

OWNER'S NAME: Fred Grotenhuis

DOG'S NAME: Shadow vom Ferrenberg

TEST DATE: October 8th, 2019

This certifies the authenticity of **Shadow vom Ferrenberg's** canine genetic background as determined following careful analysis of more than 200,000 genetic markers.

Welcome to the **Embark** family!

DOBERMAN PINSCHER



100.0% Doberman Pinscher

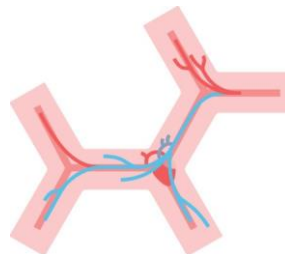
WOLFINESS **0.9% MEDIUM**

MATERNAL HAPLOTYPE **C38**

PATERNAL HAPLOTYPE **Ha.13**

Adam Boyko, Ph.D.
CHIEF SCIENCE OFFICER

Ryan Boyko
CHIEF EXECUTIVE OFFICER



KIDNEY AND MULTISYSTEM
GASTROINTESTINAL
BLADDER

OTHER
SYSTEMS

BRAIN AND
SPINAL CORD

HEART

MUSCULAR

METABOLIC

Clear

Shadow vom Ferrenberg is clear of all the Heart conditions that Embark tests for.

O Dilated Cardiomyopathy (DCM1) (PDK4) (/members/results/condition/100000)

O Dilated Cardiomyopathy (DCM2) (TTN) (/members/results/condition/100001)

o Long QT Syndrome (KCNQ1) (/members/results/condition/100100)

Dog Information

Shadow vom Ferrenberg
NAME

Male
SEX

Doberman Pinscher
GENETIC BREED

September 20th, 2017
DATE OF BIRTH

**FCI - Dobermann Vrienden In Nederland:
NHSB 3115043**
REGISTRATION






276098106552203
MICROCHIP

Fred Grotenhuis
OWNER NAME

Canine Genetic Health Screen
TEST

October 8th, 2019
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	
Deafness and Vestibular Syndrome of Dobermans (DVDob, DINGS)	MYO7A	GG	Clear	
Degenerative Myelopathy	SOD1	GG	Clear	
Dilated Cardiomyopathy (DCM1)	PDK4	NN	Clear	
Dilated Cardiomyopathy (DCM2)	TTN	N/N	Clear	
Von Willebrand Disease Type I	VWF	GA	Carrier	

Dog Information +

Shadow vom Ferrenberg
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TRAIT TESTS (1/2)

Base Coat Color		RESULT
Dark or Light Fur <i>E (Extension) Locus</i>	Can have dark fur	EE
Brown or Black Pigment <i>B (Brown) Locus</i>	Black or gray fur and skin	Bb
Color Dilution <i>D (Dilute) Locus</i>	Dark (non-dilute) fur and skin	DD
Coat Color Modifiers		RESULT
Hidden Patterning <i>K (Dominant Black) Locus</i>	More likely to have patterned fur	k ^y k ^y
Body Pattern <i>A (Agouti) Locus</i>	Black/Brown and tan coat color pattern	a ^t a ^t
Facial Fur Pattern <i>E (Extension) Locus</i>	No dark mask or grizzle facial fur patterns	EE
Saddle Tan	Not saddle tan patterned	II
Merle <i>M (Merle) Locus</i>	Unlikely to have merle pattern	mm
Other Coat Traits		RESULT
Furnishings LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length	Likely short or mid-length coat	GG
Shedding	Likely light to moderate shedding	TT
Coat Texture	Likely straight coat	CC

Dog Information +

Shadow vom Ferrenberg
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TRAIT TESTS (2/2)

Other Body Features		RESULT
Muzzle Length	Likely medium or long muzzle	CC
Tail Length	Likely normal-length tail	CC
Hind Dew Claws	Unlikely to have hind dew claws	CC
Back Muscling & Bulk (Large Breed)	Likely normal muscling	CC
Eye Color LINKAGE	Less likely to have blue eyes	NN

Body Size		RESULT
Body Size 1	Larger	NN
Body Size 2	Larger	GG
Body Size 3	Larger	TT
Body Size 4	Larger	GG
Body Size 5	Larger	CC

Performance		RESULT
Altitude Adaptation	Normal altitude tolerance	GG