embark

# DNA Test Report

## Dog Information

Adora's Theodore (Theo)
NAME

Male
SEX

Poodle
Breed with variety:
81.4% Poodle (Small)
18.6% Poodle (Standard)
BREED ANCESTRY

July 27th, 2026
DATE OF BIRTH

900219002640615
MICROCHIP

n/a
REGISTRATION

Marlin Troyer
OWNER NAME

Canine Genetic Health Screen
TEST

August 27th, 2026
TEST DATE

## BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | TESTING RECOMMENDED BY |
|---|---|---|---|---|
| Degenerative Myelopathy, DM | SOD1A | GG | Clear | |
| Neonatal Encephalopathy with Seizures, NEWS | ATF2 | TT | Clear | |
| Osteochondrodysplasia, Skeletal Dwarfism | SLC13A1 | NN | Clear | |
| Progressive Retinal Atrophy, prcd | PRCD Exon 1 | GG | Clear | |
| Von Willebrand Disease Type I, Type I vWD | VWF | GG | Clear | |
| Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD | FGF4 - chr12 | N/N | Clear | |
| GM2 Gangliosidosis | HEXB (Exon 3) | NN | Clear | |

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## INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT |
|---|---|
| **Coefficient Of Inbreeding** | **5%** |
| **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 |
|---|---|
| E Locus (MC1R) | Can have a melanistic mask ($E^{m}e$ or Ee) |
| K Locus (CBD103) | More likely to have a patterned haircoat ($k^{y}k^{y}$) |
| Intensity Loci | Any light hair likely yellow or tan (Intermediate Red Pigmentation) |
| A Locus (ASIP) | Black/Brown and tan coat color pattern ($a^{t}a^{t}$) |
| D Locus (MLPH) | Dark areas of hair and skin are not lightened (DD) |
| Cocoa (HPS3) | No co alleles, not expressed (NN) |
| B Locus (TYRP1) | Black or gray hair and skin (Bb) |
| Saddle Tan (RALY) | Not saddle tan patterned (II) |
| S Locus (MITF) | Likely solid colored, but may have small amounts of white (Ssp) |
| M Locus (PMEL) | One merle allele; may express merle (M*m) |
| R Locus (USH2A) | Likely no impact on coat pattern (rr) |

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## TRAIT TESTS (2/3)

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

| Other Coat Traits | RESULT |
|---|---|
| Furnishings (RSPO2) | Likely furnished (mustache, beard, and/or eyebrows) (FF) |
| Coat Length (FGF5) | Likely long coat (LhLh) |
| Shedding (MC5R) | Likely light shedding (TT) |
| Coat Texture (KRT71) | Likely curly coat (TT) |
| 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 |
|---|---|
| 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 |
|---|---|
| Hind Dewclaws (LMBR1) | Likely to have hind dew claws (CT) |
| 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 |
|---|---|
| Body Size (IGF1) | Smaller (II) |
| Body Size (IGFR1) | Smaller (AA) |
| Body Size (STC2) | Intermediate (TA) |
| Body Size (GHR - E191K) | Intermediate (GA) |
| Body Size (GHR - P177L) | Larger (CC) |

| Performance | RESULT |
|---|---|
| Altitude Adaptation (EPAS1) | Normal altitude tolerance (GG) |
| Appetite (POMC) | Normal food motivation (NN) |