

PROGRESSIVE RETINAL ATROPHY – PROGRESSIVE ROD CONE DYSTROPHY

REPORT NO.: SA2019/71518/0409/06

Client Name: LIANE VAN DER HOVEN

Kennel Name:

Client Address: SUITE 69
PRIVATE BAG X16
7200

Client Tel No.: 072 697 0841



Canine Name: **BONYL GLOWING DAWN**

Breed: **GOLDEN RETRIEVER**

Microchip No.: **953010002931981** Registration No.: **ZA003719B19**

Genetic Test: **PRA – PROGRESSIVE ROD CONE DYSTROPHY**

Result: **CLEAR**

PROGRESSIVE RETINAL ATROPHY PRA_PRC D

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 METHOD: DNA EXTRACTION
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	GG	GA	GA	AA
		A	A	50% CLEAR 50% CARRIER	50% CARRIER 25% AFFECTED	25% CLEAR 50% CARRIER 25% 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	ALL AFFECTED	ALL AFFECTED

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



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