



MAUI CARNATION THEODEN LORD OF THE MARK

D147376, HD21685

M WHITE WHITE SWISS SHEPHERD

Born Jul 11 2021

Sire: GLACIER ZEICHEN VON WOLF HD191731

Dam: SOVERNPAK ICE POLAR STAR 3100379086



Registry	Test Date	Report Date	Age(m)	Conclusion	OFA Number
CANINE LEUKOCYTE ADHESION DEF.	Oct 19 2022	Jul 21 2023	15	CLEAR/NORMAL	BBS-CLD15/15M-PI
COLLIE EYE ANOMALY	Oct 19 2022	Aug 4 2023	15	CLEAR/NORMAL	BBS-CEA6/15M-PI
DEGENERATIVE MYELOPATHY	Oct 19 2022	Jul 21 2023	15	CLEAR/NORMAL	BBS-DM97/15M-PI
MULTIPLE DRUG RESISTANCE (MDR1)	Oct 19 2022	Jul 21 2023	15	CLEAR/NORMAL	BBS-MD1-66/15M-PI-N/N
ELBOW	Jul 15 2023	Aug 3 2023	24	NORMAL	BBS-EL156M24-U-VPI
HIPS	Jul 15 2023	Aug 3 2023	24	EXCELLENT	BBS-162E24M-U-VPI



Parents (click name to view info)	Sex	Relation	Registration	Birthdate
GLACIER ZEICHEN VON WOLF	M	Sire	HD191731/FCA2301	Apr 22 2019
SOVERNPAK ICE POLAR STAR	F	Dam	3100379086	Jul 2 2018
Half Sibs (click name to view info)	Sex	Relation	Registration	Birthdate
MAUI CARNATION ROHAN STRENGTH OF LEGENDS	M	½ sib (sire)	HD21681	Jul 11 2021

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

MAUI CARNATION THEODEN LORD OF THE MARK
registered name

WHITE SWISS SHEPHERD
breed

23YUEZ
film/test/lab #

985113004692561
tattoo/microchip/DNA profile

2474303
application number

07/21/2023
date of report

RESULTS:

DEGENERATIVE MYELOPATHY (DM): N/N, TWO NORMAL COPIES OF THE GENE ASSOCIATED WITH DM SUSCEPTIBILITY

D147376, HD21685
registration no.

M
sex

07/11/2021
date of birth

15
age at evaluation in months



A Not-For-Profit Organization

BBS-DM97/15M-PI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

NORMAL

ner KIAH MOROSS

OFA eCert



Verify QR scan

G.G.KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

This electronic OFA certificate was generated on: 07/21/2023

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email CORRECTIONS@OFFA.ORG to request a correction.

Orthopedic Foundation for Animals, Inc.
2300 E. Nifong Blvd.
Columbia, MO 65201-3806

OFA website: www.ofa.org
E-mail address: ofa@offa.org
Phone number: 573-442-0418
Fax number: 573-875-5073

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MULTIPLE DRUG RESISTANCE (MDR1): NORMAL/NORMAL

D147376, HD21685
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15
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Phone number: 573-442-0418
Fax number: 573-875-5073

PennHIP Report

Referring Veterinarian: Dr Matt Leara
Email: animalclinicofhonolulu@gmail.com

Clinic Name: Animal Clinic of Honolulu
Clinic Address: 1048 Koko Head Ave
Honolulu, HI 96816
Phone:
Fax: (808) 735-1937

Patient Information

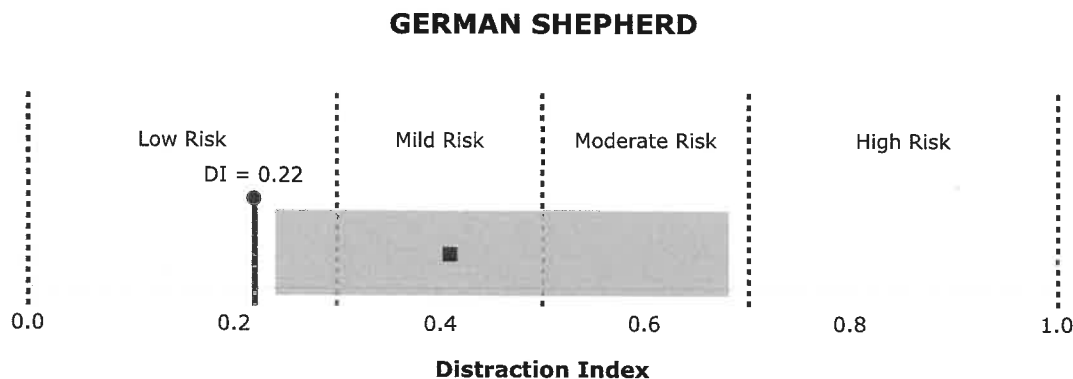
Client: Moross, Kiah	Tattoo Num:
Patient Name: Maui Carnation Theoden Lord of the Mark	Patient ID: 38069
Reg. Name:	Registration Num:
PennHIP Num: 191418	Microchip Num:
Species: Canine	Breed: GERMAN SHEPHERD
Date of Birth: 11 Jul 2021	Age: 24 months
Sex: Male	Weight: 84.4 lbs/38.3 kgs
Date of Study: 15 Jul 2023	Date Submitted: 15 Jul 2023
Date of Report: 18 Jul 2023	

Findings

Distraction Index (DI): Right DI = 0.20, Left DI = 0.22.
Osteoarthritis (OA): **No radiographic evidence of OA for either hip.**
Cavitation/Other Findings: No cavitation present.

Interpretation

Distraction Index (DI): The laxity ranking is based on the hip with the greater laxity (larger DI). In this case the DI used is 0.22.
OA Risk Category: The DI is less than or equal to 0.30. This patient is at minimal risk for hip OA.
Distraction Index Chart:



BREED STATISTICS: This interpretation is based on a cross-section of 18753 canine patients of the GERMAN SHEPHERD breed in the AIS PennHIP database. The gray strip represents the central 90% range of DIs (0.24 - 0.68) for the breed. The breed average DI is 0.41 (solid square). The patient DI is the solid circle (0.22).

SUMMARY: The degree of laxity (DI = 0.22) ranks the hip within the tightest 5% of DIs for the breed. This amount of hip laxity places the hip at a minimal risk to develop hip OA. **No radiographic evidence of OA for either hip.**

7/15/23 10:07 AM
Front Right Extremity
Elbow Right Lat
07/15/2023 8:24:34 PM

Moross, Maul Camati...
Moross, Kiah
DOB: 07/11/2021
Male
Patient ID: (38069)
Animal Clinic of Hon...



Calibrated: true
DX

Series 3 of 3
Image 1 of 1

7/15/23 10:07 AM
Front Left Extremity
Elbow Left Lat
07/15/2023 8:25:11 PM

Moross, Maui Camati
Moross, Kiah
DOB: 07/11/2021
Male
Patient ID: (38069)
Animal Clinic of Hon...



Calibrated: true
DX

Series 1 of 3
Image 1 of 1

7/15/23 10:07 AM
Pelvis
Pelvis - Extended VD - (retake)
07/15/2023 8:16:00 PM

Moross, Maul Carnati...
Moross, Kiah
DOB: 07/11/2021
Male
Patient ID: (38069)
Animal Clinic of Hon...

R

Calibrated: true
DX

Series 2 of 3
Image 5 of 8



7/15/23 10:07 AM
Pelvis
Pelvis - Compression VD
07/15/2023 8:17:00 PM

Moross, Maul Camati...
Moross, Kiah
DOB: 07/11/2021
Male
Patient ID: (38069)
Animal Clinic of Hon...



Calibrated: true
DX

Series 2 of 3
Image 1 of 8

7/15/23 10:07 AM
Pelvis
Pelvis - Distracted VD - (retake)
07/15/2023 8:22:32 PM

Moross, Maul Camati...
Moross, Kiah
DOB: 07/11/2021
Male
Patient ID: (38069)
Animal Clinic of Hon...

R 4

Calibrated: true
DX

Series 2 of 3
Image 7 of 8



Dog Information

Maui Carnation Theoden Lord of the Mark (Nalu)
NAME **Male**
SEX
July 11th, 2021
DATE OF BIRTH
White Shepherd
BREED ANCESTRY **n/a**
Fédération Cynologique Internationale (FCI) HD21.685
REGISTRATION **MICROCHIP**

Kiah Y Moross, Taylor Ganeko

OWNER NAMES

Canine Genetic Health Screen

TEST

October 19th, 2022

TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Canine Leukocyte Adhesion Deficiency Type III, CLAD III	FERMT3	NN	Clear	
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
MDR1 Drug Sensitivity	ABCB1	NN	Clear	
Achromatopsia	CNGA3 (Exon 7 SNP)	CC	Clear	
Factor VIII Deficiency, Hemophilia A	F8 Exon 1	GY	Clear	
Factor VIII Deficiency, Hemophilia A	F8 Exon 11	GY	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	
Mucopolysaccharidosis Type VII, Sly Syndrome, MPS VII	GUSB	GG	Clear	
Platelet Factor X Receptor Deficiency, Scott Syndrome	TMEM16F	GG	Clear	
Renal Cystadenocarcinoma and Nodular Dermatofibrosis, RCND	FLCN	GG	Clear	
X-linked Ectodermal Dysplasia, Anhidrotic Ectodermal Dysplasia, XHED	EDA	GY	Clear	

Dog Information

Mai Carnation Theoden Lord of the Mark (Nalu)
NAME

INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		25%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

Dog Information

Mauí Carnation Theoden Lord of the Mark (Nalu)
NAME

TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC 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 LINKAGE	Any light hair likely white or cream	Dilute Red Pigmentation
A Locus (ASIP)	Agouti (Wolf Sable) coat color pattern	a ^w 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 expressed	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

Dog Information

Mauí Carnation Theoden Lord of the Mark (Nalu)
NAME

TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
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 long coat	TT
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOXI3) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE	Likely not albino	NN
Coat Texture (KRT71)	Likely straight coat	CC
Other Body Features	RESULT	GENETIC 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

Dog Information

Mauí Carnation Theoden Lord of the Mark (Nalu)
NAME

TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Blue Eye Color (ALX4) LINKAGE	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) LINKAGE	Normal food motivation	NN