

Dog Information

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| Circle B's Rolls-Royce (Royce) NAME | Male SEX |
| Olde English Bulldogge (6.0% unresolved) BREED ANCESTRY | October 20th, 2023 DATE OF BIRTH |
| International Olde English Bulldogge Association (IOEBA) REGISTRATION | n/a MICROCHIP |

Cassandra J Day
OWNER NAME

Canine Genetic Health Screen
TEST

February 3rd, 2024
TEST DATE

BREED HEALTH TESTS

| DISEASE | GENE | GENOTYPE | RESULT | TESTING RECOMMENDED BY |
|--|-------------------|----------|--------|------------------------|
| Degenerative Myelopathy, DM | SOD1A | GG | Clear | |
| Canine Multifocal Retinopathy, cmr1 | BEST1/VMD2 Exon 2 | CC | Clear | |
| Hereditary Xanthinuria, Xanthinuria Type I | XDH Exon 8 | GG | Clear | |
| Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU | SLC2A9 (Exon 5) | GG | Clear | |
| Ichthyosis | NIPAL4 (Exon 6) | NN | Clear | |
| L-2-Hydroxyglutaricaciduria, L2HGA | L2HGDH | TTC/TTC | Clear | |
| Nemaline Myopathy | NEB | CC | Clear | |
| Neuronal Ceroid Lipofuscinosis 10, NCL 10 | CTSD (Exon 5) | GG | Clear | |
| Neuronal Ceroid Lipofuscinosis, Cerebellar Ataxia, NCL4A | ARSG (Exon 2) | GG | Clear | |
| Progressive Retinal Atrophy, crd1 | PDE6B | NN | Clear | |
| β-Mannosidosis | MANBA Exon 16 | NN | Clear | |

Dog Information

Circle B's Rolls-Royce (Royce)
NAME

INBREEDING AND DIVERSITY

| Genetic Diversity | RESULT | GENETIC RESULT |
|----------------------------------|--------|----------------|
| Coefficient Of Inbreeding | | 19% |
| MHC Class II - DLA DRB1 | | High Diversity |
| MHC Class II - DLA DQA1 and DQB1 | | High Diversity |

Dog Information

Circle B's Rolls-Royce (Royce)
NAME

TRAIT TESTS (1/3)

| Coat Color | RESULT | GENETIC RESULT |
|-------------------|---|-------------------------------|
| E Locus (MC1R) | Can have a melanistic mask | E^mE^m |
| K Locus (CBD103) | More likely to have a patterned haircoat | k^yk^y |
| Intensity Loci | Any light hair likely yellow or tan | Intermediate Red Pigmentation |
| A Locus (ASIP) | Fawn Sable coat color pattern | a^ya^t |
| D Locus (MLPH) | Dark areas of hair and skin are 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 |

Dog Information

Circle B's Rolls-Royce (Royce)
NAME

TRAIT TESTS (2/3)

| Coat Color | RESULT | GENETIC RESULT |
|---------------------|----------------------|----------------|
| H Locus (Harlequin) | No harlequin alleles | hh |

| 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 | ShSh |
| Shedding (MC5R) | Likely light shedding | TT |
| 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 | AC |
| 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) | Smaller | II |
| 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 |