EVG molekularna diagnostika d.o.o.
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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: CANINE MULTIFOCAL RETINOPATHY TYPE 1 (CMR1)

RESULT: CLEAR (WT/WT)

COMMENT :
The test examines presence or absence of VMD2 gene mutation (c.73C>T) described as the cause for canine multifocal retinopathy (CMR1) in several dog breeds. Causative mutation in VMD2 gene generates a premature stop codon, which results in non-functional protein responsible for proper formation of pigment epithelium in retina. CMR1 is inherited as an autosomal recessive trait.

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 tested mutation, disease is not clinically manifested
- Affected (mut/mut) - both alleles carry tested mutation, disease is clinically manifested

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 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.

AUTHORIZED SIGNATURE:

MARIBOR, 05.02.2020

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