

Detection of c.457G>A MATP gene variants
(locus C) influencing horse coat color by
PCR-RFLP

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

Sample:

Sample: 08-12351

Date received: 01.02.2017

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: 09.02.2017

The identity of the animal has been checked by MVDr. Veselý Josef.

Result: Based on gene variants examination genotype was determined Cr/N

Explanation

Presence of c.457G>A (p.Asp153Asn) MATP gene variants (locus C) influencing horse coat color was examined.

Cr allele of MATP gene is one of the many alleles responsible for diluting of horse color. Cr allele is semi-dominant gene with the so-called dosing effect. If a horse has one Cr allele (heterozygote NCr), the first dilution occurs and the base chestnut colour is changed to palomino, bay to buckskin and black to smoky black. In the case, two Cr alleles are present (homozygote CrCr) double dilution occurs and the basic chestnut colour changes to cremello, bay to perlino and black to smoky cream.

Method: SOP070, PCR-RFLP

Date of issue: 06.02.2017

Date of testing: 01.02.2017 - 06.02.2017

Approved by: Mgr. Martina Šafrová, Laboratory Manager



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