

## Canine Genetic Testing Report



Submitted By  
Harvey Miller  
South Prairie Kennel  
129 N Country Rd 200 E  
Arcola, IL 61910

**Subject Dog** 00126664 Date Received: 7/13/2018

Dog Name: **Macey's Mickey** Registration:  
Breed: French Bulldog Sex: Female  
Phenotype: Lilac Birth: 06/28/2018

**Sire**

Sire Name: 5 Stars Lilac Lance  
Breed: French Bulldog  
Registration: NP41814504  
Phenotype: Cream & Lilac

**Dam**

Dam Name: 5 Stars Macey  
Breed: French Bulldog  
Registration: NP45804703  
Phenotype: Brindle

Coat Color Testing			
X	A Locus-Ay	<b>AY/AY</b>	Dog has two copies of the gene responsible for fawn/sable coat color.
X	A Locus-At	<b>n/n</b>	Dog does not carry the tan points/tricolor gene.
X	A Locus-a	<b>n/n</b>	Dog does not carry the gene responsible for recessive black coat color.
X	B Locus	<b>B/B</b>	Dog does not carry the brown allele, and can never pass on the gene for brown to future offspring.
X	D Locus	<b>d/d</b>	Dog is homozygous for the dilution gene. The dog will always pass on a copy of the dilution gene to any offspring.
X	E Locus- EM	<b>n/EM</b>	Dog has one copy of the allele for melanistic mask
X	E Locus- e	<b>E/e</b>	Dog carries the allele responsible for the yellow coat color, and could pass on either allele to any offspring.
X	K Locus-KB	<b>n/n</b>	Dog does not have the dominant black gene, and the color pattern is determined by the Agouti gene.
X	Spotting	<b>N/S</b>	Dog carries one copy of the spotting or parti-color gene, and can pass it on to any offspring.
	Harlequin		<i>Not Tested</i>
	Merle		<i>Not Tested</i>

Genetic Disorders		
	CMR1	<i>Not Tested</i>
	cord1-PRA	<i>Not Tested</i>
	DM	<i>Not Tested</i>
	HUU	<i>Not Tested</i>
	JHC	<i>Not Tested</i>

Coat Type Testing		
	Hair Length	<i>Not Tested</i>
	Hair Curl	<i>Not Tested</i>
	Furnishings	<i>Not Tested</i>
	Bobtail	<i>Not Tested</i>
	Shedding	<i>Not Tested</i>

Genetic Marker Results							Run Date:
-	-	-	-	-	-	-	<i>Not Tested</i>
AHT121	AHT137	AHT171	AHT260	AHTk211	AHTk253	C22-279	
-	-	-	-	-	-	-	
CAN-AMEL	FH2054	FH2848	INRA21	INU005	INU030	INU055	
-	-	-	-	-			
REN54P11	REN162C04	REN169D01	REN169O18	REN247M23			

**Additional Comments**

A-Panel: Ay/Ay-Homozygous for fawn/ sable.  
E-Panel: EM/e-Dog has one copy of the melanistic mask allele and one copy of the recessive yellow allele.

## Canine Genetic Health Certificate™

<b>Call Name:</b>	Mickey	<b>Laboratory #:</b>	150401
<b>Registered Name:</b>	-	<b>Registration #:</b>	-
<b>Breed:</b>	French Bulldog	<b>Certificate Date:</b>	Oct. 24, 2019
<b>Sex:</b>	Female		
<b>DOB:</b>	June 2018		

**This canine's DNA showed the following genotype(s):**

Disease	Gene	Genotype	Interpretation
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (clear)
Hereditary Cataracts	<i>HSF4</i>	WT/WT	Normal (clear)
Hyperuricosuria	<i>SLC2A9</i>	WT/WT	Normal (clear)
Multifocal Retinopathy 1	<i>BEST1</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4	<i>RPGRIP1</i>	WT/WT	Normal (clear)

WT, wild type (normal); M, mutant; Y, Y chromosome (male)



**Christina J Ramirez, PhD, DVM, DACVP**  
 Medical Director



**Casey R Carl, DVM**  
 Associate Medical Director

Paw Print Genetics® performed the tests listed on this dog. See the Laboratory Report for interpretation and recommendations based on these findings. The genes/diseases reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause medical problems or may be passed on to offspring. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the tests' accuracy and precision. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results. Genetic counseling is available at Paw Print Genetics.

## Coat Color and Trait Certificate

<b>Call Name:</b>	Mickey	<b>Laboratory #:</b>	150401
<b>Registered Name:</b>	-	<b>Registration #:</b>	-
<b>Breed:</b>	French Bulldog	<b>Certificate Date:</b>	July 11, 2022
<b>Sex:</b>	Female		
<b>DOB:</b>	June 2018		

**This canine's DNA showed the following genotype(s):**

Coat Color/Trait Test	Gene	Genotype	Interpretation
L Locus (Long Hair/Fluffy) - Lh <sup>1</sup> (Common Variant Found in Many Breeds)	FGF5	Sh/Lh	Shorthaired (carries one copy of long hair)
L Locus (Long Hair/Fluffy) - Lh <sup>4</sup> (Afghan Hound, Eurasier, French Bulldog Type)	FGF5	Sh/Sh	Shorthaired (does not carry long hair)

### Interpretation:

This dog carries one copy of **Sh** and one copy of **Lh<sup>1</sup>** making the overall L locus genotype of this dog **Sh/Lh**. The overall L locus genotype for a dog is determined by the combination of the genotypes at the Lh<sup>1</sup> and Lh<sup>4</sup> loci. The Lh<sup>1</sup> and Lh<sup>4</sup> variants confer long hair when at least one of these changes is present on both genes of the dog at the L Locus. If the dog has one or no copies of Lh, the dog will have a short coat. However, the overall coat type of this dog is dependent on the combination of this dog's genotypes at the L, Cu, and IC loci. This dog will pass **Sh** on to 50% of its offspring and **Lh<sup>1</sup>** to 50% of its offspring.

Paw Print Genetics® has genetic counseling available to you at no additional charge to answer any questions about these test results, their implications and potential outcomes in breeding this dog.



**Blake C Ballif, PhD**  
 Laboratory & Scientific Director



**Christina J Ramirez, PhD, DVM, DACVP**  
 Medical Director

Paw Print Genetics® performed the testing on the dog listed on this certificate. The genes/traits reported here were selected by the client. Normal results do not exclude inherited mutations not tested in these or other genes that may cause variation in traits, medical problems or may be passed on to offspring. The results included in this report relate only to the items tested using the sample provided. These tests were developed and their performance determined by Paw Print Genetics. This laboratory has established and verified the test[s] accuracy and precision with >99.9% sensitivity and specificity. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a breed identification test. Because all tests performed are DNA-based, rare genomic variations may interfere with the performance of some tests producing false results. If you think any results are in error, please contact the laboratory immediately for further evaluation. In the event of a valid dispute of results claim, Paw Print Genetics will do its best to resolve such a claim to the customer's satisfaction. If no resolution is possible after investigation by Paw Print Genetics with the cooperation of the customer, the extent of the customer's sole remedy is a refund of the fee paid. In no event shall Paw Print Genetics be liable for indirect, consequential or incidental damages of any kind. Any claim must be asserted within 60 days of the report of the test results.