INVICTA

GENETIC HEALTH SUMMARY

Donatello · Knabstrupper Stallion

Horse	Donatello	**Date of Birth**	14 May 2019
Breed	Knabstrupper	**Sex**	Stallion
Coat Pattern	Fewspot Leopard (LP/LP, PATN1/PATN1)	**Base Colour**	Bay (Aa, Ee)

Source: Etalon Diagnostics Genetic Profile Test Results (DNA Minipanel PLUS), Horse ID 111619 025, supplemented by additional Etalon panel results.

1 COAT COLOUR AND PATTERN

Donatello carries one Red and one Black base colour allele (Ee), with one Dominant Agouti allele (Aa) restricting black to the points — producing a Bay base. Two Leopard Complex Spotting (LP/LP) alleles combined with two Pattern 1 alleles (PATN1/PATN1) produce his Fewspot leopard pattern. **Breeding relevance:** Donatello will pass at least one LP and one PATN1 allele to **100% of offspring**. He has a minimum 50% chance of passing Black or Red, and a 50% chance of passing Dominant Agouti, to any given foal.

2 CONFIRMED CLEAR — 26 GENETIC DISORDERS

Donatello has tested negative (clear, -/-) for the following genetic disorders, as confirmed in the source report:

- ✓ Foal Immunodeficiency Syndrome
- ✓ Severe Combined Immunodeficiency
- ✓ Polysaccharide Storage Myopathy (PSSM1)
- ✓ Glycogen Branching Enzyme Deficiency (GBED)
- ✓ Hyperkalemic Periodic Paralysis (HYPP)
- ✓ Malignant Hyperthermia (MH)
- ✓ Hereditary Equine Regional Dermal Asthenia (HERDA)
- ✓ Cerebellar Abiotrophy
- ✓ Lavender Foal Syndrome
- ✓ Hydrocephalus
- ✓ Androgen Insensitivity
- ✓ IAR – Subfertility
- ✓ Myotonia
- ✓ Junctional Epidermolysis Bullosa (Type 1)
- ✓ Junctional Epidermolysis Bullosa (Type 2)
- ✓ Warmblood Fragile Foal Syndrome (WFFS)
- ✓ Hoof Wall Separation Disease (HWSD)
- ✓ Lordosis
- ✓ Equine Recurrent Uveitis – Risk
- ✓ Equine Recurrent Uveitis – Severity
- ✓ Equine Metabolic Syndrome
- ✓ Laminitis Risk
- ✓ Squamous Cell Carcinoma
- ✓ Dominant White
- ✓ Frame Overo (LWO)
- ✓ Kissing Spines Risk (Decreased Risk)

Kissing Spines Risk (KSS) is confirmed Decreased Risk per a supplementary Etalon panel result (n/n, 0 variants detected, gene region ECA25), in addition to the original Minipanel PLUS report.

3 OTHER NOTABLE TRAITS

Beyond health and coat genetics, the source panel also reports on the following performance and conformation traits:

Myostatin / Speed	Two Endurance alleles — likely endurance ability over sprint.
Curiosity / Vigilance	One of each allele — likely both curious and vigilant.
Gait	No Gait alleles detected.
Tiger Eye	No Tiger Eye alleles detected.
Dwarfism	No Dwarfism alleles detected.

4 GOOD TO KNOW

Donatello carries two Leopard Complex Spotting (LP/LP) alleles. This genotype is strongly associated with CSNB in the LP-linked literature, and Etalon's report classifies this genotype as "likely affected."

This is a genetic prediction based on the LP/LP genotype, not a clinical diagnosis from a veterinary eye examination. Caution is recommended when selecting mares to avoid pairing with another LP carrier, which would carry a 50% chance of an affected foal.