

Detection of c. 916C>T gene variants in MC1R gene (locus E) responsible for dog coat color

Sample

Sample: 08-12345
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 received: 25.11.2008
Sample type: blood
The identity of the animal has been checked.

Customer

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Result: Based on gene variants examination genotype was determined E/e

Explanation

Presence of c.916C>T MC1R gene variants (melanocortin 1 receptor) was tested. The gene region is called locus E (Extension). Wild-type allele is called E; recessive gene variant c.916T is called e. Genotype e/e is manifested by red or yellow dog coat color.

Phenotype of e allele is inherited as an autosomal recessive trait and is manifested only in e/e individuals (they need to inherit gene variant c.916T from both parents). Heterozygous individuals E/e are carriers of allele e.

Method: SOP173-MC1R, PCR-RFLP

Report date: 25.11.2008

Responsible person: Mgr. Martina Šafrová, Laboratory Manager



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