

Detection of c.563G>T mutation in SLC2A9
gene causing hyperuricosuria in several dog
breeds

Customer: Darina Šablíj, Nováková 972, 29301 Mladá Boleslav, Czech Republic

Sample:

Sample: 22-29646

Date received: 26.10.2022

Sample type: buccal swab

Information provided by the customer

Name: CAPTAIN AMERICA AT Mystic Fire

Breed: Australian Shepherd

Microchip: 203 098 100 577 554

Reg. number: CMKU/AUO/7703/21

Date of birth: 17.05.2021

Sex: male

Date of sampling: 21.10.2022

The identity of the animal has been checked by MVDr. Petra
Orthová, KVL 4347

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.563G>T mutation in SLC2A9 gene causing hyperuricosuria in several dog breeds was tested. Disease affects for example Dalmatian dog, Bulldog, Black Russian Terrier, American Staffordshire Terrier, Retriever, Parson Russell Terrier, South African Boerboel, Waimaraner, Big Munsterland Pointer, German shepherd; occurrence in other dog breed is not excluded. Disease is characterised by excessive excretion of uric acid into the urine. Affected dogs suffer from formation of uric acid stones.

Mutation that causes hyperuricosuria 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: SOPAgriseq_canine, ngs

Date of issue: 20.12.2023

Date of testing: 08.12.2023 - 20.12.2023

Approved by: Mgr. Martina Šafrová, Laboratory Manager



Genomia s.r.o, Republikánská 6, 31200 Plzeň, Czech Republic
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999

Report verification code is: H74Y-2XQY-8M57-XE1E-XJXX. You can verify report online at www.genomia.cz

Without a written consent by the lab, the report must not be reproduced unless as a whole.

The result refers only to the sample as received. Genomia is not responsible for the accuracy of the information provided by the customer.