

## Dog Information

<b>Clarence</b> NAME	<b>Male</b> SEX
<b>Cavalier King Charles Spaniel</b> BREED ANCESTRY	-- DATE OF BIRTH
n/a REGISTRATION	n/a MICROCHIP

**Andrew Hershberger**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**August 10th, 2022**  
TEST DATE

## BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
<b>Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis, Dry Eye Curly Coat Syndrome, CKCSID</b>	<b>FAM83H</b>	<b>NN</b>	<b>Clear</b>	
<b>Degenerative Myelopathy, DM</b>	<b>SOD1(A)</b>	<b>GG</b>	<b>Clear</b>	
<b>Episodic Falling Syndrome</b>	<b>BCAN (Exons 1-4)</b>	<b>NN</b>	<b>Clear</b>	
<b>Muscular Dystrophy</b>	<b>DMD</b>	<b>GY</b>	<b>Clear</b>	
<b>Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD</b>	<b>FGF4 - chr12</b>	<b>I/I</b>	<b>2 Variants</b>	
<b>Golden Retriever Progressive Retinal Atrophy 1, GR-PRA1</b>	<b>SLC4A3 Exon 16</b>	<b>NI</b>	<b>1 Variant</b>	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		30%
MHC Class II - DLA DRB1		Low Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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## TRAIT TESTS (1/2)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark hairs anywhere	ee
K Locus (CBD103)	Not expressed	k <sup>y</sup> k <sup>y</sup>
Intensity Loci LINKAGE	Any pigmented hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a <sup>+</sup> a <sup>t</sup>
D Locus (MLPH)	Not expressed	DD
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Likely black colored nose/feet	BB
Saddle Tan (RALY)	Not expressed	ll
S Locus (MITF)	Likely flash, parti, piebald, or extreme white	spsp
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A) LINKAGE	Likely no impact on coat pattern	rr
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll

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## TRAIT TESTS (2/2)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Smaller	II
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Smaller	AA
Body Size (GHR - E191K)	Smaller	AA
Body Size (GHR - P177L)	Smaller	TT

  

Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN