Vets4Pets

Fra: Labogen [labogen@laboklin.com]
Sendt: 20. mai 2021 15:23
Til: dyrlegene@vets4pets.no
Emne: Re: labogen
Vedlegg: willemo.pdf; Genetische Bestimmung der Blutgruppen bei Katzen_engl0.pdf

Dear Mrs Bakken,

thanks for your email. Wiking is genotype N/c, that means the serological blood group is A, but the cat may also inherit AB.

Willem is Genotype b/b or N/b, that means 2 out of 4 variants for the recessive b-allele are heterozygous N/b.
If they are both on the same allele the cat is heterozygous N/b with serological blood grop A (carrier of B), if they are both on different alleles the cat is b/b and serological B.
We can not make this difference in our genetic test so additionally the serological bloud group should be tested in this case.

Please find attached our information about blood group inheritance in cats, if you have any other questions please do not hesitate to contact us again.

Kind regards

Bärbel Gunreben
Diplombiologin
Molekularbiologie

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Geschäftsführung: Dr. Elisabeth Müller

Original Message processed by david®

labogen 18. Mai 2021, 20:35 Uhr
Von Vets4Pets
An labogen@laboklin.com

Hi

Our nurse have two ragdolls, that we have send bloodsamples to you to check among other things their bloodtype.
I need some help to interpret the results for both Willemo and Wikings bloodtypes.
It states that Willemo has b/b or N/b, so far??
Wiking has N/c,that it AB so far??
What does it mean when it states so far…. And what does the rest underneat mean….

I spoke to the Norwegian representative, but she did not understand it either,
and asked me to email you.

Best regards

Ingeborg Bakken
Veterinarian
Vets 4 Pets

Genetic determination of bloodgroup - PCR

Result: Genotype N/c

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Report
No.: 2104-W-85005
Date of arrival: 27-04-2021
Testing started: 27-04-2021
Date of report: 30-04-2021
Testing completed: 30-04-2021

Patient identification:	Cat	Male	* 31-10-2020
	Ragdoll		
Owner / Animal-ID:	Dimple, Nora		
Type of sample:	EDTA-Blood		
Date sample was taken:	15-04-2021		

Parameter	Value	Reference value

Name: **(N) Amasing Star's Wisdom Wiking of Heimdal**

ZB-Nummer: **(NO) NRR LO 199314**

Chip-Nummer: **578098100738048**

Tattoo-Nummer: **---**

Hypertrophic cardiomyopathy (HCM) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Hypertrophic Cardiomyopathy in the MYBPC3-gene (A31P).

Trait of inheritance: autosomal-dominant

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds:
Maine Coon and related breeds

Hypertrophic Cardiomyopathy (Ragdoll) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Hypertrophic Cardiomyopathy in the MYBPC3-gene (R820W).

Trait of inheritance: autosomal-dominant

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds:
Ragdoll and related breeds

Polycystic kidney disease (PKD) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Polycystic Kidney Disease in the PKD1-gene.

Trait of inheritance: autosomal-dominant

Pyruvatkinase Deficiency:

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation

for Pyruvate Kinase Deficiency in the PKLR-gene.

Trait of inheritance: autosomal-recessive

Progressive Retinal Atrophy (rdAc-PRA):

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Progressive retinal atrophy (rdAc-PRA) in the CEP290-gene.

Trait of inheritance: autosomal-recessive

Genetic determination of bloodgroup - PCR
Result: Genotype N/c

Interpretation: The examined animal is heterozygous for the causative genetic variant found in correlation with the serologic blood group AB (C) so far.

The test detects the genetic variants of the alleles b and c.
Allelic series: N>c>b

Scientific studies found correlation between the allele c and the serologic blood group AB (C) exclusively for Ragdoll cats.

Feline Spinal Muscular Atrophy (SMA) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Spinal Muscular Atrophy in the LIX1-LNPEP-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds:
Maine Coon and related breeds

Glycogen storage disease (GSDIV) - PCR

Result: Genotype N/N

Interpretation: The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for Glykogen storage disease Type IV in the GBE1-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds:

Norwegian forest cat and related breeds

Sampling:

The following impartial person (veterinarian, breed warden, or similar) signed the form for the sampling and identity check of the animal:

Anne Bettina Ruüd

*** END of report ***

Fr. MSc Laura Hübner
Abt. Molkekularbiologie

*** N E W S ***

PCR diagnostics for equine herpes virus

Due to the currently increased need for PCR tests for EHV1 and EHV4, we are performing this test for you up to 4 times a day.
Results are usually available within 1-2 working days after arrival