Inqaba Biotechnical Industries (Pty) Ltd
Animal Genetics Division

Co. Reg. No: 2001/011245/07
VAT No: 4150197251

Progressive Retinal Atrophy (GR_PR2)

Client Name:	Liane van der Hoven (LIA001)	Report No:	ZO2021/2813/20220722/#28762
Client Address:	Liane van der Hoven (LIA001) Earth Cottage Hemel-en-Aarde Valley (34°22'49.8"S 19°14'19.3"E) Hermanus, Western Cape 7200 South Africa		
Phone:	072 697 0841		
Email:	lianevanderhoven@gmail.com		
Profile:	DG2021/20146	Species:	Canis lupus familiaris / Canine / Dog
Name:	Bonyl Knox Cobolt	Microchip #:	945000001859583
Breed:	Golden Retriever	Registration #:	ZA005818B21

Test:	[GR_PR2] Progressive Retinal Atrophy (GR_PR2)		
Results:	c.699delA	AA	CLEAR

Sample Type: Whole Blood (EDTA) Extraction Method: DNA Extraction: D4069 Test Type: Genetic Health

[GR_PR2] Progressive Retinal Atrophy (GR_PR2)

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_GR2 is a late onset PRA discovered in Golden Retrievers responsible for 30% of PRA cases. This test detects a single adenine deletion at c.699 of the TTC8 gene causing a shift in the reading frame.

PRA_GR2 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 2014. A novel mutation in TTC8 is associated with progressive retinal atrophy in the golden retriever. Canine Genetics and Epidemiololgy 1(4).

Disclaimer:
Whatever is contained in this report is subject to the following:

This report does not disregard the existence of any rare or unknown variant within this gene or other gene(s) that may results in the same or similar trait. Multiple mutations and/or gene(s) may contribute to the overall trait observed.

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It is the responsibility of the client that all biological samples are available at submission or previously submitted and corresponds with all requested samples listed on the sample submission form. Inqaba Biotechnical Industries Pty Ltd and the divisions thereof does not accept responsibility for the effect of any absent samples on the analysis results.

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

It is the sender's responsibility to obtain permits when sending samples where required.

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No guarantees are made with regards to turn-around processing time and results, and no liability will be accepted for any delays.