

Certificate of DNA analysis of an animal in professional breeding programs

Owner / Breeder

Surname and name: Cooke Kelly
Address: 375 Price Road
 59752 Three Forks, MT, USA
Phone: 406-580-2514
E-mail: kelly@outwestaussies.com

Animal and Sample:

Species: Dog
Breed: Australian Shepherd
Name of the animal: **OUT WEST JUNO CRAZY**
Sex: Female **Date of birth:** 18.4.2013
Chip number: DN32353902 **Tattoo number:**
Date of sample receipt: 4.5.2018 13:15:00 **Reg. number:**
Date of result release: 11.5.2018 09:19:00
Biological material: Buccal swab
Sampled by: Owner

Description of the molecular technology used:

Total DNA has been isolated from the sampled biological material. PCR amplification of all specified molecular targets (see table of this Document) has been followed by fragment analysis using ABI3500 capillary sequencer and bioinformatic analysis.

Precise specification of the analyzed genetic abnormalities, results and their interpretation:

Genetically determined disease	Associated gene	Specification of the mutation	Genetic description of the result
--------------------------------	-----------------	-------------------------------	-----------------------------------

Merle coat pattern	SILV	SINE insertion (m/Mc/Mc+/Ma/Ma+/M/Mh)	m/Mh
--------------------	------	---------------------------------------	------

Mh: SINE insertion ~269 bp

Interpretation of the genetic description and terminology:

Wild type: m/m - neither of the investigated alleles of the gene harbor SINE insertion

Heterozygous mutation - one of the investigated alleles harbor SINE insertion, the other is wild type (without SINE insertion)

Compound heterozygous mutation - both investigated alleles of the gene harbor a SINE insertion

Homozygous mutation - both investigated alleles of the gene harbor the same SINE insertion

Cryptic Merle: Mc - the length of SINE insertion ranges from 200 to 230 bp

Mc+ - the length of SINE insertion ranges from 231 to 246 bp

Atypical Merle: Ma - the length of SINE insertion ranges from 247 to 254 bp

Ma+ - the length of SINE insertion ranges from 255 to 264 bp

Merle: M - the length of SINE insertion ranges from 265 to 268 bp

Harlequin Merle: Mh - the length of SINE insertion ranges from 269 to 280 bp

Result number: **AF991/11220**
Date of result release: 11.5.2018

VEMODIA a.s.
 Headquarters: nám. Svobody 527 739 6 Třinec
 Laboratory V Hůrkách 2144/3 158 00 Praha - Stodůlky

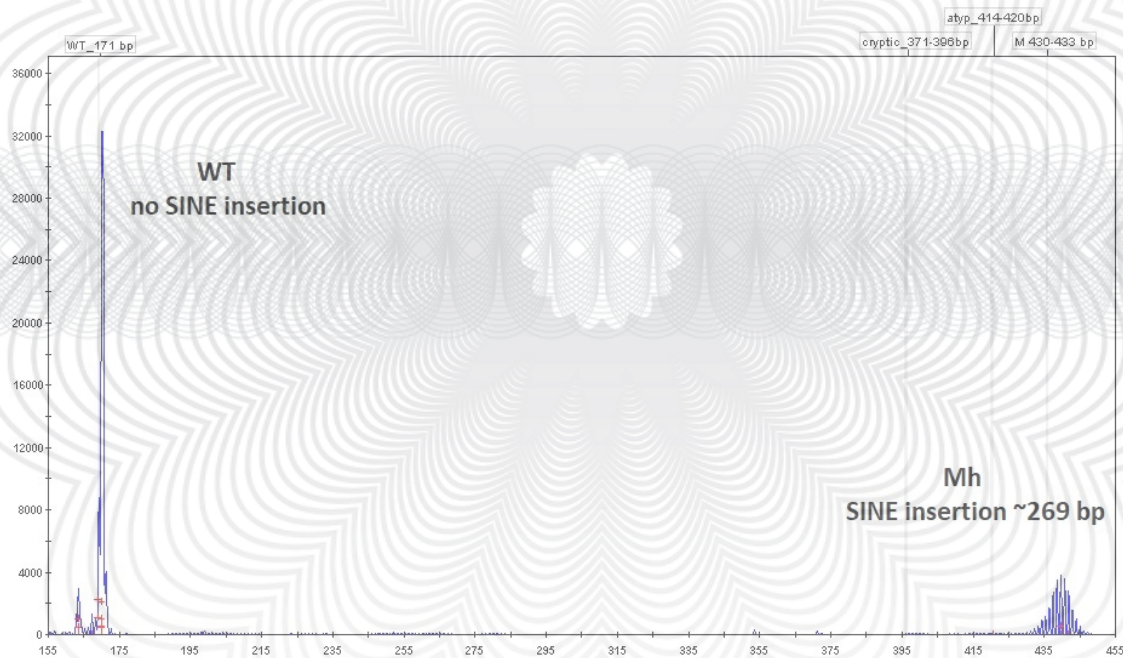
ID 26511738 VAT CZ26511738 +420230234001
 Společnost vedená u krajského soudu v info@vemodia.cz
 Ostravě, oddíl B, vložka 10600 www.vemodia.cz

Disclaimer: The results are pertinent only to the sample tested. The protocol can only be interpreted in its complete form unless officially approved by the laboratory.

Certificate of DNA analysis of an animal in professional breeding programs

Animal and Sample:

Species: Dog
Breed: Australian Shepherd
Name of the animal: **OUT WEST JUNO CRAZY**
Sex: Female
Chip number: DN32353902
Biological material: Buccal swab
Date of birth: 18.4.2013
Tattoo number:



AF991
Out West Juno Crazy

Result number: **AF991/11220**

VEMODIA a.s.
Headquarters: nám. Svobody 527 739 6 Třinec
Laboratory V Hůrkách 2144/3 158 00 Praha - Stodůlky

ID 26511738 VAT CZ26511738
Společnost vedená u krajského soudu v
Ostravě, oddíl B, vložka 10600
Page 2 / 2

+420230234001
info@vemodia.cz
www.vemodia.cz