

Result certificate #034270:**Sample**

Sample: 13-14031
Name: Dog's Paradise Chocolate Chip
Breed: Australian labradoodle
Reg. number: ALAEU-900
Microchip: 528210002601644
Date of birth: 18-11-2010
Sex: male
Date received: 04.06.2013
Sample type: buccal swab

**Detection of c.-22G>A MLPH gene variants
(locus D) influencing dog coat color by
PCR-RFLP****Customer**

AMJ de Koning Trum
Biezenmortelsestraat 2
5074 PD Biezenmortel
Netherlands

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

Explanation

Presence of c.-22G>A MLPH gene variants was examined. It is a set of locus D (Dilution) alleles. MLPH gene controls density of pigment (eumelanin and pheomelanin) distribution in hair. Presence of c.-22A gene variant causes decline of pigments in hair; origin black coat color is diluted in to blue coat color, origin brown (red) coat color is changed to cream.

Phenotype of d allele is inherited in autosomal recessive trait. Color dilution is evident in d/d individuals, who inherited d-allele from both parents. Heterozygous D/d individuals has no color dilution, they are just carriers of d-allele. Final coat color is influenced by other loci (E, B, A, K).

Method: SOP47

Report date: 07.06.2013

Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



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