GENOMIA
genetic laboratory

Result certificate #012345

Detection of inversion in ADAMTS17 gene causing POAG in Petit Basset Griffon Vendéen

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 08-12345
Date received: 25.11.2008
Sample type: blood

Information provided by the customer
Name: Lassie DEMO
Breed: ---
Tattoo number: 1392013
Microchip: 123 456 789 012 345
Reg. number: REGQ12345
Date of birth: 31.12.1909
Sex: female
Date of sampling: 25.11.2008
The identity of the animal has been checked.

Result: Mutation was not detected (N/N)

Legend: N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

Explanation

Presence or absence of inversion in ADAMTS17 gene causing primary open angle glaucoma (POAG) in Petit Basset Griffon Vendéen was tested. The initial clinical signs occur in 3 to 4-year-old dogs. The so-called aphakic crescent (half-moon) connected with lens subluxation occurs in approximately one third of the affected dogs. In the late stage of the disease, globe enlargement develops. Retina degeneration and cupping deformation of the optic papilla can be seen only in late disease. Pain is not a feature of this type of disease and so the owners of the affected dogs become aware of the presence of POAG when either the glove enlargement or a vision problem becomes noticeable.

Mutation that causes POAG in Petit Basset Griffon Vendéen is inherited autosomally recessively which means that the disease develops only in those dogs who inherit mutated allele from both parents; disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOP171-POAG-PBGV, fragment analysis

Date of issue: 30.11.2008
Date of testing: 25.11.2008 - 30.11.2008
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999