

## Dog Information

Circle B's Alpha Romeo (Romeo) NAME	Female SEX
Olde English Bulldogge BREED ANCESTRY	September 5th, 2023 DATE OF BIRTH
International Olde English Bulldogge Association (IOEBA) REGISTRATION	n/a MICROCHIP

Cassandra J Day  
OWNER NAME

Canine Genetic Health Screen  
TEST

October 25th, 2024  
TEST DATE

## BREED HEALTH TESTS

To ensure completeness, this report includes all carrier and at risk results for this dog.

DISEASE	GENE	GENOTYPE	RESULT	TESTING RECOMMENDED BY
Degenerative Myelopathy, DM	SOD1A	GA	1 Variant	
Canine Multifocal Retinopathy, cmr1	BEST1/VMD2 Exon 2	CC	Clear	
Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU	SLC2A9 (Exon 5)	GG	Clear	
Ichthyosis	NIPAL4 (Exon 6)	NN	Clear	
L-2-Hydroxyglutaricaciduria, L2HGA	L2HGDH	TTC/TTC	Clear	
Nemaline Myopathy	NEB	CC	Clear	
Neuronal Ceroid Lipofuscinosis 10, NCL 10	CTSD (Exon 5)	GG	Clear	
Neuronal Ceroid Lipofuscinosis, Cerebellar Ataxia, NCL4A	ARSG (Exon 2)	GG	Clear	
Progressive Retinal Atrophy, crd1	PDE6B	NN	Clear	
Copper Toxicosis (Accumulating)	ATP7B	GA	1 Variant	

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## INBREEDING AND DIVERSITY

Genetic Diversity	RESULT	GENETIC RESULT
Coefficient Of Inbreeding		17%
MHC Class II - DLA DRB1		High Diversity
MHC Class II - DLA DQA1 and DQB1		High Diversity

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## TRAIT TESTS (1/3)

Coat Color	RESULT	GENETIC RESULT
E Locus (MC1R)	Can have a melanistic mask	$E^m E^m$
K Locus (CBD103)	More likely to have a patterned haircoat	$k^Y k^Y$
Intensity Loci	Any light hair likely yellow or tan	Intermediate Red Pigmentation
A Locus (ASIP)	Fawn Sable coat color pattern	$a^Y a^t$
D Locus (MLPH)	Dark areas of hair and skin are lightened	dd
Cocoa (HPS3)		NN
B Locus (TYRP1)	Black or grey or brown hair and skin	Bb or bb
Saddle Tan (RALY)	Not expressed	NI
S Locus (MITF)	Likely to have little to no white in coat	SS
M Locus (PMEL)	One merle allele; may express merle	$M^* m$
R Locus (USH2A)	Likely no impact on coat pattern	rr

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## TRAIT TESTS (2/3)

Coat Color	RESULT	GENETIC RESULT
H Locus (Harlequin)	No harlequin alleles	hh
Panda White Spotting	Not expected to display Panda pattern	NN

  

Other Coat Traits	RESULT	GENETIC RESULT
Furnishings (RSPO2)	Likely unfurnished (no mustache, beard, and/or eyebrows)	ll
Coat Length (FGF5)	Likely short or mid-length coat	ShSh
Shedding (MC5R)	Likely light shedding	TT
Coat Texture (KRT71)	Likely straight coat	CC
Hairlessness (FOXI3)	Very unlikely to be hairless	NN
Hairlessness (SGK3)	Very unlikely to be hairless	NN
Oculocutaneous Albinism Type 2 (SLC45A2)	Likely not albino	NN

  

Other Body Features	RESULT	GENETIC RESULT
Muzzle Length (BMP3)	Likely short muzzle	AA
Tail Length (T)	Likely normal-length tail	CC

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## TRAIT TESTS (3/3)

Other Body Features	RESULT	GENETIC RESULT
Hind Dewclaws (LMBR1)	Unlikely to have hind dew claws	CC
Chondrodysplasia (Chr. 18 FGF4 Retrogene)	Not indicative of chondrodysplasia (normal leg length)	NN
Blue Eye Color (ALX4)	Less likely to have blue eyes	NN
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling	CC
Body Size	RESULT	GENETIC RESULT
Body Size (IGF1)	Intermediate	NI
Body Size (IGFR1)	Larger	GG
Body Size (STC2)	Larger	TT
Body Size (GHR - E191K)	Larger	GG
Body Size (GHR - P177L)	Larger	CC
Performance	RESULT	GENETIC RESULT
Altitude Adaptation (EPAS1)	Normal altitude tolerance	GG
Appetite (POMC)	Normal food motivation	NN