GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.353_354TC>AG EDNRB gene variants influencing frame overo pattern in horses 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 O/N

Explanation

Presence of c.353_354TC>AG EDNBR gene variants influencing frame overo pattern in horses was examined.

The O allele causing frame overo color pattern is autosomally dominant. In foals with O/O genotype a fatal genetic defect called Overo Lethal White Syndrome is developing; affected individuals are dying soon after birth due to abnormalities of the alimentary tract. Heterozygous foals (O/N) survive and these become frame overo. Horse with N/N result does not carry overo pattern.

Method: SOP075, PCR-RFLP

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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