

Sample ID: 1812-W-64207  
Result Date: 04/12/2018

**Veterinary Surgeon**

HAMPTON VETERINARY CENTRE  
POST OFFICE LANE  
HAMPTON HEATH  
MALPAS  
CHESHIRE  
SY14 8JQ  
  
info@hamptonvet.co.uk

**Owner**

MS JEANETTE NEWTON  
  
rockforce@btopenworld.com

**Animal Details**

<b>Animal:</b>	CANINE	<b>D.O.B</b>	22/11/2017
<b>Name</b>	STRETTONHILL'S MADE TO ORDER FOR ROCKFORCE (BANDIT)	<b>Microchip No.</b>	900200000861531
<b>Breed</b>	GERMAN SHEPHERD DOG	<b>KC Reg</b>	AU04590101
<b>Sex</b>	MALE	<b>Tattoo No.</b>	

**Sample**

<b>Sample Material</b>	EDTA BLOOD	<b>Sample received:</b>	30/11/2011
<b>Sample Date:</b>			

**Test**

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

**Genotype:** N/N (exon 2) (Clear)

**Interpretation:** The dog is homozygous normal for the intact SOD1-gene.

The dog does not carry the mutation in exon 2 of the SOD1 that is suggested to be a major risk factor for the development of Degenerative Myelopathy.

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

The dog can pass only the normal gene on to all its offspring.

The currently known mutation has been analysed.

The result is only valid for the submitted sample.

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

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Breed	GERMAN SHEPHERD DOG	KC Reg	AU04590101
Sex	MALE	Tattoo No.	

### Sample

Sample Material	EDTA BLOOD	Sample received:	30/11/2011
Sample Date:			

### Test

Test Name:	8154D Hyperuricosuria (All Dog Breeds, American Bulldog, Black Russian Terrier, Bulldog, Dalmatian, French Bull Dog)
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### Result

Genotype:	N / N (Clear)
Interpretation:	<p>The examined animal is homozygous for the Wild-type allele.</p> <p>It does not carry the HUU causative mutation in the SLC2A9-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>The currently known mutation has been analysed.</p> <p>The result is only valid for the submitted sample.</p>

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Breed	GERMAN SHEPHERD DOG	KC Reg	AU04590101
Sex	MALE	Tattoo No.	

### Sample

Sample Material	EDTA BLOOD	Sample received:	30/11/2011
Sample Date:			

### Test

Test Name:	8124 Coat (Hair) Length I (H1Hd1 SNP G284T)
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### Result

Genotype:	l/l (long hair)
Interpretation:	<p>The examined animal is homozygous for the l-allele.</p> <p>The test detects the alleles L (short hair) and l (long hair).</p> <p>Allelic series: L dominant over l</p> <p>The currently known mutation has been analysed.</p> <p>Please note: We have changed the nomenclature of the gene for hair length according to the international standard: Genotype LL is in accordance with genotype KK of the old nomenclature; genotype Ll is in accordance with genotype KL of the old nomenclature; genotype ll is in accordance with genotype LL of the old nomenclature.</p>

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<b>Breed</b>	GERMAN SHEPHERD DOG	<b>KC Reg</b>	AU04590101
<b>Sex</b>	MALE	<b>Tattoo No.</b>	

**Sample**

<b>Sample Material</b>	EDTA BLOOD	<b>Sample received:</b>	30/11/2011
<b>Sample Date:</b>			

**Test**

<b>Test Name:</b>	8142 Dwarfism (Pituitary Dwarfism / Hypopituitarism )
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**Result**

<b>Genotype:</b>	N/N (Clear)
<b>Interpretation:</b>	<p>The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for Dwarfism in the LHX3-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: German Shepherd, Saarlooswolfdog, Czechoslovakian Wolfdog</p> <p>This result is only valid for the submitted sample material.</p>

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<b>Breed</b>	GERMAN SHEPHERD DOG	<b>KC Reg</b>	AU04590101
<b>Sex</b>	MALE	<b>Tattoo No.</b>	

**Sample**

<b>Sample Material</b>	EDTA BLOOD	<b>Sample received:</b>	30/11/2011
<b>Sample Date:</b>			

**Test**

<b>Test Name:</b>	8032 MDR1 Gene Defect / Ivermectin Sensitivity
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**Result**

<b>Genotype:</b>	N/N (+/+) (Clear)
<b>Interpretation:</b>	<p>The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for MDR in the ABCB1-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>Scientific studies found association 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, Waller and White Shepherd</p> <p>The DNA-test is run according to the publication of Mealey et al. (2001) "Ivermectin sensitivity in collies is associated with a deletion mutation of the mdrl gene." and detects the mutation MDR1 nt230 (del4).</p> <p>The result is only valid for the submitted sample.</p>

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Breed	GERMAN SHEPHERD DOG	KC Reg	AU04590101
Sex	MALE	Tattoo No.	

### Sample

Sample Material	EDTA BLOOD	Sample received:	30/11/2011
Sample Date:			

### Test

Test Name:	8473 Mucopolysaccharidosis type VII (MPS VII)
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### Result

Genotype:	N / N (CLEAR)
Interpretation:	<p>The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for Mucopolysaccharidosis type VII in the GUSB-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>The test result is only valid for the submitted sample.</p>

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

**Sample**

<b>Sample Material</b>	EDTA BLOOD	<b>Sample received:</b>	30/11/2011
<b>Sample Date:</b>			

**Test**

<b>Test Name:</b>	8222D HAEMOPHILIA A (FACTOR VIII DEFICIENCY) IN GERMAN SHEPHERD
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**Result**

CLEAR

<b>Genotype:</b>	FEMALE: X(N)/X(N)                      MALE: X(N)/Y
<b>Interpretation:</b>	The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for Haemophilia A in the FVIII-gene.  Trait of inheritance: X chromosomal-recessive  Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: German Shepherd  The current result is only valid for the sample submitted to our laboratory.

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

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

**Sample**

<b>Sample Material</b>	EDTA BLOOD	<b>Sample received:</b>	30/11/2011
<b>Sample Date:</b>			

**Test**

<b>Test Name:</b>	8006 DNA PROFILE
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**Result**

microsatellite-system:

Amelogenin:	Y/X
AHT 121:	102/104
AHT 137:	131/131
AHTH 130:	131/131
AHTH 171:	219/219
AHTH 260:	-/-
AHTK 211:	87/95
AHTK 253:	288/294
CXX 279:	116/118
FH 2054:	152/164
FH 2848:	240/242
INRA 21:	95/95
INU 005:	126/126
INU 030:	146/150
INU 055:	210/218
REN 105 L 03:	227/227
REN 162 C 04:	206/206
REN 169 D 01:	216/216
REN 169 O 18:	168/168
REN 247 M 23:	270/270
REN 54 P 11:	234/234
REN 64 E 19:	155/155

Nomenclature is based on ISAG comparison test 2006 standards.

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

**Sample**

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<b>Sample Date:</b>			

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 *German Shepherd*:

- 8258D Achromatopsia (ACHM) (Day Blindness)
- 8158D • Degenerative Myelopathy (DM Exon 2) •
- 8006 DNA ID Profile (Genetic Fingerprint)
- 8142 Dwarfism (Pituitary Dwarfism / Hypopituitarism)
- 8222D Haemophilia A (Factor VIII Deficiency)
- 8319 Hemorrhagic Diathesis (HD) / Bleeding Diathesis (Canine Scott Syndrome)
- 8154D Hyperuricosuria (HUU, SLC) (All Breeds)
- 8327 Leukocyte Adhesion Deficiency type III (LAD III)
- 8032 MDR1 Gene Defect / Ivermectin Sensitivity \*
- 8062 MH (Malignant Hyperthermia) (All Breeds)
- 8069 MPS (Mucopolysaccharidosis Type VII)
- 8301 Renal Cystadenocarcinoma and Nodular Dermatofibrosis (RCND)
- 8344 **Special Offer:** Degenerative Myelopathy (DM Exon 2) + MDR1 Gene Defect / Ivermectin Sensitivity \*

• This test is part of the Official UK Kennel Club DNA testing scheme, please sign the declaration below.

**Coat Colours / Length**

- 8144 A Locus Agouti (Fawn / Sable, Black and Tan / Tricolour, Recessive Black)
- 8124 Coat (Hair) Length I
- 8018 E Locus
- 8146 EM Locus Melanistic Mask Allele (Em)

**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: .....

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

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