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 Subject: Canine Genetic Test Results
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Preliminary Canine Test Results

Name: Sandra Beck **Account#:** 125890
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Date Received: 2/25/2016

Dog Name	Breed	AYLocus	atLocus	aLocus	Blocus	DLocus	Elocus	EMLocus	Klocus	Slocus
Mr. Sully Cachon Dazzling Doodle	Poodle	n/n	At/At	n/n	b/b	D/D	e/e	n/n	n/KB	S/S

Result Guide:

AYLocus

- AYIAY** Dog has two copies of the gene responsible for fawn/sable coat color.
- nAY** Dog has one copy of the gene responsible for fawn/sable coat color.
- n/n** Dog does not carry the gene responsible for fawn/sable coat color.
- nAYt** Dog has one copy of the gene responsible for fawn/sable coat color.
- AYIAYt** Dog has two copies of the gene responsible for fawn/sable coat color.
- AYtAYt** Dog has two copies of the gene responsible for fawn/sable coat color.

atLocus

- A/At** Dog has two copies of the tan points/tricolor gene.
- n/At** Dog has one copy of the tan points/tricolor gene.
- n/n** Dog does not carry the tan points/tricolor gene.

aLocus

- a/a** Dog has two copies of the gene responsible for recessive black coat color.
- n/a** Dog has one copy of the gene responsible for recessive black coat color.
- n/n** Dog does not carry the gene responsible for recessive black coat color.

Blocus

- b/b** Dog has two copies of the brown/chocolate gene. All black pigment will be modified to brown/chocolate pigmentation.
- B/B** Dog does not carry the brown allele, and can never pass on the gene for brown to future offspring
- B/b** Dog carries a copy of the allele responsible for brown color, and can potentially pass on that allele to future offspring.

DLocus

- d/d** Dog is homozygous for the dilution gene. The dog will always pass on a copy of the dilution gene to any offspring.
- D/D** Dog is negative for the dilution gene.
- D/d** Dog carries the dilution gene, but will appear full color.

Elocus

- e/e** The dog is yellow-based, and will always pass on a copy of the yellow allele to any offspring.
- E/E** Dog does not carry the gene responsible for yellow coat color. This dog will never pass on the allele for yellow coat color.
- E/e** Dog carries the allele responsible for the yellow coat color, and could pass on either allele to any offspring..
- E/eW** Dog carries one copy of the recessive white allele that restricts production of black pigment. The dog can produce black pigment, but can pass on the mutation to any offspring.
- e/eW** Dog carries one copy of the recessive yellow allele and one copy of the recessive white allele, and can pass either allele on to any offspring.
- eW/eW** Dog carries two copies of the recessive white allele, and will always pass on a copy of this allele to any offspring.

EMLocus

- n/n** Dog does not carry allele for melanistic mask.
- EM/EM** Dog has two copies of allele for melanistic mask.
- n/EM** Dog has one copy of the allele for melanistic mask

Klocus

- KB/KB** Dog has two copies of the dominant black gene, and will be self-colored. Dog will always have self-colored offspring.
- n/KB** Dog has one copy of the dominant black gene. Dog is self-colored, and can pass on that gene to any offspring.
- n/n** Dog does not have the dominant black gene, and the color pattern is determined by the Agouti gene.

Slocus

- N/N** Negative: Dog is negative for the spotting or parti-color gene.
- S/S** Dog has two copies of the spotting or parti-color gene, and will always pass on one copy to all offspring.
- N/S** Dog carries one copy of the spotting or parti-color gene, and can pass it on to any offspring.