

Date Received: 31-May-2018

| Dog Name | Breed | Slocus | CEA | DM | MDR1 | vWD3 |
|------------------------------------|-------------------|--------|-----|-----|------|------|
| Foula's Promise Me This (757/0563) | Shetland Sheepdog | N/S | n/n | n/n | n/n | n/n |

Result Guide:

Slocus

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|------------|--|
| 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. |

CEA

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|----------------|---|
| n/n | Clear: Dog tested negative for the Collie Eye Anomaly mutation. |
| CEA/CEA | Affected: Dog carries two copies of the Collie Eye Anomaly mutation, and will be affected by the disorder. The dog will always pass on a copy of the CEA mutation to any offspring. |
| n/CEA | Carrier: Dog carries one copy of the Collie Eye Anomaly mutation, and could pass the mutation on to any offspring. |

DM

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|--------------|---|
| n/n | Clear: Dog is negative for the Degenerative Myelopathy mutation. |
| DM/DM | At Risk: Dog has a significantly higher risk of developing DM, and will always pass on a copy of the mutation to its offspring. |
| n/DM | Carrier: Dog carries one copy of the mutation associated with Degenerative Myelopathy, and could pass on the mutation to any offspring. |

vWD3

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|------------------|---|
| n/n | Clear: Dog tested negative for the von Willebrands type 3 mutation. |
| vWD3/vWD3 | Affected: Dog carries two copies of the von Willebrands type 3 mutation, and will be affected by the disorder. The dog will always pass on a copy of the mutation to any offspring. |
| n/vWD3 | Carrier: Dog carries one copy of the von Willebrands type 3 mutation, and could pass the mutation on to any offspring. |

MDR1

MDR/MDR

Affected

The dog carries two copies of the mutant gene and is homozygous for the MDR1 mutation. The dog will react to Ivermectin, or other listed drugs, and will always pass a copy of the mutated gene to its offspring.

MDR/n Carrier

Both the normal and mutant copies of the gene detected. Dog is a carrier for the MDR1 mutation, and can pass on a copy of the defective gene to its offspring 50% of the time.

n/n Clear Dog tested negative for the MDR gene mutation, and will not pass on the defective gene to its offspring