

HORSE COAT COLOR / PATTERN TEST REPORT

Provided Information:		Case: NQ115555	
Name:	WALLA WALLA STARBUCK	Date Received:	02-Oct-2024
Registration:	5503392	Report Issue Date:	19-Apr-2025
		Report ID:	4729-6255-5507-3162
		Verify report at vgl.ucdavis.edu/verify	
DOB: 03/03/2012 Sex: Stallion Breed: Quarter Horse			
Sire:	WALLA WALLA WHIZ	Dam:	SILVERNBLUESTARBUCK
Reg:	4478553	Reg:	4524459
Microchip:		Microchip:	

RESULT		INTERPRETATION	RESULT		INTERPRETATION
RED FACTOR	e/e	Only red factor detected. Basic color is red in the absence of modifying genes.	SPLASHED WHITE		Not requested.
AGOUTI	A/A	2 copies of agouti present. If present, black pigment is restricted to the points.	TOBIANO		Not requested.
CREAM	N/N	No copies of Cream dilution detected.	LEOPARD		Not requested.
PEARL	N/N	No copies of Pearl dilution detected.	PATTERN-1		Not requested.
SILVER	N/N	No copies of Silver dilution detected.	BRINDLE 1		Not requested.
DUN	D/nd1	1 copy of Dun dilution and 1 copy of nd1.	TIGER EYE		Not requested.
CHAMPAGNE	N/N	No copies of Champagne dilution detected.	MUSHROOM (SHETLAND PONY)		Not requested.
LETHAL WHITE OVERO		Not requested.	GRAY PRESENCE OR ABSENCE	Absent	Gray variants were not detected. Horse will not gray.
SABINO 1		Not requested.	ROAN		Not requested.
DOMINANT WHITE (W5, W10, W13, W20, W22)		Not requested.			

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Client/Owner/Agent Information: NATHAN CANADAY	Case: NQ115555 Date Received: 02-Oct-2024 Report Issue Date: 19-Apr-2025 Report ID: 4729-6255-5507-3162 Verify report at vgl.ucdavis.edu/verify
Name: WALLA WALLA STARBUCK	

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

License Information

Tests for Tobiano are performed under license.

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

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Horse coat color depends on many genes. There are two known genes that contribute to a horse's base color, namely Agouti (also known as Agouti Signaling Protein or *ASIP* for short) and Red Factor (also known as extension or *MC1R*).

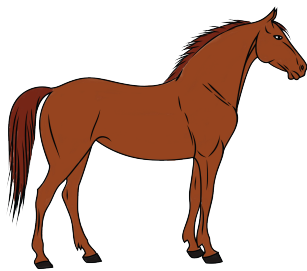
Genetic variation at the Agouti and Red Factor loci work together to determine the base coat color as well as the color of a horse's points (mane, tail, lower legs, and ear rims). Together these genes determine if a horse is chestnut/sorrel (shade of red body and red points), bay (shade of red body with black points), or black (black body and black points).

Agouti controls the distribution of black pigment, and alleles of this gene determine whether a horse will have a bay or black base coat color. The dominant **A** allele restricts black to the points. To read more about Agouti, visit <https://vgl.ucdavis.edu/test/agouti-horse>.

Red factor is responsible for determining whether a horse will have a chestnut base coat color or not. Horses with two recessive alleles (*e* or *e^a*) will be chestnut regardless of the genotype at the agouti locus. Horses with at least one dominant allele (*E*) will not be chestnut, and whether they are bay or black is dependent on the genotype at the agouti locus. To read more about Red Factor, visit <https://vgl.ucdavis.edu/test/red-factor-horse>.

Genotype results for Agouti and Red Factor can be helpful in predicting breeding outcomes.

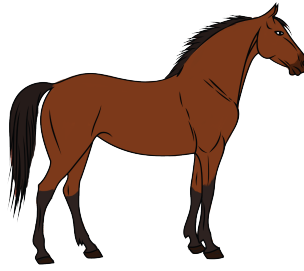
Please note that additional known and yet unknown genes influence shade, dilution, and white patterning, and ultimately the overall coat color phenotype observed.



Chestnut or Sorrel

Possible genotypes:

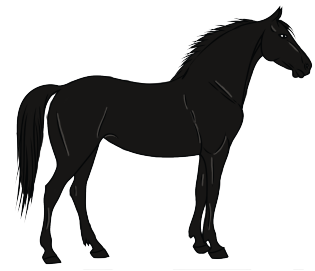
e/e *A/a*
e/e *A/A*
e/e *a/a*



Bay

Possible genotypes:

E/e *A/a*
E/e *A/A*
E/E *A/a*
E/E *A/A*



Black

Possible genotypes:

E/e *a/a*
E/E *a/a*

For more on horse coat color visit. <https://vgl.ucdavis.edu/resources/horse-coat-color>.