

REFERENCE NO.: 2021 - 042622/01

OWNER:

MONIKA CZYPIONKA
ŹRÓDLANA, 17B
PL-42-512 SARNÓW
POLAND

NAME/LABEL:

DEER'S DEN ICE SHAPED SOMBRERO
SPECIES: DOG
BREED: LABRADOR RETRIEVER
SEX: MALE
MICROCHIP NO.: 616093900997540
TATOO NO.: NOT PROVIDED
PEDIGREE NO.: PKR.VIII-40354

GENETIC REPORT

SAMPLE: BLOOD

SAMPLE TAKEN BY: OWNER

REQUESTED TEST: SKELETAL DYSPLASIA 2 (SD2) - DWARFISM

RESULT: CLEAR (WT/WT)

COMMENT :

The test examines presence or absence of COL11A2 gene mutation (c.143G>C) described as the cause of skeletal dysplasia 2 (SD2) in Labrador Retriever. The disease is characterized by a very subtle phenotype where mild dwarfism with short-legged phenotype is observed. COL11A2 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, 17.09.2021