Animal Genetics

Generated on: 10/21/2026

3382 Capital Circle NE
Tallahassee, FL 32308

Genetic Testing Report
Gandalf

Submitted By	Owned By
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Subject Dog

Name: Gandalf
Breed: English Bulldog
Phenotype: Lilac Merle
Sex: Male
Birth: 10/10/2022

Lab Reference #: 851570
Sample Date: 10/17/2024
Research Date: 10/17/2024

Disorder Results(5 of 16)

CMR1	**n/CMR1**	Carrier: Dog has one copy of the Canine Multifocal Retinopathy Type 1 mutation. The dog is not affected by CMR1 but may pass the mutation to offspring.
CY3- var. 2	**CY/CY**	Dog has two copies of the variant linked to cystinuria in bulldogs, and may be affected based on gender and additional factors.
CY3- var. 3	**n/n**	Dog is negative for variant somewhat linked to cystinuria in bulldogs.
DM	**n/n**	Clear: Dog is negative for mutation associated with Degenerative Myelopathy.
HUU	**n/n**	Clear: Dog is negative for the mutation associated with Hyperuricosuria.

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Color Results(6 of 16)		
A-Locus	**at/at**	Dog has two copies of the gene causing tan points.
Albinism	**n/n**	Dog is negative for the allele causing albinism in some small breeds.
B-Locus	**b/b**	Dog has two copies of the brown/chocolate gene.
D-Locus	**d/d**	Homozygous: Dog has two copies of the d1 mutation associated with a diluted coat color. The dog's base coat will be diluted.
E-Locus	**EM/E**	Dog is negative for cream/yellow and has one copy of mask.
K-Locus	**n/n**	Dog is negative for the KB allele, and the coat coloration will be based on the agouti genotype.
Pattern Results(1 of 16)		
S-Locus	**n/n**	Negative: Dog is negative for the S-Locus. No white spotting will be present.
Trait Results(4 of 16)		
Curl 1&2	**n/n**	The dog is negative for the hair curl allele. The dog will have non-curly hair, and will always pass on the allele responsible for non-curly hair to any offspring
Furnishings	**n/n**	Non-Furnished: Dog is negative for the furnishings mutation.
Hair Length (1-5)	**L/L**	Negative for long coat allele
Shedding	**n/n**	Dog has no copies of the shedding allele. The dog will have a low propensity towards shedding.