

Dog Information

Sunset Ridge's Kit Carson (Carson)	Male
NAME	SEX
English Cocker Spaniel (Working Type)	January 27th, 2024
GENETIC BREED	DATE OF BIRTH
American Kennel Club (AKC) SS45774501	n/a
REGISTRATION	MICROCHIP

Teresa Ann Stinson
OWNER NAME

Canine Genetic Health Screen
TEST

December 13th, 2025
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Autosomal Recessive Hereditary Nephropathy, Familial Nephropathy, ARHN	COL4A4 (Exon 3)	AA	Clear	
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Exercise-Induced Collapse, EIC	DNM1	GG	Clear	
Glycogen storage disease Type VII, Phosphofructokinase Deficiency, PFK Deficiency	PFKM (Exon 21)	GG	Clear	
Hereditary Sensory Autonomic Neuropathy, Acral Mutilation Syndrome, AMS	GDNF-AS	CC	Clear	
Progressive Retinal Atrophy, prcd	PRCD Exon 1	GG	Clear	
Bernard-Soulier Syndrome, BSS	GP9	NN	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	N/I	1 Variant	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		27%
MHC Class II - DLA DRB1		Low Diversity
MHC Class II - DLA DQA1 and DQB1		No 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 ^B 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 brown colored nose/feet	bb
Saddle Tan (RALY)	Not expressed	NI
S Locus (MITF)	Likely solid colored, but may have small amounts of white	Ssp
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)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Panda White Spotting	Not expected to display Panda pattern	NN

Other Coat Traits	RESULT	GENETIC RESULT
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

Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely medium or long muzzle	CC
Tail Length (T)	Likely normal-length tail	CC

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TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Hind Dewclaws (LMBR1)	Likely to have hind dew claws	CT
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)	Intermediate	NI
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Smaller	AA
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	CC

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