

REFERENCE NO.: 2021 - 042792/01

OWNER:

MARIE-FRANCE LATHUILLIERE
2 ROUTE DE PARIS - BOISEMONT
FR-27150 FRENELLES-EN-VEXIN
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: MULTI DRUG RESISTANCE (IVERMECTIN SENSITIVITY, MDR1)

RESULT: CARRIER (MUT/WT)

COMMENT :

The test examines presence or absence of MDR1/ABCB1 gene mutation (c.295_298del) described as the cause of multi drug resistance (MDR) in several dog breeds. The condition is characterized by increased susceptibility to neurotoxic side effects of several drugs including Ivermectin. MDR1 gene defect 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