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## **Laboratory Report**

**Laboratory #:** 71087 **Call Name:** Chance

Order #: 31053 Registered Name: KissMe Take A Chance

Ordered By: Judy Challinger Breed: Miniature American Shepherd

 Ordered:
 Nov. 24, 2017
 Sex:
 Male

 Received:
 Dec. 14, 2017
 DOB:
 July 2016

 Reported:
 Dec. 21, 2017
 Registration #:
 DN47030602

## **Results:**

Disease	Gene	Genotype	Interpretation
Collie Eye Anomaly	NHEJ1	WT/WT	Normal (clear)
Cone Degeneration	CNGB3	WT/WT	Normal (clear)
Degenerative Myelopathy	SOD1	WT/WT	Normal (clear)
Hereditary Cataracts (Australian Shepherd Type)	HSF4	WT/WT	Normal (clear)
Hyperuricosuria	SLC2A9	WT/M	Carrier
Multidrug Resistance 1	ABCB1	WT/WT	Normal (clear)
Multifocal Retinopathy 1	BEST1	WT/WT	Normal (clear)
Neuronal Ceroid Lipofuscinosis 6	CLN6	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	PRCD	WT/WT	Normal (clear)

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

## Interpretation:

Molecular genetic analysis was performed for nine specific mutations reported to be associated with disease in dogs. We identified two normal copies of the DNA sequences in eight of the mutations tested. Thus, this dog is not at an increased risk for the diseases associated with these eight mutations. However, we identified one normal copy and one mutant copy of the DNA sequences for *SLC2A9*. Thus, this dog is a carrier of Hyperuricosuria.

## **Recommendations:**

Hyperuricosuria is inherited in an autosomal recessive fashion. Based on this, and the fact that this dog showed a mutation in one copy of the *SLC2A9* 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<sup>®</sup> 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.

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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.