

Dog Information

Winnie	Female
NAME	SEX
Cavalier King Charles Spaniel	January 1st, 2023
GENETIC BREED	DATE OF BIRTH
American Kennel Club (AKC)	n/a
REGISTRATION	MICROCHIP






Melissa Miller
OWNER NAME

Canine Genetic Health Screen
TEST

January 13th, 2024
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
Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis, Dry Eye Curly Coat Syndrome, CKCSID	FAM83H	NN	Clear	
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Episodic Falling Syndrome	BCAN (Exons 1-4)	NN	Clear	
Muscular Dystrophy	DMD	GG	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	I/I	2 Variants	
Proportionate Dwarfism	GH1 Exon 5	ND	1 Variant	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		29%
MHC Class II - DLA DRB1		Low Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	No dark hairs anywhere	ee
K Locus (CBD103)	Not expressed	k ^Y k ^Y
Intensity Loci	Any pigmented hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Not expressed	a ^t a ^t
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	II
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
R Locus (USH2A)	Likely no impact on coat pattern	rr

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TRAIT TESTS (2/3)

	RESULT	GENETIC RESULT
Coat Color		
H Locus (Harlequin)	No harlequin alleles	hh
	RESULT	GENETIC RESULT
Other Coat Traits		
Furnishings (RSP02)	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely long coat	LhLh
Shedding (MC5R)	Likely light shedding	TT
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (FOXI3)	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2)	Likely not albino	NN
	RESULT	GENETIC RESULT
Other Body Features		
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC

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TRAIT TESTS (3/3)

Other Body Features		RESULT	GENETIC RESULT
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Not indicative of chondrodysplasia (normal leg length)		NN
Blue Eye Color (ALX4)	Less likely to have blue eyes		NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling		CC
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)	Normal food motivation		NN