

Optimal Selection™

POWERED BY GENOSCOPIER®

RSC0 959

Sonoita Sandstone Of CoolSpots, Bengal

Registered Name: Sonoita Sandstone Of CoolSpots

Owner: Donnette Piccininno

Call Name: Sandy

Country: United States

Breed: Bengal

Testing date: 2020/8/22

Gender: Female

Test results - Known disorders in the breed

Disorder	Type	Mode of Inheritance	Result
Bengal Progressive Atrophy	Ocular Disorders	Autosomal Recessive	Clear
Erythrocyte Pyruvate Kinase (PK) Deficiency	Blood Disorders	Autosomal Recessive	No call
Retinal Dystrophy (rdAc)	Ocular Disorders	Autosomal Recessive	Clear

On behalf of Genoscoper Laboratories,


SIGNATURE

Jonas Donner, PhD, Head of Research and Development
at Genoscoper Laboratories

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Test results - Traits - page 2

Coat Color

Trait	Genotype	Description
Color Locus B: Chocolate and Cinnamon (2 variants)	B/B	The cat produces black pigment.
Color Locus C: Pointed Coloration and Albinism (3 variants)	cb/cb	The cat is likely to have Burmese type color point restriction. Genotypically black coat color is expressed in so-called sepia brown.
Color Locus A: Agouti and Charcoal (2 variants)	A/A	The cat is likely to have banded hair.
any FERV1 insertion in the KIT gene	N/N	The cat has no copy of the FERV1 insertion in the KIT gene. The cat's coat color is not affected by White spotting or Dominant White mutations.
MLPH T83del (d allele)	D/d	The coat color is not diluted; the cat carries one copy of the dilute gene.
MC1R c.250G>A (e allele)	No call	
MC1R (er allele)	-/-	The cat does not have er allele for Russet color found in Burmese.

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Test results - Traits - page 3

Coat Type

Trait	Genotype	Description
Long Hair (4 variants)	N/N	The cat does not have any of the tested long hair mutations and it is likely to have short hair.
<i>LPAR6</i> c.250_253_delTTTG	N/N	The cat does not have Cornish Rex curly coat.
<i>KRT71</i> c.445-1C	N/N	The cat does not have Selkirk Rex curly coat.

Morphology

Trait	Genotype	Description
Short tail, T-box mutations (3 variants)		
Polydactyly (3 variants)	N/N	The cat does not have any of the tested mutations causing extra digits.
<i>HES7</i> c.T5C	T/T	The cat has no bobtail mutation originally found in Japanese Bobtail.

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Test results - Additional disorders found in other breeds - page 1

Blood Disorders

Disorder	Mode of Inheritance	Result
Factor XII Deficiency	Autosomal Recessive	Clear
Hemophilia B, mutation F9: c.1014C>T	X-linked Recessive	Clear
Hemophilia B, mutation F9: c.247G>A	X-linked Recessive	Clear

Cardiac Disorders

Disorder	Mode of Inheritance	Result
Hypertrophic Cardiomyopathy, MYBPC3 mutation: A31P found in Maine Coon	Autosomal Dominant (Incomplete Penetrance)	Clear
Hypertrophic Cardiomyopathy, MYBPC3 mutation: c.2460C>T found in Ragdoll	Autosomal Dominant (Incomplete Penetrance)	No call

Endocrine Disorders

Disorder	Mode of Inheritance	Result
Congenital Adrenal Hyperplasia	Autosomal Recessive	No call

Immunologic Disorders

Disorder	Mode of Inheritance	Result
Autoimmune Lymphoproliferative Syndrome	Autosomal Recessive	Clear
Congenital Hypotrichosis with Short Life Expectancy	Autosomal Recessive	Clear

Test results - Additional disorders found in other breeds - page 2

Metabolic Disorders

Disorder	Mode of Inheritance	Result
Acute Intermittent Porphyria	Autosomal Dominant	Clear
Acute Intermittent Porphyria; HMBS mutation: c.107_110delACAG	Autosomal Dominant	Clear
Acute Intermittent Porphyria; HMBS mutation: c.826-1G>A	Autosomal Dominant	Clear
Acute Intermittent Porphyria; HMBS mutation: c.844delGAG	Autosomal Dominant	Clear
Chylomicronemia, Lipoprotein Lipase Deficiency	Autosomal Recessive	Clear
Congenital Erythropoietic Porphyria, mutation UROS: c.331G>A	Autosomal Recessive	Clear
Cystinuria; SCL3A1 mutation	Autosomal Recessive	Clear
Cystinuria; SCL7A9 mutation: c.1175C>T	Autosomal Recessive	Clear
Cystinuria; SCL7A9 mutation: c.706G>A	Autosomal Recessive	Clear
Cystinuria; SCL7A9 mutation: c.881A>T	Autosomal Recessive	Clear
Dihydropyrimidinuria	Autosomal Recessive	Clear
Mucopolysaccharidosis Type I	Autosomal Recessive	Clear
Mucopolysaccharidosis Type VI (MPS VI), Typical Form	Autosomal Recessive	Clear
Mucopolysaccharidosis Type VII, mutation GUSB: c.1074G>A	Autosomal Recessive	Clear
Mucopolysaccharidosis VII; GUSB mutation C1424T	Autosomal Recessive	Clear
Vitamin D-Dependent Rickets (VDDR-1A); CYP27B mutation: c.G637T	Autosomal Recessive	No call

Test results - Additional disorders found in other breeds - page 3

Muscular Disorders

Disorder	Mode of Inheritance	Result
Congenital Myasthenic Syndrome (CMS)	Autosomal Recessive	Clear
Myotonia Congenita	Autosomal Recessive	Clear
Periodic Hypokalemic Polymyopathy, Burmese Hypokalemia, or Familial Episodic Hypokalaemic Polymyopathy	Autosomal Recessive	Clear
Spinal Muscular Atrophy (SMA)/Spinal Muscular Dystrophy	Autosomal Recessive	Clear

Neurologic Disorders

Disorder	Mode of Inheritance	Result
Feline GM1 Gangliosidosis	Autosomal Recessive	Clear
GM2 Gangliosidosis, Domestic Shorthair mutation HEXB: c.1467_1491Inv	Autosomal Recessive	Clear
GM2 Gangliosidosis, Japanese Domestic mutation HEXB: c.667C>T	Autosomal Recessive	Clear
GM2 Gangliosidosis; Domestic Shorthair GM2A Mutation	Autosomal Recessive	Clear
Niemann-Pick C2, NPC Disease, Sphingomyelinosis NPC2 Mutation	Autosomal Recessive	No call
Niemann-Pick C1, NPC Disease, Sphingomyelinosis NPC1 Mutation	Autosomal Recessive	Clear

Neuromuscular Disorders

Disorder	Mode of Inheritance	Result
Glycogen Storage Disease Type IV	Autosomal Recessive	Clear