AnimalGenetics
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Tallahassee, FL 32308

Generated On: **5/18/2020**

Canine Genetic Testing Report

Submitted By
Callie Brown Goldendoodles Forever 14987 Budd Rd Dubuque, IA 52002

Subject Dog 00188138 Date Received: 5/9/2020

Dog Name: **GDF's Molly**
Breed: Goldendoodle
Phenotype: Apricot
Registration: TLM05243288
Microchip: 981020029075497
Sex: Female
Birth:

Sire

Sire Name: GDF's Oliver
Breed:
Registration:
Phenotype:

Dam

Dam Name: GDF's Greddy
Breed:
Registration:
Phenotype:

Coat Color Testing

	A Locus-Ay		Not Tested
	A Locus-Aw		Not Tested
	A Locus-At		Not Tested
	A Locus-a		Not Tested
	B Locus		Not Tested
	D Locus		Not Tested
	E Locus- EM		Not Tested
	E Locus- e		Not Tested
	K Locus-KB		Not Tested
	Spotting		Not Tested
	Harlequin		Not Tested
	Merle		Not Tested

Coat Type Testing

	Hair Length		Not Tested
	Hair Curl		Not Tested
	Furnishings		Not Tested
	Bobtail		Not Tested
	Shedding		Not Tested

Genetic Disorders

X	CDDY	N/C	Dog has 1 copy of CDDY. Dog is at higher risk for IVDD.
X	CDPA	N/N	Dog is negative for the CDPA mutation.
	DM		Not Tested
	GR-PRA1		Not Tested
	GR-PRA2		Not Tested
	Ich		Not Tested
	MD		Not Tested
	NEwS		Not Tested
	prcd-PRA		Not Tested
	vWD1		Not Tested

Genetic Marker Results

Run Date: Not Tested

-	-	-	-	-	-	-
AHT121	AHT137	AHTh171	AHTh260	AHTk211	AHTk253	C22-279
-	-	-	-	-	-	-
CAN-AMEL	FH2054	FH2848	INRA21	INU005	INU030	INU055
-	-	-	-	-		
REN54P11	REN162C04	REN169D01	REN169O18	REN247M23		

Additional Comments

None

Paw Print Genetics
A division of Genetic Veterinary Sciences, Inc.

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Laboratory Report

Laboratory #:	129795	**Call Name:**	Molly
Order #:	57067	**Registered Name:**	-
Ordered By:	Callie Brown	**Breed:**	Goldendoodle
Ordered:	March 21, 2019	**Sex:**	Female
Received:	April 15, 2019	**DOB:**	Jan. 2019
Reported:	April 24, 2019	**Registration #:**	-
		Microchip #:	981020029075497

Results:

Disease	Gene	Genotype	Interpretation
Degenerative Myelopathy	*SOD1*	WT/WT	Normal (clear)
Ichthyosis (Golden Retriever Type)	*PNPLA1*	WT/WT	Normal (clear)
Neonatal Encephalopathy with Seizures	*ATF2*	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Golden Retriever 1	*SLC4A3*	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Golden Retriever 2	*TTC8*	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	*PRCD*	WT/M	Carrier
Von Willebrand Disease I	*VWF*	WT/WT	Normal (clear)

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

Interpretation:

Molecular genetic analysis was performed for seven specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in six of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these six mutations. However, we identified one normal copy and one mutant copy of the DNA sequences for *PRCD*. Thus, this dog is a carrier of Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration.

Recommendations:

Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *PRCD* gene, this dog is a carrier of this disease. Although dogs that carry only one copy of this mutation will not be clinically affected, if bred with another carrier, the pairing could produce affected offspring. To avoid producing affected offspring, this dog should be bred with dogs that are normal (WT/WT) for this gene. Dogs related to this dog have an increased risk to be affected by or carry the mutated gene. Additional testing for this mutation is indicated for related dogs.

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

Casey R Carl, DVM
Associate 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.