

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

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

Sample:

Sample: 21-12345

Date received: 01.02.2021

Sample type: blood

Information provided by the customer

Name: Lassie DEMO

Breed: Plemeno

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 1.1.2020

Sex: female

Date of sampling: 01.02.2021

The identity of the animal has been checked.

Result: 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: SOPAgriseq_canine, ngs, accredited method

Date of issue: 06.02.2021

Date of testing: 01.02.2021 - 06.02.2021

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999



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