EVG molekularna diagnostika d.o.o.
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REFERENCE NO.: 2021 - 042792/01
OWNER:
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FRANCE

NAME/LABEL:
MAKE-ME-A-STAR DU CLAN MIKERO
SPECIES: DOG
BREED: AUSTRALIAN SHEPHERD
SEX: FEMALE
MICROCHIP NO.: 250 268 712 468 945
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: 69342/9601

GENETIC REPORT

SAMPLE: BUCCAL SWAB

SAMPLE TAKEN BY: MYLÈNE KRAN, DVM, CLINIQUE VÉTÉRINAIRE D'AUMALE, 14, RUE JEANNE LECLERC, 76300 AUMALE, FRANCE

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, 02.10.2021

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