

Sample ID: 2311-W-57415  
Report Date: 08/11/2023

Your Ref: -  
Our Ref: 10803

**Veterinary Surgeon**

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**Owner**

Mrs Abigail Melonie 64 St Marks Road Burnham on Sea Somerset TA8 2BD United Kingdom  abigail.melonie@outlook.com
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**Animal Details**

<b>Animal:</b> Dog (Canine)	<b>D.O.B</b> 06/03/2023
<b>Name</b> Doone From Angelpath Bok Atirakin (Doone)	<b>Microchip No.</b> 191035000159049
<b>Breed</b> Rough Collie	<b>Registration</b> BA0922234
<b>Sex</b> Male	<b>Tattoo No.</b>

**Sample**

<b>Sample Material</b> Swab	<b>Sample received:</b> 28/10/2023
<b>Sample Date:</b> 26/10/2023	

**Test**

<b>Test Name:</b> 8158D Degenerative Myelopathy (Exon 2)
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**Result**

**Genotype:** N/N (exon 2) (Genetically Clear)  
**Interpretation:** The examined animal is homozygous for the wildtype allele. It does not carry the high-risk factor for DM in exon 2 of the SOD1-gene.

Trait of inheritance: autosomal-recessive

Please note: In the Bernese Mountain Dog breed the mutation in exon 1 of the SOD1-gene also occurs in correlation with DM.

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\*\*\*\*\* END OF RESULT \*\*\*\*\*

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<b>Sex</b> Male	<b>Tattoo No.</b>

**Sample**

<b>Sample Material</b> Swab	<b>Sample received:</b> 28/10/2023
<b>Sample Date:</b> 26/10/2023	

**Test**

<b>Test Name:</b> 8373 Inflammatory Pulmonary Disease (IPD)
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**Result**

<b>Genotype:</b> N/N (Genetically Clear)
<b>Interpretation:</b> The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for IPD in the AKNA-gene.  Trait of inheritance: autosomal-recessive  Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Collie  The current result is only valid for the sample submitted to our laboratory.

\*\*\*\*\* END OF RESULT \*\*\*\*\*

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UK Office: LABOKLIN (UK) Unit 20, Wheel Forge Way, Trafford Park, Manchester, M17 1EH  
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**Animal Details**

Animal:	Dog (Canine)	D.O.B	06/03/2023
Name	Doone From Angelspath Bok Atirakin (Doone)	Microchip No.	191035000159049
Breed	Rough Collie	Registration	BA0922234
Sex	Male	Tattoo No.	

**Sample**

Sample Material	Swab	Sample received:	28/10/2023
Sample Date:	26/10/2023		

**Test**

Test Name:	8032 MDR1 Gene Variant / Ivermectin Sensitivity
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**Result**

Genotype:	MDR1/MDR1 (-/-) (Genetically Affected)
Interpretation:	<p>The examined animal is homozygous for the causative mutation MDR in the ABCB1-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>The dog will develop ivermectin hypersensitivity caused by this mutation and will pass the defect onto its offspring with a probability of 100%.</p> <p>Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Australian Shepherd, Border Collie, Elo, German Shepherd, Longhaired Whippet, McNab, Old English Sheepdog, Rough/Smooth Collie, Shetland Sheepdog, Silken Windhound, Wäller, White Shepherd</p> <p>Please note: in individual cases, heterozygous dogs can show clinical signs!</p> <p>The current result is only valid for the sample submitted to our laboratory.</p>

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Name	Doone From Angelspath Bok Atirakin (Doone)	Microchip No.	191035000159049
Breed	Rough Collie	Registration	BA0922234
Sex	Male	Tattoo No.	

**Sample**

Sample Material	Swab	Sample received:	28/10/2023
Sample Date:	26/10/2023		

**Test**

Test Name:	8532 Dermatomyositis (DMS)
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**Result**

<p><b>Genotypes:</b></p> <p style="margin-left: 40px;">Locus A (PAN2)                    A/a Locus B (MAP3K7CL)                b/b Locus C (DLA-DRB1)    C/c (DRB1*00201/DRB1*01501)</p> <p style="text-align: center;">Results are only valid for the submitted sample.</p> <p><b>Assessment of Risk:</b> The likelihood of an individual dog developing DMS can be classified as low (0%-5%), moderate (33%-50%), or high(90%-100%) based on the genotype combination of Locus A (PAN2), Locus B (MAP3K7CL), and Locus C (DLA-DRB1). Wild type alleles of loci A and B are represented by lower case letters, a and b, while the risk alleles are represented by upper case letters A and B. The risk allele at DLA complex (DLA-DRB1*002:01) is referred to as C, and the lower case letter c represents any alternate allele for DLA-DRB1.</p> <p>LOW RISK GENOTYPES: aabbCC, aabbCc, AabbCC, AabbCc, aaBbCC, aaBbCc, AaBbCC, AaBbCc, aaBBCC</p> <p>MODERATE RISK GENOTYPES: AAbbCC, AAbbCc, aaBBCC, AaBBCC, AABbCc</p> <p>HIGH RISK GENOTYPES: AABbCC, AaBBCC, AABCC, AABCCc</p> <p>Scientific studies found correlation between these markers and signs of the disease in the following breeds: Collie, Shetland Sheepdog</p>
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<b>Breed</b> Rough Collie	<b>Registration</b> BA0922234
<b>Sex</b> Male	<b>Tattoo No.</b>

**Sample**

<b>Sample Material</b> Swab	<b>Sample received:</b> 28/10/2023
<b>Sample Date:</b> 26/10/2023	

**Test**

<b>Test Name:</b> 8309 Progressive Retinal Atrophy (rcd2-PRA)
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**Result**

<b>Genotype:</b> N/N (Genetically Clear)
<b>Interpretation:</b> The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for rcd2-PRA in the RD3-gene.  Trait of inheritance: autosomal-recessive  Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Collie.  The current result is only valid for the sample submitted to our laboratory.

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<b>Breed</b> Rough Collie	<b>Registration</b> BA0922234
<b>Sex</b> Male	<b>Tattoo No.</b>

**Sample**

<b>Sample Material</b> Swab	<b>Sample received:</b> 28/10/2023
<b>Sample Date:</b> 26/10/2023	

**Test**

<b>Test Name:</b> 8304 Collie Eye Anomaly (CEA) *
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**Result**

<b>Genotype:</b> CEA / CEA (Genetically Affected)
<b>Interpretation:</b> The examined animal is homozygous for the causative mutation for CEA in the NHEJ1-gene.  Trait of inheritance: autosomal-recessive  Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: Australian Shepherd, Bearded Collie, Border Collie, Boykin Spaniel, Hokkaido, Lancashire Heeler, Longhaired Whippet, Nova Scotia Duck Tolling Retriever, Rough/Smooth Collie, Shetland Sheepdogs, Silken Windhound  The current result is only valid for the sample submitted to our laboratory.  * test performed by partner lab

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Breed	Rough Collie	Registration	BA0922234
Sex	Male	Tattoo No.	

Sample

Sample Material	Swab	Sample received:	28/10/2023
Sample Date:	26/10/2023		

Your dog's DNA will be stored for 5 years and will be available for further testing. If you wish to order further tests on this dog, you don't have to submit a new sample; simply write the above sample ID on the order form, or mark which test(s) you require from the list below and return together with the order form. You can also order by calling us on 0161 282 3066 and quoting the sample ID.

The following tests are available for *Rough Collie*:

- 8098 Canine Cyclic Neutropenia (Gray Collie Syndrome)
- 8304 • Collie Eye Anomaly (CEA) / Choroidal Hypoplasia (CH) •
- 8006 DNA ID Profile (Genetic Fingerprint)
- 8158D • Degenerative Myelopathy (DM Exon 2) (All Breeds) •
- 8532 Dermatomyositis (DMS)
- 8154D Hyperuricosuria (HUU, SLC) (All Breeds)
- 8373 Inflammatory Pulmonary Disease (IPD)
- 8032 • MDR1 Gene Variant / Ivermectin Sensitivity •
- 8062 MH (Malignant Hyperthermia) (All Breeds)
- 8309 • Progressive Retinal Atrophy (rcd2-PRA) •
- 8747 Robinow-like Syndrome (DVL2)
- 8344 **Special Offer:** DM Exon2 • + MDR1 •
- 8625 **Collie DNA Bundle:** CEA + DM exon2 • + HUU (SLC) + MDR1 • + rcd2-PRA • + DMS

• These tests are part of the Official UK Kennel Club DNA testing scheme, please sign the declaration.

**Coat Colours**

- 8144 A Locus Agouti (Fawn / Sable, Black and Tan / Tricolour, Recessive Black)
- 8145 K Locus (KB Dominant Black / ky only - does not check for brindle)
- 8188 M Locus / Merle Gene / Dapple (merle / Cryptic Merle)
- 8243D S Locus (Piebald, Spotted White) \*

**Declaration:** I accept that, for UK registered dogs, results of the tests above which are part of the Official UK Kennel Club DNA testing scheme will be sent to the Kennel Club and published as part of the Kennel Club scheme.

Signed ..... (owner / agent) Date: .....

\* Please note stored DNA may not always be sufficient for additional tests, and this depends on the quality of the original sample and the number of tests ordered

\*\*\*\*\* END OF RESULT \*\*\*\*\*

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