

## PROGRESSIVE RETINAL ATROPHY – PROGRESSIVE ROD CONE DYSTROPHY

REPORT NO.: SA2019/79516/0829/05

Client Name: E. RADEMEYER  
 Kennel Name:  
 Client Address: 5 DE VOS STREET  
 STELLENBOSCH  
 7600  
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Canine Name: **BRUCE**  
 Breed: **GOLDEN RETRIEVER**  
 Microchip No.: **900032001979297** Registration No.: **ZA051342B14**  
 Genetic Test: **PRA – PROGRESSIVE ROD CONE DYSTROPHY**  
 Result: **CLEAR**

### PROGRESSIVE RETINAL ATROPHY PRA\_PRC

Progressive Retinal Atrophy (PRA) is a collective of genetic eye disorders that share similar symptoms. There are numerous mutations that cause PRA in various canine breeds. The progressive rod-cone degeneration form of PRA (PRA-prcd) is found in various canine breeds.

This test detects the substitution of a ATP for a GTP at c.1298 G>A in the 106kb region on CFA9 (Zangerl et al, 2006). PRA-prcd is a late-onset, autosomal recessive photoreceptor degenerative disease, where two copies of the mutation are required for an individual to be affected.

Zangerl et al 2006. Identical mutation in a novel retinal gene causes progressive rod-cone degeneration in dogs and retinitis pigmentosa in humans. Genomics 88, pp 551-63.

SAMPLE TYPE: EDTA BLOOD AMPULE  
 EXTRACTION: DNA EXTRACTION  
 METHOD:  
 TEST TYPE: SANGER SEQUENCE DETECTION

### BREEDING IMPLICATIONS

		MATERNAL CANDIDATE							
		CLEAR		CARRIER		AFFECTED			
		G	G	G	A	A	A		
PATERNAL CANDIDATE	CLEAR	G	G	GG	GG	GG	GA	GA	GA
	CARRIER	G	A	GG	GA	GA	AA	GA	AA
		A	A	50% CLEAR 50% CARRIER	25% CLEAR 50% CARRIER 25% AFFECTED	50% CARRIER 50% AFFECTED	50% CARRIER 50% AFFECTED	50% CARRIER 50% AFFECTED	50% AFFECTED
AFFECTED	A	A	GA	GA	GA	AA	AA	AA	AA
				ALL CARRIER	50% CARRIER 50% AFFECTED	50% CARRIER 50% AFFECTED	ALL AFFECTED		

Disclaimer: This report does not disregard the existence of any unknown or rare variant of PRA-prcd.



It is the sender's responsibility to ensure the correctness of the information accompanying the samples. In no event shall Inqaba Biotechnical Industries (Pty) Ltd or its divisions be held liable for indirect, substantial or secondary damages of any kind. Results are usually made available within 7-14 days of receipt of samples. Please note that results are only released subject to payment.