

Dog Information

Dollup (Dollup)	Female
NAME	SEX
Dachshund	December 28th, 2023
BREED ANCESTRY	DATE OF BIRTH
American Kennel Club (AKC)	n/a
REGISTRATION	MICROCHIP

Sharon Krotzer
OWNER NAME

Canine Genetic Health Screen
TEST

February 16th, 2024
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	HCRT2	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	N/I	1 Variant	
Limb-Girdle Muscular Dystrophy 2D	SGCA Exon 3	GG	Clear	
Osteogenesis Imperfecta, Brittle Bone Disease	SERPINH1 (Exon 5)	CC	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT
Coefficient Of Inbreeding	7%
MHC Class II - DLA DRB1	High Diversity
MHC Class II - DLA DQA1 and DQB1	High Diversity

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TRAIT TESTS (1/3)

Coat Color	RESULT
E Locus (MC1R)	No dark mask or grizzle (EE)
K Locus (CBD103)	More likely to have a patterned haircoat (k ^Y k ^Y)
Intensity Loci	Any light hair likely yellow or tan (Intermediate Red Pigmentation)
A Locus (ASIP)	Black/Brown and tan coat color pattern (a ^t a ^t)
D Locus (MLPH)	Dark areas of hair and skin are not lightened (DD)
Cocoa (HPS3)	No co alleles, not expressed (NN)
B Locus (TYRP1)	Black or gray hair and skin (BB)
Saddle Tan (RALY)	Not saddle tan patterned (II)
S Locus (MITF)	Likely to have little to no white in coat (SS)
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
H Locus (Harlequin)	No harlequin alleles (hh)
Other Coat Traits	RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows) (II)
Coat Length (FGF5)	Likely short or mid-length coat (ShLh)
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
Muzzle Length (BMP3)	Likely medium or long muzzle (CC)
Tail Length (T)	Likely normal-length tail (CC)
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws (CC)

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TRAIT TESTS (3/3)

Other Body Features		RESULT
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
Body Size (IGF1)		Intermediate (NI)
Body Size (IGFR1)		Smaller (AA)
Body Size (STC2)		Larger (TT)
Body Size (GHR - E191K)		Smaller (AA)
Body Size (GHR - P177L)		Larger (CC)
Performance		RESULT
Altitude Adaptation (EPAS1)		Normal altitude tolerance (GG)
Appetite (POMC)		Normal food motivation (NN)