

Laboratory Report

Laboratory #:	35592	Call Name:	Kobee
Order #:	14688	Registered Name:	Waltzing Matilda's Kobee's Royal Flush
Ordered By:	Carla Walker	Breed:	Australian Labradoodle
Ordered:	Sept. 21, 2016	Sex:	Male
Received:	Dec. 30, 2016	DOB:	Nov. 2014
Reported:	Jan. 11, 2017	Registration #:	137-11122014-040-LD1
		Microchip #:	956000003889842

Results:

Disease	Gene	Genotype	Interpretation
Degenerative Myelopathy	<i>SOD1</i>	WT/WT	Normal (clear)
Exercise-Induced Collapse	<i>DNM1</i>	WT/M	Carrier
Hereditary Nasal Parakeratosis	<i>SUV39H2</i>	WT/WT	Normal (clear)
Neonatal Encephalopathy with Seizures	<i>ATF2</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4	<i>RPGRIP1</i>	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	<i>PRCD</i>	WT/WT	Normal (clear)
Von Willebrand Disease I	<i>VWF</i>	WT/WT	Normal (clear)

WT, wild type (normal); M, mutant

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 *DNM1*. Thus, this dog is a carrier of Exercise-Induced Collapse.

Recommendations:

Exercise-Induced Collapse is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *DNM1* 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.