GENOMIA
genetic laboratory

Result certificate #012345

Detection of c.2174_2184del ASIP gene variant (locus A) influencing horse coat color by fragmentation analysis

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 A/a

Explanation

Presence or absence of c.2174_2184del ASIP gene variant (allele a) influencing horse coat color was examined.

Allele A of gene ASIP controls spreading of eumelanin on horse bodies. Allele A limits occurrence of black only to the mane, tail and lower legs. Allele A^t (in genotypes A^t/A^t and A^t/a) does not limit black as much as allele A; however, black is lightened to dark bay, the lightening is present in particular on shoulder blades and flanks. Allele a in homozygote condition (a/a) is responsible for black colour distributed all over the horse body.

Genomia Laboratory determines allele a - recessive black colouring. Allele A and A^t are not differentiated by the test.

Method: SOP069, fragment analysis

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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