


Progressive Retinal Atrophy (GR_PR1)

Client Name:	Liane van der Hoven (LIA001)	Report No:	ZO2021/2813/20220722/#28761
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Profile:	DG2021/20146	Species:	Canis lupus familiaris / Canine / Dog
Name:	Bonyl Knox Cobolt	Microchip #:	945000001859583
Breed:	Golden Retriever	Registration #:	ZA005818B21
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)		
<p>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.</p> <p>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.</p> <p>PRA_GR1 is an autosomal recessive photoreceptor degenerative disease, where two copies of the mutation are required for an individual to be affected.</p> <p>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.</p>		

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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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