

## Coat Color and Trait Certificate

Call Name:	Rosie	Barcode:	24E89735
Registered Name:	Rosie	Registration:	D18570
Breed:	Border Collie	Certificate Date:	12th Jun 2024
Sex:	Female	Microchip Number:	953010005610133
DOB:	10th Jul 2021		

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 [171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT or EYE 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 - CARRIER OF DILUTE [WILL HAVE NORMAL PIGMENT]
✔	Brown Insertion = B <sup>c</sup>		B <sup>c</sup> /B <sup>c</sup> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]
✔	Brown Stop Codon = B <sup>s</sup>		B <sup>s</sup> /b <sup>s</sup> - CARRIER OF BROWN/LIVER/RED/CHOCOLATE [STOP CODON]
✔	Brown Deletion = B <sup>d</sup>		B <sup>d</sup> /B <sup>d</sup> - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]
✔	I Pheomelanin Locus Colour Intensity		I/i- ONE COPY OF THE MFSD12 INTENSITY/CREAM ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)

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✓	Body Size IGSF1 "Bulky Gene"		HETEROZYGOUS ONE COPY INSULIN LIKE GROWTH FACTOR (IGF1R) - ASSOCIATED WITH A MEDIUM BODY (BULKY) SIZE
	E Locus (Cattle Dog Cream Variant) e2		E <sup>2</sup> /E <sup>2</sup> - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM
	Brown TYRP1 [Lancashire Heeler Type] = B <sup>l</sup>		B <sup>L</sup> /B <sup>L</sup> - DOES NOT CARRY BROWN/LIVER [TYRP1]
	Brown TYRP1 [Australian Shepherd Type] = B <sup>a</sup>		B <sup>a</sup> /B <sup>a</sup> - 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