
















## Dog Information

**Sterling Creek's Necessary Roughness (Tack)**  
 NAME  
**Male**  
 SEX  
**Labrador Retriever**  
 GENETIC BREED  
**AKC: SS02180701**  
 REGISTRATION  
**October 26th, 2017**  
 DATE OF BIRTH  
**n/a**  
 MICROCHIP

**Pidge Daniel**  
 OWNER NAME  
**Canine Genetic Health Screen**  
 TEST  
**February 27th, 2020**  
 TEST DATE

## BREED HEALTH TESTS

| DISEASE   | GENE                      | GENOTYPE | RESULT |   |
|---|---------------------------|----------|--------|---|
| Centronuclear Myopathy                                      | PTPLA                     | NN       | Clear  |    |
| Congenital Macrothrombocytopenia                            | TUBB1 Exon 1 SNP 745      | GG       | Clear  |    |
| Degenerative Myelopathy, DM                                 | SOD1                      | GG       | Clear  |   |
| Exercise-Induced Collapse                                   | DNM1                      | GG       | Clear  |  |
| Hereditary Nasal Parakeratosis                              | SUV39H2                   | GG       | Clear  |  |
| Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU      | SLC2A9 (Exon 5)           | CC       | Clear  |  |
| Macular Corneal Dystrophy, MCD                              | CHST6                     | CC       | Clear  |  |
| Narcolepsy  | HCRTR2                    | AA       | Clear  |  |
| Oculoskeletal Dysplasia 1, Dwarfism-Retinal Dysplasia, OSD1 | COL9A3 (Exon 1)           | NN       | Clear  |  |
| Progressive Retinal Atrophy, prcd                           | PRCD Exon 1               | GG       | Clear  |  |
| Pyruvate Kinase Deficiency                                  | PKLR Exon 7 SNP Variant 1 | CC       | Clear  |  |
| Skeletal Dysplasia 2, SD2                                   | COL11A2                   | GG       | Clear  |  |
| Achromatopsia   | CNGA3 (Exon 7 Deletion)   | NN       | Clear  |  |
| Alexander Disease   | GFAP (Exon 4)             | GG       | Clear  |  |
| Canine Elliptocytosis                                       | SPTB Exon 30              | CC       | Clear  |  |

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## BREED HEALTH TESTS

| DISEASE   | GENE             | GENOTYPE | RESULT |   |
|---|------------------|----------|--------|---|
| Congenital Myasthenic Syndrome                              | COLQ (Exon 14)   | TT       | Clear  |    |
| Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2     | TTC8 Exon 8      | NN       | Clear  |    |
| Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM | MTM1 (Exon 7)    | CY       | Clear  |   |
| Progressive Retinal Atrophy - crd4/cord1                    | RPGRIP1 (Exon 2) | NN       | Clear  |  |

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## TRAIT TESTS (1/2)

| Coat Color        |  | RESULT                        |
|-------------------|--|-------------------------------|
| E Locus (MC1R)    | No dark mask or grizzle                                | Ee                            |
| K Locus (CBD103)  | More likely to have a mostly solid black or brown coat | K <sup>B</sup> K <sup>B</sup> |
| A Locus (ASIP)    | Not expressed  | a <sup>+</sup> a <sup>t</sup> |
| D Locus (MLPH)    | Dark areas of hair and skin are lightened              | dd                            |
| B Locus (TYRP1)   | Black or gray hair and skin                            | Bb                            |
| Saddle Tan (RALY) | Not expressed  | ll                            |
| M Locus (PMEL)    | No merle alleles                                       | mm                            |

| Other Coat Traits                                |  | RESULT |
|--|--|--------|
| Furnishings (RSPO2) LINKAGE                      | Likely unfurnished (no mustache, beard, and/or eyebrows) | ll     |
| Coat Length (FGF5)                               | Likely short or mid-length coat                          | GG     |
| Shedding (MC5R)                                  | Likely heavy/seasonal shedding                           | CT     |
| Coat Texture (KRT71)                             | Likely straight coat                                     | CC     |
| Hairlessness (SGK3)                              | Very unlikely to be hairless                             | NN     |
| Hairlessness (FOXI3) LINKAGE                     | Very unlikely to be hairless                             | NN     |
| Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE | Likely not albino  | NN     |

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

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## TRAIT TESTS (2/2)

| Body Size               |        | RESULT |
|-------------------------|--------|--------|
| Body Size (IGF1)        | Larger | NN     |
| Body Size (IGFR1)       | Larger | GG     |
| Body Size (STC2)        | Larger | TT     |
| Body Size (GHR - E191K) | Larger | GG     |
| Body Size (GHR - P177L) | Larger | CC     |

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

| Genetic Diversity                |  | RESULT         |
|----------------------------------|--|----------------|
| Coefficient Of Inbreeding        |  | 12%            |
| MHC Class II - DLA DRB1          |  | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 |  | High Diversity |