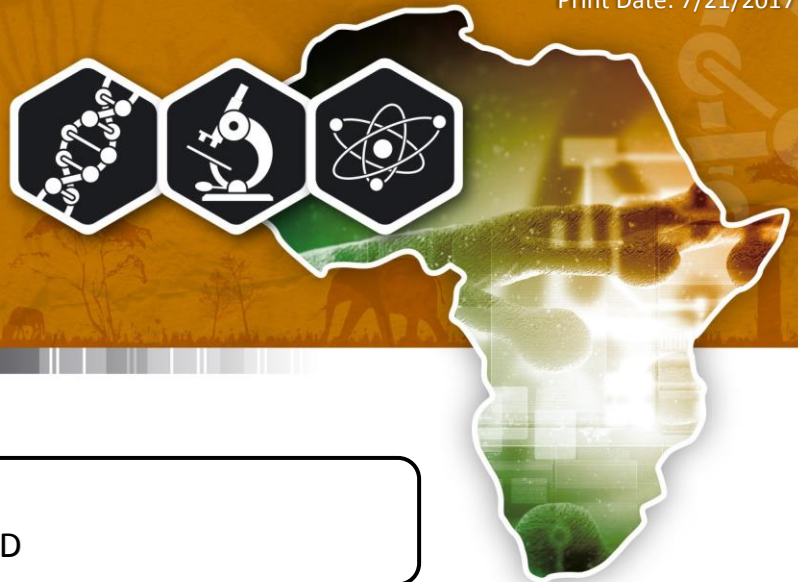




inqaba biotec™

Africa's Genomics Company



**ANIMAL GENETICS**  
**CANINE TEST REPORT: COLOUR LOCUS D**

Client's Name: MR ROBERT WH MICHSCHICK  
 Client's Address: 36 SCHOLTZ RD  
 SOMERSET WEST  
 7130  
 Client's Tel No.: 083 519 2848



Canine's Name: WINKFIELD ALIYA BUTTERFLY  
 Breed: RHODESIAN RIDGEBACK  
 Registration No.: ZA001516B15      Microchip No.: 945000001450473

Genetic Test: **COLOUR LOCUS D**  
 Result: **DD**

**DILUTION GENE/ D-LOCUS:**

Melanophillin is required to transport and position cells containing melanin. Melanophillin is encoded by the MLPH gene. A mutation in the MLPH gene or D locus, affects the dilution of eumelanin and phaeomelanin. "D" is non-dilute and will have an intense colour. "d" is recessive, and "dd" is required to dilute colour, which gives rise to blue (BBdd/Bbdd), Isabella/lilac (bbdd) or champagne (eedd).

Drögemüller et al 2007. A noncoding melanophilin gene (MLPH) SNP at the splice donor of exon 1 represents a candidate causal mutation for coat color dilution in dogs. Journal of Heredity 98(5), p468-73.

Disclaimer: This report does not disregard the existence of any unknown or rare variant of MLPH gene that may cause dilution.

**COLOUR RESULT:**

		MATERNAL CANDIDATE						
		D	D	D	d	d	d	
PATER- NAL CANDIDATE	D	D	DD	DD	DD	Dd	Dd	Dd
			All non-dilute		All non-dilute		All non-dilute	
	D	d	DD	Dd	DD	Dd	Dd	dd
			All non-dilute		Non-dilute	Dilute	Non-dilute	Dilute
	d	d	Dd	Dd	Dd	dd	dd	dd
			All non-dilute		Non-dilute	Dilute	All Dilute	



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