

Coat Color and Trait Certificate

Call Name:	Evie	Barcode:	24E89650
Registered Name:	Evie	Registration:	D18232
Breed:	Border Collie	Certificate Date:	4th Nov 2024
Sex:	Female	Microchip Number:	953010006244525
DOB:	5th Nov 2023		

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

Breed Sense	Coat Color/Trait Test	Genotype	Interpretation
✔	E Locus - (Cream/Red/Yellow)		e/e - HOMOZYGOUS FOR NON-EXTENSION [WHITE/YELLOW/APRICOT/W HEATEN]
✔	I Pheomelanin Locus Colour Intensity		I/I - NO COPY OF MFSD12 INTENSITY/CREAM ALLELE (NOT LIKELY TO SHOW EXTREME DILUTION)
✔	Brown Deletion = Bd		B ^d /B ^d - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [DELETION]
✔	Brown Stop Codon = Bs		b ^s /b ^s - BROWN/CHOCOLATE, LIVER OR RED [STOP CODON]
✔	Brown Insertion = Bc		B ^c /B ^c - DOES NOT CARRY BROWN/RED/LIVER or CHOCOLATE [INSERTION]
✔	D (Dilute) Locus		D/D - NO COPY OF MLPH-D ALLELE (DILUTE) - PIGMENT IS NORMAL
✔	K Locus (Dominant Black)		KB / k ^y or k ^{br} - ONE COPY DOMINANT BLACK (KB) and ONE COPY OF NON-BLACK (k ^y) dog MAY be brindled

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✔	A Locus (Agouti)		a^t/a^t - TAN POINTS/BLACK & TAN or TRICOLOUR MAY BE BRINDLED [SEE K LOCUS]
✔	Pied (BOTH SINE and REPEAT VARIANTS)		S/S - NO PIEBALD, WHITE SPOTTING, FLASH OR PARTI COAT COLOUR
✔	M Locus (Merle/Dapple)		m [171bp] / m [171bp] - NON MERLE SOLID COAT (NO CHANGE TO COAT or EYE COLOUR)
✔	Long Hair Gene - L1 (Canine C95F)		POSITIVE - SHOWING THE PHENOTYPE
✔	Curly Coat/Hair Variant 1		ONE COPY OF THE R151W (C1) VARIANT DETECTED - MOST LIKELY TO HAVE MODERATE 'WAVY' CURLY COAT PHENOTYPE
✔	Body Size IGSF1 "Bulky Gene"		NO COPY INSULIN LIKE GROWTH FACTOR (IGF1R) - ASSOCIATED WITH A REDUCTION of BODY (BULKY) SIZE

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	E Locus (Cattle Dog Cream Variant) e2		E ² /E ² - DOMINANT BLACK DOES NOT CARRY "AUSTRALIAN CATTLE DOG" TYPE CREAM
	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 - ONE COPY OF THE DOUBLE COAT (DENSE UNDERCOAT) PHENOTYPE DETECTED