CatCheck

Sample ID.:	123456-78910	**Name:**	Eileen
Owner:	Example	**Breed:**	unknown
Purchaser:	Example	**Sex:**	Female
Material:	Buccal swab	**DOB:**	05.11.2020
Sample received:	03.03.2021	**Stud Book ID:**	
Report Date:	14.03.2021	**Microchip.:**	1234567891011

Identity of the animal has been confirmed by microchip or tattoo by a veterinarian or another authorized person during sample collection: **yes**

Explanation of Results

Clear:
The result „clear“ indicates that the tested cat does NOT carry a mutation for a specific genetic disease.

Carrier:
The result „carrier“ indicates that the tested cat carries ONE copy of the mutation for a specific genetic disease. However, the tested cat may not be clinically affected by this mutation because two copies of the mutation are usually required to cause disease.

At risk / Affected:
The result "at risk" means that your cat carries ONE or TWO copies of the mutation associated with a specific genetic disease. Depending on the mode of inheritance (recessive or dominant) of a specific genetic disease, one or two mutated copies of a gene are necessary for the onset of a disease.

No Result:
The result „No result“ indicates that no result for a specific disease/trait of your cat could be determined during analysis. This does not mean that your cat is a carrier or at risk for this disorder. There are several reasons why a particular analysis may fail. Unique variations in certain regions of the DNA may exist and cause a test to fail for what reason no result can be obtained. It is also possible that the sample material was not sufficient for a successful analysis. In addition, growth of bacteria or fungi can have a negative effect on sample quality and analysis. Results with at least 90% of successful analysis are considered as acceptable. In the case that your cat shows an unacceptable number of failed results, we will contact you for sending new sample material.

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Results – Coat Colours & Traits

Trait	Genotype	Interpretation
AB Blood Group System	**A/A**	**A blood group**
B Group Variant 1 (b^1)	0	
B Group Variant 2 (b^2)	0	
C Group Variant (a^c)	0	
Agouti Coat Colour – A Locus	**a/a**	**Solid - No tabby expression allowed**
Amber & Russet Coat Colour – E Locus	**E/E**	**Non-amber, darkly pigmented coat colour**
Amber Variant (e)	0	
Russet Variant (e^r)	0	
Brown Coat Colour – B Locus	**B/B**	**Black Coat Colour**
Cinnamon Variant (b^1)	0	
Chocolate Variant (b)	0	
Curly Coat (Devon Rex, Selkirk Rex Type), Hairless (Sphynx Typ) – R Locus	**R/R**	**Straight coat**
Selkirk Rex Curly Variant (SR)	0	
Devon Rex Curly Variant (re)	0	
Sphynx Hairless Variant (hr)	0	
Curly Coat (Cornish Rex Type)	**Cu/Cu**	**Straight coat**
Dilute Coat Colour – D Locus	**d/d**	**Dilute**
Dominant White, White Spotting & Gloves – W Locus	**w/w**	**No white spotting**
Dominant White or White Spotting Variant (W od. w^s)	0	
Gloves Variant (w^g)	0	
Folded Ears with Osteochondrodysplasia	**f/f**	**Typical (non-folded) ears**

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Results – Coat Colours & Traits

Trait	Genotype	Interpretation
Long Hair – L Locus	**Sh/Sh**	**Shorthaired**
Long Hair Variant 1 (lh^1)	0	
Long Hair Variant 2 (lh^2)	0	
Long Hair Variant 3 (lh^3)	0	
Long Hair Variant 4 (lh^4)	0	
Pointed Coat Colour and Albinism – C Locus	**C/C**	**Non-pointed coat**
Siamese Variant (c^s)	0	
Burmese Variant (c^b)	0	
Albino Variant (c)	0	
Albino Variant 2 (c^2)	0	
Polydactyly	**pd/pd**	**Normal (typical) toes**
Polydactyly Variant 1 (PD^1)	0	
Polydactyly Variant 2 (PD^2)	0	
Polydactyly Hemingway Variant (PD^H)	0	
Short Tail (Japanese Bobtail Type)	**st/st**	**Normal length tail**
Tabby Coat Colour Pattern – Mc Locus	**Mc/mc^1**	**Mackerel (wildtype) tabby coat colour pattern (blotched, classic carrier)**
Blotched Variant 1 (mc1)	1	
Blotched Variant 2 (mc2)	0	
Blotched Variant 3 (mc3)	0	

*** Inheritance of coat colours and traits is very complex. Many of the genetic variants involved are known and many of the genes screened in the CatCheck interact. However, not all genetic factors that contribute to a cat's coat colour and traits are known to date. Due to the complexity of gene-gene interactions, coat colours and trait results reported in your CatCheck may vary from your cat's actual appearance. Individual differences in cat genes, which are not actually tested, may also affect your cat's final coat colour or traits.**

**** The interpretation of the AB blood group system is based on the three variants b1, b2 and ac. Other breed-specific blood group variants have been identified in Ragdolls, for example. Definitive blood grouping should be done by agglutination tests or similar testing procedures.**

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Results - Diseases

Diseases	Genotype	Interpretation
Acute Intermittent Porphyria, Variant 1	WT/WT	Clear
Acute Intermittent Porphyria, Variant 2	WT/WT	Clear
Acute Intermittent Porphyria, Variant 3	WT/WT	Clear
Acute Intermittent Porphyria, Variant 4 (Siamese Type 1)	WT/WT	Clear
Acute Intermittent Porphyria, Variant 5 (Siamese Type 2)	WT/WT	Clear
Acute Intermittent Porphyria, Variant 6	WT/WT	Clear
Autoimmune Lymphoproliferative Syndrome	WT/WT	Clear
Brachycephaly (Burmese Type)	WT/WT	Clear
Congenital Adrenal Hyperplasia	WT/WT	Clear
Congenital Erythropoietic Porphyria, Variant 1	WT/WT	Clear
Congenital Erythropoietic Porphyria, Variant 2	WT/WT	Clear
Congenital Hypothyroidism	WT/WT	Clear
Congenital Myasthenic Syndrome	WT/WT	Clear
Cystinuria, Type 1A	WT/WT	Clear
Cystinuria, Type B, Variant 1	WT/WT	Clear
Cystinuria, Type B, Variant 2	WT/WT	Clear
Cystinuria, Type B, Variant 3	WT/WT	Clear
Cystinuria, Type B, Variant 4	WT/WT	Clear
Cystinuria, Type B, Variant 5	WT/WT	Clear
Dihydropyrimidinase Deficiency	WT/WT	Clear
Factor XII Deficiency, Variant 1	WT/WT	Clear
Feline Leukocyte Adhesion Deficiency, Type 1	WT/WT	Clear
Gangliosidosis GM2A	WT/WT	Clear
Glycogen Storage Disease, Type IV	WT/WT	Clear
GM1 Gangliosidosis	WT/WT	Clear
GM2 Gangliosidosis, Type II (Burmese Type)	WT/WT	Clear
GM2 Gangliosidosis, Type II	WT/WT	Clear
GM2 Gangliosidosis, Type II (Japanese Domestic Type)	WT/WT	Clear
GM2 Gangliosidosis, Type II (Korat Type)	WT/WT	Clear
Hemophilia B, Variant 1	WT/WT	X-Linked Female Clear
Hemophilia B, Variant 2	WT/WT	X-Linked Female Clear

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Results - Diseases

Erkrankung	Genotyp	Interpretation
Hyperlipoproteinemia	WT/WT	Clear
Hypertrophic Cardiomyopathy (Maine Coon Type)	WT/WT	Clear
Hypertrophic Cardiomyopathy (Ragdoll Type)	WT/WT	Clear
Hypokalemic Periodic Paralysis	WT/WT	Clear
Hypotrichosis with Short Life Expectancy	WT/WT	Clear
Mucopolysaccharidosis Type I	WT/WT	Clear
Mucopolysaccharidosis Type VI (Mild Form)	WT/WT	Clear
Mucopolysaccharidosis Type VI (Siamese Type)	WT/WT	Clear
Mucopolysaccharidosis Type VII, Variant 1	WT/WT	Clear
Mucopolysaccharidosis Type VII, Variant 2	WT/WT	Clear
Multiple Drug Resistance	WT/WT	Clear
Myotonia Congenita	WT/WT	Clear
Niemann-Pick C1 Disease, Variant 1	WT/WT	Clear
Niemann-Pick C1 Disease, Variant 2	WT/WT	Clear
Niemann-Pick C2 Disease	WT/WT	Clear
Polycystic Kidney Disease	WT/WT	Clear
Primary Hyperoxaluria Type II	WT/WT	Clear
Progressive Retinal Atrophy (Abyssinian Type)	WT/WT	Clear
Progressive Retinal Atrophy (Persian Type)	WT/WT	Clear
Pyruvate Kinase Deficiency	WT/WT	Clear
Spinal Muscular Atrophy	WT/WT	Clear
Vitamin D-dependent Rickets, Type IA, Variant 1	WT/WT	Clear
Vitamin D-dependent Rickets, Type IA, Variant 2	WT/WT	Clear

Dr.rer.nat. A.M. Geretschläger
(Scientific Director)

The accuracy and precision of the test has been determined by the laboratory. All analyses performed are DNA-based and in rare cases rare genomic variations may influence the analyses and lead to incorrect results. If you think that there is an error in a result, please contact our laboratory immediately for further evaluation.