

Coat Color and Trait Certificate

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|------------------|---------------|-------------------|-----------------|
| Call Name: | Teddy | Barcode: | 24E89796 |
| Registered Name: | Teddy | Registration: | - |
| Breed: | Border Collie | Certificate Date: | 12th Jun 2024 |
| Sex: | Male | Microchip Number: | 953010005799330 |
| DOB: | 9th Jul 2022 | | |

This canine's DNA showed the following genotype(s):

| Breed Sense | Coat Color/Trait Test | Genotype | Interpretation |
|-------------|--------------------------------------|----------|---|
| ✔ | E Locus - (Cream/Red/Yellow) | | E/e - BLACK CARRIES EXTENSION [YELLOW/WHITE/APRICOT/RUBY/RED] |
| ✔ | A Locus (Agouti) | | a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS] |
| ✔ | Curly Coat/Hair Variant 1 | | NEGATIVE FOR THE R151W (C1) VARIANT - NOT SHOWING THE CURLY COAT PHENOTYPE |
| ✔ | Shedding (MC5R) | | shd/shd [HIGH SHEDDING] - TWO COPIES OF THE shd (MC5R) VARIANT DETECTED REFER TO FURNISHINGS (IC) FOR LEVEL OF SHEDDING |
| ✔ | Long Hair Gene - L1 (Canine C95F) | | POSITIVE - SHOWING THE PHENOTYPE |
| ✔ | M Locus (Merle/Dapple) | | m [171bp] / M [265 to 268bp] - CLASSIC MERLE/DAPPLE [RANDOM "MIXED" AREAS OF DILUTED COLOUR] |
| ✔ | Pied (BOTH SINE and REPEAT VARIANTS) | | S/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR |

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| ✔ | K Locus (Dominant Black) | | K/K - DOMINANT BLACK - SOLID [WILL NOT BE BRINDLED or EXPRESS AGOUTI] |
| ✔ | D (Dilute) Locus | | D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL |
| ✔ | Brown Insertion = Bc | | B ^c /B ^c - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION] |
| ✔ | Brown Stop Codon = Bs | | b ^s /b ^s - BROWN/CHOCOLATE, LIVER OR RED [STOP CODON] |
| ✔ | Brown Deletion = Bd | | B ^d /B ^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION] |
| ✔ | I Pheomelanin Locus Colour Intensity | | I/I - NO COPY OF MFSD12 INTENSITY/CREAM ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION) |

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| ✓ | Body Size IGSF1 "Bulky Gene" | | NO COPY INSULIN LIKE GROWTH FACTOR (IGF1R) - ASSOCIATED WITH A REDUCTION of BODY (BULKY) SIZE |
| | E Locus (Cattle Dog Cream Variant) e2 | | E ² /E ² - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM |
| | Brown TYRP1 [Lancashire Heeler Type] = Bl | | B ^L /B ^L - DOES NOT CARRY BROWN/LIVER [TYRP1] |
| | Brown TYRP1 [Australian Shepherd Type] = Ba | | B ^a /B ^a - NO COPY OF THE BROWN/RED c.555T>G VARIANT [AUSTRALIAN SHEPHERD TYPE] DETECTED |
| | Coat Composition CFA28 Gene (Double/Single Coat) | | udc/udc - TWO COPIES OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED |
| | Curly Coat/Hair Variant 2 | | NEGATIVE FOR THE KRT71 (p.Ser422ArgfsTer) VARIANT - NOT SHOWING THE CURLY COAT (C2) PHENOTYPE |