

Coat Color and Trait Certificate

Call Name:	blue collar	Laboratory #:	147184
Registered Name:	-	Registration #:	-
Breed:	Australian Labradoodle	Microchip #:	952000001150799
Sex:	Male	Certificate Date:	Sept. 25, 2019
DOB:	June 2019		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
B Locus (Brown)	<i>TYRP1</i>	B/b or b/b	Carries brown and may have brown or black coat, nose and foot pads
IC Locus (Improper Coat/Furnishings)	<i>RSPO2</i>	F/IC	Furnishings (improper coat carrier)

Interpretation:

The overall B locus genotype for a dog is determined by the combination of genotypes present at the b^c , b^d , and b^s loci. The b^c , b^d , and b^s variants confer brown when at least one of these DNA changes is present on both genes of the dog at the B locus. This dog carries two copies of **B** at the b^s locus. In addition, this dog carries one copy of **B** and one copy of **b** at both the b^c and b^d loci. The presence of both these variants on a single copy of the gene cannot be excluded. Thus, due to the particular combination of variants detected, the overall B locus genotype of this dog is **B/b** or **b/b** and cannot be determined without additional testing of parental samples. Therefore, this dog carries brown and may have brown or black coat, nose and foot pads.

If the b^c and b^d variants each occur on separate copies of the B locus, the dog will be brown (**b/b**). However, if these variants occur on the same copy of the gene, the dog will be black (**B/b**). Therefore, the final B locus genotype for this dog can be inferred by evaluating the color of this dog's nose. If this dog's nose is brown, the final B locus genotype of this dog is **b/b** and this dog will pass on **b** to 100% of its offspring. If this dog's nose is black, the final B locus genotype of this dog is **B/b** and this dog will pass on **b** to 50% of its offspring. If this dog is B/b it can produce offspring with a black or brown coat, nose and foot pads. However, this dog's coat color is also dependent on the E, K, and A genes.

This dog carries one copy of the mutation for improper coat (**IC**) and one copy of **F** and will therefore have furnishings (proper 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 **IC** (improper coat) on to 50% of its offspring and **F** (furnishings, proper coat) to 50% of its offspring. Therefore, this dog can produce puppies with improper coat if bred with a dog that carries one copy (**F/IC**) or two copies (**IC/IC**) of the mutation for improper coat.

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.



Helen F Smith, PhD
Assistant Laboratory Director



Christina J Ramirez, PhD, DVM, DACVP
Medical Director

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.