

## CERTIFICATE OF GENETIC ANALYSIS - DOG

**Owner:**

*Bibiche Vink,  
Vermetstraat 6,  
4458 BB, 's-Heer Arendskerke,  
The Netherlands*

**Genetic test: Ridge disposition / copy number of ridge gene**

<b>Name:</b>	JAROMA HIGHRIDGE THE DOCK OF THE BAY
<b>Breed:</b>	Rhodesian Ridgeback
<b>Gender:</b>	Male
<b>Date of Birth:</b>	13.7.2018
<b>Registration number:</b>	NHSB 3128345
<b>Tattoo number:</b>	-----
<b>Chip:</b>	528140000738753
<b>Sample / ID / Lab ID:</b>	blood / James / ZW107
<b>Sample received:</b>	24.5.2019

**Result: Heterozygote (R/r) - 1 ridge gene**

**Result interpretation:**

Heterozygote (R/r) possesses only 1 ridge gene. If the heterozygote is mated with another heterozygote, then statistically 25% of puppies will be ridgeless. When mated with a dominant homozygote, all puppies are ridged, but rarely ridge gene might be silenced (see Table).

**Authorised by, Date:**

  
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**7.6.2019**

**Primary sample:** The animal identity was verified and sample taken by veterinarian or authorised person.

**Test reliability:** The ordered genetic test is highly predictive for ridge gene copy number (exactly 133 kb duplication copy on chromosome 18). The accuracy of analysis is >99%.

<b>Ridge predisposition in Rhodesian Ridgebacks*</b>			
Parents (Sire x Dam)	Puppies		
	ridged	ridgeless	risk of Dermoid sinus
R/R x R/R	100%	0%	increased
R/R x R/r or R/r x R/R	>95%	<5%	normal
R/r x R/r	75%	25%	normal / low

R/R – dominant homozygote (2 ridge genes), R/R puppy is always ridged  
 R/r – heterozygote (1 ridge gene), R/r puppy is in 95% ridged, in approx. 5% ridgeless (ridge gene is suppressed)  
 \*prediction based on research, updated 1.2.2017