

DNA Test Report

Dog Information

Osiris willett
NAME

Male
SEX

Bulldog
GENETIC BREED

October 24th, 2017
DATE OF BIRTH

American Kennel Club (AKC) NP48081508
REGISTRATION

n/a
MICROCHIP

Nicole Marie willett
OWNER NAME

Canine Genetic Health Screen
TEST

September 16th, 2020
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Canine Multifocal Retinopathy, cmr1	BEST1/VMD2 Exon 2	CC	Clear	
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		34%
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 ^m
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)	Fawn Sable coat color pattern	a ^y a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
B Locus (TYRP1)	Black or gray hair and skin	Bb
Saddle Tan (RALY)	Not expressed	NI
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSP02)	Likely unfurnished (no mustache, beard, and/or eyebrows)	II

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TRAIT TESTS (2/3)

Other Coat Traits		RESULT	GENETIC RESULT
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 short muzzle		AA
Tail Length (T)	Likely normal-length tail		CC
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws		CC
Blue Eye Color (ALX4)	Less likely to have blue eyes		NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling		CC

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TRAIT TESTS (3/3)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Smaller	II
Body Size (IGFR1)	Intermediate	GA
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