

Dog Information

Carolina's Cute n Cuddly Akeyla Skye (Akeyla)
 NAME
Female
 SEX
Golden Retriever
 BREED ANCESTRY
American Kennel Club (AKC)
 REGISTRATION
March 6th, 2026
 DATE OF BIRTH
900263005055882
 MICROCHIP

David Thompson

OWNER NAME

Canine Genetic Health Screen
TEST

June 4th, 2026

TEST DATE

BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | TESTING RECOMMENDED BY |
|---|------------------------|--------------|-----------|------------------------|
| Degenerative Myelopathy, DM | SOD1A | 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) | ACC/TACTACTA | 1 Variant | |
| Ichthyosis, ICH2 | ABHD5 Exon 7 | NN | 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 | | 30% |
| MHC Class II - DLA DRB1 | | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 | | High 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 | Any pigmented hair likely white or cream | Dilute Red Pigmentation |
| A Locus (ASIP) | Not expressed | a ^t a ^t |
| 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 | II |
| S Locus (MITF) | Likely to have little to no white in coat | SS |
| M Locus (PMEL) | No merle alleles | mm |
| R Locus (USH2A) | Likely no impact on coat pattern | rr |

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TRAIT TESTS (2/3)

| Coat Color | RESULT | GENETIC RESULT |
|----------------------|---------------------------------------|----------------|
| H Locus (Harlequin) | No harlequin alleles | hh |
| Panda White Spotting | Not expected to display Panda pattern | NN |

| Other Coat Traits | RESULT | GENETIC RESULT |
|--|--|----------------|
| Furnishings (RSPO2) | Likely unfurnished (no mustache, beard, and/or eyebrows) | ll |
| Coat Length (FGF5) | Likely long coat | LhLh |
| Shedding (MC5R) | Likely light shedding | TT |
| Coat Texture (KRT71) | Likely straight coat | CC |
| Hairlessness (FOXI3) | Very unlikely to be hairless | NN |
| Hairlessness (SGK3) | Very unlikely to be hairless | NN |
| Oculocutaneous Albinism Type 2 (SLC45A2) | Likely not albino | NN |

| Other Body Features | RESULT | GENETIC RESULT |
|----------------------|------------------------------|----------------|
| Muzzle Length (BMP3) | Likely medium or long muzzle | CC |
| Tail Length (T) | Likely normal-length tail | CC |

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TRAIT TESTS (3/3)

| Other Body Features | RESULT | GENETIC RESULT |
|---|--|----------------|
| Hind Dewclaws (LMBR1) | Unlikely to have hind dew claws | CC |
| Chondrodysplasia (Chr. 18 FGF4 Retrogene) | Not indicative of chondrodysplasia (normal leg length) | NN |
| Blue Eye Color (ALX4) | 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) | Larger | NN |
| Body Size (IGFR1) | Larger | GG |
| Body Size (STC2) | Larger | TT |
| Body Size (GHR - E191K) | Smaller | AA |
| Body Size (GHR - P177L) | Larger | CC |
| Performance | RESULT | GENETIC RESULT |
| Altitude Adaptation (EPAS1) | Normal altitude tolerance | GG |
| Appetite (POMC) | Normal food motivation | NN |