

Dog Information

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| Simba NAME | Male SEX |
| Golden Retriever GENETIC BREED | May 30th, 2019 DATE OF BIRTH |
| n/a REGISTRATION | n/a MICROCHIP |

Vetta A Hozen

OWNER NAME










Canine Genetic Health Screen


TEST

September 21st, 2019

TEST DATE

BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | |
|---|------------------------|----------|--------|---|
| Degenerative Myelopathy, DM | SOD1 | GG | Clear |  |
| Golden Retriever Progressive Retinal Atrophy 1, GR-PRA1 | SLC4A3 Exon 16 | NN | Clear |  |
| Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2 | TTC8 Exon 8 | NN | Clear |  |
| Ichthyosis | PNPLA1 (Exon 8) | AAC/AAC | Clear |  |
| Muscular Dystrophy | DMD | AY | Clear |  |
| Progressive Retinal Atrophy, prcd | PRCD Exon 1 | GG | Clear |  |
| Dystrophic Epidermolysis Bullosa | COL7A1 (Exon 68) | GG | Clear |  |
| Neuronal Ceroid Lipofuscinosis | CLN5 (Exon 4 Deletion) | NN | Clear |  |
| Osteogenesis Imperfecta, Brittle Bone Disease | COL1A1 (Exon 18) | GG | Clear |  |

Dog Information 

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INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT |
|----------------------------------|----------------|
| Coefficient Of Inbreeding | 18% |
| 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 hairs anywhere | ee |
| K Locus (CBD103) | Not expressed | K ^B K ^B |
| A Locus (ASIP) | Not expressed | aa |
| D Locus (MLPH) | Not expressed | DD |
| B Locus (TYRP1) | Likely black colored nose/feet | BB |
| Saddle Tan (RALY) | Not expressed | NN |
| 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 long coat | TT |
| 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 |
|----------------------|------------------------------|--------|
| Muzzle Length (BMP3) | Likely medium or long muzzle | CC |
| Tail Length (T) | Likely normal-length tail | CC |

Dog Information ✦

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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 |