

**Sample**

Sample: 16-27701  
Name: Nikki Valatheca  
Breed: Great Swiss Mountain Dog  
Microchip: 953 010 000 206 316  
Reg. number: CMKU/VSP/2310/14/16  
Date of birth: 10.12.2014  
Sex: female  
Date received: 05.10.2016  
Sample type: blood  
The identity of the animal has been checked by  
MVDr. Aleš Jurovic

**Customer**

Lucie Macková  
Valšov 135  
79201 Bruntál  
Czech Republic

Result: N/N

**Explanation**

Presence of FGF5 gene variants influencing coat length in dogs was examined.

- If the result is N/N – the dog does not carry any variant specific for long hair – the dog has short hair
- If the result is N/FGF5 – the dog carries one copy of the variant FGF5 gene – the dog is short-haired, but it can give birth to long-haired offsprings, if suitably crossed.
- If the result is FGF5/FGF5 – the dog carries two variant alleles in the FGF5 gene – the dog is long-haired

Long coat phenotype is inherited in autosomal recessive trait. Long coated dogs have two variant alleles in the FGF5 gene (each from different parent). In case of mating two FGF5 carriers, theoretically, 25% long coated offspring will be born.

In some breeds, variant for long coat phenotype was not elucidated.

Method: SOP172-FGF5-dog, direct DNA sequencing

Report date: 10.10.2016

Responsible person: Mgr. Markéta Dajbychová, Deputy Laboratory Manager



Genomia s.r.o, Janáčkova 51, 32300 Plzeň, Czech Republic  
www.genomia.cz, laborator@genomia.cz, tel: +420 373 749 999