

## Dog Information

<b>Velvet</b> NAME	<b>Female</b> SEX
<b>Doberman Pinscher</b> BREED ANCESTRY	<b>September 1st, 2021</b> DATE OF BIRTH
<b>FCI: JR 722123</b> REGISTRATION	<b>n/a</b> MICROCHIP

**Nichole Jacobs**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**February 5th, 2022**  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Deafness and Vestibular Syndrome of Dobermans, DVDob, DINGS	MYO7A	GG	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Dilated Cardiomyopathy, DCM1	PDK4	ND	1 Variant	
Dilated Cardiomyopathy, DCM2	TTN	N/N	Clear	
Narcolepsy	HCRTR2	NN	Clear	
Von Willebrand Disease Type I, Type I vWD	VWF	GG	Clear	
Ehlers Danlos	ADAMTS2	GG	Clear	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		52%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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## TRAIT TESTS (1/2)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	E <sup>m</sup> E
K Locus (CBD103)	More likely to have a patterned haircoat	k <sup>Y</sup> k <sup>Y</sup>
Intensity Loci LINKAGE	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a <sup>+</sup> a <sup>t</sup>
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)	Likely saddle tan patterned	NI
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSP02) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	GG
Shedding (MC5R)	Likely light to moderate shedding	TT
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN

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## TRAIT TESTS (2/2)

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) LINKAGE	Normal food motivation	NN