GENOMIA
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Result certificate #012345

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

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