PUR-SNICKITY'S WHITE LIGHTENING
Registration: 0102-02807925

WISDOM PANEL™

Sample ID: KTBR06753
Test Date: 9/11/2020

DNA Test Report

Breed: Persian
Microchip Number: 933000320890416

Optimal Selection - Feline

Owner Info

First Name	Last Name
Rhodes	Foster

Pet Info

Registered Name	Date of Birth PUR-SNICKITY'S WHITE LIGHTENING	10/11/2018	
Nickname (Call Name)	Sample ID Lightening	KTBR06753	

Sex	Registration
Male	0102-02807925

Country of Origin	Microchip ID US	933000320890416

Owner Reported Breed	Tattoo ID
Persian	N/A

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Genetic Diversity (Heterozygosity)

Lightening's Percentage of Heterozygosity	Typical Range for Persians
32%	29 - 35%

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

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Health Conditions Known in This Breed

Genetic Condition	Gene	Risk Variant	Copies	Result
Factor XII Deficiency (Variant 1)	F12	Deletion	0	Clear
Polycystic Kidney Disease (PKD)	PKD1	C>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
Autoimmune Lymphoproliferative Syndrome	FASL	Insertion	0	Clear
Burmese Head Defect (Discovered in the Burmese)	ALX1	Deletion	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
Dihydropyrimidinase Deficiency	DPYS	G>A	0	Clear
Earfold and Osteochondrodysplasia (Discovered in the Scottish Fold)	TRPV4	G>T	0	Clear

Familial Episodic Hypokalemic Polymyopathy (Discovered in the Burmese)	WNK4	C>T	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

Other Conditions Tested (continued)

Genetic Condition	Gene	Risk Variant	Copies	Result
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
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 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

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Progressive Retinal Atrophy (Discovered in the Abyssinian)	CEP290	T>G	0	Clear
Progressive Retinal Atrophy (Discovered in the Bengal)	KIF3B	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

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Blood Type

Blood Type	Genotype
A	A/A

(Most common) Transfusion Risk

Moderate

Lightening has the most common blood type. He can be transfused with Type A blood.

Breeding Risk

Low

If breeding, Lightening 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)	-1
c variant - Causes AB Blood Type	(Discovered in Ragdolls)	0

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Genetic Trait	Gene	Variant	Copies	Result

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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

Coat Color

Genetic Trait	Gene	Variant	Copies	Result
Charcoal (Discovered in the Bengal)	ASIP	A^{Pb}	0	No effect
Solid Color	ASIP	a	2	Solid color hairs likely
Partial and Full White	KIT	W or w^{s}	1	Partly or fully white coat likely
Amber (Discovered in the Norwegian Forest Cat)	MC1R	e	0	No effect
Dilution	MLPH	d	1	No effect
Albinism (Discovered in Oriental breeds)	TYR	c^{a}	0	No effect
Colorpoint (Discovered in the Burmese)	TYR	c^{b}	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	2	Long coat likely

Long Hair (Discovered in the Norwegian Forest Cat)	FGF5	M2	0	No effect
Long Hair (Discovered in the Ragdoll)	FGF5	M1	0	No effect
Rexing (Discovered in the Cornish Rex and German Rex)	LPAR6	r	0	No effect

Tail Length

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