

**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:** EXCERSISE INDUCED COLLAPSE (EIC)

**RESULT:** CLEAR (WT/WT)

### COMMENT :

The test examines presence or absence of DNM1 gene mutation (c.767G>T) described as the cause of exercise induced collapse (EIC) in several dog breeds. EIC is a syndrome characterized by collapse episodes following strenuous exercise. DNM1 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