



dr. van haeringen laboratorium b.v.

a VHLGenetics company

Maurer
Görscheider Weg 51
42579 Heiligenhaus
GERMANY
Customer number 111032

Analysis Certificate

Animal data

Name: MAATJES CLEVERTHANEVER MARPLE
Date of birth: 24.05.2021
Sex: Female
Chip number: 276099200206721
Breed: Australian Shepherd

Sample data

VHL_ID: H572657
Test ID-nr: 569381 1
Material: Blood

H330 - Neuronal ceroid lipofuscinosis (NCL) 6 - Date of test: 12.12.2022

Testresult: NORMAL

H421 - Hiplaxity 2 - Date of test: 12.12.2022

Testresult: N/N

H487 - Brachyury (Bobtail) - Date of test: 12.12.2022

Testresult: NORMAL

H673 - Degenerative Myelopathy (DM) - Date of test: 05.01.2023

Testresult: NORMAL

H704 - prcd PRA - Date of test: 05.01.2023

Testresult: NORMAL

H705 - Collie Eye Anomaly (CEA_CH) - Date of test: 05.01.2023

Testresult: NORMAL

H746 - Canine Malignant Hypertherm - Date of test: 12.12.2022

Testresult: NORMAL

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H809 - Hereditary Cataract (HC) - HSF4 - Date of test: 27.12.2022

Testresult: NORMAL

H811 - Hyperuricemia (HUU) - Date of test: 12.12.2022

Testresult: NORMAL

H871 - CMR1 - Date of test: 12.12.2022

Testresult: NORMAL

H919 - Hiplaxity 1 - Date of test: 12.12.2022

Testresult: N/N

H629 - MDR1 - Date of test: 19.12.2022

Testresult: NORMAL

H677 - Von-Willebrands Disease Type 1 - Date of test: 12.12.2022

Testresult: NORMAL

H672 - Exercise Induced Collapse (EIC) - Date of test: 05.01.2023

Testresult: NORMAL

H630 - Coat Colour Merle (External Lab) - Date of test: 12.01.2023

Testresult: N/N

D. Mioch, MSc Veterinary Medicine
CEO

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(Certificate nr: H122491/Date of issue: 12.01.2023)

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H330 - Neuronal ceroid lipofuscinosis (NCL) 6

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

H421 - Hip laxity 2

The disease is of multifactorial origin, which means that the symptoms are a combination of genetic factors as well as the environment.

This marker is part of a panel of genetic factors influencing hip laxity. For each genetic factor of a multifactorial disease, the desirable genetic variant is indicated as 'N/N'. Animals carrying one copy of the undesirable genetic variant are indicated as 'N/HL', whereas animals carrying two copies of the undesirable genetic variant are indicated as 'HL/HL'.

H487 - Brachyury (Bobtail)

Explanation about the result:

NORMAL: The animal has two healthy alleles. When used in breeding, this animal will not become ill due to the DNA variant (mutation) tested. It cannot spread the DNA variant in the population.

CARRIER: The animal has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers have a very high risk to become ill.

AFFECTED: The animal has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals have a very high risk become ill.

H673 - Degenerative Myelopathy (DM)

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

This test is based on an association study.

H704 - prcd PRA

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

This test is based on an association study.

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H705 - Collie Eye Anomaly (CEA_CH)

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

This test is based on an association study.

H746 - Canine Malignant Hypertherm

Explanation about the result:

NORMAL: The animal has two healthy alleles. When used in breeding, this animal will not become ill due to the DNA variant (mutation) tested. It cannot spread the DNA variant in the population.

CARRIER: The animal has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers have a very high risk to become ill.

AFFECTED: The animal has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals have a very high risk become ill.

H809 - Hereditary Cataract (HC) - HSF4

Explanation about the result:

NORMAL: The animal has two healthy alleles. When used in breeding, this animal will not become ill due to the DNA variant (mutation) tested. It cannot spread the DNA variant in the population.

CARRIER: The animal has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers have a very high risk to become ill.

AFFECTED: The animal has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals have a very high risk become ill.

H811 - Hyperuricemia (HUU)

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

H871 - CMR1

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

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H919 - Hiplaxity 1

The disease is of multifactorial origin, which means that the symptoms are a combination of genetic factors as well as the environment.

This marker is part of a panel of genetic factors influencing hip laxity. For each genetic factor of a multifactorial disease, the desirable genetic variant is indicated as 'N/N'. Animals carrying one copy of the undesirable genetic variant are indicated as 'N/HL', whereas animals carrying two copies of the undesirable genetic variant are indicated as 'HL/HL'.

H629 - MDR1

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

This test is based on an association study.

H677 - Von-Willebrands Disease Type 1

Explanation about the result:

NORMAL: The animal has two healthy alleles. When used in breeding, this animal will not become ill due to the DNA variant (mutation) tested. It cannot spread the DNA variant in the population.

CARRIER: The animal has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers have a very high risk to become ill.

AFFECTED: The animal has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals have a very high risk become ill.

H672 - Exercise Induced Collapse (EIC)

Explanation about the result:

NORMAL: The animal is free and has two healthy alleles. When used in breeding, this animal will not become ill due to the disease. It cannot spread the disease in the population.

CARRIER: The animal is carrier and has one healthy and one mutant (disease) allele. When used in breeding, 50 percent of the offspring will receive the disease allele. Carriers will not become ill.

AFFECTED: The animal is affected and has two mutant (disease) alleles. When used in breeding, all offspring will receive the mutant allele from this animal. Affected animals will become ill.

This test is based on an association study.

H630 - Coat Colour Merle (External Lab)

Detailed information about Coat Colours and Coat Variation is available at www.combibreed.com.

Direct link: <https://www.combibreed.com/blog/knowledgebase/about-dogs/>

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