

Animal : **S'Bindu de la Bergerie du Lac**

Identification No. :	250 269 610 197 061	Owner :	Emma VAN SANTEN
Breed :	Altdeutsche Schäferhunde	Sample No. :	E00845248 (sampled on 14/08/2023)
Gender :	Male	Result code :	A00045644
Birth date:	12/07/2022	Sampler :	Bertrand LEPOINT (Veterinarian - Order No. : 16625)
Pedigree :			Sample authenticated
Result validated on :	01/09/2023	Document issued on :	01/09/2023

DISEASES	GENE Mutation	Expression mode	RESULT	EXPRESSION	TRANSMISSION
				✓	✓
Degenerative Myelopathy	SOD1 c.118G>A	Autosomal recessive	Normal homozygous	✓	✓
Pituitary Dwarfism	LHX3 7pb del intron 5	Autosomal recessive	Normal homozygous	✓	✓
Hyperuricosuria	SLC2A9 c.616G>T	Autosomal recessive	Normal homozygous	✓	✓
Multidrug Sensitivity (MDR1)	MDR1 c.227_230delATAG	Autosomal codominant	Normal homozygous	✓	✓
Scott Syndrome	TMEM16F g.8912219G>A	Autosomal recessive	Normal homozygous	✓	✓

INTERPRETATION OF THE RESULT	EXPRESSION	TRANSMISSION
<p>Normal homozygous : the animal carries 2 normal copies of the gene.</p> <p>Heterozygous : the animal carries a normal copy and a defective copy of the gene.</p> <p>Mutated homozygous : the animal carries 2 defective copies of the gene.</p>	<p>✓ The animal will not develop the form of the disease associated to the tested mutation.</p> <p>! The animal will develop the disease without being able to predict the age of onset or severity of symptoms.</p>	<p>The animal does not transmit the tested mutation.</p> <p>The animal will transmit the tested mutation to all or part of its offspring. Reproduction is to be avoided or adapted according to the disease and the associated frequency.</p>

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MORPHOLOGICAL TRAITS

	GENE Mutation	Expression mode	RESULT
A Locus - Agouti			
a	ASIP c.286C>T	Autosomal recessive	a ^w /a
A ^y	ASIP c.244G>T/248G>A	Autosomal dominant	a ^w /a ^w
B Locus - Brown			
Non-carrier of brown (B/B)			
b ^a	TYRP1 c.555T>G	Autosomal recessive	B/B
b ^c	TYRP1 c.121T>A	Autosomal recessive	B/B
b ^d	TYRP1 c.1033_1035del	Autosomal recessive	B/B
b ^e	TYRP1 c.1025T>G	Autosomal recessive	B/B
b ^s	TYRP1 c.991C>T	Autosomal recessive	B/B
D Locus - Dilution			
Non-carrier of dilution (D/D)			
d	MLPH c.-22G>A	Autosomal recessive	D/D
d ²	MLPH c.705G>C	Autosomal recessive	D/D
d ³	MLPH c.667_668insC	Autosomal recessive	D/D
E Locus - Extension			
Melanistic mask (E^m/E)			
e	MC1R c.916C>T	Autosomal recessive	E/E
e ²	MC1R g.63695679C>G	Autosomal recessive	E/E
e ³	MC1R c.816_817delCT	Autosomal recessive	E/E
E ^m	MC1R c.790A>G	Autosomal dominant	E ^m /E
I Locus - Intensity (i)			
High to moderate intensity (carrier I/i)			
I Locus - Intensity (i)			
K Locus - Dominant Black (K^b)			
Not expressed (k^y/k^y)			
K Locus - Dominant Black (K^b)			
Curly or Wavy Coat (c¹)			
Non-carrier (C/C)			
Curly or Wavy Coat (c¹)			
Polydactyly			
Non-carrier of polydactyly			
Polydactyly			
Shedding			
High shedding			
Shedding			