

DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Provided Information:

Name: XANADU FARMS AMASTAN

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

Dam: TERDALI OF XANADU FARMS

NCD217132

03-Apr-2023 12-Apr-2023 2811-5761-9726-9024

Registration: D146-366

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

DOB: 02/19/2022 Sex: Male Breed: Azawakh Microchip: 956000014267439 Color: Shaded red

Call Name: Moss

Sire: DE GARDE EPEE RENOIR Reg:

Microchip:

Reg: Microchip:

RESULT			INTERPRETATION		
	MC1R (E LOCUS)	E/e ¹	1 copy of black and 1 copy of red/yellow/cream.		
	BROWN (B LOCUS)	B/B	Does not carry brown - cannot have brown offspring.		
	DILUTE (D LOCUS)	D/D	No known dilution variants present.		
	DOMINANT BLACK (K LOCUS)	N/N	Dog does not have the dominant black mutation.		
	LEGACY AGOUTI	a ^y /a ^w	Dog has fawn and carries wild sable.		
	AGOUTI (A LOCUS)	ASIP ^{SY} /ASIP ^{AG}	One copy of shaded yellow and one copy of agouti.		
	PIEBALD (S LOCUS)	N/N	Dog has no copies of piebald.		



DOG COAT COLOR / NATURAL BOBTAIL TEST REPORT

Client/Owner/Agent Information:	Case:	NCD217132
KAYLEY PAYLOR	Date Received:	03-Apr-2023
	Report Issue Date:	12-Apr-2023
	Report ID:	2811-5761-9726-9024
	Verify report	at www.vgl.ucdavis.edu/verify
Name: XANADU FARMS AMASTAN		

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

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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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	
R	Black Back	black and tan, bicolor, tan points, pointed	ASIP ^{BB1} ASIP ^{BB2} ASIP ^{BB3}		
×	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 earance of pigment will deper Dilute (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