

## Dog Information

<b>Arrack's Home zet-Arrack (Arrack)</b> NAME	<b>Male</b> SEX
<b>Belgian Shepherd</b> GENETIC BREED	<b>November 1st, 2016</b> DATE OF BIRTH
<b>Dutch kennel club (FCI): NHSB 3062918</b> REGISTRATION	<b>528140000660558</b> MICROCHIP





**Marc Peeters**

OWNER NAME

**Canine Genetic Health Screen**  
TEST

**December 13th, 2018**  
TEST DATE

## BREED HEALTH TESTS

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1(A)	GG	Clear	
Spongy Degeneration with Cerebellar Ataxia 1, SDCA1, SeSAME/EAST Syndrome	KCNJ10	AA	Clear	
Spongy Degeneration with Cerebellar Ataxia 2, SDCA2	ATP1B2	AA	Clear	
Mucopolysaccharidosis Type VII, Sly Syndrome, MPS VII	GUSB	GG	Clear	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		12%
MHC Class II - DLA DRB1		No Diversity
MHC Class II - DLA DQA1 and DQB1		No Diversity

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## TRAIT TESTS (1/2)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	E <sup>m</sup> E <sup>m</sup>
K Locus (CBD103)	More likely to have a patterned haircoat	k <sup>Y</sup> k <sup>Y</sup>
Intensity Loci LINKAGE	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Fawn Sable coat color pattern	a <sup>Y</sup> a <sup>w</sup>
D Locus (MLPH)	Dark areas of hair and skin are not lightened	DD
B Locus (TYRP1)	Black or gray hair and skin	BB
Saddle Tan (RALY)	Not expressed	NI
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	No merle alleles	mm
H Locus (Harlequin)	No harlequin alleles	hh
Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSP02) LINKAGE	Likely unfurnished (no mustache, beard, and/or eyebrows)	II
Coat Length (FGF5)	Likely short or mid-length coat	GG
Shedding (MC5R)	Likely heavy/seasonal shedding	CC
Hairlessness (FOX13) LINKAGE	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN

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## TRAIT TESTS (2/2)

Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Larger	NN
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Intermediate	GA
Body Size (GHR - P177L)	Larger	CC

Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC) LINKAGE	Normal food motivation	NN