



dr. van haeringen laboratorium b.v.

a VHLGenetics company

v.o. ortis
via cazzaso 24
33020 zuglio fraz. sezza
ITALY
Customer number 97099

Analysis Certificate

Animal data

Name: DARKNIGHT TORRES, MX
Date of birth: 24.04.2016
Sexe: Male
Chip number: 939000002424264
Tattoo number: FCM G0204-A
Breed: Mechelse Herder

Sample data

VHL_ID: H178949
Test ID-nr: 181622 9
Material: Swab

H734 - E-locus (CC Yellow) - Date of test: 03.03.2017

Testresult: E/E

H818 - Em locus - Date of test: 03.03.2017

Testresult: Em/Em

H733 - B-locus (CC Brown) - Date of test: 03.03.2017

Testresult: B/B

H847 - Coat Colour D-Locus Improved (MLPH) - Date of test: 03.03.2017

Testresult: D/D

H819 - K-locus - Date of test: 03.03.2017

Testresult: N/N

H820 - A-locus - Date of test: 06.03.2017

Testresult: Ay/Ay

VHL exercises the utmost care in performing each of its engagements. No party other than the principal may derive any rights from the results of these engagements, and the principal expressly indemnifies VHL in respect of any third-party claims. VHL policy provides that any complaints must be received within eight days of the completion of an engagement and imposes restrictions on liability. In that respect, VHL refers to its General Conditions, which are applicable to all engagements VHL performs and which were enclosed with the submission form. These General Conditions can also be reviewed at www.vhlgenetics.com. The work VHL performs is based on the material and/or data it receives from its principal. This report may only be copied in its entirety. The organization is ISO:9001 certified for all her work. This test is based on PCR technology.

(Certificate nr: H28005/Date of issue: 06.03.2017)

page 1 of 3



dr. van haeringen laboratorium b.v.

a **VHLGenetics** company

W.A. van Haeringen, PhD
Executive Director

VHL exercises the utmost care in performing each of its engagements. No party other than the principal may derive any rights from the results of these engagements, and the principal expressly indemnifies VHL in respect of any third-party claims. VHL policy provides that any complaints must be received within eight days of the completion of an engagement and imposes restrictions on liability. In that respect, VHL refers to its General Conditions, which are applicable to all engagements VHL performs and which were enclosed with the submission form. These General Conditions can also be reviewed at www.vhlgenetics.com. The work VHL performs is based on the material and/or data it receives from its principal. This report may only be copied in its entirety. The organization is ISO:9001 certified for all her work. This test is based on PCR technology.

(Certificate nr: H28005/Date of issue: 06.03.2017)

page 2 of 3



dr. van haeringen laboratorium b.v.

a VHLGenetics company

H734 - E-locus (CC Yellow)

Information about the yellow coat colour (E-locus):

Result E/E: The dog is non-carrier of the mutation that is responsible for the yellow coat colour.

Result E/e: The dog is carrier of the mutation that is responsible for the yellow coat colour.

Result e/e: The dog is homozygous for the mutation that is responsible for the yellow coat colour.

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

H818 - Em locus

Information about the Em coat colour (Em-locus):

Result Em/Em: The dog is homozygous for the mutation that is responsible for a black mask.

Result Em/N: The dog is carrier from the mutation that is responsible for a black mask. Due to the dominant inheritance it has a melanistic mask.

Result N/N: The dog is no carrier from the mutation that is responsible for a black mask.

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

H733 - B-locus (CC Brown)

Information about the brown coat colour (B-locus):

Result B/B: The dog is non-carrier of the mutation that is responsible for the brown coat colour.

Result B/b: The dog is carrier of the mutation that is responsible for the brown coat colour.

Result b/b: The dog is homozygous for the mutation that is responsible for the brown coat colour.

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

H847 - Coat Colour D-Locus Improved (MLPH)

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

H819 - K-locus

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

H820 - A-locus

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

Direct link: <http://www.combibreed.com/en-us/customerservice/informationcoatvariation/dog.aspx>

VHL exercises the utmost care in performing each of its engagements. No party other than the principal may derive any rights from the results of these engagements, and the principal expressly indemnifies VHL in respect of any third-party claims. VHL policy provides that any complaints must be received within eight days of the completion of an engagement and imposes restrictions on liability. In that respect, VHL refers to its General Conditions, which are applicable to all engagements VHL performs and which were enclosed with the submission form. These General Conditions can also be reviewed at www.vhlgenetics.com. The work VHL performs is based on the material and/or data it receives from its principal. This report may only be copied in its entirety. The organization is ISO:9001 certified for all her work. This test is based on PCR technology.