Исследовательский Центр

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Maine coon HCM (hypertrophic cardiomyopathy) test

Vizi Barbara			Test number: 11092019-Viz2
Cattery HU*Diamond Star	**DOB** 14.04.2018	**Electronic chip**	Report date: 13.09.2019
Breed Maine Coon	**Cat** Sina's Little Giants Crispy, black silver classic tabby highwhite	**Sex** ♂	

Result

N/N

Result Codes:

N/N – Cat is homozygous for a normal type (i.e. carry two normal copies of the *MYBPC3* gene).

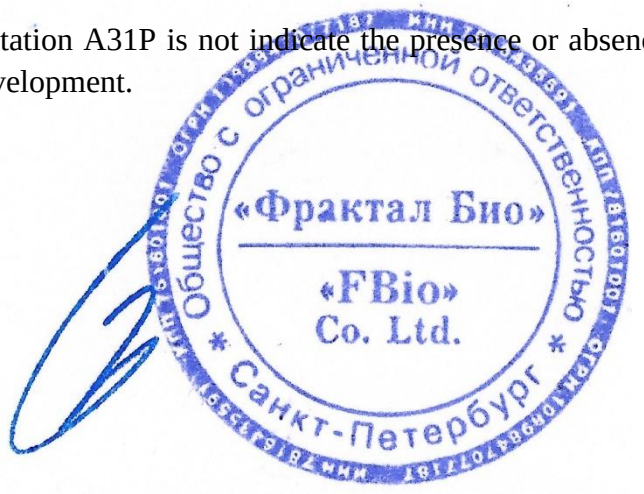
N/HCMmc – Cat is heterozygous for the mutant allele (one copy of the *MYBPC3* gene carry the A31P mutation).

HCMmc/HCMmc – Cat is homozygous for the A31P mutation (two copiesof the *MYBPC3* gene carry the A31P mutation).

This test only detects the A31P mutation associated with HCM in Maine Coon cats and outcrosses as describedby Meurs*et al*., 2005.

The presence or absence of the mutation A31P is not indicate the presence or absence of the disease, but only describes the risk of its development.

Chief of molecular
diagnostics laboratory
Bagmanova S. Elena



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Feline ADPKD test
(autosomal dominant polycystic kidney disease)

Vizi Barbara			Test number: 11092019-Viz2
Cattery HU*Diamond Star	**DOB** 14.04.2018	**Electronic chip**	Report date: 13.09.2019
Breed Maine Coon	**Cat** Sina's Little Giants Crispy, black silver classic tabby highwhite	**Sex** ♂	

Result

N/N

Result Codes:

N/N – Cat is homozygous for a normal type (i.e. carry two normal copies of the *PKD1* gene).

N/pkd1 – Cat is heterozygous for the mutant allele (one copy of the *PKD1* gene carry the 10063C>A mutation).

pkd1/pkd1 – Cat is homozygous for the 10063C>A mutation (two copies of the *PKD1* gene carry the 10063C>A mutation). Homozygote form could be lethal in utero or at a very early age.

This test detects the 10063C>A mutation associated with autosomal dominant polycystic kidney disease in cats as described by Lyons *et al*., 2004.

The presence of the only one copy of the *PKD1* gene containing the 10063C>A mutation causes ADPKD.

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Feline PK Deficiency test
(Pyruvate Kinase Deficiency in Felines)

Vizi Barbara			Test number: 11092019-Viz2
Cattery HU*Diamond Star	**DOB** 14.04.2018	**Electronic chip**	Report date: 13.09.2019
Breed Maine Coon	**Cat** Sina's Little Giants Crispy, black silver classic tabby highwhite	**Sex** ♂	

Result

N/N

Result Codes:

N/N – Cat is homozygous for a normal type (i.e. carry two normal copies of the *PKLR* gene).

N/k – Cat is heterozygous for the mutant allele (one copy of the *PKLR* gene carry the mutation).

k/k – Cat is homozygous for the mutant allele (two copies of the *PKLR* gene carry the mutation).

This test detects the *c.693+304G>A* mutation associated with pyruvate kinase deficiency in Felines as described by Grahn *et al*., 2012.

The PKdef disease affects cats with two mutant copies of the *PKLR* gene only. Cats with only one mutant copy of the *PKLR* gene are clinically without any symptoms but are the carriers.

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Feline SMA test
(autosomal recessive spinal muscular atrophy)

Vizi Barbara			Test number: 11092019-Viz2
Cattery HU*Diamond Star	**DOB** 14.04.2018	**Electronic chip**	Report date: 13.09.2019
Breed Maine Coon	**Cat** Sina's Little Giants Crispy, black silver classic tabby highwhite	**Sex** ♂	

Result

N/N

Result Codes:

N/N – Cat is homozygous for a normal type (i.e. carry two normal copies of the *LIX1-LNPEP* locus).

N/lix1-lnpep – Cat is heterozygous for the mutant alleles (one copy of the *LIX1-LNPEP* locus carry the deletion).

lix1-lnpep/lix1-lnpep – Cat is homozygous for the mutant alleles (two copies of the *LIX1-LNPEP* locus carry the deletion).

This test detects the 140-kb deletion in the *LIX1-LNPEP* locus associated with autosomal recessive spinal muscular atrophy in domestic cats as described by Fyfe *et al*., 2006.

The SMA disease affects cats with two mutant copies of the *LIX1-LNPEP* locus only. Cats with only one mutant copy of the *LIX1-LNPEP* locus are clinically without any symptoms.

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