

Africa's Genomics Company



SA2019/67349/0114/03

TYROSINASE RELATED PROTEIN (TYRP1) LOCUS B

Client Name: NICOLE GERSTENBERG

Kennel Name:

Client Address: 27 BARRY STREET

HOUT BAY

7806

Client Tel No.: 082 218 6664

Canine Name: GLENAHOLM SHAKILA OF TAUTONGA

Breed: RHODESIAN RIDGEBACK

Microchip No.: 985111001210090 Registration No.: TYROSINASE RELATED PROTEIN (TYRP1) LOCUS B

Result: BCBC

THE B LOCUS TYROSINASE RELATED PROTEIN (TYRP1)

The B locus or Tyrosinase Related Protein TYRP1 gene is associated with eumelanin production. The B-locus described contains three mutations designated B^S for SNP site c.991C>T, B^C for SNP site c.121 T>A and B^D for indel site c.1033_1036delCCT of the TYRP1 gene. b^S, b^C and b^D represent the recessive alleles, and b^Sb^S, b^Cb^C and/or b^Db^D genotypes are required to confer the liver/chocolate colour.

Schmutz et al 2002. TYRP1 and MC1R genotypes and their effects on coat color in dogs. Mammalian Genome 7, pp380-387.

Schmutz and Berryere, 2007. Genes affecting coat colour and pattern in domestic dogs: a review. Animal Genetics 38, pp539-549.

SAMPLE TYPE: EDTA BLOOD AMPULE

EXTRACTION METHOD: DNA EXTRACTION

TEST TYPE: SANGER SEQUENCE DETECTION

REPORT NO.:

COLOUR IMPLICATIONS

E LOCUS	B LOCUS
EE/Ee	B ^s B ^s B ^c B ^c B ^o B ^o / B ^s b ^s B ^c B ^c B ^c B ^o B ^o / B ^s B ^s B ^c b ^c B ^o B ^o / B ^s B ^s B ^c b ^c B ^o b ^o
EE/Ee	b ^s b ⁵ B ^c B ^c B ^o B ^o / b ⁵ b ⁵ b ^c b ^c b ^c B ^o B ^o / b ⁵ b ⁵ b ^c b ^c b ^o b ^o / B ⁵ B ⁵ b ^c b ^c B ^o B ^o / B ⁵ B ⁵ b ^c b ^c b ^o b ^o / B ⁵ B ⁵ B ^c B ^c b ^o b ^o
ee	B ⁵ B ⁵ B ⁶ B ⁶ B ⁰ B ⁰ / B ⁵ b ⁵ B ⁶ B ⁶ B ⁰ B ⁰ / B ⁵ b ⁵ B ⁶ b ⁶ B ⁰ B ⁰ / B ⁵ b ⁵ B ⁶ b ⁶ B ⁰ B ⁰ / B ⁵ B ⁵ B ⁶ b ⁶ B ⁰ B ⁰ / B ⁵ B ⁵ B ⁶ b ⁶ B ⁰ B ⁰ / B ⁵ B ⁵ B ⁶ b ⁶ B ⁰ B ⁰ / B ⁵ b ⁵ B ⁶ b ⁶ b ⁶ D ⁰ / B ⁵ B ⁵ B ⁶ b ⁶ B ⁰ / B ⁵ B ⁵ B ⁶ B ⁶ B ⁰ / B ⁵ B ⁵ B ⁶ B ⁶ B ⁰ / B ⁵ B ⁵ B ⁶ B ⁶ B ⁰ / B ⁵ B ⁵ B ⁶ B ⁶ B ⁰ D ⁰

Disclaimer: This report does not disregard the existence of any unknown or rare variant of TYRP1 gene that may cause a liver/chocolate coat or nose. The final coat colour in many breeds is also influenced by other loci that are known/unknown.

