

## Dog Information










|                                   |                     |
|-----------------------------------|---------------------|
| Russellville Tulsi of MSJ (Tulsi) | Female              |
| NAME                              | SEX                 |
| Russell-type Terrier              | September 8th, 2024 |
| BREED ANCESTRY                    | DATE OF BIRTH       |
| American Kennel Club (AKC)        | n/a                 |
| REGISTRATION                      | MICROCHIP           |

James Taylor  
OWNER NAME

Canine Genetic Health Screen  
TEST

January 3rd, 2025  
TEST DATE

## BREED HEALTH TESTS

| DISEASE  | GENE            | GENOTYPE | RESULT | TESTING<br>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<br>RESULT |
|----------------------------------|--------|-------------------|
| Coefficient Of Inbreeding        |        | 9%                |
| MHC Class II - DLA DRB1          |        | High<br>Diversity |
| MHC Class II - DLA DQA1 and DQB1 |        | High<br>Diversity |

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## TRAIT TESTS (1/3)

| Coat Color        | RESULT   | GENETIC RESULT                |
|-------------------|--|-------------------------------|
| E Locus (MC1R)    | Can have a melanistic mask                     | E <sup>m</sup> E              |
| K Locus (CBD103)  | More likely to have a patterned haircoat       | k <sup>y</sup> k <sup>y</sup> |
| Intensity Loci    | Any light hair likely yellow or tan            | Intermediate Red Pigmentation |
| A Locus (ASIP)    | Fawn Sable coat color pattern                  | a <sup>y</sup> a <sup>y</sup> |
| 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) | Not expressed                                  | NN                            |
| S Locus (MITF)    | Likely flash, parti, piebald, or extreme white | spsp                          |
| 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                     | ShSh           |
| Shedding (MC5R)                          | Likely light shedding                               | CT             |
| Coat Texture (KRT71)                     | Coat would likely be curly or wavy if long          | 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 short muzzle                                 | AA             |
| 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)                          | Smaller                                      | II             |
| Body Size (IGFR1)                         | Larger                                       | GG             |
| Body Size (STC2)                          | Larger                                       | TT             |
| Body Size (GHR - E191K)                   | Intermediate                                 | GA             |
| Body Size (GHR - P177L)                   | Larger                                       | CC             |
| Performance                               | RESULT                                       | GENETIC RESULT |
| Altitude Adaptation (EPAS1)               | Normal altitude tolerance                    | GG             |
| Appetite (POMC)                           | Normal food motivation                       | NN             |