

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

**Sample**

Sample: 18-13709  
Name: TOIR-PRESTIZH PRELEST  
Breed: American Staffordshire Terrier  
Tattoo number: AAI 377  
Microchip: 643 093 400 029 575  
Reg. number: RKF 4614433  
Date of birth: 01.09.2016  
Sex: female  
Date received: 18.05.2018  
Sample type: buccal swab  
The identity of the animal has been checked by E.H. Korkina

**Customer**

Moroz Natalia  
Ul. Olshtynskaya 44-3  
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**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

Report date: 23.05.2018

Responsible person: Ing. Irena Rusková, Analyst

Genomia is accredited according to ISO/IEC 17025:2005 under #1549.

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