

Detection of insertion in RSPO2 gene influencing moustache and eyebrow growth pattern or improper coat in many dog breeds

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: Based on mutation examination genotype was determined wt/ins

Explanation

Presence or absence of 167 bp insertion in 3'UTR region RSPO2 gene influencing moustache and eyebrow growth pattern (furnishings) in many dog breeds and influencing improper coat (IC) in Portuguese Water Dog (PWD), Labradoodle and Havana Silk Dog was examined.

Furnishings is inherited in dominant trait. It means that dog with furnishings has an insertion in one or in both alleles of RSPO2 gene (genotypes ins/wt or ins/ins). Dog without furnishings has wild type alleles (wt/wt) in RSPO2 gene.

IC in PWD, Labradoodle and Havana Silk Dog is inherited as an autosomal recessive trait. It means that IC will develop only in individuals, who inherit the wild type allele from both parents (wt/wt). Heterozygous individuals (wt/ins) will be carriers of IC. Individuals carrying both inserted alleles (ins/ins) have standard furnishings. If two carriers are mated, the litter will theoretically consist of 25 % offsprings with improper coat, 50 % offsprings will be carriers without IC phenotype symptoms and 25 % offsprings will have typical coat.

Method: SOP171-RSPO2, fragment analysis

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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