UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information:

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

Registration: **2100624745**

Case: **NCD268636**
Date Received: 26-May-2026
Report Issue Date: 18-Jun-2026
Report ID: 4062-2336-0375-5024

Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire: MONTAIRES MAJOR LEAGUE
Reg: 3100471511
Microchip:

Dam: TROYMERE JUST INCASE
Reg: 2100527076
Microchip:

	RESULT	INTERPRETATION
MC1R (E LOCUS)	**E^m/E**	1 copy of mask and 1 copy of black.
BROWN (B LOCUS)	**B/b**	1 copy of brown present - carrier.
DILUTE (D LOCUS)	**D/D**	No known dilution variants present. 1
DOMINANT BLACK (K LOCUS)	**K/N**	copy of dominant black is present. *
LEGACY AGOUTI	**a_t/a_t**	Homozygous for black-and-tan.
AGOUTI (A LOCUS)	**$ASIP_{BB1}/ASIP_{BB1}$**	Two copies of black back 1.
PIEBALD (S LOCUS)	**N/N**	Dog has no copies of piebald.

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Client/Owner/Agent Information:	*Case:* **NCD268636**
COURTNEY CARTER [redacted] [redacted],	*Date Received:* 26-May-2026 *Report Issue Date:* 18-Jun-2026 *Report ID:* 4062-2336-0375-5024
	Verify report at vgl.ucdavis.edu/verify

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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

* This result is sometimes associated with the brindle pattern.
Agouti research is ongoing, and additional variation beyond the resolution of this test may exist.

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

UC DAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

Agouti: the ASIP (A) locus

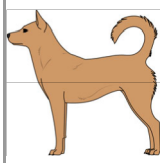
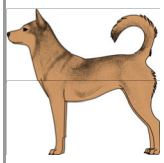
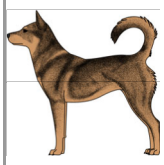
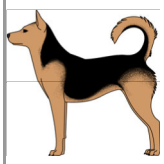
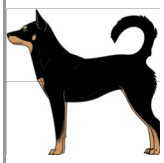
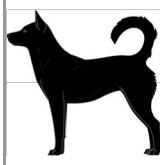
Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211

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 *
 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}	
 Recessive Black	black	***ASIP*** ^{a}	a

mostdominant

leastdominant

Eumelanin (black/brown pigment)

Appearance of pigment will depend on other genes, e.g. Dilute (D locus), *MC1R* (E locus), Intensity (In), and *KITLG* and Dominant Black (K locus)

Phaeomelanin (yellow/red/tan pigment)

Appearance of pigment will depend on other genes, e.g. Brown (B locus), Dilute (D locus)

* 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

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

CANINE OSTEOCHONDRODYSPLASIA (OCD) TEST REPORT

Provided Information:	***Case:*** **NCD268636**
Name: **TROYMERE FINAL CHAPTER AT DARKELL**	***Date Received:*** 26-May-2026
Registration: **2100624745**	***Report Issue Date:*** 05-Jun-2026
	Report ID: 2223-7012-6564-6040
	Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire: MONTAIRES MAJOR LEAGUE	*Dam:* TROYMERE JUST INCASE
Reg: 3100471511	*Reg:* 2100527076
Microchip:	*Microchip:*

OSTEOCHONDRODYSPLASIA (OCD) RESULT

N/N

Interpretation

N/N:	Normal, no copies of OCD deletion are present.
N/OCD:	Carrier, 1 copy of OCD deletion is present. If carriers are bred together, 25% of offspring are expected to be affected.
OCD/OCD:	Affected, 2 copies of OCD deletion are present.

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

CANINE OSTEOCHONDRODYSPLASIA (OCD) TEST REPORT

Client/Owner/Agent Information:	*Case:*	**NCD268636**
COURTNEY CARTER [redacted] [redacted],	*Date Received:*	26-May-2026
	Report Issue Date:	05-Jun-2026
	Report ID:	2223-7012-6564-6040
	Verify report at vgl.ucdavis.edu/verify	

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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 OCD test results, please visit our website at: vgl.ucdavis.edu/test/ocd-miniature-poodle

This test is specific for the SLC13A1 deletion associated with osteochondrodysplasia in Miniature Poodles.

For terms and conditions of testing, please see 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

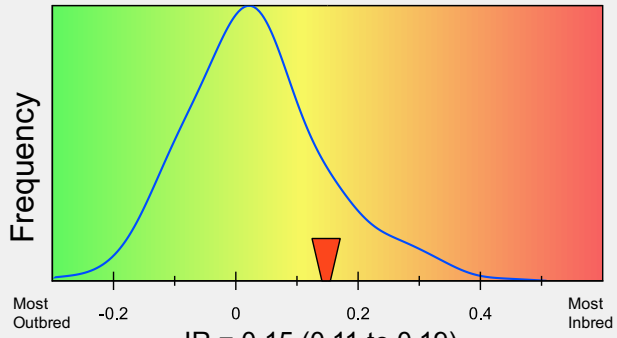
DOG GENETIC DIVERSITY ANALYSIS

TROYMERE FINAL CHAPTER AT DARKELL

Breed: Poodle, Miniature
Sex: Female
Color: Black
DOB: 2025
Reg: 2100624745

Case: NCD268636
Print Date: June 8, 2026
Report ID: 6044-5935-4566-1120

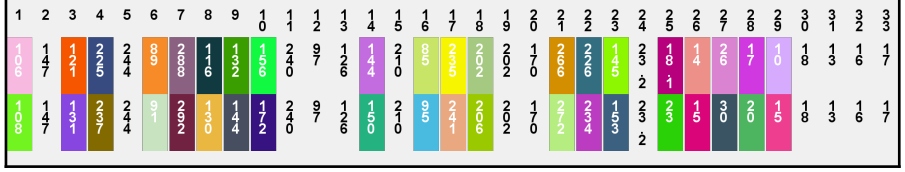
Miniature Poodle IR



IR = 0.15 (0.11 to 0.19)

Internal relatedness (IR) is an allele frequency weighted indicator of homozygosity. IR values of siblings vary due to segregation but will increase on average with inbreeding. Lower IR values indicate greater genetic diversity. IR is calculated relative to breed.

Diversity Panel



Miniature Poodle DLA

	DLA I	DLA II
Haplotype 1	1009	2008
Haplotype 2	1013	2003

Maintaining diversity in the DLA which helps regulate immune responses is beneficial to a breed. Choosing mates differing in their DLA haplotypes helps maintain diversity in litters.

Veterinary Genetics Laboratory
One Shields Avenue, Davis, CA 95616
530-752-2211
www.vgl.ucdavis.edu

COURTNEY CARTER

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

CANINE GENETIC DIVERSITY TEST REPORT

Provided Information:	***Case:*** **NCD268636**
Name: **TROYMERE FINAL CHAPTER AT DARKELL**	***Date Received:*** 26-May-2026
Registration: **2100624745**	***Report Issue Date:*** 08-Jun-2026
	Report ID: 6044-5935-4566-1120
	Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire: MONTAIRES MAJOR LEAGUE	*Dam:* TROYMERE JUST INCASE
Reg: 3100471511	*Reg:* 2100527076
Microchip:	*Microchip:*

INTERNAL RELATEDNESS

IR = 0.15 (0.11 to 0.19)

DLA HAPLOTYPE RESULT

	DLA I	DLA II
Haplotype 1	1009	2008
Haplotype 2	1013	2003

DIVERSITY PANEL

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE

For terms and conditions of testing, please see 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

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

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

1: AHT121	106/108	*2: AHT137*	147/147	*3: AHTH130*	121/131
4: AHTh171-A	225/237	*5: AHTh260*	244/244	*6: AHTk211*	89/91
7: AHTk253	288/292	*8: C22.279*	116/130	*9: FH2001*	132/144
10: FH2054	156/172	*11: FH2848*	240/240	*12: INRA21*	97/97
13: INU005	126/126	*14: INU030*	144/150	*15: INU055*	210/210
16: LEI004	85/95	*17: REN105L03*	235/241	*18: REN162C04*	202/206
19: REN169D01	202/202	*20: REN169O18*	170/170	*21: REN247M23*	266/272
22: REN54P11	226/234	*23: REN64E19*	145/153	*24: VGL0760*	23.2/23.2
25: VGL0910	18.1/23	*26: VGL1063*	14/15	*27: VGL1165*	26/30
28: VGL1828	17/20	*29: VGL2009*	10/15	*30: VGL2409*	18/18
31: VGL2918	13/13	*32: VGL3008*	16/16	*33: VGL3235*	17/17

CANINE

GENETIC DIVERSITY TEST REPORT

Client/Owner/Agent Information:	*Case:* **NCD268636**
COURTNEY CARTER [redacted] [redacted]	*Date Received:* 26-May-2026 *Report Issue Date:* 08-Jun-2026 *Report ID:* 6044-5935-4566-1120
	Verify report at vgl.ucdavis.edu/verify

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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.

The Veterinary Genetics Laboratory is an institutional member of ISAG. DNA types are reported according to standardized nomenclature for those markers tested in the ISAG core panel.

For more detailed information on Canine Genetic Diversity test results, please visit our website at:
vgl.ucdavis.edu/test/canine-genetic-diversity

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

CHONDRODYSTROPHY (CDDY) AND CHONDRODYSPLASIA (CDPA) TEST REPORT

Provided Information:

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

Registration: **2100624745**

Case: **NCD268636**
Date Received: 26-May-2026
Report Issue Date: 05-Jun-2026
Report ID: 1295-5310-6981-2113

Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire: MONTAIRES MAJOR LEAGUE
Reg: 3100471511
Microchip:

Dam: TROYMERE JUST INCASE
Reg: 2100527076
Microchip:

	RESULT	INTERPRETATION
Chondrodystrophy (CDDY)	**CDDY/CDDY**	2 copies of CDDY. Dog has IVDD and is at risk for disc herniation. Mutation causes leg shortening compared to N/N dogs. Will produce 100% of puppies with shorter legs and IVDD who are at risk for disc herniation.
Chondrodysplasia (CDPA)	**N/N**	No copies of CDPA mutation

For terms and conditions of testing, please see 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

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

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

CHONDRODYSTROPHY (CDDY) AND CHONDRODYSPLASIA (CDPA) TEST REPORT

Client/Owner/Agent Information:	*Case:*	**NCD268636**
COURTNEY CARTER	*Date Received:*	26-May-2026
[redacted]	*Report Issue Date:*	05-Jun-2026
[redacted],	*Report ID:*	1295-5310-6981-2113
	Verify report at vgl.ucdavis.edu/verify	

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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 CDDY and CDPA test results, please visit our website at:
vgl.ucdavis.edu/test/cddy-cdpa

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

PROGRESSIVE ROD-CONE DEGENERATION (PRCD) TEST REPORT

Provided Information:		*Case:*	**NCD268636**
Name:	**TROYMERE FINAL CHAPTER AT DARKELL**	*Date Received:*	26-May-2026
Registration:	**2100624745**	*Report Issue Date:*	05-Jun-2026
		Report ID:	8581-5970-6996-3084

Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire:	MONTAIRES MAJOR LEAGUE	*Dam:*	TROYMERE JUST INCASE
Reg:	3100471511	*Reg:*	2100527076
Microchip:		*Microchip:*	

	RESULT	INTERPRETATION
Progressive Rod-Cone Degeneration (PRCD)	**N/N**	Normal. No copies of this progressive rod-cone degeneration (PRA-prcd) allele detected.

For terms and conditions of testing, please see 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

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

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

PROGRESSIVE ROD-CONE DEGENERATION (PRCD) TEST REPORT

Client/Owner/Agent Information:	*Case:* **NCD268636**
COURTNEY CARTER [redacted] [redacted],	*Date Received:* 26-May-2026 *Report Issue Date:* 05-Jun-2026 *Report ID:* 8581-5970-6996-3084 Verify report at vgl.ucdavis.edu/verify

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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 Progressive Rod-Cone Degeneration (PRCD) test results, please visit our website at: vgl.ucdavis.edu/test/pra-prcd

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

PROGRESSIVE RETINAL ATROPHY (RCD4-PRA) TEST REPORT

Provided Information:	***Case:*** **NCD268636**
Name: **TROYMERE FINAL CHAPTER AT DARKELL**	***Date Received:*** 26-May-2026
Registration: **2100624745**	***Report Issue Date:*** 05-Jun-2026
	Report ID: 7705-7432-2855-7153
	Verify report at vgl.ucdavis.edu/verify

DOB: **11/01/2025** *Sex:* **Female** *Breed:* **Poodle, Miniature** *Microchip:* **941000030534599** *Color:* **Black**

Call Name: **Aria**

Sire: MONTAIRES MAJOR LEAGUE	*Dam:* TROYMERE JUST INCASE
Reg: 3100471511	*Reg:* 2100527076
Microchip:	*Microchip:*

	RESULT	INTERPRETATION
Progressive Retinal Atrophy (rcd4-PRA)	**N/N**	Normal. Dog does not have the variant associated with rcd4-PRA.

For terms and conditions of testing, please see 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

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

UCDAVIS VETERINARY MEDICINE
Veterinary Genetics Laboratory

PROGRESSIVE RETINAL ATROPHY (RCD4-PRA) TEST REPORT

Client/Owner/Agent Information:	*Case:*	**NCD268636**
COURTNEY CARTER [redacted] [redacted],	*Date Received:*	26-May-2026
	Report Issue Date:	05-Jun-2026
	Report ID:	7705-7432-2855-7153
	Verify report at vgl.ucdavis.edu/verify	

Name: **TROYMERE FINAL CHAPTER AT DARKELL**

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 PRA - rcd4 test results, please visit our website at:
vgl.ucdavis.edu/test/pra-rcd4