

## Dog Information

**Aruff's Spirit Of Vader (Spirit)**  
NAME

**Male**  
SEX

**Siberian Husky**  
BREED ANCESTRY

**August 8th, 2023**  
DATE OF BIRTH

**American Kennel Club (AKC) WS81576206**  
REGISTRATION

**933-000-320-908-581**  
MICROCHIP

**Sharon Krotzer**  
OWNER NAME

**Canine Genetic Health Screen**  
TEST

**April 27th, 2026**  
TEST DATE

## BREED HEALTH TESTS

| DISEASE                                         | GENE           | GENOTYPE | RESULT | TESTING<br>RECOMMENDED BY                                                             |
|-------------------------------------------------|----------------|----------|--------|---------------------------------------------------------------------------------------|
| Degenerative Myelopathy, DM                     | SOD1A          | GG       | Clear  |    |
| GM1 Gangliosidosis                              | GLB1 (Exon 15) | NN       | Clear  |    |
| X-Linked Progressive Retinal Atrophy 1, XL-PRA1 | RPGR (Exon 15) | NY       | Clear  |    |
| Day Blindness, Cone Degeneration, Achromatopsia | CNGB3          | NN       | Clear  |  |

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## TRAIT TESTS (1/3)

| Coat Color        | RESULT                                         | GENETIC RESULT                |
|-------------------|------------------------------------------------|-------------------------------|
| E Locus (MC1R)    | Can have grizzle/domino                        | E <sup>a</sup> E <sup>a</sup> |
| K Locus (CBD103)  | More likely to have a patterned haircoat       | k <sup>Y</sup> k <sup>Y</sup> |
| Intensity Loci    | Any light hair likely white or cream           | Dilute Red Pigmentation       |
| A Locus (ASIP)    | Agouti (Wolf Sable) coat color pattern         | a <sup>w</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)   | Black or gray hair and skin                    | Bb                            |
| Saddle Tan (RALY) | Not expressed                                  | NN                            |
| 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             |
| Panda White Spotting | Not expected to display Panda pattern | NN             |

| Other Coat Traits                        | RESULT                                                   | GENETIC RESULT |
|------------------------------------------|----------------------------------------------------------|----------------|
| Furnishings (RSP02)                      | Likely unfurnished (no mustache, beard, and/or eyebrows) | II             |
| Coat Length (FGF5)                       | Likely short or mid-length coat                          | ShLh           |
| Shedding (MC5R)                          | Likely heavy/seasonal shedding                           | CC             |
| 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)                     | Likely to have blue eyes or partial blue eyes          | NDup           |
| 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             |