

Dog Information

Floyd Ranch Field Goldens Dinner Is Served (Ramsay)
NAME

Female
SEX

Golden Retriever
GENETIC BREED

June 20th, 2023
DATE OF BIRTH

The Kennel Club (KC)
REGISTRATION












n/a
MICROCHIP

Heather Floyd
OWNER NAME

Canine Genetic Health Screen
TEST

October 10th, 2023
TEST DATE

BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | TESTING RECOMMENDED BY |
|---|------------------------|----------|--------|---|
| Degenerative Myelopathy, DM | SOD1(A) | 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, ICH1 | PNPLA1 (Exon 8) | AAC/AAC | Clear |  |
| Muscular Dystrophy | DMD | AA | Clear |  |
| Progressive Retinal Atrophy, prcd | PRCD Exon 1 | GG | Clear |  |
| Congenital Myasthenic Syndrome, CMS | COLQ | GG | Clear |  |
| Dystrophic Epidermolysis Bullosa | COL7A1 (Exon 68) | GG | Clear |  |
| Neuronal Ceroid Lipofuscinosis 5, NCL 5 | CLN5 (Exon 4 Deletion) | NN | Clear |  |
| Osteogenesis Imperfecta, Brittle Bone Disease | COL1A1 (Exon 18) | GG | Clear |  |
| Retina Dysplasia and/or Optic Nerve Hypoplasia | SIX6 Exon 1 | CC | Clear |  |

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INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT | GENETIC RESULT |
|----------------------------------|--------|-------------------|
| Coefficient Of Inbreeding | | 23% |
| MHC Class II - DLA DRB1 | | No Diversity |
| MHC Class II - DLA DQA1 and DQB1 | | No Diversity |

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TRAIT TESTS (1/3)

| Coat Color | RESULT | GENETIC RESULT |
|-------------------------|---|-------------------------------|
| E Locus (MC1R) | No dark hairs anywhere | ee |
| K Locus (CBD103) | Not expressed | K ^B k ^Y |
| Intensity Loci LINKAGE | Any pigmented hair likely yellow or tan | Intermediate Red Pigmentation |
| A Locus (ASIP) | Not expressed | a ^t a |
| D Locus (MLPH) | Not expressed | DD |
| Cocoa (HPS3) | No co alleles, not expressed | NN |
| B Locus (TYRP1) | Likely black colored nose/feet | BB |
| Saddle Tan (RALY) | Not expressed | NN |
| S Locus (MITF) | Likely to have little to no white in coat | SS |
| M Locus (PMEL) | No merle alleles | mm |
| R Locus (USH2A) LINKAGE | Likely no impact on coat pattern | rr |

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TRAIT TESTS (2/3)

| | RESULT | GENETIC RESULT |
|--|--|----------------|
| Coat Color | | |
| H Locus (Harlequin) | No harlequin alleles | hh |
| Other Coat Traits | | |
| Furnishings (RSPO2) LINKAGE | Likely unfurnished (no mustache, beard, and/or eyebrows) | II |
| Coat Length (FGF5) | Likely long coat | TT |
| Shedding (MC5R) | Likely light shedding | TT |
| 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 |
| Coat Texture (KRT71) | Likely straight coat | CC |
| Other Body Features | | |
| Muzzle Length (BMP3) | Likely medium or long muzzle | CC |
| Tail Length (T) | Likely normal-length tail | CC |
| Hind Dewclaws (LMBR1) | Unlikely to have hind dew claws | CC |

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TRAIT TESTS (3/3)

| Other Body Features | RESULT | GENETIC RESULT |
|---|-------------------------------|----------------|
| Blue Eye Color (ALX4) LINKAGE | Less likely to have blue eyes | NN |
| Back Muscling & Bulk, Large Breed (ACSL4) | Likely normal muscling | CC |
| Body Size | RESULT | GENETIC RESULT |
| Body Size (IGF1) | Intermediate | NI |
| Body Size (IGFR1) | Larger | GG |
| Body Size (STC2) | Larger | TT |
| Body Size (GHR - E191K) | Larger | GG |
| Body Size (GHR - P177L) | Larger | CC |
| Performance | RESULT | GENETIC RESULT |
| Altitude Adaptation (EPAS1) | Normal altitude tolerance | GG |
| Appetite (POMC) LINKAGE | Normal food motivation | NN |