

Dog Information

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

Shep Golden
OWNER NAME

Canine Genetic Health Screen
TEST

June 7th, 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		23%
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 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 ^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	II
White Spottina		

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TRAIT TESTS (2/4)

Coat Color Modifiers		RESULT	GENETIC RESULT
Merle			
M (Merle) Locus	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 heavy/seasonal shedding		CT
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		Larger	GG
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