

**Submitted By**

Alex Pruett

**Subject Dog**

 Dog Name: **Venus**

 Breed: **Border Collie**

Phenotype:

 Sex: **Female**

 Birth: **Aug 11, 2022**

 Lab Reference #: **620880**

 Registration: **DN72599001**

 Microchip: **956000015148933**
**Disorder Results (8 of 19)**

CEA	n/n	Negative: Dog is negative for the mutation associated with Collie Eye Anomaly.
DH	n/n	Clear: Dog is negative for the mutation associated with Dental Hypomineralization.
GLAU	n/n	Clear: Dog is negative for the OLFML3 mutation associated with Border Collie Glaucoma.
IGS-1 (Border Collie type)	n/n	Clear: Dog is negative for the mutation associated with IGS.
MDR1	n/n	Clear: Dog is negative for the mutation associated with MDR1.
NCL 5	n/n	Clear: Dog is negative for mutation associated with NCL-5.
SN	n/n	Clear: Dog is negative for the mutation associated with Sensory Neuropathy.
TNS	n/n	Clear: Dog is negative for the mutation associated with Trapped Neutrophil Syndrome.

**Color Results (5 of 19)**

A-Locus	at/at	Dog has two copies of the gene causing tan points.
B-Locus	B/b	Dog carries one copy of the gene responsible for chocolate/brown coloration
D-Locus	D/D	Negative: Dog is negative for the mutation associated with a diluted coat color.
E-Locus	E/E	Dog is negative for cream/yellow and negative for mask.
K-Locus	K <sup>B</sup> /K <sup>B</sup>	Dog has two copies of the KB allele, and will not express the agouti phenotype.

**Pattern Results (2 of 19)**

Merle	n/n	Clear: Dog is negative for the mutation associated with merle.
S-Locus	n/n	Negative: Dog is negative for the S-Locus. No white spotting will be present.

**Trait Results (4 of 19)**

Curl 1&2	n/n	The dog is negative for the hair curl allele. The dog will have non-curly hair, and will always pass on the allele responsible for non-curly hair to any offspring
Furnishings	n/n	Non-Furnished: Dog is negative for the furnishings mutation.
Hair Length (1-5)	l <sup>1</sup> /l <sup>1</sup>	Two copies of the long-hair allele, dog will have longer than average hair per the breed standard.
Shedding	SD/SD	Dog has two copies of the shedding allele. The dog will have a higher propensity towards shedding.