

## GENETIC TEST RESULT

### Ordered by:

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

<b>Name:</b>	ADJOA BHANU OF VUMBUO
<b>Breed:</b>	Rhodesian Ridgeback
<b>Date of Birth:</b>	22.8.2011
<b>Registration number:</b>	SHSB704587
<b>Tattoo number:</b>	-----
<b>Chip:</b>	756097200146193
<b>Sample / ID /Lab ID:</b>	Blood / 5.12.2016 Kühnis Marion Bhanu,Hund / RR331

**Result: Dominant homozygote (RR) - 2 ridge genes**

### Result interpretation:

Dominant homozygote (RR) possesses 2 ridge genes and passes 1 ridge gene to the offspring. Ridge is a dominant trait, therefore all puppies of a dominant homozygote have ridge. Very rarely, the ridge gene might be suppressed (see Table).

**Authorised by, Date:** Miroslav Hornak, Ph.D., 13.12.2016

Genetics in Rhodesian ridgeback breeding			
Parents (Sire x Dam)	Puppies		
	ridged	ridgeless	risk of Dermoid sinus
RR x RR	100%	0%	increased
RR x Rr or Rr x RR	>90%	<10%	normal
Rr x Rr	75%	25%	normal / low
RR x rr or rr x RR	>90%	<10%	low
rr x rr	0%	100%	very low
RR – dominant homozygote (2 ridge genes), RR puppy is always ridged Rr – heterozygote (1 ridge gene), Rr puppy is in 90% ridged, in approx. 10% ridgeless (ridge gene is suppressed) rr – ridgeless (no ridge gene)			

**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% from blood, >96% from buccal swabs.