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REFERENCE NO.: 2020 - 31069
OWNER:
MARIE RAYNAUD & JEAN-MARC DUGAY SARL
BUSYLITTLEBEE
LA MULOCHERE _
FR-53270 TORCÉ-VIVIERS-EN-CHARNIE
FRANCE

NAME/LABEL:
POWER AND GLORY DU CHEMIN DES KORRIGANS
SPECIES: DOG
BREED: AUSTRALIAN SHEPHERD
SEX: MALE
MICROCHIP NO.: 250268743111366
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: LOF 111204

GENETIC REPORT

SAMPLE: BUCCAL SWAB

SAMPLE TAKEN BY: SYLVAIN BAUDRY, DVM

REQUESTED TEST: HEREDITARY CATARACT (HC)

RESULT: CARRIER (MUT/WT)

COMMENT :
The test examines presence or absence of HSF4 gene mutation (g.85286582delC) described as the cause of primary hereditary cataract (HC) in Australian Shepherd. The disease is characterized by opacity of the crystalline lens that leads to blindness. Tested HSF4 gene defect is inherited as an autosomal dominant trait with incomplete penetrance.

Regarding to the presence of tested mutation animals are classified in three groups:

- Clear (wt/wt) - mutation is not present, normal genotype
- Carrier (mut/wt) - one of two alleles carries a mutation, high probability of clinical manifestation
- Affected (mut/mut) - both alleles carry mutations, disease is clinically manifested

Hereditary cataract in Australian Shepherds has autosomal dominant mode of inheritance with incomplete penetrance. That means it is not developed in every heterozygous animal carrying deleterious mutation. Other genetic or environmental factors cannot be excluded in development of the disease. According to the scientific literature, the probability of developing the disease is 17 times higher in heterozygous animal comparing to clear animal. Carriers pass the mutation to their siblings therefore mating of two carrier animals should be avoided as 25% of puppies will be affected. The test cannot exclude other genetic defects, which may be involved in development of hereditary cataract in Australian Shepherds.

AUTHORIZED SIGNATURE:

MARIBOR, 05.02.2020

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Results are valid for laboratory analysed samples only. Accuracy of the data about animal identity is the sole responsibility of the customer/owner. Laboratory is not responsible for false results which arise due to inaccurate animal identity data, false sample labels etc. To the extent the law allows, the maximal compensation for potential false result is limited to the invoiced amount. With the test it is not possible to rule out the presence of other genetic changes which might affect the development of the disease. Testing is performed according to the latest scientific knowledge.