



Geschäftsstelle Moritzburg: Käthe-Kollwitz-Platz 2 · 01468 Moritzburg · Tel.: 03 52 07/ 89 63-0 · Fax: 03 52 07/ 8 96 40
Geschäftsstelle Weimar: Im Boden 1 · 99438 Weimar · Tel.: 0 36 43/ 24 88-0 · Fax: 0 36 43/ 24 88 15



**Pferdezuchtverband
Sachsen-Thüringen e.V.**

SNP data analysis

IRL004100016431

HB 1 Knockbridge Joey (Conne)

Sex: H Year of breeding: 2014 Date of birth: 01.01.2014 Breed: Connemara Color: Dun

Applicant: 960978, Bonanima CZ 78701 Sumperk, Radnicni 3288/10

Sample: SNP data analysis

Order ID: 868364

Sample ID: H25-16579

Date of receipt: 06.03.2025

Institute: IFN Schönow

Characteristic examined: **Base colors**

Application date: 25.02.2025

Result date: 15.03.2025

Analysis: vit w.V.

Order ID: 868364

Gene locus: Genotype:

Agouti A/A

Extension E/E

Result interpretation:

Homozygous for non-black. The base color of the coat of horses with the genotype A/A at the Agouti locus is dependent on the Extension genotype, so may be bay (E/E, E/e) or chestnut (e/e). Among the progeny, no foals with base color black can occur.

Homozygous for non-chestnut. The base color of the coat of horses with the genotype E/E at the Extension locus is dependent on the Agouti genotype, so may be bay (A/A, A/a) or black (a/a). Among the progeny, no foals with base color chestnut can occur.

For breeding use, the overall finding of genotypes E/E A/A implies, that the base color genotype of the chosen mating partner will not influence the coat color of the foal. Only progeny of the base coat color bay can occur.



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SNP data analysis

IRL004100016431

HB 1 Knockbridge Joey (Conne)

Sex: H Year of breeding: 2014 Date of birth: 01.01.2014 Breed: Connemara Color: Dun

Applicant: 960978, Bonanima CZ 78701 Sumperk, Radnicni 3288/10

Sample: SNP data analysis

Order ID: 868364

Sample ID: H25-16579

Date of receipt: 06.03.2025

Institute: IFN Schönow

Characteristic examined: **Dominant White**

Application date: 25.02.2025

Result date: 15.03.2025

Analysis: vit w.V.

Order ID: 868364

Gene locus:	Genotype:
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Dominantes Weiss / W16	n/n
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Dominantes Weiss / W18	-/-
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Dominantes Weiss / W20	n/n
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Dominantes Weiss / W8	-/-
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Dominantes Weiss / W9	-/-
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Result interpretation:

Homozygous normal for the W16 mutation of the KIT gene for Dominant White / White Spotting. The genotype n/n at the W16 locus means that there is no copy of the breed- and family-specific mutation which is causing white coat color in the Oldenburg horse. No W16 allele will be passed on to progeny.

No specification of the genotype possible.

Homozygous normal for the W20 mutation of the KIT gene for Dominant White / White Spotting. The genotype n/n at the W20 locus means that there is no copy of the mutation which occurs in different breeds and is causing or intensifying white patterns. No W20 allele will be passed on to progeny.

No specification of the genotype possible.

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**Pferdezuchtverband
Sachsen-Thüringen e.V.**

SNP data analysis

IRL004100016431

HB 1 Knockbridge Joey (Conne)

Sex: H Year of breeding: 2014 Date of birth: 01.01.2014 Breed: Connemara Color: Dun

Applicant: 960978, Bonanima CZ 78701 Sumperk, Radnicni 3288/10

Sample: SNP data analysis

Order ID: 868364

Sample ID: H25-16579

Date of receipt: 06.03.2025

Institute: IFN Schönow

Characteristic examined: **Dilution**

Application date: 25.02.2025

Result date: 15.03.2025

Analysis: vit w.V.

Order ID: 868364

Gene locus: Genotype:

Champagne n/n

Cream n/Cr

Result interpretation:

Homozygous normal for Champagne. The genotype n/n at the Champagne locus means that there is no copy of the mutation which is effective as dilution factor. No Ch allele will be passed on to progeny.

Heterozygous for Cream (carrier). The genotype n/Cr at the Cream locus means that there is one copy of the mutation which is diluting red pigment. Dependent on the base color of the horse, its coat color is Palomino (for base color chestnut) or Buckskin (for base color bay). The coat color is called 'Smoky Black' for base color black although the diluting (lightening) effect may not be visible in the black coat. The Cr allele can be passed on to progeny, such that foals with correspondingly diluted coat colors can occur.