GENOMIA
genetic laboratory

# Result certificate #012345

Detection of c.531-2A>G mutation in DMD gene causing GRMD in Golder Retrievers

**Customer**: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
**Sample:**
Sample: 21-12345
Date received: 01.02.2021
Sample type: blood

Information provided by the customer
**Name: Lassie DEMO**
**Breed: Plemeno**
Tattoo number: 1392013
Microchip: 123 456 789 012 345
Reg. number: REGQ12345
Date of birth: 1.1.2020
Sex: female
Date of sampling: 01.02.2021
The identity of the animal has been checked.

Result: Xn/Xn

**Explanation**

Presence or absence of c.531-2A>G mutation in DMD gene causing Muscular Dystrophy in Golder Retrievers was tested. GRMD is a degenerative muscular disease causing loss of active muscular tissue and movement disorders. Disease is usually expressed in puppies around 8 weeks of age. Dogs with severe form die soon after diagnosis, while dogs with milder form of the disease can survive several years. GRMD is X-linked recessive disease.

**Females have XX chromosomes. So females have three possibilities as regards GRMD:**

XnXn - females with two normal X chromosomes = normal phenotype, a healthy female
XnXm - females with one normal X (Xn) and one mutant X (Xm) = a female carrier.
XmXm - females with two mutated X chromosomes = an affected female

**Males have XY chromosomes. So they have two possibilities as regards GRMD:**

XnY - normal phenotype, a healthy male
XmY - an affected male; he inherited mutated X chromosome from his mother

Method: SOP188-MPS-canine, MPS, accredited method

Date of issue: 06.02.2021
Date of testing: 01.02.2021 - 06.02.2021
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

Genomia is accredited in compliance with ISO/IEC 17025:2018 under #1549
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SAMPLE