

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information: Case: NCD217383

Name: WOODLANDS MILLIE Date Received: 04-Apr-2023 Report Issue Date: 10-Jan-2025

 Registration:
 NP79553001
 Report ID: 4890-0647-8555-9060 0873-3132-4849-0124

Verify report at vgl.ucdavis.edu/verify

DOB: 09/13/2022 Sex: Female Breed: French Bulldog

RESULT

INTERPRETATION

MC1R (E LOCUS)	$\mathbf{E}^{\mathbf{m}}/\mathbf{e}^{1}$	1 copy of mask and 1 copy of red/yellow/cream.	
BROWN (B LOCUS)	b/b	2 copies of brown present - black pigment (if present) is diluted to brown, red/yellow dogs have brown noses and foot pads.	
DILUTE (D LOCUS)	d^1/d^1	Dilute, 2 copies of the dilution variants.	
DOMINANT BLACK (K LOCUS)	N/N	Dog does not have the dominant black mutation.	
LEGACY AGOUTI	a ^t /a	Dog has black-and-tan and carries recessive black.	
AGOUTI (A LOCUS)	ASIPBB1/ASIPa	One copy of black back 1 and one copy of recessive black.	
MERLE	N/268	One copy of the merle associated SINE insertion. See attachment (last page) for additional information.	
PIEBALD (S LOCUS)	N/N	Dog has no copies of piebald.	
INTENSITY DILUTION	In/In	2 copies of intensity dilution. Red pigment is likely to be diluted to cream or white.	
ALBINISM (LHASA APSO TYPE)	N/N	No copies of the variant associated with the albinism first identified in the Lhasa Apso.	
COCOA	co/co	2 copies of the cocoa variant.	



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Client/Owner/Agent Information:

RONNIE COBLENTZ 6827 COUNTY ROAD 672

MILLERSBURG, OH 44654

Name:

Case: NCD217383

Date Received: 04-Apr-2023
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 4890-0647-8555-9060

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WOODLANDS MILLIE

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: vgl.ucdavis.edu/resources/dog-coat-color

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

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

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ADDITIONAL INFORMATION FOR MERLE RESULTS

Provided Information:

Name: WOODLANDS MILLIE

Registration: NP79553001

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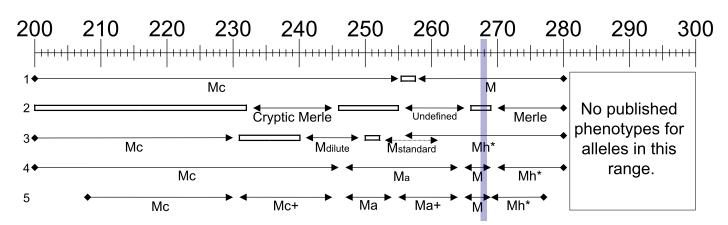
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Several interpretations and nomenclatures for the Merle variant have been proposed. Below is a graphical display of the merle alleles detected and the publications that define these nomenclatures.





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.



Agouti: the ASIP (A) locus

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 Agouti
	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 *
13	Black Saddle	saddle back, saddle tan, black and tan, hound	ASIP ^{BS}	a ^t
*	Black Back	black and tan, bicolor, tan points, pointed	ASIP BB1 ASIP BB2 ASIP BB3	
7	Recessive Black	black	ASIP °	а

Eumelanin (black/brown pigment)

and Dominant Black (K locus)

Appearance of pigment will depend on other genes,

e.g. Brown (B locus), Dilute (D locus), MC1R (E locus),

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

Phaeomelanin (yellow/red/tan pigment)

e.g. Dilute (D locus), Intensity (In), and KITLG

Appearance of pigment will depend on other genes,

most dominant

least aominan

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



FRENCH BULLDOG GENETIC HEALTH PANEL TEST REPORT

Provided Information: Case: NCD217383

Name: WOODLANDS MILLIE Date Received: 04-Apr-2023 Report Issue Date: 10-Apr-2023

Registration: NP79553001 Report ID: 2101-3101-3775-5140

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

DOB: 09/13/2022 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.	



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MILLERSBURG, OH 44654

Report ID: 2101-3101-3775-5140

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

Name: WOODLANDS MILLIE

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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COAT LENGTH TEST REPORT

Provided Information:

Name: WOODLANDS MILLIE

Registration: NP79553001

Case: NCD217383

Date Received: 04-Apr-2023 Report Issue Date: 11-Apr-2023

Report ID: 7183-8413-9717-5179

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

DOB: 09/13/2022 Sex: Female Breed: French Bulldog

RESULT

INTERPRETATION

COAT LENGTH S/L4 Carrier of an allele associated with long hair detected.



COAT LENGTH TEST REPORT

Client/Owner/Agent Information:

RONNIE COBLENTZ 6827 COUNTY ROAD 672

MILLERSBURG, OH 44654

Name:

Case:

NCD217383

Date Received: 04-Apr-2023
Report Issue Date: 11-Apr-2023

Report ID: 7183-8413-9717-5179

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

Additional Information

WOODLANDS MILLIE

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

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