Legend: N/N = wild-type genotype. N/P = carrier of the mutation. P/P = mutated genotype (individual will be most probably affected with the disease). (N = negative, P = positive)

Explanation

Presence or absence of c.1216T>C mutation in SAG gene causing progressive retinal atrophy in Basenji was tested. Progressive retinal atrophy (Bas-PRA) with late onset photoreceptor degeneration has been described in Basenji breed. The signs occur at the age from 5 to 7 years. The first sign is loss of vision in dim light that worsens progressively and culminates in blindness.

Mutation that causes Bas-PRA in Basenji is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P genotype only. The dogs with N/P genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N, 25 % P/P and 50 % N/P.

Method: SOP172-BasPRA, direct DNA sequencing

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