

## Dog Information

Minton Farms I Wanna Be Like You At ShortMale

Acres (Louie)

SEX

NAME

Beagle

August 12th, 2020

GENETIC BREED

DATE OF BIRTH

AKC: HP60816403

956000012482855

REGISTRATION

MICROCHIP

Laura Short

OWNER NAME

Canine Genetic Health Screen

TEST

October 31st, 2020

TEST DATE

## BREED HEALTH TESTS

| DISEASE                                                                  | GENE                      | GENOTYPE | RESULT     |                                                                                       |
|--------------------------------------------------------------------------|---------------------------|----------|------------|---------------------------------------------------------------------------------------|
| Cerebellar Abiotrophy, Neonatal Cerebellar Cortical Degeneration, NCCD   | SPTBN2                    | NN       | Clear      |    |
| Degenerative Myelopathy, DM                                              | SOD1                      | GG       | Clear      |    |
| Factor VII Deficiency                                                    | F7 Exon 5                 | GG       | Clear      |  |
| Glaucoma                                                                 | ADAMTS10                  | GG       | Clear      |  |
| Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption           | CUBN (Exon 8)             | NN       | Clear      |  |
| Musladin-Lueke Syndrome                                                  | ADAMTSL2 (Exon 7)         | CC       | Clear      |  |
| Pyruvate Kinase Deficiency                                               | PKLR Exon 7 SNP Variant 3 | GG       | Clear      |  |
| Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD | FGF4 - chr12              | I/I      | 2 Variants |  |
| Hypocatalasia, Acatlasemia                                               | CAT                       | GA       | 1 Variant  |  |
| Osteogenesis Imperfecta, Brittle Bone Disease                            | COL1A2                    | NN       | Clear      |  |
| Progressive Retinal Atrophy - crd4/cord1                                 | RPGRIP1 (Exon 2)          | NN       | Clear      |  |

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## INBREEDING AND DIVERSITY

| Genetic Diversity                | RESULT         |
|----------------------------------|----------------|
| Coefficient Of Inbreeding        | 13%            |
| MHC Class II - DLA DRB1          | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 | High Diversity |

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## TRAIT TESTS (1/2)

| Coat Color                                       |                                                           | RESULT                        |
|--------------------------------------------------|-----------------------------------------------------------|-------------------------------|
| E Locus (MC1R)                                   | No dark hairs anywhere                                    | ee                            |
| K Locus (CBD103)                                 | Not expressed                                             | k <sup>y</sup> k <sup>y</sup> |
| A Locus (ASIP)                                   | Not expressed                                             | a <sup>t</sup> a <sup>t</sup> |
| D Locus (MLPH)                                   | Not expressed                                             | DD                            |
| B Locus (TYRP1)                                  | Likely black colored nose/feet                            | BB                            |
| Saddle Tan (RALY)                                | Not expressed                                             | NN                            |
| S Locus (MITF)                                   | Likely solid colored, but may have small amounts of white | Ssp                           |
| M Locus (PMEL)                                   | No merle alleles                                          | mm                            |
| H Locus (Harlequin)                              | No harlequin alleles                                      | hh                            |
| Other Coat Traits                                |                                                           | RESULT                        |
| Furnishings (RSP02) LINKAGE                      | Likely unfurnished (no mustache, beard, and/or eyebrows)  | II                            |
| 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 (FOXI3) LINKAGE                     | Very unlikely to be hairless                              | NN                            |
| Hairlessness (SGK3)                              | Very unlikely to be hairless                              | NN                            |
| Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE | Likely not albino                                         | NN                            |
| Other Body Features                              |                                                           | RESULT                        |

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## TRAIT TESTS (2/2)

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

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