

Registered Name:N*Cinamon Boy av OntarioOwner:Siw LødemelCall Name:KodaCountry:NorwayRegistration ID:Nrr LO177581Testing date:2019/4/17Microchip:578098100481201Feed:Sacred BirmanGender:MaleKongender:Male

Cat's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: Yes

Test results - Known disorders in the breed

Disorder	Туре	Mode of Inheritance	Result
Congenital Hypotrichosis with Short Life Expectancy	Immunologic Disorders	Autosomal Recessive	Clear

On behalf of Genoscoper Laboratories,

mer SIGNATURE



 Registered Name:
 N*Cinamon Boy av Ontario
 Owner:
 Siw Lødemel

 Call Name:
 Koda
 Country:
 Norway

 Registration ID:
 Nrr LO177581
 Testing date:
 2019/4/17

 Microchip:
 578098100481201
 Sacred Birman
 Gender:
 Male

Cat's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: Yes

Test results - Traits - page 1

Blood Type

Trait	Genotype	Description
Blood Type (3 variants)	N/b	Cat carries b allele; blood type is A.

On behalf of Genoscoper Laboratories,

mer SIGNATURE



 Registered Name:
 N*Cinamon Boy av Ontario
 Owner:
 Siw Lødemel

 Call Name:
 Koda
 Country:
 Norway

 Registration ID:
 Nrr LO177581
 Testing date:
 2019/4/17

 Microchip:
 578098100481201
 Sacred Birman

 Gender:
 Male

Cat's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: Yes

Test results - Traits - page 2

Coat Color

Trait	Genotype	Description
Color Locus B: Chocolate and Cinnamon (2 variants)	b/b	The cat produces brown pigment.
Color Locus C: Pointed Coloration and Albinism (3 variants)	cs/cs	The cat is likely to have Siamese type color point restriction.
Color Locus A: Agouti and Charcoal (2 variants)	a/a	The cat is likely to have non-agouti (solid) coat color.
any FERV1 insertion in the <i>KIT</i> 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 cat does not have color dilution.
MC1R c.250G>A (e allele)	E/E	The cat does not have e allele for Amber color found in Norwegian Forest Cat.
<i>KIT</i> c.1035_1036delinsCA	g/g	This genotype is associated with gloving pattern in Birman cats only. This genotype is also found in other breeds of cats.
MC1R (er allele)	-/-	The cat does not have er allele for Russet color found in Burmese.

On behalf of Genoscoper Laboratories,

boner mas SIGNATURE



 Registered Name:
 N*Cinamon Boy av Ontario
 Owner:
 Siw Lødemel

 Call Name:
 Koda
 Country:
 Norway

 Registration ID:
 Nrr LO177581
 Testing date:
 2019/4/17

 Microchip:
 578098100481201
 Sacred Birman
 Gender:
 Male

Cat's identity verified from microchip or tattoo by veterinarian or other authorized person during sample taking: Yes

Test results - Traits - page 3

Coat Type

Trait	Genotype	Description
Long Hair (4 variants)	M4/M4	The cat is likely to have long hair.
LPAR6 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)	N/N	The cat does not have any of the tested bobtail mutations originally found in Manx.
Polydactyly (3 variants)	N/N	The cat does not have any of the tested mutations causing extra digits.
HES7 c.T5C	T/T	The cat has no bobtail mutation originally found in Japanese Bobtail.

On behalf of Genoscoper Laboratories,

mer SIGNATURE



Blood Disorders

Disorder	Mode of Inheritance	Result
Erythrocyte Pyruvate Kinase (PK) Deficiency	Autosomal Recessive	Clear
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)	Clear

Endocrine Disorders

Disorder	Mode of Inheritance	Result
Congenital Adrenal Hyperplasia	Autosomal Recessive	Clear

Immunologic Disorders

Disorder	Mode of Inheritance	Result
Autoimmune Lymphoproliferative Syndrome	Autosomal Recessive	Clear



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	Clear



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

Mode of Inheritance	Result
Autosomal Recessive	Clear
	Autosomal Recessive Autosomal Recessive Autosomal Recessive Autosomal Recessive Autosomal Recessive Autosomal Recessive

Neuromuscular Disorders

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



Ocular Disorders		
Disorder	Mode of Inheritance	Result
Bengal Progressive Atrophy	Autosomal Recessive	Clear
Retinal Dystrophy (rdAc)	Autosomal Recessive	Clear
Renal Disorders		
Disorder	Mode of Inheritance	Result
Hyperoxaluria	Autosomal Recessive	Clear
Polycystic Kidney Disease	Autosomal Dominant	Clear



APPENDIX Explanation of the results of the tested disorders

Autosomal recessive inheritance (ARI)

Clear - A cat carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

Carrier - A cat carries one copy of the tested mutation. Carriers typically have a normal, healthy appearance but pass on the mutation to approximately 50% of their offspring.

At risk - A cat carries two copies of the tested mutation and is at high or increased risk of developing the disease/condition.

Autosomal dominant inheritance (ADI)

Clear - A cat carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

At risk - A cat carries one or two copies of the tested mutation and is at high or increased risk of developing the disease/condition.

X-linked recessive inheritance (X-linked)

Clear - A cat carries no copies of the tested mutation and has no or reduced likelihood of developing and passing on the disease/condition.

Carrier - Female carriers typically have a normal, healthy appearance but carry one copy of the tested mutation on one of their X chromosomes. As males only have one X chromosome, there are no male carriers.

At risk - Female cats at risk carry two mutated copies of the tested mutation. Males carry one copy of the tested mutation on their single X chromosome. Cats at risk are at high or increased risk of developing the disease/condition.

Please note that the descriptions above are generalized based on typically observed inheritance patterns. When obtaining a 'carrier' or 'at risk' test result, always refer to the corresponding online test documentation for more detailed information on the condition and any exceptions.

Genoscoper Laboratories - Legal Notice

Genoscoper Laboratories' services and test results are produced based on samples and materials supplied by the Client. Testing and analysis is performed by using methods and processes that Genoscoper Laboratories deems appropriate. Genoscoper Laboratories reserves the right to make changes in the collection of the single-gene tests included in the testing service as well as to remove results derived from them, if new information comes available that in any way questions the validity of the test results. Results provided by Genoscoper Laboratories are prepared solely for the use of the Client.