

Dog Information












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|--|--|
| Short Acres Experiment 626 (Stitch) NAME | Male SEX |
| Beagle GENETIC BREED | April 29th, 2019 DATE OF BIRTH |
| AKC: HP57564404 REGISTRATION | 956000009989104 MICROCHIP |

Laura Short
OWNER NAME

Canine Genetic Health Screen
TEST

July 31st, 2019
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 | GA | 1 Variant |  |
| 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 | N/I | 1 Variant |  |
| Hypocatalasia, Acatlasemia | CAT | GG | Clear |  |
| Osteogenesis Imperfecta, Brittle Bone Disease | COL1A2 | NN | Clear |  |
| Progressive Retinal Atrophy - crd4/cord1 | RPGRIP1 (Exon 2) | NN | Clear |  |

Dog Information

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NAME

INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT |
|----------------------------------|----------------|
| Coefficient Of Inbreeding | 10% |
| MHC Class II - DLA DRB1 | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 | High Diversity |

Dog Information ☆

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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 patterned haircoat | k ^y k ^y |
| A Locus (ASIP) | Black/Brown and tan coat color pattern | a ^t a ^t |
| 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) | Likely saddle tan patterned | NN |
| S Locus (MITF) | Likely flash, parti, piebald, or extreme white | spsp |
| M Locus (PMEL) | One merle allele, likely to appear merle or "phantom merle" | M*m |
| 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 | CC |
| 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 |

Dog Information ✦

Short Acres Experiment 626 (Stitch)

NAME

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 |