

Bastu  
Registration: N/A



Sample ID: CMGWLZC

Test Date: 7/6/2021

Complete

# DNA Test Report

## Owner Info

---

**First Name**

Charles

**Last Name**

Warden

## Pet Info

---

**Registered Name**

Bastu

**Date of Birth**

5/1/2011

**Nickname (Call Name)**

Bastu

**Sample ID**

CMGWLZC

**Sex**

Female

**Registration**

N/A

**Microchip ID**

N/A

**Tattoo ID**

N/A

# DNA Test Report

## Ancestry Results

---

### Western

46% American Domestic Cat

14% Maine Coon

13% American Curl

12% Sphynx

9% Norwegian Forest Cat

5% Siberian

1% Highlander

# DNA Test Report

## Genetic Diversity (Heterozygosity)

---

### Bastu's Percentage of Heterozygosity

41%

Bastu's genome analysis shows an average level of genetic heterozygosity when compared with other random-bred cats.

### Typical Range for Domestic Cats

29 - 41%

# DNA Test Report

## Health 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
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

# DNA Test Report

## Health Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
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	O>O	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
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 Abyssinian)	CEP290	T>G	0	Clear
Progressive Retinal Atrophy (Discovered in the Bengal)	KIF3B	G>A	0	Clear
Progressive Retinal Atrophy (Discovered in the Persian)	AIPL1	C>T	0	Clear

# DNA Test Report

## Health Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
Pyruvate Kinase Deficiency	PKLR	G>A	0	Clear
Sphingomyelinosis (Variant 1)	NPC1	G>C	0	Clear
Sphingomyelinosis (Variant 2)	NPC2	G>A	0	Clear
Vitamin D-Dependent Rickets	CYP27B1	G>T	0	Clear
Factor XII Deficiency (Variant 1)	F12	Deletion	—	Inconclusive

# DNA Test Report

## Blood Type

### Blood Type

A  
(Most common)

### Genotype

A/A

### Transfusion Risk

Moderate

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

### Breeding Risk

Low

If breeding, Bastu 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)	0

# DNA Test Report

## Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Charcoal (Discovered in the Bengal)	ASIP	A <sup>Pb</sup>	0	No effect
Solid Color	ASIP	a	2	<b>Solid color hairs likely</b>
Partial and Full White	KIT	W or w <sup>s</sup>	0	No effect
Amber (Discovered in the Norwegian Forest Cat)	MC1R	e	0	No effect
Russet (Discovered in the Burmese)	MC1R	e <sup>r</sup>	0	No effect
Dilution	MLPH	d	1	<b>No effect</b>
Albinism (Discovered in Oriental breeds)	TYR	c <sup>a</sup>	0	No effect
Colorpoint (Discovered in the Burmese)	TYR	c <sup>b</sup>	0	No effect
Colorpoint (Discovered in the Siamese)	TYR	c <sup>s</sup>	0	No effect
Mocha (Discovered in the Burmese)	TYR	c <sup>m</sup>	0	No effect
Chocolate	TYRP	b	0	No effect
Cinnamon	TYRP	b <sup>l</sup>	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	1	<b>Long coat possible, short coat likely</b>
Long Hair (Discovered in the Ragdoll)	FGF5	M1	0	No effect
Lykoi Coat (Variant 1)	HR	hr <sup>Ca</sup>	0	No effect
Lykoi Coat (Variant 2)	HR	hr <sup>VA</sup>	0	No effect
Hairlessness (Discovered in the Sphynx)	KRT71	re <sup>hr</sup>	0	No effect



# DNA Test Report

## Coat Type (continued)

Genetic Trait	Gene	Variant	Copies	Result
Rexing (Discovered in the Devon Rex)	KRT71	re <sup>dr</sup>	0	No effect
Rexing (Discovered in the Cornish Rex and German Rex)	LPAR6	r	0	No effect
Glitter	Pending	gl	0	No effect