

Detection of c.296G>A mutation in ARSG gene causing Neuronal Ceroid Lipofuscinosis in American Staffordshire Terrier and American Pit Bull Terrier

**Customer:** Мороз Наталья, ул.Ольштынская 44-3, 236039 г.Калининград, Russian Federation

**Sample:**

Sample: 20-30404

Date received: 30.11.2020

Sample type: blood

Information provided by the customer

**Name:** TOIR-PRESTIZH TITAN

**Breed:** American Staffordshire Terrier

Tattoo number: AAI 401

Microchip: 643 094 800 003 140

Reg. number: RKF 5600189

Date of birth: 14.04.2019

Sex: male

The identity of the animal has been checked by Ветеринарная лечебница г. Гвардейск

**Result: Mutation was not detected (N/N)**

**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.296G>A mutation in ARSG gene causing Neuronal Ceroid Lipofuscinosis (NCL) in American Staffordshire Terrier and American Pit Bull Terrier was tested. Mutation causing NCL in mentioned breeds is inherited as an autosomal recessive trait. That means the disease affects dogs with P/P (positive/positive) genotype only. The dogs with N/P (negative/positive) genotype are considered carriers of the disease (heterozygotes). In offspring of two heterozygous animals following genotype distribution can be expected: 25 % N/N (healthy non-carriers), 25 % P/P (affected), and 50 % N/P (healthy carriers).

Method: SOP182-NCLA, HRMA, accredited method

Date of issue: 03.12.2020

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Approved by: Ing. Irena Rusková, Analyst



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