dr. van haeringen laboratorium b.v.

a VHLGenetics company

CJAM Stuurman-Jansen
Stationsweg 88
6075CD Herkenbosch
Customer number 103388

Analysis Certificate

Animal data		Sample data	
Name:	PRECIOUS DOUBLE DOT V. MEINWEG		
Date of birth:	. .	VHL_ID:	H394860
Sexe:	Female	Test ID-nr:	430735 7
Chip number:	528140000798608.	Material:	Unknown
Reg. nr.:	3197793		

Dam: 528140000533190 / VHL_ID: H775172 / PRECIOUS PENNY LANE V. MEINWEG
Sire: 276093400550425 / VHL_ID: H783222 / A SENSE OF PLEASURE'S TRAVEL DEVIL

H427 - Myotubular myopathy 1 - Date of test: 05.07.2021
Testresult: NORMAL

H510 - Skeletal Dysplasia 2 (SD2) - Date of test: 05.07.2021
Testresult: NORMAL

H698 - Narcolepsy Labrador Retriever - Date of test: 05.07.2021
Testresult: NORMAL

H741 - Piruvatekinase Def. - Date of test: 05.07.2021
Testresult: NORMAL

H811 - Hyperuricemia (HUU) - Date of test: 05.07.2021
Testresult: NORMAL

H441 - Thrombocytopaenia - Date of test: 05.07.2021
Testresult: NORMAL

H672 - EIC (partner lab) - Date of test: 14.07.2021

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Testresult: CARRIER

H673 - DM (partner lab) - Date of test: 14.07.2021
Testresult: NORMAL

H675 - HNPK (partner lab) - Date of test: 20.07.2021
Testresult: NORMAL

H704 - prcd PRA (partnerlab) - Date of test: 14.07.2021
Testresult: NORMAL

H317 - Macular Corneal Dystrophy - Date of test: 05.07.2021
Testresult: NORMAL

H643 - Cystinuria, type II - A - 1 - Date of test: 05.07.2021
Testresult: NORMAL

H746 - Canine Malignant Hypertherm - Date of test: 05.07.2021
Testresult: NORMAL

H794 - RD/OSD - Date of test: 05.07.2021
Testresult: NORMAL

H749 - Centronucleaire Myopatie (CNM) - Date of test: 05.07.2021
Testresult: NORMAL

H387 - Achromatopsia 3 (cone degeneration, hemeralopia) - Date of test: 05.07.2021
Testresult: NORMAL

H389 - Alexander Disease - Date of test: 05.07.2021
Testresult: NORMAL

H625 - Congenital Cornification Disorder - Date of test: 05.07.2021
Testresult: NORMAL

H339 - Congenital Myasthenic Syndrome - Date of test: 05.07.2021

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Testresult: NORMAL

H473 - GR-PRA2 - Date of test: 05.07.2021
Testresult: NORMAL

H895 - Obesity - Date of test: 05.07.2021
Testresult: NORMAL

D. Mioch, MSc Veterinary Medicine
CEO

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H427 - Myotubular myopathy 1

Explanation about the result for females:
NORMAL: The animal is free and has two healthy alleles. 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.
Explanation about the result for males:
NORMAL: The animal is free and has one healthy allele and the sex chromosome Y. It cannot spread the disease in the population.
AFFECTED: The animal is affected and has one mutant (disease) allele and the sex chromosome Y. When used in breeding, all male offspring will receive the sex chromosome Y. All female offspring will receive the mutant (disease) allele.

H510 - Skeletal Dysplasia 2 (SD2)

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.

H698 - Narcolepsy Labrador Retriever

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.

H741 - Piruvatekinase Def.

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.

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

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will receive the mutant allele from this animal. Affected animals will become ill.

H441 - Thrombocytopaenia

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.

H672 - EIC (partner lab)

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.

H673 - DM (partner lab)

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.

H675 - HNPK (partner lab)

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.

H704 - prcd PRA (partnerlab)

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.

H317 - Macular Corneal Dystrophy

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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.

H643 - Cystinuria, type II - A - 1

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.

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.

H794 - RD/OSD

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.

H749 - Centronucleaire Myopatie (CNM)

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.

H387 - Achromatopsia 3 (cone degeneration, hemeralopia)

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.

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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.

H389 - Alexander Disease

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.

H625 - Congenital Cornification Disorder

Explanation about the results for females:
NO CARRIER: The animal is free and has two healthy alleles. 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.
Explanation about the results for males:
NO CARRIER: The animal is free and has one healthy allele and the sex chromosome Y. It cannot spread the disease in the population.
AFFECTED: The animal is affected and has one mutant (disease) allele and the sex chromosome Y. When used in breeding, all male offspring will receive the sex chromosome Y. All female offspring will receive the mutant (disease) allele.

H339 - Congenital Myasthenic Syndrome

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.

H473 - GR-PRA2

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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H895 - Obesity

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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