

## Dog Information

|                                       |                     |
|---------------------------------------|---------------------|
| Royal Dixie's Copper Moon (Copper)    | Male                |
| NAME                                  | SEX                 |
| Poodle (Standard)                     | December 10th, 2024 |
| BREED ANCESTRY                        | DATE OF BIRTH       |
| American Kennel Club (AKC) PR29089806 | n/a                 |
| REGISTRATION                          | MICROCHIP           |

Paul and Angela Ivy  
OWNER NAME

Canine Genetic Health Screen  
TEST

February 28th, 2025  
TEST DATE

## BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

| DISEASE                                                                  | GENE          | GENOTYPE | RESULT    | TESTING<br>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     |  |
| Copper Toxicosis (Accumulating)                                          | ATP7B         | GA       | 1 Variant |                                                                                       |

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## INBREEDING AND DIVERSITY

| Genetic Diversity                | RESULT | GENETIC<br>RESULT |
|----------------------------------|--------|-------------------|
| Coefficient Of Inbreeding        |        | 13%               |
| MHC Class II - DLA DRB1          |        | No<br>Diversity   |
| MHC Class II - DLA DQA1 and DQB1 |        | No<br>Diversity   |

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## TRAIT TESTS (1/3)

| Coat Color        | RESULT                                                    | GENETIC RESULT                |
|-------------------|-----------------------------------------------------------|-------------------------------|
| E Locus (MC1R)    | No dark mask or grizzle                                   | EE                            |
| K Locus (CBD103)  | More likely to have a mostly solid black or brown coat    | K <sup>B</sup> K <sup>B</sup> |
| Intensity Loci    | No impact on coat pattern                                 | Dilute Red Pigmentation       |
| A Locus (ASIP)    | Not expressed                                             | a <sup>Y</sup> a <sup>W</sup> |
| D Locus (MLPH)    | Dark areas of hair and skin are not lightened             | DD                            |
| Cocoa (HPS3)      | No co alleles, not expressed                              | NN                            |
| B Locus (TYRP1)   | Brown hair and skin                                       | bb                            |
| Saddle Tan (RALY) | Not expressed                                             | NI                            |
| S Locus (MITF)    | Likely solid colored, but may have small amounts of white | Ssp                           |
| 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 (RSP02)                      | 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             |

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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)                   | 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     |                |