

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

Customer: Monika Pelišková, Rozstání 251, 79862 Rozstání, Czech Republic

Sample:

Sample: 21-13017

Date received: 11.05.2021

Sample type: blood

Information provided by the customer

Name: Grissly (Gloriandus Faberge)

Breed: Dalmatian

Tattoo number: GLS124

Microchip: 643 099 100 013 664

Date of birth: 18.09.2018

Sex: female

Date of sampling: 07.05.2021

The identity of the animal has been checked by MVDr. Ivana Stodůlková, KVL 5437

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

Date of issue: 24.06.2021

Date of testing: 14.06.2021 - 24.06.2021

Approved by: Ing. Irena Rusková, Analyst



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