GENOMIA
genetic laboratory

Result certificate #012345

Detection of gene variants associated with the risk of deafness in border collies

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: PREVIEW RESULT LINE

Explanation

The presence or absence of the AOD1 (Chr6:25681850T>G gene USP31), AOD2 (Chr6:25714052A>G gene USP31), AOD3 (Chr6:24500625G>T gene RBBP6), AOD4 (Chr6:25819273C>A gene HS3ST2) mutations, which are likely associated with an increased risk of hearing loss in Border Collies at an unusually young age (EAOD). Gradual hearing loss in Border Collies occurs on average between 3 and 5 years of age.

The resulting genotypes may be as follows:
- N/N: the individual does not carry any of the tested gene variants
- N/AOD1, N/AOD2, N/AOD3, N/AOD4: the individual carries one copy of the risk gene variant --> risk of developing early hearing loss
- AOD1/AOD1, AOD2/AOD2, AOD3/AOD3, AOD4/AOD4: the individual carries two copies of the risk gene variant --> risk of developing early hearing loss

The test result does not indicate whether the dog will actually develop the disease. It only predicts the possible risk of developing early hearing loss.

Method: SOP188-MPS-canine, MPS

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

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