EVG
MOLEKULARNA DIAGNOSTIKA

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REFERENCE NO.: 2013 - 01380
OWNER:
SANDRINE BERCIER
22 MONTÉE DU VILLAGE
FR-38730 VALENCOGNE
FRANCE

NAME/LABEL:
IRISH
SPECIES: DOG
BREED: AUSTRALIAN SHEPHERD
SEX: MALE
MICROCHIP NO.: 250268711030957
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: NOT PROVIDED

GENETIC REPORT

SAMPLE: BUCCAL SWAB

SAMPLE TAKEN BY: ALAIN LLAURENS, DVM, CLINIQUE VETERINAIRE DU ROND POINT, 2, RUE VICTOR HUGO, 38500 VOIRON, FRANCE

REQUESTED TEST: HEREDITARY CATARACT (HC)

RESULT: CARRIER (MUT/WT)

COMMENT :

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

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

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.

For additional information we are available on our phone during working days between 9 a.m. and 3 p.m. or e-mail.

AUTHORIZED SIGNATURE:

Maribor, 22.11.2013

EVG
MOLEKULARNA DIAGNOSTIKA
EVG d.o.o., Grajski trg 1, SI - 2000 Maribor

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.

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GENETIC REPORT

SAMPLE: BUCCAL SWAB

SAMPLE TAKEN BY: ALAIN LLAURENS, DVM, CLINIQUE VETERINAIRE DU ROND POINT, 2, RUE VICTOR HUGO, 38500 VOIRON, FRANCE

REQUESTED TEST: MULTI DRUG RESISTANCE (IVERMECTIN SENSITIVITY, MDR1)

RESULT: CLEAR (WT/WT)

COMMENT :

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

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

For each group different breeding strategies should be followed. Breeding of affected and carrier animals should be avoided. If particularly valuable animal is classified as affected it should be bred only with clear animal. In such a case all first Generation siblings will be carriers. If a carrier is bred with clear animal, 50% of siblings are expected to be clear. In case two carriers are bred, 25% of siblings are expected to be clear and 50% are expected to be carriers. However, 25% of siblings are expected to be affected, therefore such breeding practice is discouraged. Genetic test should be done for all animals where genotype cannot be inferred from parent genotypes or if certificate of Genetic status is required.

For additional information we are available on our phone during working days between 9 a.m. and 3 p.m. or e-mail.

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