GENOMIA
genetic laboratory

Result certificate #012345

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; recesive 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: SOP188-MPS-canine, MPS, accredited method

Date of issue: 06.02.2021
Date of testing: 01.02.2021 - 06.02.2021
Approved by: Mgr. Martina Šafrová, Laboratory Manager

verified and certified document
GENOMIA genetic laboratory

SAMPLE

Genomia is accredited in compliance with ISO/IEC 17025:2018 under #1549
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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Report verification code is: 12AB-CD34-GENO-MIA0-EFGH. You can verify report online at www.genomia.cz
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