GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.248C>T MC1R gen variants (locus E) influencing horse coat color by PCR-RFLP

Customer: Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic
Sample:
Sample: 21-12351
Date received: 01.02.2021
Sample type: horsehair

Information provided by the customer
Name: Black And White DEMO
Breed: Český teplokrevník
Date of birth: 25.11.2016
Reg.number : DE-123-456-789-012
Tattoo: 123456789012345
Sex: male
Date of sampling: 01.02.2021
The identity of the animal has been checked by MVDr. Veselý Josef.

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

Explanation

Presence of c.248C>T MC1R gene variants (locus E) influencing horse coat color was examined.

Dominant allele E (genotypes EE or Ee) of MCR1 gene allows creation of eumelanin while the recessive allele e prevents formation of eumelanin. Genotypes EE and Ee are responsible for black, dark bay and bay colours. Genotype ee allows formation of phaeomelanin and is responsible for red colouring - for various shades from dark to light chestnut.

Method: SOP188-MPS-equine, MPS

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

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SAMPLE