

# GENETIC IDENTIFICATION CERTIFICATE

191 / 27702 / 4

**Mr Joël KUHLMANN**  
 Vorumaa-Meremae Vald  
 Palsi Talu  
 65319 Miikse Küla  
 Estonia

Name : **Felallo-Fülü Mako**

Breed : **Pumi**

Identification Nu : **972270000263534**

Pedigree Nu :

Sex : **Male**

Birth's date : **09/05/2013**

Sampler : Veterinarian

**Dr P. TOBIAS**

(Võru, 65604)

Sampler Nu : **671**

Sampling date : **15/07/2013**

Sample type : **Cheek swab**

Sample Nu : **413533**

Receipt date : **25/07/2013**

Case : 81773 / 42425 / 201306397 - 25/07/2013

Reference : 27702 / 19716 / 92923

Result code : **100720**

## Genetic profile

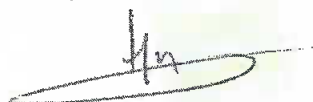
AHT130	AHT171	AHT260	AHTk211	AHTk253	AHT121	AHT137	Amelogenin	CXX279	FH2054	FH2848
<b>MO</b>	<b>KK</b>	<b>LM</b>	<b>L-</b>	<b>KO</b>	<b>LL</b>	<b>HH</b>	<b>XY</b>	<b>JJ</b>	<b>CC</b>	<b>HI</b>

INRA21	INU005	INU030	INU055	REN105L03	REN162C04	REN169D01	REN169O18	REN247M23	REN54P11	REN64E19
<b>JM</b>	<b>--</b>	<b>JM</b>	<b>LP</b>	<b>LP</b>	<b>LM</b>	<b>JN</b>	<b>MP</b>	<b>JJ</b>	<b>KQ</b>	<b>MN</b>

ISAG2006 / AHT130:127131 / AHT171:225225 / AHT260:244246 / AHT211:91- / AHTk253:284292 / AHT121:9898 / AHT137:133133 / AMELOGENIN:XY / C22.279:116116 / FH2054:156156 / FH2848:228230 / INRA 21:95101 / INU005:-- / INU030:144150 / INU055:210218 / REN105L03:233241 / REN162C04:204206 / REN169D01:210218 / REN169O18:164170 / REN247M23:268268 / REN54P11:226238 / REN64E19:145147

Result established on the : 01/08/2013

Lina MUSELET  
 Engineer in genetics



### Explanations:

The genetic profile is built from allelic combination of polymorphic microsatellite markers of the ISAG 2006 panel. At each microsatellite locus, the dog shows two alleles symbolized by a letter (A to Z). When the symbol (-) is present, it indicates that the genetic marker could not be amplified or analysed (this phenomenon is rare but could occur in some breeds or dogs; nevertheless, the remaining markers provide enough information to identify the dog). Probability to obtain different genetic profiles for any individual taken by chance in the population is higher than 99% (except for true twins, for which genetic profiles are identicals). Comparison of two genetic profiles, independently established, allows to verify the genetic identity of a dog. Comparison of genetic profiles between adults and puppies allows to verify their parentage.

# Genetic identification card

name : **Felallo-Fülü Mako**

breed : Pumi

sex : Male

birth's date : 09/05/2013

identification : 972270000263534

pedigree :

sampler :

Dr P. TOBIAS

(Vöru, 65604)

date : 15/07/2013

number : 413533

AHT130	AHT171	AHT280	AHT211	AHT253	AHT121	AHT137	Amelgann	COQ279	FH2054	FH2828
MO	KK	LM	L-	KO	LL	HH	XY	JJ	CC	HI

NRA21	NU05	NU30	NU35	REN103L03	REN162C04	REN186O01	REN189O18	REN247M23	REN54P11	REN64E19
JM	--	JM	LP	LP	LM	JN	MP	JJ	KQ	MN