

## Dog Information

|  |                                 |
|--|---------------------------------|
| America<br>NAME                            | Female<br>SEX                   |
| Poodle (Standard)<br>BREED ANCESTRY        | July 4th, 2022<br>DATE OF BIRTH |
| American Kennel Club (AKC)<br>REGISTRATION | n/a<br>MICROCHIP                |

Laurel McComas  
OWNER NAME

Canine Genetic Health Screen  
TEST

January 30th, 2024  
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 | GENETIC RESULT |
|----------------------------------|--------|----------------|
| Coefficient Of Inbreeding        |        | 12%            |
| 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 <sup>Y</sup> k <sup>Y</sup> |
| Intensity Loci    | Any pigmented hair likely yellow or tan        | Intermediate Red Pigmentation |
| A Locus (ASIP)    | Not expressed                                  | a <sup>+</sup> 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                                  | NI                            |
| S Locus (MITF)    | Likely flash, parti, piebald, or extreme white | spsp                          |
| 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             |

  

| Other Coat Traits                        | RESULT  | GENETIC RESULT |
|--|---|----------------|
| Furnishings (RSPO2)                      | Likely furnished (mustache, beard, and/or eyebrows) | FF             |
| Coat Length (FGF5)                       | Likely long coat                                    | LhLh           |
| Shedding (MC5R)                          | Likely light shedding                               | CC             |
| 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                          | GENETIC RESULT |
|-----------------------|---------------------------------|----------------|
| 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 |
|---|--|----------------|
| 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)        | 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)             | Normal food motivation    | NN             |