

Dog Information

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

Shep Golden
OWNER NAME

Canine Genetic Health Screen
TEST

June 18th, 2024
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1A	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	
Ichthyosis, ICH2	ABHD5 Exon 7	NN	Clear	
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	
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		29%
Immune Response 1		High Diversity
Immune Response 2		High Diversity

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TRAIT TESTS (1/4)

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 <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 ^Y k ^Y
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 (2/4)

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
Panda White Spotting	Not expected to display Panda pattern	NN
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length	Likely long coat	LhLh
Shedding	Likely light shedding	TT
Coat Texture	Likely straight coat	CC
Hairlessness (Xolo type)	Very unlikely to be hairless	NN
Hairlessness (Terrier type)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2	Likely not albino	NN
Other Body Features	RESULT	GENETIC RESULT
Muzzle Length	Likely medium or long muzzle	CC

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TRAIT TESTS (3/4)

Other Body Features	RESULT	GENETIC RESULT
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	Less likely to have blue eyes	NN
Chondrodysplasia (Leg Length)	Likely to have normal leg length	NN

Body Size	RESULT	GENETIC RESULT
Body Size 1	Larger	NN
Body Size 2	Larger	GG
Body Size 3	Larger	TT
Body Size 4	Intermediate	GA
Body Size 5	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation	Normal altitude tolerance	GG

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TRAIT TESTS (4/4)

Performance	RESULT	GENETIC RESULT
Appetite	Normal food motivation	NN