UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information:	***Case:*** **NCD167953**
Name: **FLINT**	***Date Received:*** 23-Aug-2021
Registration:	***Report Issue Date:*** 19-Sep-2021
	Report ID: 9071-3322-6822-5013
	Verify report at www.vgl.ucdavis.edu/verify

DOB: *Sex:* **Male** *Breed:* **Australian Shepherd** *Color:* **Black tri**

Call Name: **Flint**

RESULT		INTERPRETATION
MC1R (E LOCUS)		Not requested.
BROWN (B LOCUS)		Not requested.
DILUTE (D LOCUS)		Not requested.
DOMINANT BLACK (K LOCUS)		Not requested.
AGOUTI (A LOCUS)		Not requested.
MERLE	**N/237**	One copy of the merle associated SINE insertion. See attachment (last page) for additional information.
PIEBALD (S LOCUS)		Not requested.
HARLEQUIN (GREAT DANE)		Not requested.
NATURAL BOBTAIL		Not requested.
DOBERMAN OCA		Not requested.
GERMAN SHEPHERD PANDA SPOTTING		Not requested.
INTENSITY DILUTION		Not requested.

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Client/Owner/Agent Information:	*Case:* **NCD167953**
TERRI JOHNSON	***Date Received:*** 23-Aug-2021
1244 ECCLESIA ST EAST	***Report Issue Date:*** 19-Sep-2021
LEHIGH ARCES, FL 33974	***Report ID:*** 9071-3322-6822-5013
	Verify report at www.vgl.ucdavis.edu/verify

Name: **FLINT**

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

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

ANAB ANSI National Accreditation Board ACCREDITED ISO/IEC 17025 TESTING LABORATORY

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ADDITIONAL INFORMATION FOR MERLE RESULTS

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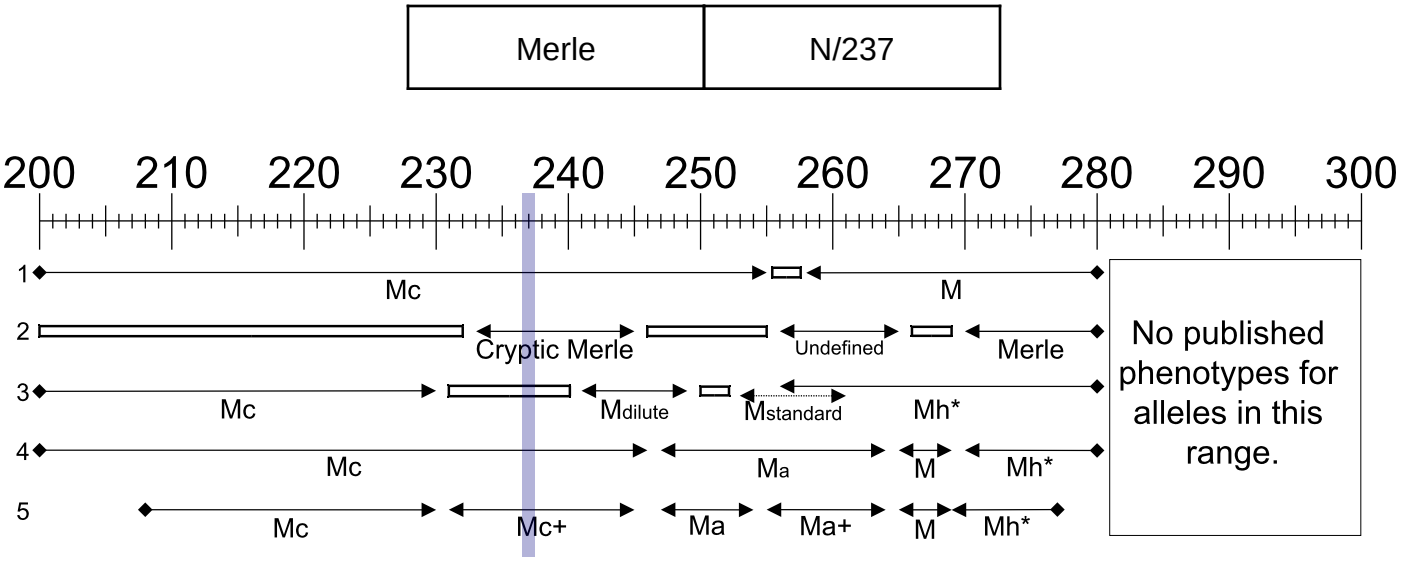
Several interpretations and nomenclatures for the Merle variant have been proposed. Below is a graphical display of the merle alleles detected and the publications that define these nomenclatures.



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

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

[2]Merle pattern nomenclature defined by Clark et al. 2006.

[3]Merle pattern nomenclature defined by Murphy et al. 2018.
Mc=200-230, Mdilute=241-249, Mstandard=253-261, Mh=256-280

[4]Merle pattern nomenclature defined by Ballif et al. 2018.
Mc=200-246, Ma=247-264, M=265-269, Mh=270-280

[5]Merle 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.