

Progressive Retinal Atrophy (GR_PR1)

Client Name:	Lauriaan Morton (LAU002)	Report No:	ZO2023/5532/20230428/#44588
Client Address:	Lauriaan Morton (LAU002) 23 Egret Street Welkom, Free State 9459 South Africa		
Phone:	0768783024		
Email:	lauriaan@vodamail.co.za		
Profile:	DG2023/47485	Species:	Canis lupus familiaris / Canine / Dog
Name:	Pawshappyness Kiara of Mortonouro	Microchip #:	981 020 002 401 782
Breed:	Golden Retriever	Registration #:	ZA002971B23
Test:	[GR_PR1] Progressive Retinal Atrophy (GR_PR1)		
Results:	c.2601_2602insC	-/-	CLEAR

Sample Type: Whole Blood (EDTA)	Extraction Method: DNA Extraction: D4069	Test Type: Genetic Health
[GR_PR1] Progressive Retinal Atrophy (GR_PR1) 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. PRA_GR1 is a late onset PRA discovered in Golden Retrievers responsible for 60% of PRA cases in Golden Retrievers. A single cytosine insertion at c.2601 in the SLC4A3 gene causes a shift in the reading frame and subsequent premature termination. PRA_GR1 is an autosomal recessive photoreceptor degenerative disease, where two copies of the mutation are required for an individual to be affected. References: Downs et al 2011. A Frameshift Mutation in Golden Retriever Dogs with Progressive Retinal Atrophy Endorses SLC4A3 as a Candidate gene for Human Retinal Degenerations. PLoS One 6(6), e21452.		

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The DNA profile is based on a preliminary marker panel that is subject to modification pending additional genetic information.

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