# PROGRESSIVE RETINAL ATROPHY – GR2

REPORT NO.: SA2019/71518/0409/24

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|---|---|
| Client Name: | LIANE VAN DER HOVEN |
| Kennel Name: | |
| Client Address: | SUITE 69<br>PRIVATE BAG X16<br>7200 |
| Client Tel No.: | 072 697 0841 |

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|---|---|
| Canine Name: | BONYL MAGIC WILLOW |
| Breed: | GOLDEN RETRIEVER |
| Microchip No.: | 945000001729504 Registration No.: ZA008981B17 |
| Genetic Test: | PROGRESSIVE RETINAL ATROPHY – GR2 |
| Result: | CLEAR |

## PROGRESSIVE RETINAL ATROPHY – GR2 (PRA_GR2)

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.

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).

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

## BREEDING IMPLICATIONS

| | | MATERNAL CANDIDATE | | |
|---|---|---|---|---|
| | | CLEAR | CARRIER | AFFECTED |
| PATERNAL CANDIDATE | CLEAR | ALL CLEAR | 50% CLEAR<br>50% CARRIER | ALL CARRIER |
| | CARRIER | 50% CLEAR<br>50% CARRIER | 25% CLEAR<br>50% CARRIER<br>25% AFFECTED | 50% CARRIER<br>50% AFFECTED |
| | AFFECTED | ALL CARRIER | 50% CARRIER<br>50% AFFECTED | ALL AFFECTED |

Disclaimer: This report does not disregard the existence of any unknown or rare variant of TTC8 gene that may cause PRA, nor does it disregard the existence of any unknown or rare variant of any other gene that may cause or be associated with PRA in Golden Retrievers.



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