

Dog Information










MSJ Shorty Jax (Jax)	Male
NAME	SEX
Russell-type Terrier	February 23rd, 2024
BREED ANCESTRY	DATE OF BIRTH
n/a	n/a
REGISTRATION	MICROCHIP

James Taylor
OWNER NAME

Canine Genetic Health Screen
TEST

September 23rd, 2024
TEST DATE

BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1A	GG	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	
Primary Lens Luxation	ADAMTS17	GG	Clear	
Spinocerebellar Ataxia with Myokymia and/or Seizures	KCNJ10	CC	Clear	
Spinocerebellar Ataxia, Late-Onset Ataxia, LoSCA	CAPN1	GG	Clear	
Autosomal Recessive Amelogenesis Imperfecta, Familial Enamel Hypoplasia	ENAM	CC	Clear	
Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD	FGF4 - chr12	N/N	Clear	
Congenital Myasthenic Syndrome, CMS	CHRNE	NN	Clear	
Severe Combined Immunodeficiency, SCID	PRKDC	GG	Clear	

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INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		3%
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)	Can have a melanistic mask	E ^m E
K Locus (CBD103)	More likely to have a patterned haircoat	k ^y k ^y
Intensity Loci	Any light hair likely apricot or red	Intense Red Pigmentation
A Locus (ASIP)	Black/Brown and tan coat color pattern	a ^t a ^t
D Locus (MLPH)	Dark areas of hair and skin are not lightened	Dd
Cocoa (HPS3)	No co alleles, not expressed	NN
B Locus (TYRP1)	Black or gray hair and skin	Bb
Saddle Tan (RALY)	Likely saddle tan patterned	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 furnished (mustache, beard, and/or eyebrows)	FI
Coat Length (FGF5)	Likely short or mid-length coat	ShLh
Shedding (MC5R)	Likely light shedding	TT
Coat Texture (KRT71)	Coat would likely be curly or wavy if long	CT
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	AC
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)	Unlikely to have hind dew claws	CC
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Likely to have chondrodysplasia (short legs)	II
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)	Intermediate	TA
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