

**Customer:** Jan Novák, Dlouhá 1, 30000 Plzeň, Czech Republic

**Sample:**

Sample: 08-12345

Date received: 25.11.2008

Sample type: blood

Information provided by the customer

**Name:** Lassie DEMO

**Breed:** ---

Tattoo number: 1392013

Microchip: 123 456 789 012 345

Reg. number: REGQ12345

Date of birth: 31.12.1909

Sex: female

Date of sampling: 25.11.2008

The identity of the animal has been checked.

**Result:** S/s

**Explanation**

Presence or absence of SINE insertion (short interspersed nucleotide element) in canine MITF gene was tested. The SINE insertion was **only found** in dogs presenting the extreme white or piebald phenotypes (s/s), and was absent in Irish-spotted and solid dogs (S/S).

The s-allele causing extreme white coloring ( $s^w$ ) and piebald ( $s^p$ ) is inherited incompletely dominant. One copy of the s-allele results in a dog with less white markings (called the "trim" pattern). Homozygous status (s/s) causes piebald or extreme white coat color.

- S/S -> solid color
- S/s -> dog carries one SINE inserted allele ( $s^w$  or  $s^p$ ) -> less white markings, the  $s^w$  and  $s^p$  alleles cannot be distinguished by this test
- s/s -> the individual is homozygous for SINE insertion -> extremely white  $s^w/s^w$  or piebald  $s^p/s^p$  coat color appears

Method: SOP176-MITF-SINE, ASA-PCR

Date of issue: 30.11.2008

Date of testing: 25.11.2008 - 30.11.2008

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: 12AB-CD34-GENO-MIA0-EFGH. You can verify report online at [www.genomia.cz](http://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.