

Dog Information

Malificent (Millie)
NAME

Female
SEX

Great Dane
BREED ANCESTRY

May 28th, 2023
DATE OF BIRTH

American Kennel Club (AKC)
REGISTRATION

n/a
MICROCHIP

Bob Diamond
OWNER NAME

Canine Genetic Health Screen
TEST

March 12th, 2025
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Inherited Myopathy of Great Danes	BIN1	GG	Clear	
Ichthyosis	SLC27A4	GG	Clear	

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INBREEDING AND DIVERSITY

	RESULT	GENETIC RESULT
Genetic Diversity		
Coefficient Of Inbreeding		20%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	E ^m E
K Locus (CBD103)	More likely to have a mostly solid black or brown coat	K ^B K ^Y
Intensity Loci	No impact on coat pattern	Dilute Red Pigmentation
A Locus (ASIP)	Not expressed	a ^Y a ^Y
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 expressed	NN
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	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 (RSP02)	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	ShSh
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)	Not indicative of chondrodysplasia (normal leg length)		NN
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)	Larger		NN
Body Size (IGFR1)	Larger		GG
Body Size (STC2)	Larger		TT
Body Size (GHR - E191K)	Larger		GG
Body Size (GHR - P177L)	Larger		CC
Performance		RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance		GG
Appetite (POMC)	Normal food motivation		NN