

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information:

Name: WOODLANDS EBONY

Registration: NP79625801

Case: Date Received: Report Issue Date: Report ID:

NCD217397

04-Apr-2023 12-Apr-2023 7277-6340-5343-9131

lion: **NF7902500**1

Verify report at www.vgl.ucdavis.edu/verify

DOB: 06/27/2022 Sex: Female Breed: French Bulldog

RESULT		INTERPRETATION	
MC1R (E LOCUS)	E ^m /E ^m	2 copies of mask.	
BROWN (B LOCUS)	B/B	Does not carry brown - cannot have brown offspring.	
DILUTE (D LOCUS)	D/d ¹	Carries 1 copy of the dilution variant.	
DOMINANT BLACK (K LOCUS)	K/N	1 copy of dominant black is present. *	
LEGACY AGOUTI	a/a	Homozygous for recessive black.	
AGOUTI (A LOCUS)	ASIP ^a /ASIP ^a	Two copies of recessive black.	
MERLE	N/N	No copies of the merle associated SINE insertion.	
PIEBALD (S LOCUS)	N/N	Dog has no copies of piebald.	
COCOA	co/co	2 copies of the cocoa variant.	



DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Client/Owner/Agent Information:	Case:	NCD217397
RONNIE COBLENTZ	Date Received:	04-Apr-2023
6827 COUNTY ROAD 672	Report Issue Date:	12-Apr-2023
MILLERSBURG, OH 44654	Report ID:	7277-6340-5343-9131
	Verify report a	t www.vgl.ucdavis.edu/verify
Name: WOODLANDS EBONY		

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Dog Coat Color test results, please visit our website at: www.vgl.ucdavis.edu/resources/dog-coat-color

* This result is sometimes associated with the brindle pattern.

Agouti research is ongoing, and additional variation beyond the resolution of this test may exist.

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Report authorized by Dr. Rebecca Bellone, VGL Director

Results are determined using PCR-based methods. The results relate only to the sample tested as identified by the submitter (for example, identity and/or breed).



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ADDITIONAL INFORMATION FOR MERLE RESULTS

Provided Information:

Name: WOODLANDS EBONY

Case: Date Received: Report Issue Date: Report ID:

NCD217397

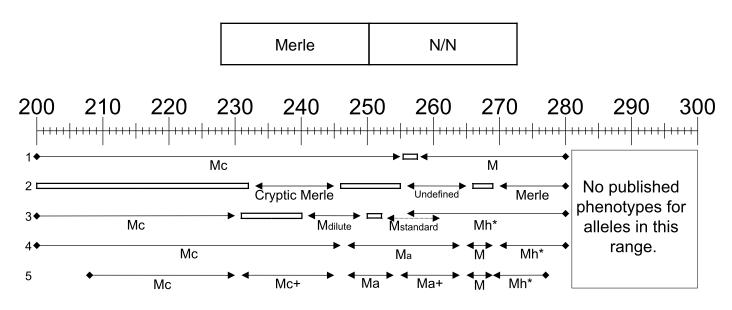
04-Apr-2023 12-Apr-2023 7277-6340-5343-9131

Registration: NP79625801

Verify report at www.vgl.ucdavis.edu/verify

DOB: 06/27/2022 Sex: Female Breed: French Bulldog

Several interpretations and nomenclatures for the Merle variant have been proposed. Below is a graphical display of the merle alleles detected and the publications that define these nomenclatures.



Open boxes represent unassigned size variants within a specific naming system.

¹Previous merle pattern result reported by the VGL. Mc=200-255, M=258-280

- ²Merle pattern nomenclature defined by Clark et al. 2006.
- ³Merle pattern nomenclature defined by Murphy et al. 2018. Mc=200-230, Mdilute=241-249, Mstandard=253-261, Mh=256-280
- ⁴Merle pattern nomenclature defined by Ballif et al. 2018. Mc=200-246, Ma=247-264, M=265-269, Mh=270-280
- ⁵Merle pattern nomenclature defined by Langevin et al. 2018. Mc=208-230, Mc+=231-245, Ma=247-254, Ma+=255-264, M=265-269, Mh=269-277
- * Mh "harlequin" is not the true Great Dane Harlequin (H) identified by Clark et al. 2008.



The Agouti gene, also referred to as the **A locus** or **ASIP locus**, is a gene that controls where and when eumelanin (i.e. black/brown pigment) or phaeomelanin (i.e. red/yellow/tan pigment) is produced in the coat of dogs and other mammals. The old Agouti test (now referred to as Legacy Agouti) identified four alleles at the Agouti locus, but these alleles did not fully explain the different coat color phenotypes controlled by this gene. Recent research by Dr. Bannasch and colleagues has uncovered more of the complexity of dog coat color as it relates to the ASIP locus, allowing our laboratory to offer a more complete test to our clients.

The new Agouti test allows for the identification of eight haplotype combinations, and their correspondence to the Legacy Agouti alleles is shown below.

Note: The illustrations below portray examples of adult coat patterns. Puppy coats typically exhibit more eumelanin (black/brown pigment). For example, in puppies, the Black Saddle coloration looks like Black Back and Shaded Yellow can look very similar to Agouti.

	PHENOTYPE NAME	COMMON NAMES	ASIP HAPLOTYPE COMBINATION	OLD ALLELE Legacy Agout
R	Dominant Yellow	fawn, sable, red, cream, tan	ASIP DY	a ^y
	Shaded Yellow	shaded sable, shaded fawn, fawn, sable, red, cream, tan	ASIP ^{sy}	
	Agouti	wolf sable, sable, grey, agouti	ASIP AG	a ^{w *}
	Black Saddle	saddle back, saddle tan, black and tan, hound	ASIP ^{BS}	at
	Black Back	black and tan, bicolor, tan points, pointed	ASIP ^{BB1} ASIP ^{BB2} ASIP ^{BB3}	. a
×	Recessive Black	black	ASIP ª	а
Appearance of	ack/brown pigment) pigment will depend on other go ocus), Dilute (D locus), <i>MC1R</i> (E lo Black (K locus)	enes, Appe	eomelanin (yellow/red/tan arance of pigment will depen bilute (D locus), Intensity (In), a	nd on other genes,

most dominant

least dominant

*In some cases, the **a**^w Legacy Agouti allele can correspond to the new **ASIP** ^{BB3} haplotype combination.

For more detailed information about the new Agouti test, please visit our website at https://vgl.ucdavis.edu/test/agouti-dog



FRENCH BULLDOG GENETIC HEALTH PANEL TEST REPORT

Case:

Provided Information:

Name: WOODLANDS EBONY

Date Received: Report Issue Date: Report ID:

NCD217397

04-Apr-2023 10-Apr-2023 1134-6971-7694-4017

Registration: NP79625801

Verify report at www.vgl.ucdavis.edu/verify

DOB: 06/27/2022 Sex: Female Breed: French Bulldog

RESULT	,	INTERPRETATION
Canine Multifocal Retinopathy (CMR1)	N/N	Normal - no copies of the CMR1 mutation.
Degenerative Myelopathy (DM)	N/N	No copies of the DM mutation.
Juvenile Hereditary Cataract (JHC)	N/N	No copies of JHC mutation. Cataracts may however develop because of other genetic and environmental factors.
Hyperuricosuria (HUU)	N/N	No copies of the hyperuricosuria mutation detected. Dog is normal.



FRENCH BULLDOG GENETIC HEALTH PANEL TEST REPORT

Client/Owner/Agent Information:	Case:	NCD217397
RONNIE COBLENTZ	Date Received:	04-Apr-2023
6827 COUNTY ROAD 672	Report Issue Date:	10-Apr-2023
MILLERSBURG, OH 44654	Report ID:	1134-6971-7694-4017
	Verify report a	t www.vgl.ucdavis.edu/verify
Name: WOODLANDS EBONY		

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on French Bulldog Genetic test results, please visit our website at: www.vgl.ucdavis.edu/services/dog/FrenchBulldogHealthPanel.php

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

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Report authorized by Dr. Rebecca Bellone, VGL Director

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COAT LENGTH TEST REPORT

Provided Information:

COAT LENGTH

Name: WOODLANDS EBONY

Registration: NP79625801

Case: Date Received: Report Issue Date: Report ID:

NCD217397

04-Apr-2023 02-May-2023 8770-4513-0107-3186

istration: **NF79023001**

Verify report at www.vgl.ucdavis.edu/verify

DOB: 06/27/2022 Sex: Female Breed: French Bulldog

RESULT

L4/L4

INTERPRETATION

2 copies of the allele(s) associated with long hair detected.



COAT LENGTH TEST REPORT

Client/Owner/Agent Information:	Case:	NCD217397
RONNIE COBLENTZ	Date Received:	04-Apr-2023
6827 COUNTY ROAD 672	Report Issue Date:	02-May-2023
MILLERSBURG, OH 44654	Report ID:	8770-4513-0107-3186
	Verify report a	at www.vgl.ucdavis.edu/verify
Name: WOODLANDS EBONY		

Additional Information

If testing for a disease or a disorder was performed and results indicate the animal is affected or at risk, we recommend contacting your veterinarian for further clinical evaluation and for additional information on disease and management.

For more detailed information on Dog Coat Type test results, please visit our website at: www.vgl.ucdavis.edu/services/dog/coat-length-curl-furnishings

For terms and conditions of testing, please see www.vgl.ucdavis.edu/about/terms-and-conditions

Report authorized by Dr. Rebecca Bellone, VGL Director

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