dr. van haeringen laboratorium b.v. a VHLGenetics company

C.Y. Brussel Patrijzenlaan 21 1834 VM Sint Pancras Customer number 107353

Analysis Certificate

Animal data

Name: Date of birth: Sexe: Chip number: Breed: BELLANOTTE'S HAILEY 01.09.2023 Female 528210008075349 Ragdoll Sample data

VHL_ID: Test ID-nr: Material: K31358 35533 1 Swab

K300 - Bloodtyping AB (DNA test Ragdoll Cats) - Date of test: 17.11.2023 Testresult: Genotype N/N

K302 - Alpha-Mannosidosis - Date of test: 17.11.2023 Testresult: Normal

K304 - Devon Rex, Curly Coat - Date of test: 17.11.2023 Testresult: N/N

K306 - Coat colour E-locus (Russet) - Date of test: 17.11.2023 Testresult: N/N

K309 - Gangliosidosis (GM2 Type II-3) - All Breeds - Date of test: 27.11.2023 Testresult: NORMAL

K310 - Autoimmune Lymphoproliferative Syndrome (ALPS) - Date of test: 17.11.2023 Testresult: NORMAL

K316 - Bengal Progressive Retinal Atrophy - PRA-b - Date of test: 17.11.2023 Testresult: Normal

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K378 - Coat Colour A-Locus (Charcoal) - Date of test: 24.11.2023 Testresult:

K383 - Gangliosidosis (GM2 Type II) - Burmese - Date of test: 17.11.2023 Testresult: Normal

K384 - Mucopolysaccharidosis VII (2) - Date of test: 17.11.2023 Testresult: NORMAL

K385 - Factor XII Deficiency - Date of test: 17.11.2023 Testresult: NORMAL

K386 - Mucopolysaccharidosis I - Date of test: 17.11.2023 Testresult: NORMAL

K390 - Hypotrichosis, with short life expectancy - Date of test: 17.11.2023 Testresult: NORMAL

K397 - Mucopolysaccharidosis VII (3) - Date of test: 17.11.2023 Testresult: NORMAL

K399 - Osteochondrodysplasia - Scottish Fold - Date of test: 17.11.2023 Testresult: NORMAL

K400 - Congenital Myasthenic Syndrome (CMS) - Date of test: 17.11.2023 Testresult: NORMAL

K461 - Hair Length - Ragdoll - Date of test: 17.11.2023 Testresult: N/N

K462 - Hair Length - Norwegian Forest - Date of test: 17.11.2023 Testresult: N/N

K463 - Hair Length - Ragdoll / Maine Coon - Date of test: 17.11.2023 Testresult: N/M3

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K466 - Hair Length - All Breeds - Date of test: 17.11.2023 Testresult: N/M4

K470 - Coat Colour Gold (Sunshine) - Date of test: 24.11.2023 Testresult: N/N

K471 - Coat Colour Gold (Extreme Sunshine) - Date of test: 17.11.2023 Testresult: N/N

K476 - Coat Colour Tabby (3 variants) - Date of test: 24.11.2023 Testresult: b3/b3

K502 - Cornish Rex, Curly/woolly coat - Date of test: 17.11.2023 Testresult: N/N

K504 - Burmese Hypokalemia - Date of test: 17.11.2023 Testresult: NORMAL

K793 - Bloodtyping (DNA) - Date of test: 20.11.2023 Testresult: Genotype N/N

K597 - Congenital Adrenal Hyperplasia - Date of test: 17.11.2023 Testresult: NORMAL

K598 - Dihydropyrimidinase Deficiency - Date of test: 17.11.2023 Testresult: NORMAL

K600 - Niemann-Pick C1 Disease - Date of test: 17.11.2023 Testresult: NORMAL

K601 - Primary Hyperoxaluria II - Date of test: 17.11.2023 Testresult: NORMAL

K608 - Burmese Head Defect - Date of test: 17.11.2023 Testresult: NORMAL

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K639 - Coat Colour E-Locus (Amber) - Date of test: 17.11.2023 Testresult: E/E

K640 - Gangliosidosis (GM2 Type II-1) - Korat - Date of test: 17.11.2023 Testresult: NORMAL

K641 - Vitamin D-deficiency rickets, type I - Date of test: 17.11.2023 Testresult: NORMAL

K646 - Gangliosidosis (GM2, GM2A) - All Breeds - Date of test: 17.11.2023 Testresult: NORMAL

K647 - Gangliosidosis (GM2 Type II - 2) - All Breeds - Date of test: 17.11.2023 Testresult: NORMAL

K650 - Mucopolysaccharidosis VII - Date of test: 17.11.2023 Testresult: NORMAL

K651 - Mucopolysaccharidosis VI - Date of test: 17.11.2023 Testresult: NORMAL

K656 - Haemophilia B 1 - Date of test: 17.11.2023 Testresult: NORMAL

K657 - Haemophilia B 2 - Date of test: 17.11.2023 Testresult: NORMAL

K711 - Polycystic Kidney Disease type 1 (PKD) - Date of test: 17.11.2023 Testresult: Normal

K725 - Hypertrophic Cardiomyopathy 1 (HCM1) - Date of test: 17.11.2023 Testresult: NORMAL

K751 - GSD Type IV - Date of test: 17.11.2023 Testresult: NORMAL

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K754 - Pyruvate Kinase Deficiency (PKDef) - Date of test: 17.11.2023 Testresult: NORMAL

K755 - Coat Colour B-Locus (Cinnamon) - Date of test: 17.11.2023 Testresult: N/N

K756 - Coat Colour B-Locus (Chocolate) - Date of test: 17.11.2023 Testresult: N/N

K757 - Coat Colour A-Locus (Agouti) - Cat - Date of test: 17.11.2023 Testresult: a/a

K758 - Coat Colour C-Locus (Siamese) - Date of test: 17.11.2023 Testresult: cs/cs

K759 - Coat Colour C-Locus (Burmese) - Date of test: 24.11.2023 Testresult: N/N

K760 - Coat Colour D-Locus (Dilution) - Cat - Date of test: 17.11.2023 Testresult: D/d

K762 - rdAc-PRA - Date of test: 17.11.2023 Testresult: NORMAL

K767 - SMA - Date of test: 17.11.2023 Testresult: NORMAL

K799 - Hypertrophic Cardiomyopathy 3 (HCM3) - Date of test: 17.11.2023 Testresult: NORMAL

K867 - Rdy-PRA - Date of test: 17.11.2023 Testresult: NORMAL

K898 - Gangliosidosis (GM1) - All Breeds - Date of test: 17.11.2023 Testresult: NORMAL

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(Certificate nr: K29864/Date of issue: 01.12.2023) page 5 of 16 Agro Business Park 100,NL-6708 PW Wageningen - T.+31(0)317416402 - F.+31(0)317426117 - info@vhlgenetics.com - www.vhlgenetics.com Chamber of commerce Arnhem 09112692 - VAT nr NL8088.07.973.B.01



K477 - Factor XI deficiency - Maince Coon - Date of test: 17.11.2023 Testresult: Normal

K472 - Coat Colour Gold (Copper) - Date of test: 17.11.2023 Testresult: N/N

> H. Tolsma, DVM Managing director

Holme

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(Certificate nr: K29864/Date of issue: 01.12.2023)

page 6 of 16

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K300 - Bloodtyping AB (DNA test Ragdoll Cats)

Detailed information about blood types in cats is available at www.combibreed.com. Direct link: https://www.combibreed.com/subject/cat-blood-types-explained/

K302 - Alpha-Mannosidosis

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K304 - Devon Rex, Curly Coat

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K306 - Coat colour E-locus (Russet)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K309 - Gangliosidosis (GM2 Type II-3) - All Breeds

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K310 - Autoimmune Lymphoproliferative Syndrome (ALPS)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K316 - Bengal Progressive Retinal Atrophy - PRA-b

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

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(Certificate nr: K29864/Date of issue: 01.12.2023) page 7 of 16 Agro Business Park 100,NL-6708 PW Wageningen - T.+31(0)317416402 - F.+31(0)317426117 - info@vhlgenetics.com - www.vhlgenetics.com Chamber of commerce Arnhem 09112692 - VAT nr NL8088.07.973.B.01



K378 - Coat Colour A-Locus (Charcoal)

Information about the Coat Colour Charcoal test: a/A^Pbe: Charcoal patterning with distinctive dark markings: a 'mask' along the forehead, nose and around the eyes; and a 'cape' that goes down the length of the back with a 'ghost' pattern visible beneath. Charcoal Bengals have dark grey, brown or carbon-coloured fur, with little to no visible red. A^Pbe/A^Pbe: No Charcoal patterning. Coat colour as normal with Bengals. A/A^Pbe: No Charcoal patterning. Coat colour as normal with Bengals. a/a: Solid coat colour. A/a: No Charcoal patterning. Coat colour as normal with Bengals. A/A: No Charcoal patterning. Coat colour as normal with Bengals.

K383 - Gangliosidosis (GM2 Type II) - Burmese

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K384 - Mucopolysaccharidosis VII (2)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K385 - Factor XII Deficiency

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K386 - Mucopolysaccharidosis I

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

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K390 - Hypotrichosis, with short life expectancy

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K397 - Mucopolysaccharidosis VII (3)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K399 - Osteochondrodysplasia - Scottish Fold

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will most likely develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that is will receive an affected allele.

AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the decribed clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K400 - Congenital Myasthenic Syndrome (CMS)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K461 - Hair Length - Ragdoll

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K462 - Hair Length - Norwegian Forest

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K463 - Hair Length - Ragdoll / Maine Coon

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

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K466 - Hair Length - All Breeds

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K470 - Coat Colour Gold (Sunshine)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K471 - Coat Colour Gold (Extreme Sunshine)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K476 - Coat Colour Tabby (3 variants)

Information about the Coat Colour Tabby test: Results N/N, N/b1, N/b2 and N/b3: Blotched coat colour pattern not present Results b1/b1, b2/b2, b3/b3, b1/b2, b1/b3 and b2/b3: Blotched coat colour pattern present Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K502 - Cornish Rex, Curly/woolly coat

Information about the Cornish Rex, Curly/woolly coat test: N/N: No copies of the mutation for Curly coat. This animal does not have a curly coat. N/CC: One copy of the mutation for Curly coat. This animal does not have a curly coat. CC/CC: Two copies of the mutation for Curly coat. This animal has a curly coat. Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K504 - Burmese Hypokalemia

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K793 - Bloodtyping (DNA)

Detailed information about blood types in cats is available at www.combibreed.com. Direct link: https://www.combibreed.com/subject/cat-blood-types-explained/

K597 - Congenital Adrenal Hyperplasia

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features are affected.

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(Certificate nr: K29864/Date of issue: 01.12.2023) page 10 of 16 Agro Business Park 100,NL-6708 PW Wageningen - T.+31(0)317416402 - F.+31(0)317426117 - info@vhlgenetics.com - www.vhlgenetics.com

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due to this variant. When used in breeding, all offspring will receive an affected allele.

K598 - Dihydropyrimidinase Deficiency

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K600 - Niemann-Pick C1 Disease

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K601 - Primary Hyperoxaluria II

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K608 - Burmese Head Defect

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K639 - Coat Colour E-Locus (Amber)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K640 - Gangliosidosis (GM2 Type II-1) - Korat

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele.

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AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K641 - Vitamin D-deficiency rickets, type I

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K646 - Gangliosidosis (GM2, GM2A) - All Breeds

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K647 - Gangliosidosis (GM2 Type II - 2) - All Breeds

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K650 - Mucopolysaccharidosis VII

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K651 - Mucopolysaccharidosis VI

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

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K656 - Haemophilia B 1

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not present with the described clinical features. When used in breeding a healthy allele will be passed to all offspring. CARRIER FEMALE OR AFFECTED MALE:

Female: The animal is a carrier; it has one normal and one affected allele. Due to the recessive properties of this specific variant, the presence of one affected allele will not cause the discribed clinical features. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. For male offspring this means a 50% chance of being affected.

Male: The animal is affected; it has one affected allele. The animal will most likely develop the described clinical features. When used in breeding, all female offspring will receive the affected allele.

AFFECTED FEMALE: The animal is affected; it has two affected alleles. It will most likely develop the described clinical features. When used in breeding, all female offspring will receive an affected allele. All male offspring will therefore likewise be affected.

K657 - Haemophilia B 2

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not present with the described clinical features. When used in breeding a healthy allele will be passed to all offspring. CARRIER FEMALE OR AFFECTED MALE:

Female: The animal is a carrier; it has one normal and one affected allele. Due to the recessive properties of this specific variant, the presence of one affected allele will not cause the discribed clinical features. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. For male offspring this means a 50% chance of being affected.

Male: The animal is affected; it has one affected allele. The animal will most likely develop the described clinical features. When used in breeding, all female offspring will receive the affected allele.

AFFECTED FEMALE: The animal is affected; it has two affected alleles. It will most likely develop the described clinical features. When used in breeding, all female offspring will receive an affected allele. All male offspring will therefore likewise be affected.

K711 - Polycystic Kidney Disease type 1 (PKD)

Information about the PKD test:

Based on the results three groups of animals can be detected:

pkd1/pkd1: The cat is NO CARRIER, and has two healthy copies from the gene.

PKD1/pkd1: The cat is AFFECTED, and has one healthy and one defect copy from the gene.

PKD1/PKD1: The cat is AFFECTED, and has two defect copies from the gene.

The PKD test detects the presence of a mutation in the ADPKD1 gene (C->A mutation in exon 29), which is suggested to be responsible for Polycystic Kidney Disease (PKD) in several breeds. PKD of other genesis, especially caused by other unknown mutations cannot be excluded by this test.

K725 - Hypertrophic Cardiomyopathy 1 (HCM1)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will most likely develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that is will receive an affected allele.

AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the decribed clinical

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features due to this variant. When used in breeding, all offspring will receive an affected allele. Information about the HCM1 test The HCM1 test detects the mutation in the MYBPC gene (G->C mutation in exon 3) which is suggested to be responsible for hypertrophic cardiomyopathy in several cat breeds. HCM of other genesis especially caused by other mutation or other unknown mutations cannot be excluded by this test.

K751 - GSD Type IV

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K754 - Pyruvate Kinase Deficiency (PKDef)

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K755 - Coat Colour B-Locus (Cinnamon)

Information about the cinnamon coat colour:

Result N/N: The cat does not carry cinnamon and can not pass cinnamon onto its Offspring. The cat can be black (B/B or B/b) or chocolate (b/b).

Result N/b': The cat carries cinnamon and can pass cinnamon onto its offspring.

The cat can be black (B/b') or chocolate (b/b').

Result b'/b': The cat is homozygous for cinnamon and will pass cinnamon onto

all its offspring. The cat is cinnamon (b'/b').

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K756 - Coat Colour B-Locus (Chocolate)

Information about the Brown/Chocolate coat colour: Result N/N: The cat does not carry chocolate/brown and can not pass chocolate/brown onto its offspring. The cat can be black (B/B or B/b') or cinnamon (b'/b'). Result N/b: The cat carries chocolate/brown and can pass brown onto its offspring.

The cat can be black (B/b) or chocolate/brown (b/b').

Result b/b: The cat is homozygous for brown and will pass chocolate/brown onto all

its offspring. The cat is chocolate/brown (b/b).

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

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K757 - Coat Colour A-Locus (Agouti) - Cat

Information about the agouti coat colour factor: Result a/a: The cat is no carrier of the mutation responsible for the coat colour agouti. Result A/a: The cat carrier of the mutation responsible for the coat colour agouti. Result A/A: The cat is homozygous for the mutation responsible for the coat colour agouti. Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K758 - Coat Colour C-Locus (Siamese)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K759 - Coat Colour C-Locus (Burmese)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K760 - Coat Colour D-Locus (Dilution) - Cat

Information about the coat colour dilution factor: The dilute gene causes clumping and uneven distribution of pigment granules in the hair shaft, producing dilution of all coat colours. Animals with at least one dominant allele (D/D or D/d) have a normal distribution of the pigment in their hair. Animals homozygous for the recessive "diluting-allel" (d/d) have a diluted phenotype. Black pigment is diluted to gray (blue is the term used by cat breeders), chocolate to lilac, cinnamon to fawn and red is diluted to cream. Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com. Direct link: https://www.combibreed.com/blog/knowledgebase/about-cats/

K762 - rdAc-PRA

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K767 - SMA

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K799 - Hypertrophic Cardiomyopathy 3 (HCM3)

Explanation about the result:

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NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will most likely develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that is will receive an affected allele.

AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the decribed clinical features due to this variant. When used in breeding, all offspring will receive an affected allele. Information about the HCM3 test

The HCM3 test is based on the detection of a mutation in the MYBPC3 gene,

which is suggested to cause hypertrophic cardiomyopathy (HCM) in Ragdoll cats.

- In Ragdolls the mutation which is suggested to cause HCM is like in Maine Coons
- in the MYBPC3-gene but in a different domain. HCM of other genesis caused by

other mutations cannot be excluded by this test.

K867 - Rdy-PRA

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will most likely develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that is will receive an affected allele.

AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the decribed clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K477 - Factor XI deficiency - Maince Coon

Explanation about the result:

NORMAL: The animal has two normal alleles and is therefore not affected by this specific variant. The animal will not develop the described clinical features due to this variant. When used in breeding, a healthy allele will be passed to all offspring. CARRIER: The animal is a carrier; it has one normal and one affected allele. The animal will not develop the described clinical features due to this variant. In breeding, there is a 50% chance for each offspring that it will receive an affected allele. AFFECTED: The animal is affected; it has two affected alleles. The animal will most likely develop the described clinical features due to this variant. When used in breeding, all offspring will receive an affected allele.

K472 - Coat Colour Gold (Copper)

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page 16 of 16 <end of report>

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