Larger	GG
Body Size 5	Larger	CC