

Dog Information

Ginger
NAME

Female
SEX

Labrador Retriever
GENETIC BREED

November 7th, 2018
DATE OF BIRTH

AKC: SS08531301
REGISTRATION
















n/a
MICROCHIP

Clarissa Ferrer
OWNER NAME

Canine Genetic Health Screen
TEST

March 11th, 2020
TEST DATE

BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | |
|---|---------------------------|----------|--------|---|
| 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 |  |
| Congenital Myasthenic Syndrome | COLQ (Exon 14) | TT | Clear |  |

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| DISEASE | GENE | GENOTYPE | RESULT | |
|---|------------------|----------|--------|--|
| 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) | CC | Clear |  |
| Progressive Retinal Atrophy - crd4/cord1 | RPGRIP1 (Exon 2) | NN | Clear |  |

Dog Information ✨

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INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT |
|----------------------------------|----------------|
| Coefficient Of Inbreeding | 24% |
| 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 mostly solid black or brown coat | K ^B K ^B |
| A Locus (ASIP) | Not expressed | a [†] a |
| D Locus (MLPH) | Dark areas of hair and skin are not lightened | DD |
| B Locus (TYRP1) | Brown hair and skin | bb |
| Saddle Tan (RALY) | Not expressed | NI |
| M Locus (PMEL) | No merle alleles | mm |
| Other Coat Traits | | RESULT |
| Furnishings (RSPO2) 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 |
| 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 |