

Dog Information

V.I.P. Heartbreaker de Sol Casa
(Heartbreaker)
NAME

Male
SEX

August 2nd, 2022
DATE OF BIRTH

German Shepherd Dog
BREED ANCESTRY

n/a
MICROCHIP

Fédération Cynologique Internationale
(FCI) LOSH-01345851
REGISTRATION

Pascalie Ruperti
OWNER NAME

Canine Genetic Health Screen
TEST

September 27th, 2024
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 RECOMMENDED BY |
|--|--------------------|----------|-----------|------------------------|
| Canine Leukocyte Adhesion Deficiency Type III, CLAD III | FERMT3 | NN | Clear | |
| Degenerative Myelopathy, DM | SOD1A | GA | 1 Variant | |
| Factor VIII Deficiency, Hemophilia A | F8 Exon 1 | GY | Clear | |
| Factor VIII Deficiency, Hemophilia A | F8 Exon 11 | GY | Clear | |
| Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU | SLC2A9 (Exon 5) | GG | Clear | |
| MDR1 Drug Sensitivity | ABCB1 | NN | Clear | |
| Mucopolysaccharidosis Type VII, Sly Syndrome, MPS VII | GUSB | GG | Clear | |
| Achromatopsia | CNGA3 (Exon 7 SNP) | CC | Clear | |
| Ichthyosis | ASPRV1 Exon 2 | TT | Clear | |
| Platelet Factor X Receptor Deficiency, Scott Syndrome | TMEM16F | GG | Clear | |
| Renal Cystadenocarcinoma and Nodular Dermatofibrosis, RCND | FLCN | GG | Clear | |
| X-linked Ectodermal Dysplasia, Anhidrotic Ectodermal Dysplasia, XHED | EDA | GY | Clear | |
| Copper Toxicosis (Accumulating) | ATP7B | GA | 1 Variant | |

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INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT | GENETIC RESULT |
|----------------------------------|--------|----------------|
| Coefficient Of Inbreeding | | 26% |
| MHC Class II - DLA DRB1 | | Low 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) | Can have a melanistic mask | E ^m E |
| 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) | Agouti (Wolf Sable) coat color pattern | a ^w a |
| 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 | NI |
| 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) | 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) | 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 |