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

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Laboratory Report

Laboratory #:	30425	**Call Name:**	Charlie
Order #:	12180	**Registered Name:**	Creampuff's Jersey Boy
Ordered By:	Olivia Matyear	**Breed:**	Australian Labradoodle
Ordered:	June 15, 2016	**Sex:**	Male
Received:	June 27, 2016	**DOB:**	June 2015
Reported:	July 8, 2016	**Registration #:**	1AFC7F

Results:

Disease	Gene	Genotype	Interpretation
Centronuclear Myopathy	*PTPLA*	WT/WT	Normal (clear)
Cystinuria (Labrador Retriever Type)	*SLC3A1*	WT/WT	Normal (clear)
Degenerative Myelopathy	*SOD1*	WT/WT	Normal (clear)
Exercise-Induced Collapse	*DNM1*	WT/WT	Normal (clear)
Familial Nephropathy (Cocker Spaniel Type)	*COL4A4*	WT/WT	Normal (clear)
Glycogen Storage Disease VII, PFK Deficiency	*PFKM*	WT/WT	Normal (clear)
Myotubular Myopathy 1	*MTM1*	WT/WT	Normal (clear)
Narcolepsy (Labrador Retriever Type)	*HCRTR2*	WT/WT	Normal (clear)
Neonatal Encephalopathy with Seizures	*ATF2*	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	*PRCD*	WT/WT	Normal (clear)
Von Willebrand Disease I	*VWF*	WT/WT	Normal (clear)

WT, wild type (normal); M, mutant

Interpretation:

Molecular genetic analysis was performed for 11 specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in the mutations tested.

Recommendations:

No mutations were identified. Thus, this dog is not at an increased risk for the diseases caused by or associated with the mutations tested. Because this dog is "clear" of these mutations, this dog will only pass the normal genes on to its offspring. 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. 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.

Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration was performed under an exclusive sublicense from OptiGen®, LLC

Christina J Ramirez, PhD, DVM, DACVP
Medical 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.

ANTECH Imaging Services

PennHIP

Reference #: 930065
Report Date: 6 Jul 2016
Date Received: 6 Jul 2016

Referring Veterinarian:
DR. JAMES BELL
ANIMAL MEDICAL CLINIC
8223 FM 471 S
CASTROVILLE, TX 78009
UNITED STATES

Patient ID: 201622103128
Radiography Date: 2 Feb 2016

Owner/Responsible Person:
MATYEAR, OLIVIA MATYEAR, OLIVIA

Patient:

Patient Name: JERSY BOY 985112006261348
Reg. Name:
Reg. #:
Microchip:
Tattoo:

Species: CANINE
Breed: LABRADOODLE
Date of Birth: 14 Jun 2015 Age: 8 mo.
Gender: M Weight: 34 lbs

RESULTS

LEFT	Distraction Index (DI)	**0.51**	DI is greater than 0.30 with no radiographic evidence of OA. There is increasing risk of developing OA as the DI increases; low risk when D close to 0.30, high risk when DI is close to 0.70 or above.
	Osteoarthritis (OA)	**None**	
	Cavitation	**No**	
	Other Findings	Not Applicable	
RIGHT	Distraction Index (DI)	**0.50**	DI is greater than 0.30 with no radiographic evidence of OA. There is increasing risk of developing OA as the DI increases; low risk when DI close to 0.30, high risk when DI is close to 0.70 or above.
	Osteoarthritis (OA)	**None**	
	Cavitation	**No**	
	Other Findings	Not Applicable	

Please note that the PennHIP DI is a measure of hip joint laxity, it does not allude to a "passing" or "failing" hip score.

LAXITY PROFILE RANKING

The laxity profile ranking is based on the hip with the greater laxity (DI). This interpretation is based on a cross-section of 4,509 CANINE animals of the LABRADOODLE breed. The median DI for this group is 0.50.

Percentiles										
	90th	80th	70th	60th	50th	40th	30th	20th	10th	
> 90th					Median					< 10th

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The chart above indicates the ranking of your animal's passive hip laxity (DI) in relation to all CANINE animals of the LABRADOODLE bre in our database. Your animal's hip laxity lies within the 50th percentile or median range. Breed-specific evaluations are analyzed semi-annually. Consequently, the average laxity and range of laxity for any given group will change over time.

PennHIP does not make specific breeding recommendations. Selection of sire and dam for mating is the decision of the breeder.

NOTE: As a minimum breeding criterion, we propose that breeding stock be selected from the population of animals having hip laxity in the tighter half of the breed (to the left of the median mark on the graph). Higher selection pressure equates to more rapi expected genetic change per generation.

By implementing selection based on passive hip laxity, we expect the breed average DI over the years to move toward tighter hip configuration, meaning lower hip dysplasia susceptibility. The PennHIP database permits scientific adjustment of criteria to reflect these shifts; the average laxity and range of laxity for a particular breed will change over time.

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www.antechimagingservices.com/pennhip

Dog 30425 - Charlie

Below are the results for all tests ordered on Charlie.

The **reports provided** for this dog include an explanation of the results as they relate to the tests performed. Please refer to these reports for additional detail to help interpret your dog's results.

Diseases

Test	Genotype*	Interpretation	Test Date	Paw Print Pedigrees
Centronuclear myopathy	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Cystinuria (Labrador Retriever type)	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Degenerative myelopathy	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Exercise-induced collapse	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Familial nephropathy (Cocker Spaniel type)	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Glycogen storage disease VII, PFK Deficiency	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Myotubular myopathy 1	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Narcolepsy (Labrador Retriever type)	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Neonatal encephalopathy with seizures	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Progressive retinal atrophy, Progressive rod-cone degeneration	WT/WT	Normal (clear)	July 8, 2016	Not Shared
Von Willebrand disease I	WT/WT	Normal (clear)	July 8, 2016	Not Shared