

Laboratory Report

Laboratory #:	287263	Call Name:	Yeti
Order #:	185781	Registered Name:	MarLoWin's Herd About Yeti
Ordered By:	Tina Winston	Breed:	Miniature Australian Shepherd
Ordered:	June 8, 2023	Sex:	Male
Received:	June 12, 2023	DOB:	June 2021
Reported:	June 15, 2023	Registration #:	ASDT-KY-2112789

Results:

Disease	Gene	Genotype	Interpretation
Coagulation Factor VII Deficiency	<i>F7</i>	WT/WT	Normal (Clear)
Collie Eye Anomaly	<i>NHEJ1</i>	WT/WT	Normal (Clear)
Cone Degeneration	<i>CNGB3</i>	WT/WT	Normal (Clear)
Craniomandibular Osteopathy	<i>SLC37A2</i>	WT/WT	Normal (Clear)
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (Clear)
Exercise-Induced Collapse	<i>DNM1</i>	WT/WT	Normal (Clear)
Hereditary Cataracts (Australian Shepherd Type)	<i>HSF4</i>	WT/WT	Normal (Clear)
Hyperuricosuria	<i>SLC2A9</i>	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption (Australian Shepherd Type)	<i>AMN</i>	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption (Border Collie Type)	<i>CUBN</i>	WT/WT	Normal (Clear)
Multidrug Resistance 1	<i>ABCB1</i>	WT/WT	Normal (Clear)
Multifocal Retinopathy 1	<i>BEST1</i>	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 6	<i>CLN6</i>	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 8 (Australian Shepherd Type)	<i>CLN8</i>	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	<i>PRCD</i>	WT/WT	Normal (Clear)
Von Willebrand Disease I	<i>VWF</i>	WT/WT	Normal (Clear)

WT, wild type (normal); M, mutant; Y, Y chromosome (male)

Interpretation:

Molecular genetic analysis was performed for 16 specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in 16 mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these 16 mutations.

Recommendations:

No mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. Because this dog is "clear" of these mutations, this dog will only pass the normal genes

on to its offspring. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



Blake C Ballif, PhD
Laboratory & Scientific Director



Christina J Ramirez, PhD, DVM, DACVP
Medical Director

Paw Print Genetics® performed the tests listed on this dog. The genes/diseases reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. The results included in this report relate only to the items tested using the sample provided. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the test(s)' accuracy and precision with >99.9% sensitivity and specificity. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a breed identification test. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think any results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.

Coat Color and Trait Certificate

Call Name:	Yeti	Laboratory #:	287263
Registered Name:	MarLoWin's Herd About Yeti	Registration #:	ASDT-KY-2112789
Breed:	Miniature Australian Shepherd	Certificate Date:	June 9, 2023
Sex:	Male		
DOB:	June 2021		

This canine's DNA showed the following genotype(s):

Coat Color/Trait Test	Gene	Genotype	Interpretation
B Locus (Brown)	<i>TYRP1</i>	B/B	Black coat, nose and foot pads (does not carry brown)
M Locus (Merle)	<i>PMEL</i>	m/m	Non merle

Interpretation:

This dog does not carry any copies of the b^a , b^c , b^d or b^s mutations and has a B locus genotype of **B/B**. Thus, this dog typically will have a black coat, nose, and foot pads. However, this dog's coat color is dependent on the genotypes of many other genes. This dog will pass one copy of **B** to 100% of its offspring and cannot produce b/b dogs.

This dog carries two copies of **m**, the non-merle, wild-type allele of the *PMEL* gene, and, therefore, does not have a merle coat color/pattern. This dog will pass on one copy of the **m** allele to 100% of its offspring.

Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



Blake C Ballif, PhD
Laboratory & Scientific Director



Christina J Ramirez, PhD, DVM, DACVP
Medical Director

Paw Print Genetics® performed the testing on the dog listed on this certificate. The genes/traits reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause variation in traits, medical problems or may be passed on to offspring. The results included in this report relate only to the items tested using the sample provided. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the test(s) accuracy and precision with >99.9% sensitivity and specificity. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a breed identification test. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think any results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.

Animal Disease Diagnostic Laboratory

Purdue University, 406 S. University Street, West Lafayette, IN 47907-2065

Phone: (765)494-7440 Fax (765)494-9181 Email: addl@purdue.edu

Web: <http://www.addl.purdue.edu>

ADDL Case #: A24-18219

Other ID:

Date Received: 3/18/2024

Submitter

PURDUE CANINE GENETICS LAB
625 HARRISON STREET
WEST LAFAYETTE, IN 47907

Premises

DOG INFO
CH MARLOWIN'S HERDABOUT THE
YETI FDC 06/15/2021 DN67569401 /
AKC

Owner

MARLO WIN
TINA WINSTON
PO BOX 187
PHILPOT, KY 42366

Vet Phone:

Species: Canine

Sex: Male

Vet Fax:

Breed: Miniature American Shepherd

Age: 2.5 Years

Premise ID: DOG INFO

Tests Requested in: CanineG

Test	Ordered	Status	Completed
Neuroaxonal Dystrophy	3/18/2024	Complete	3/19/2024
Non-HSF4 Hereditary Cataracts	3/18/2024	Complete	3/19/2024

Owner Report

3/28/2024 9:29:15 AM

Canine Genetics

by Dr. Rebecca Wilkes, Section Head

The following tests were performed using PCR.

Animal ID	Specimen	Organism	Result
YETI	Cheek Swab	Neuroaxonal Dystrophy	Clear (N/N)
		Non-HSF4 Hereditary Cataracts	Clear (N/N)

MARLOWIN'S HERDABOUT THE YETI, CH, FDC

DN67569401, ASDMKY2112789

M BLACK MINIATURE AMERICAN SHEPHERD

Born Jun 15 2021

Sire: DN62322209

Dam: DN55622805

Registry	Test Date	Report Date	Age(m)	Conclusion	OFA Number
ELBOW	Jun 27 2023	Jul 6 2023	24	NORMAL	MAS-EL3108M24-U-PI
HIPS	Jun 27 2023	Jul 6 2023	24	GOOD	MAS-5126G24M-U-PI
PATELLA	Jun 27 2023	Jun 30 2023	24	NORMAL	MAS-PA2003/24M/P-PI