THE INTERNATIONAL CAT ASSOCIATION
CERTIFIED PEDIGREE

Name of Cat: MANDYSBENGALS XENA
Date of Birth: 07/28/2020
TICA Number: SBT 072820 025
Eye Color: GREEN
Breed: BENGAL (BG)
Color: BROWN (BLACK) SPOTTED TABBY
Sex: FEMALE
Date: 10/08/2020

PARENTS | **GRANDPARENTS** | **GREAT GRANDPARENTS**

SIRE:

AKEERABENGAL LEO OF MANDYSBENGALS
SBT 082917 083/BENGAL/SEAL MINK SPOTTED TABBY

- S **BENGALLYS METATRON OF AKEERABENGAL**
  SBT 042416 009/BENGAL/SEAL SEPIA SPOTTED TABBY
  - S **CH POCKETLEOPARDS CHRONOS**
    SBT 012614 006/BENGAL/SEAL MINK SPOTTED TABBY
  - D **BENCAN ISMENE OF BENGALLYS**
    SBT 021813 034/BENGAL/SEAL MINK SPOTTED TABBY
- D **SUNSHINE KISSES OF AKEERABENGAL**
  SBT 052315 007/BENGAL/BROWN (BLACK) SPOTTED TABBY
  - S **AKEERABENGAL ARCTIC THUNDER**
    SBT 091812 017/BENGAL/SEAL SPOTTED LYNX (TABBY) POINT
  - D **AMANTRA FOR PEACE OF SUNSHINE**
    SBT 071912 085/BENGAL/BROWN (BLACK) SPOTTED TABBY

DAM:

EYEOFTHETIGER ZARA OF MANDYSBENGALS
SBT 072419 014/BENGAL/BROWN (BLACK) SPOTTED TABBY

- S **JULZJUNGLE SIMBA**
  SBT 111117 009/BENGAL/BROWN (BLACK) SPOTTED TABBY
  - S **BENGALLYS METATRON OF AKEERABENGAL**
    SBT 042416 009/BENGAL/SEAL SEPIA SPOTTED TABBY
  - D **AKEERABENGAL KATY OF JULZJUNGLE**
    SBT 070716 023/BENGAL/BROWN (BLACK) SPOTTED TABBY
- D **BENGALLYS ANTIGONE OF EYEOFTHETIGER**
  SBT 072815 016/BENGAL/BROWN (BLACK) SPOTTED TABBY
  - S **RW SGC BENGALLYS ACHILLE**
    SBT 100514 001/BENGAL/BROWN (BLACK) SPOTTED TABBY
  - D **GEISHA1 OF BENGALLYS**
    SBT 061012 059/BENGAL/BROWN (BLACK) SPOTTED TABBY

Breeder: AMANDA /KRIS SIMPSON
Owner: AMANDA / KRIS SIMPSON

Frances Cardona
Executive Secretary

WISDOM PANEL™

DNA Test Report

Owner Info

First Name
Kris

Last Name
Simpson

Pet Info

Registered Name
XENA

Date of Birth
7/28/2020

Nickname (Call Name)
XENA

Sample ID
FRTXLHG

Sex
Female

Registration
SBT 072820 025

Country of Origin
CA

Microchip ID
982091062664687

Owner Reported Breed
Bengal

Tattoo ID
N/A

Genetic Diversity (Heterozygosity)

XENA's Percentage of Heterozygosity

33%

XENA's genome analysis shows an average level of genetic heterozygosity when compared with other Bengals.

Typical Range for Bengals

31 - 36%

Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Progressive Retinal Atrophy (Discovered in the Abyssinian)	CEP290	T>G	0	Clear
Progressive Retinal Atrophy (Discovered in the Bengal)	KIF3B	G>A	0	Clear
Pyruvate Kinase Deficiency	PKLR	G>A	0	Clear

Other Conditions Tested

Genetic Condition	Gene	Risk Variant	Copies	Result
Acute Intermittent Porphyria (Variant 1)	HMBS	Deletion	0	Clear
Acute Intermittent Porphyria (Variant 2)	HMBS	G>A	0	Clear
Acute Intermittent Porphyria (Variant 3)	HMBS	Insertion	0	Clear
Acute Intermittent Porphyria (Variant 4)	HMBS	Deletion	0	Clear
Acute Intermittent Porphyria (Variant 5)	HMBS	G>A	0	Clear
Autoimmune Lymphoproliferative Syndrome	FASL	Insertion	0	Clear
Burmese Head Defect (Discovered in the Burmese)	ALX1	Deletion	0	Clear
Chediak-Higashi Syndrome (Discovered in the Persian)	LYST	Insertion	0	Clear
Congenital Adrenal Hyperplasia	CYP11B1	G>A	0	Clear
Congenital Erythropoietic Porphyria	UROS	G>A	0	Clear
Congenital Myasthenic Syndrome (Discovered in the Devon Rex and Sphynx)	COLQ	G>A	0	Clear
Cystinuria Type 1A	SCL3A1	C>T	0	Clear
Cystinuria Type B (Variant 1)	SCL7A9	C>T	0	Clear
Cystinuria Type B (Variant 2)	SCL7A9	G>A	0	Clear
Cystinuria Type B (Variant 3)	SCL7A9	T>A	0	Clear
Dihydropyrimidinase Deficiency	DPYS	G>A	0	Clear
Earfold and Osteochondrodysplasia (Discovered in the Scottish Fold)	TRPV4	G>T	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Factor XII Deficiency (Variant 1)	F12	Deletion	0	Clear
Factor XII Deficiency (Variant 2)	F12	Deletion	0	Clear
Familial Episodic Hypokalemic Polymyopathy (Discovered in the Burmese)	WNK4	C>T	0	Clear
Glutaric Aciduria Type II	ETFDH	T>G	0	Clear
Glycogen Storage Disease (Discovered in the Norwegian Forest Cat)	GBE1	Insertion	0	Clear
GM1 Gangliosidosis	GLB1	G>C	0	Clear
GM2 Gangliosidosis	GM2A	Deletion	0	Clear
GM2 Gangliosidosis Type II (Discovered in Domestic Shorthair cats)	HEXB	Insertion	0	Clear
GM2 Gangliosidosis Type II (Discovered in Japanese domestic cats)	HEXB	C>T	0	Clear
GM2 Gangliosidosis Type II (Discovered in the Burmese)	HEXB	0>0	0	Clear
Hemophilia B (Variant 1)	F9	C>T	0	Clear
Hemophilia B (Variant 2)	F9	G>A	0	Clear
Hyperoxaluria Type II	GRHPR	G>A	0	Clear
Hypertrophic Cardiomyopathy (Discovered in the Maine Coon)	MYBPC	G>C	0	Clear
Hypertrophic Cardiomyopathy (Discovered in the Ragdoll)	MYBPC	C>T	0	Clear
Hypotrichosis (Discovered in the Birman)	FOXN1	Deletion	0	Clear
Lipoprotein Lipase Deficiency	LPL	G>A	0	Clear
MDR1 Medication Sensitivity	ABCB1	Deletion	0	Clear
Mucopolysaccharidosis Type I	IDUA	Deletion	0	Clear
Mucopolysaccharidosis Type VI	ARSB	T>C	0	Clear
Mucopolysaccharidosis Type VI Modifier	ARSB	G>A	0	Clear
Mucopolysaccharidosis Type VII (Variant 1)	GUSB	G>A	0	Clear

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Mucopolysaccharidosis Type VII (Variant 2)	USB	C>T	0	Clear
Myotonia Congenita	CLCN1	G>T	0	Clear
Polycystic Kidney Disease (PKD)	PKD1	C>A	0	Clear
Progressive Retinal Atrophy (Discovered in the Persian)	AIPL1	C>T	0	Clear
Sphingomyelinosis (Variant 1)	NPC1	G>C	0	Clear
Sphingomyelinosis (Variant 2)	NPC2	G>A	0	Clear
Spinal Muscular Atrophy (Discovered in the Maine Coon)	LIX1	Deletion	0	Clear
Vitamin D-Dependent Rickets	CYP27B1	G>T	0	Clear

DNA Test Report

Blood Type

Blood Type

A

(Most common)

Genotype

A/c

(Carrier for Blood Type AB)

Transfusion Risk

Moderate

XENA has the most common blood type. She can be transfused with Type A blood.

Breeding Risk

Low

If breeding, XENA has a low risk of blood type incompatibility with nursing kittens.

Variant Tested	Description	Copies
b variant 1	(Common b variant)	0
b variant 2	(Discovered in Turkish breeds)	0
b variant 3	(Discovered in Ragdolls)	0
c variant - Causes AB Blood Type	(Discovered in Ragdolls)	**1**

Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Charcoal (Discovered in the Bengal)	ASIP	**A^{Pb}**	**1**	**Charcoal coat color possible**
Solid Color	ASIP	a	0	Banded hairs, tabby patterns likely
Gloving (Discovered in the Birman)	KIT	w^{g}	0	No effect
Partial and Full White	KIT	W or w^{s}	0	No effect
Amber (Discovered in the Norwegian Forest Cat)	MC1R	e	0	No effect
Russet (Discovered in the Burmese)	MC1R	e^{r}	0	No effect
Dilution	MLPH	d	0	No effect
Albinism (Discovered in Oriental breeds)	TYR	c^{a}	0	No effect
Colorpoint (Discovered in the Burmese)	TYR	c^{b}	0	No effect
Colorpoint (Discovered in the Siamese)	TYR	**c^{s}**	**1**	**Colorpoints possible**
Mocha (Discovered in the Burmese)	TYR	c^{m}	0	No effect
Chocolate	TYRP	b	0	No effect
Cinnamon	TYRP	b^{l}	0	No effect

Coat Type

Genetic Trait	Gene	Variant	Copies	Result
Long Hair (Discovered in many breeds)	FGF5	M4	0	No effect
Long Hair (Discovered in the Norwegian Forest Cat)	FGF5	M2	0	No effect
Long Hair (Discovered in the Ragdoll and Maine Coon)	FGF5	M3	0	No effect
Long Hair (Discovered in the Ragdoll)	FGF5	M1	0	No effect
Lykoi Coat (Variant 1)	HR	hr^{Ca}	0	No effect
Lykoi Coat (Variant 2)	HR	hr^{VA}	0	No effect

Coat Type (continued)

Genetic Trait	Gene	Variant	Copies	Result
Hairlessness (Discovered in the Sphynx)	KRT71	re^{hr}	0	No effect
Rexing (Discovered in the Devon Rex)	KRT71	re^{dr}	0	No effect
Rexing (Discovered in the Cornish Rex and German Rex)	LPAR6	r	0	No effect
Glitter	Pending	**gl**	**2**	**Glitter coat likely**

Tail Length

Genetic Trait	Gene	Variant	Copies	Result
Short Tail (Variant 3)	HES7	jb	0	No effect
Short Tail (Variant 1)	T	C1199del	0	No effect
Short Tail (Variant 2)	T	T988del	0	No effect

Extra Toes

Genetic Trait	Gene	Variant	Copies	Result
Polydactyly (Variant 1)	LIMBR1	HW	0	No effect
Polydactyly (Variant 2)	LIMBR1	UK1	0	No effect
Polydactyly (Variant 3)	LIMBR1	UK2	0	No effect

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

BENGAL COAT COLOR TEST REPORT

Provided Information:	***Case:*** **CAT127624**
Name: **XENA OF MANDYSBENGALS**	***Date Received:*** 13-Nov-2020
Registration: **SBT 072820 025**	***Report Issue Date:*** 16-Nov-2020
	Report ID: 5037-2834-7128-6113
	Verify report at www.vgl.ucdavis.edu/verify

DOB: **07/28/2020** *Sex:* **Female** *Breed:* **Bengal** *Color:* **brown**

Sire: LEO OF MANDYSBENGALS	*Dam:* ZARA OF MANDYSBENGALS
Reg: SBT 082917 083	*Reg:* SBT 072419 014
Microchip:	*Microchip:*

RESULT		INTERPRETATION
AGOUTI/CHARCOAL	**A^{Pb}/A**	1 copy of ALC Agouti gene is present. Offspring can be charcoal depending on the genetics of the mate.
ALBINO		Not requested.
AMBER	**E/E**	No copies of the mutation for Amber.
BROWN	**B/B**	Full color, cat does not carry brown or cinnamon.
COLORPOINT	**C/c^{s}**	Carrier of Siamese colorpoint restriction.
DILUTE	**D/D**	Full color. Cat does not have the dilute allele.
DOMINANT WHITE & WHITE SPOTTING		Not requested.

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

BENGAL COAT COLOR TEST REPORT

Client/Owner/Agent Information:	*Case:*	**CAT127624**
KRIS & MANDY SIMPSON	***Date Received:***	13-Nov-2020
	Report Issue Date:	16-Nov-2020
	Report ID:	5037-2834-7128-6113
	Verify report at www.vgl.ucdavis.edu/verify	

Name: **XENA OF MANDYSBENGALS**

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Cat Coat Color test results, please visit our website at:
www.vgl.ucdavis.edu/services/coatcolorcat.php

License Information

The Colorpoint Restriction Test is performed under a license agreement with the University of California.

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).

Report authorized by Dr. Rebecca Bellone, VGL Director

HealthGene
Molecular Diagnostic and Research Center
Phone: 1-877-371-1551; Web: www.healthgene.com

Submission Date: 2021-07-21
Report Date: 2021-07-21

LABORATORY REPORT #551139

Account:	3391	E-mail:	marketlaneanimalhospital@gmail.com
Company:	Market Lane Animal Hospital	Phone:	9058566770
Name:		Fax:	9058566493

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Animal ID:	Xena	**Species:**	Feline
Owner:	Simpson	**Sex:**	Female
Breed:	Bengal	**Age:**	11m

OP - Ova & Parasites

Parasitology

Description	Result	Description	Result
Coccidia	None seen	Trichomonas	None seen
Oocysts	None seen	Eggs	None seen
Giardia	None seen	Worms	None seen
Cysts	None seen		

Notes:
If Ova and Parasite tests are negative and the animal still has diarrhea, we recommend doing the Canine Infectious Diarrhea Profile (DNA profile, code:CP18) or Feline Infectious Diarrhea Profile (DNA profile, code:FP16)