

lottie. (letra)

Result certificate #045784:

Detection of insertion in RSPO2 gene influencing furnishings or improper coat in several dog breeds by PCR analysis

Sample

Sample: 14-11005
Name: raisdoodles lottie
Breed: Australian labradoodle
Microchip: 977200008452947
Date of birth: 10/3/14
Sex: female
Date received: 29.04.2014
Sample type: buccal swab

Customer

New house farm, Preston wyne
Hereford
Hr13pe Hereford
United Kingdom

Result: Based on mutation examination genotype was determined ins/ins

Explanation

Presence or absence of 167 bp insertion in 3'UTR region RSPO2 gene influencing furnishings in Brussels Griffon, Chinese Crested, Dachshund, German Wirehaired Pointer and Soft-Coated Wheaten Terrier 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: SOP77

Report date: 30.04.2014

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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