embark

DNA Test Report

Dog Information

SK's The Honorable Sir Biscuit ML (Biscuit) — NAME
Male — SEX
Dachshund — BREED ANCESTRY
February 8th, 2025 — DATE OF BIRTH
American Kennel Club (AKC) HP72147901 — REGISTRATION
n/a — MICROCHIP

Sharon Krotzer
OWNER NAME

Canine Genetic Health Screen
TEST

June 8th, 2026
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Mucopolysaccharidosis Type IIIA, Sanfilippo Syndrome Type A, MPS IIIA	SGSH	NN	Clear	
Narcolepsy	HCRTR2	GG	Clear	
Neuronal Ceroid Lipofuscinosis 1, NCL 1	PPT1 (Exon 8)	NN	Clear	
Neuronal Ceroid Lipofuscinosis 2, NCL 2	TPP1 (Exon 4)	NN	Clear	
Progressive Retinal Atrophy, crd4/cord1	RPGRIP1 (Exon 2)	NN	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	I/I	2 Variants	
Limb-Girdle Muscular Dystrophy 2D	SGCA Exon 3	GG	Clear	
Osteogenesis Imperfecta, Brittle Bone Disease	SERPINH1 (Exon 5)	CC	Clear	
Progressive Retinal Atrophy 5, PRA5	NECAP1 Exon 6	GG	Clear	

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TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark hairs anywhere	ee
K Locus (CBD103)	Not expressed	k^yk^y
Intensity Loci	Any pigmented hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a^ya^t
D Locus (MLPH)	Not expressed	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Likely black colored nose/feet	BB
Saddle Tan (RALY)	Not expressed	NI
S Locus (MITF)	Likely solid colored, but may have small amounts of white	Ssp
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A)	Likely no impact on coat pattern	rr

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TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Panda White Spotting	Not expected to display Panda pattern	NN

Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	LhLh
Shedding (MC5R)	Likely light shedding	TT
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (FOXI3)	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2)	Likely not albino	NN

Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC

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TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Likely to have chondrodysplasia (short legs)	II
Blue Eye Color (ALX4)	Less likely to have blue eyes	NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling	CC

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Intermediate	NI
Body Size (IGFR1)	Smaller	AA
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC)	Normal food motivation	NN