



COCOA TEST REPORT

<i>Provided Information:</i>		<i>Case:</i>	NCD102239
<i>Name:</i>	PEBBLES	<i>Date Received:</i>	01-Aug-2019
<i>Registration:</i>		<i>Report Issue Date:</i>	05-Feb-2021
		<i>Report ID:</i>	4032-2985-9082-2106
		Verify report at www.vgl.ucdavis.edu/verify	
<i>DOB:</i> 05/09/2019 <i>Sex:</i> Female <i>Breed:</i> French Bulldog			

RESULT

INTERPRETATION

COCOA	co/co
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2 copies of the cocoa variant.

COCOA TEST REPORT

Client/Owner/Agent Information: RONNIE COBLENTZ 6827 COUNTY ROAD 672 MILLERSBURG, OH 44654	Case: NCD102239 Date Received: 01-Aug-2019 Report Issue Date: 05-Feb-2021 Report ID: 4032-2985-9082-2106 Verify report at www.vgl.ucdavis.edu/verify
Name: PEBBLES	

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 Cocoa test results, please visit our website at:
www.vgl.ucdavis.edu/test/cocoa-dog

This test is specific for the autosomal recessive variant causing cocoa in French Bulldogs and is distinct from the other known variants resulting in a brown phenotype

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

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).

Report authorized by Dr. Rebecca Bellone, VGL Director

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information: Name: PEBBLES Registration:	Case: NCD102239 Date Received: 01-Aug-2019 Report Issue Date: 05-Feb-2021 Report ID: 9043-7694-8476-7051 Reissue of: 3191-5889-6738-6119 Verify report at www.vgl.ucdavis.edu/verify
DOB: 05/09/2019 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^l	Carries 1 copy of the dilution variant.
DOMINANT BLACK (K LOCUS)	N/N	Dog does not have the dominant black mutation
AGOUTI (A LOCUS)	a^y/a	Dog has fawn and carries 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.
HARLEQUIN (GREAT DANE)		Not requested.
NATURAL BOBTAIL		Not requested.
DOBERMAN OCA		Not requested.
GERMAN SHEPHERD PANDA SPOTTING		Not requested.
INTENSITY DILUTION		Not requested.

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

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<i>Name:</i> PEBBLES	

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 Coat Color test results, please visit our website at:
www.vgl.ucdavis.edu/services/coatcolordog.php

Additional Comments

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

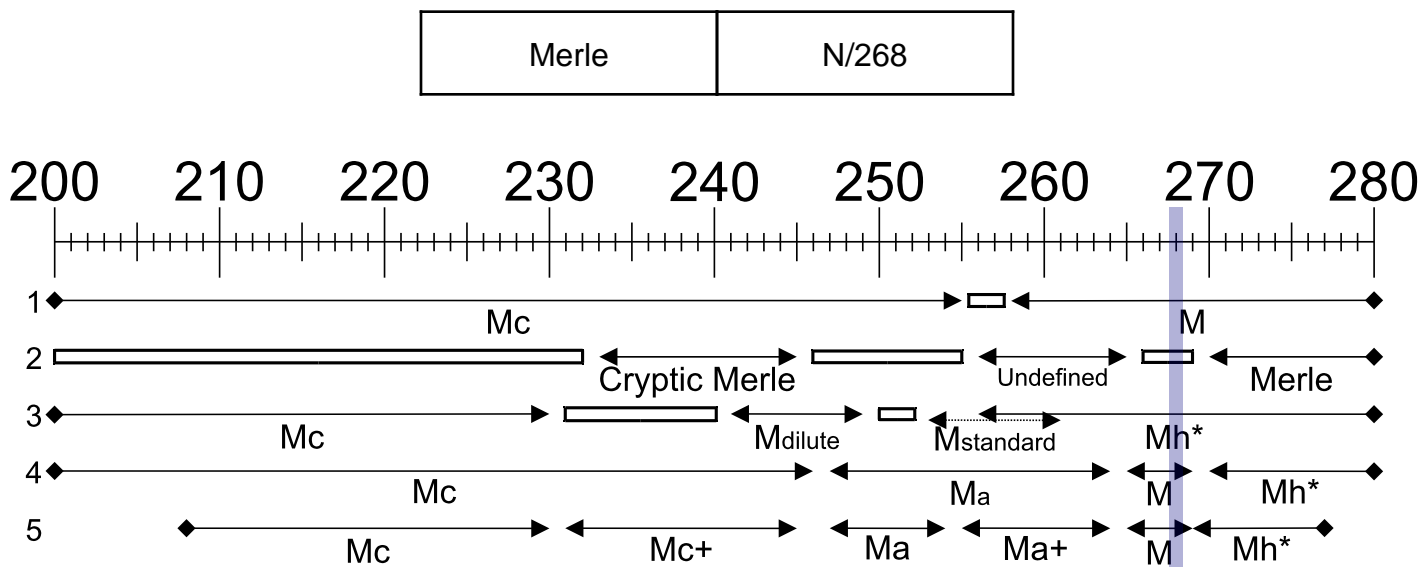
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ADDITIONAL INFORMATION FOR MERLE RESULTS

Provided Information: Name: PEBBLES Registration:	Case: NCD102239 Date Received: 01-Aug-2019 Report Issue Date: 05-Feb-2021 Report ID: 9043-7694-8476-7051 Reissue of: 3191-5889-6738-6119 Verify report at www.vgl.ucdavis.edu/verify
DOB: 05/09/2019 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.

FRENCH BULLDOG GENETIC HEALTH PANEL TEST REPORT

Provided Information: Name: PEBBLES Registration:	Case: NCD102239 Date Received: 01-Aug-2019 Report Issue Date: 31-Jan-2021 Report ID: 2340-5689-4556-5002 Verify report at www.vgl.ucdavis.edu/verify
DOB: 05/09/2019 Sex: Female Breed: French Bulldog	

RESULT

INTERPRETATION

Chondrodystrophy (CDDY)	CDDY/CDDY	2 copies of CDDY. Dog is at risk for IVDD. Mutation causes leg shortening compared to N/N dogs
Chondrodysplasia (CDPA)	N/N	No copies of CDPA mutation
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: RONNIE COBLENTZ 6827 COUNTY ROAD 672 MILLERSBURG, OH 44654	Case: NCD102239 Date Received: 01-Aug-2019 Report Issue Date: 31-Jan-2021 Report ID: 2340-5689-4556-5002 Verify report at www.vgl.ucdavis.edu/verify
Name: PEBBLES	

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

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Report authorized by Dr. Rebecca Bellone, VGL Director