

Result certificate #027679:

Sample

Sample: 12-33822
Name: Calypso Čertovo kopýtko
Breed: německý pinč
Microchip: 900088000245677
Date of birth: 14.11.2010
Sex: female
Date received: 10.12.2012
Sample type: buccal swab

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

Customer

Zuzana Staňková
Konečná 1177
755 01 Vsetín
Czech Republic

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

Explanation

Presence or absence of MLPH gene variant c.-22G>A 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.-22G>A 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: 17.12.2012

Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



Genomia s.r.o, Janáčkova 51, 32300 Plzeň, Czech Republic, VAT#: CZ25212991
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999