

Sample ID: 2404-W-62793
Report Date: 17/04/2024

Your Ref: -
Our Ref: 18255

Veterinary Surgeon

Moy Vets Limited
Carr Lane
Hambleton
FY6 9DW

hambleton@moyvets.co.uk

Owner

Ms Jeanette Newton

rockforce@btopenworld.com

Animal Details

Animal:	Dog (Canine)	D.O.B	25/03/2023
Name	Chizzel von der Osterwiese at Rockforce (Chizzel)	Microchip No.	981189900132968
Breed	German Shepherd	Registration	BA0922662
Sex	Male	Tattoo No.	

Sample

Sample Material	EDTA-Blood	Sample received:	09/04/2024
Sample Date:	08/04/2024		

Test

Test Name: 8158 Degenerative Myelopathy (Exon 2)

Result

Genotype: N/N (exon 2)
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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Sample

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Sample Date:	08/04/2024		

Test

Test Name:	8154 Hyperuricosuria / Urate Stones (HUU / SLC)
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Result

Genotype:	N / N (Genetically Clear)
Interpretation:	<p>The examined animal is homozygous for the wildtype-allele. It does not carry the causative mutation for HUU in the SLC2A9-gene.</p> <p>Trait of inheritance: autosomal-recessive</p> <p>The current result is only valid for the sample submitted to our laboratory.</p>

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Sample

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Sample Date:	08/04/2024		

Test

Test Name:	8124 Coat (Hair) Length I (HIHd1 SNP G284T)
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Result

Genotype:	I/I
Interpretation:	<p>The test detects the alleles L (shorthair) and I (longhair) in the FGF5 gene.</p> <p>Allelic series: L dominant over I</p> <p>genotype I/I: The analysed sample is homozygous for the I-allele for long-haired.</p> <p>Please note: Further causative mutations for longhaired have been found in the following breeds: Afghan Hound, Akita Inu, Alaskan Malamute, Chow Chow, Eurasian, French Bulldog, Husky, Prague Rattler, Shar Pei, Samoyed The additional mutations might be responsible for longhair in further breeds.</p>

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Sample

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Test

Test Name:	8032 MDR1 Gene Variant / Ivermectin Sensitivity
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Result

Genotype:	N/N (+/+) (Genetically Clear)
Interpretation:	The examined animal is homozygous for the wildtype - allele. It does not carry the causative mutation for MDR in the ABCB1-gene. Trait of inheritance: autosomal-recessive 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 Please note: in individual cases, heterozygous dogs can show clinical signs! 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 mdr1 gene." and detects the mutation MDR1 nt230 (del4). The current result is only valid for the sample submitted to our laboratory.

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

LABOKLIN is an DIN ISO 17025 (AKS-PL-20922) Accredited Laboratory

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

t. 0161 282 3066 - e. Info@laboklin.co.uk - w. www.laboklin.co.uk

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Sample

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Test

Test Name: 8142 Dwarfism (Pituitary Dwarfism / Hypopituitarism)

Result

Genotype: N/N (Genetically Clear)
 Interpretation: The examined animal is homozygous for the wild type allele. It does not carry the causative mutation for Dwarfism in the LHX3-gene.

Trait of inheritance: autosomal-recessive

Scientific studies found correlation between the mutation and symptoms of the disease in the following breeds: German Shepherd, Saarlooswolfdog, Czechoslovakian Wolfdog, Tibetan Terrier, White Swiss Shepherd Dog

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Test

Test Name: 8689 Haemophilia A (Factor VIII Deficiency)

Result

Genotype: female: X(N)/X(N) male: X(N)/Y (Genetically Clear)
 Interpretation: The examined animal is homozygous for the wildtype 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

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Test

Test Name:	8781 Congenital idiopathic megaesophagus (CIM)
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Result

Genotype:	N / N
Interpretation:	<p>The examined animal is homozygous for the wildtype-allele. It does not carry the high-risk factor for CIM in the MCHR2-gene.</p> <p>This result is only valid for the submitted sample material.</p>

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Test

Test Name:	8144 A-LOCUS AGOUTI
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Result

Genotype:	AG / a (Wild Colours / recessive black)
Interpretation:	ASIP haplotype analysis ASIP haplotype: Genotype AG/a
<p>Interpretation: The genotype AG/a has been found for the submitted samples ASIP haplotypes. The corresponding dog is heterozygous for the AG allele for agouti wildtype and the a allele for recessive unicolor.</p> <p>‘Black’ refers to the base eumelanin colour which can be black, brown, blue, lilac, etc as determined by other genes. The genotypes for the variants VP and HCP logically determine two ASIP haplotypes (DY, SY, AG, BS, BB1-3) each. Together with the knockout variant a the final genotypes of the A-locus can be calculated.</p> <p>The allelic row of the ASIP haplotypes can be found in the table attached or with the following link: https://www.laboklin.co.uk/laboklin/showGeneticTest.jsp?testID=8144</p>	

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Test

Test Name:	8107 DNA PROFILE
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Result

microsatellite-system:	
Amelogenin:	Y/X
AHT 121:	98/102
AHT 137:	131/131
AHTH 130:	127/131
AHTH 171:	223/223
AHTH 260:	238/246
AHTK 211:	87/95
AHTK 253:	288/296
CXX 279:	116/116
FH 2054:	152/152
FH 2848:	240/242
INRA 21:	95/99
INU 005:	110/126
INU 030:	146/146
INU 055:	218/218
REN 105 L 03:	227/227
REN 162 C 04:	206/212
REN 169 D 01:	212/216
REN 169 O 18:	164/174
REN 247 M 23:	270/270
REN 54 P 11:	226/232
REN 64 E 19:	153/153
The nomenclature is based on the standard of the ISAG Comparison Test 2006.	

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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 Variant / 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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