Coat Color and Trait Certificate

Call Name:	Annie	**Laboratory #:**	416079
Registered Name:	Devanley's Hey Do You Want To Party	**Registration #:**	SS21388402
Breed:	Labrador Retriever	**Microchip #:**	956000012707553
Sex:	Female	**Certificate Date:**	Sept. 8, 2023
DOB:	Sept. 2020		

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

Coat Color/Trait Test	Gene	Genotype	Interpretation
D Locus (Dilute)	*MLPH*	D/D	Non-dilute (does not carry dilute)
E Locus	*MC1R*	E/e^1	Black

Interpretation:

This dog does not carry any copies of the d^1, d^2, or d^3 mutations and has a D locus genotype of D/D which does not result in the dilution or lightening of the pigments that produce the dog's coat color. This dog will pass one copy of D to 100% of its offspring and cannot produce d/d dogs.

This dog carries one copy of E and one copy of e^1 which allows for the production of black pigment. However, this dog's coat color is also dependent on the K, A, and B genes. This dog will pass E on to 50% of its offspring and e^1 to 50% of its offspring, which can produce a yellow/red coat (including shades of white, cre^3m, yellow, apricot or red) if inherited with another copy of e^1, e^2, or e^3.

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
Associate Laboratory Director

Christina J Ramirez, PhD, DVM, DACVP
Medical Director