

Genetic profile test results

Etalon Diagnostics

REPORT DATE: HORSE:

MAY 6, 2024

OWNER: TPH THE ARSONIST

CORINA HOLMAN

HORSE ID: 032423_027

PACKAGES:

APHA + UPGRADE TO MINIPANEL PLUS

🗑 Horse and owner information

Horse	Date of birth
TPH The Arsonist	01-14-2023
^{Breed}	Age
American Quarter Horse, American Paint Horse	1 y.o.
^{Color}	_{Sex}
Red/ Chestnut/ Sorrel	Stallion
Discipline	Height
Reined Cow Horse	-
Registry American Quarter Horse Association	Reg number 6213005
^{Sire}	Dam
Inferno Sixty Six	WL Shiney Gun
Inferno Sixty Six	WL Shiney Gun
Sire Reg & No.	Dam Reg & No.
Inferno Sixty Six	WL Shiney Gun
Inferno Sixty Six	WL Shiney Gun
Sire Reg & No.	Dam Reg & No.
Owner	Address

Privacy - Terms



HORSE: TPH THE ARSONIST

📱 Results Summary

Variant summaries:

Color: A/a, e/e, nd2/nd2, SW1/n

Health: ERUS/n

Speed: Sprint Type

Temperament: Curious

Gait: Neg for DMRT3

AQHA: LWO n/n, GBED n/n, HERDA n/n, HYPP n/n, MH n/n, PSSM1 n/n, MYHM n/n

APHA: LWO n/n, GBED n/n, HERDA n/n, HYPP n/n, MH n/n, PSSM1 n/n, MYHM n/n

Performance and Abilities:

Curious

Two Curiosity variants; horse may be more curious than vigilant.

Non-"Gaited" DMRT3

No DMRT3 variants; likely non-gaited (*variants for novel "gait" abilities are currently in research).

Sprint

Sprint type; horse may accel at short distance, quick bursts of speed over endurance type activity.

Health Variants:

Equine Recurrent Uveitis Symptom Severity (ERUS) - ERUS/n

ERUS/n - One Equine Recurrent Uveitis Symptom Severity (ERUS) variant detected. Horse has moderate susceptibility for ERU symptom severity (5 times more likely) over horses without ERUS variants. Horse has a 50% chance of passing to any offspring.

Coat color:

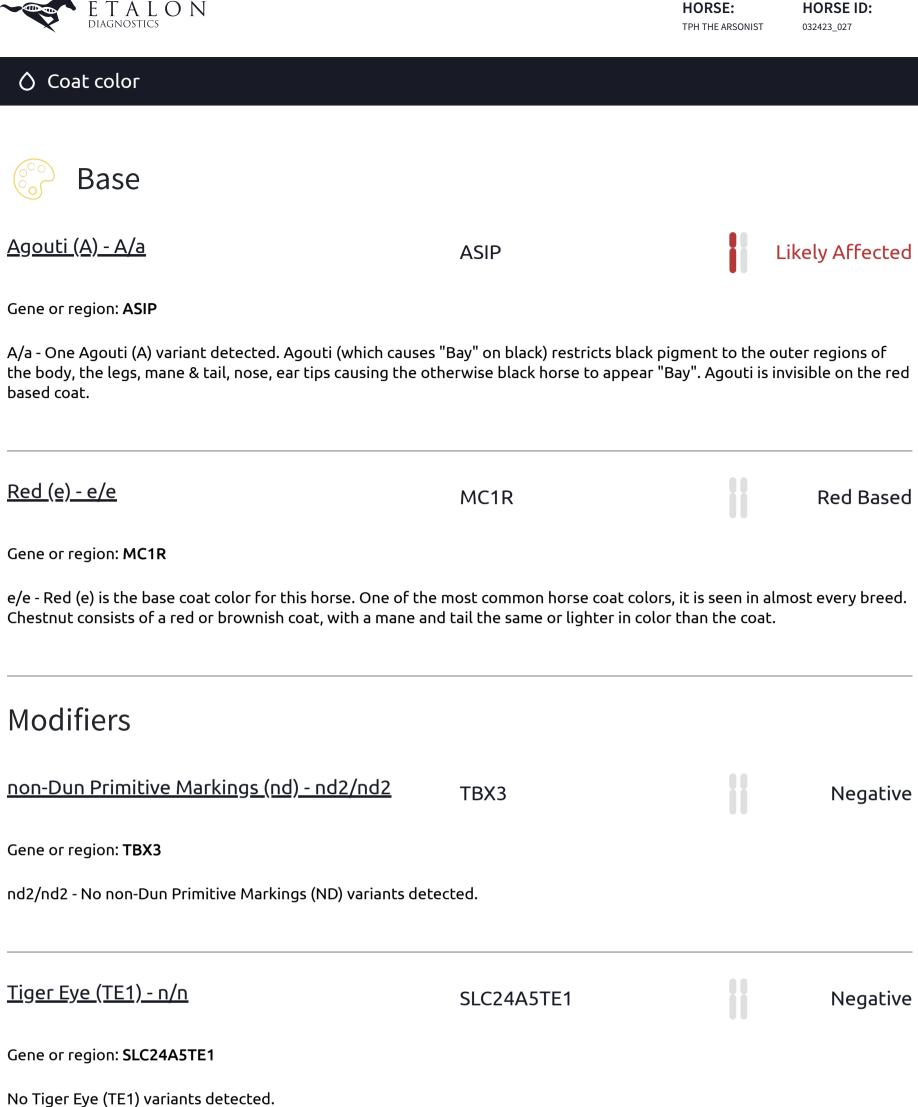
Red/ Chestnut/ Sorrel (base)

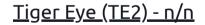
Red (ee) is the base coat color for this horse. Chestnut/Sorrel consists of a red or dark red/liver coat, with a mane and tail of similar or lighter color. Horse has a 100% chance of passing Red to any offspring.

Splashed White 1 (SW1) - SW1/n

SW1/n - One Splashed White 1 (SW1) variant detected.; may result in White markings on the face, legs and body with possible blue eye(s). Horse has 50% of passing to any offspring.

HORSE ID:





SLC24A5TE2MUT

Negative

Gene or region: SLC24A5TE2MUT

No Tiger Eye (TE2) variants detected.



17:08	Etalon Diagnostics		
ETALON DIAGNOSTICS		HORSE: TPH THE ARSONIST	HORSE ID: 032423_027
<u>Grey (G) - n/n</u>	STX17A		Negative
Gene or region: STX17A			
No Grey (G) variants detected.			
<u>Brindle (BR1) - Not Ordered</u>	MBTPS2BR1		Not ordered
Dilutes			
<u>Dun (D) - n/n</u>	TBX3		Negative
Gene or region: TBX3			
No Dun (D) variants detected.			
<u>Cream (CR) - n/n</u>	SLC45A2		Negative
Gene or region: SLC45A2			
No Cream (CR) variants detected.			
<u>Champagne (CH) - n/n</u>	SLC36A1		Negative
Gene or region: SLC36A1			
No Champagne (CH) variants detected.			

Gene or region: SLC45A2

No Pearl (prl) variants detected.



Gene or region: PMEL17

No Silver (Z) variants detected. Silver affects only black base (E) coat colors and is invisible on a red-based coat. On black or bay, It has a disproportionate diluting effect on the mane and tail, and is sometimes called, "Chocolate Flaxen".



Etalon Diagnostics

HORSE: HORSE ID: TPH THE ARSONIST 032423_027 Sunshine (SUN) - n/n Negative SLC45A Gene or region: SLC45A No Sunshine (SUN) variants detected. Snowdrop (SNO) - Not Ordered Not ordered SLC45A Mushroom (MU) - Not Ordered Not ordered MFSD12 Whites Splashed White (SW1) - SW1/n Likely Affected MITF Gene or region: MITF SW1/n - One Splashed White 1 variant detected. May result in white markings on the face, legs, body and possibly blue eye(s). Leopard Complex Spotting (LP) - n/n TRPM1 Negative Gene or region: TRPM1 No Leopard Complex Spotting variants detected. Pattern 1 (PATN1) - n/n Negative RFWD3

Gene	οг	region:	RFWD3
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No Pattern (PATN1/n) 1 variants detected.

<u>Sabino1 (SB1) - n/n</u>





Gene or region: KIT

No Sabino (SB1) variants detected.

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Etalon Diagnostics

ETALON DIAGNOSTICS	Etaion Diagnostics	HORSE: TPH THE ARSONIST	HORSE ID: 032423_027
<u>Tobiano (TO) - n/n</u>	ECA3		Negative
Gene or region: ECA3			
No Tobiano variants detected.			
<u>Splashed White (SW2) - n/n</u>	PAX3		Negative
Gene or region: PAX3			
No Splashed White 2 (SW2/n) variants detected.			
<u>Splashed White (SW3) - n/n</u>	MITF		Negative
Gene or region: MITF			
No Splashed White 3 (SW3) variants detected.			
<u>Splashed White (SW4) - n/n</u>	PAX3		Negative
Gene or region: PAX3			
No Splashed White 4 (SW4) variants detected.			
<u>Dominant White (W) - n/n</u>	KIT		Negative
Gene or region: KIT			
No Dominant White (1-21) variants detected.			

Dominant White 30/Aghilasse (W30) - Not

<u>Ordered</u>

KIT

Not ordered

Dominant White 31/Merada (W31) - Not Ordered KIT

Not ordered

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HORSE:

<u>Dominant White 32/Scandalous (W32) - Not</u> <u>Ordered</u>	KIT	Not ordered
<u>Dominant White 34/Flamboyant (W34) - Not</u> <u>Ordered</u>	KIT	Not ordered
<u>Dominant White 35/Holiday (W35) - Not Ordered</u>	KIT	Not ordered
<u>Splashed White 5 (SW5) - Not Ordered</u>	MITF	Not ordered
<u>Splashed White 7 (SW7) - Not Ordered</u>	MITF	Not ordered
<u>Splashed White 8 (SW8) - Not Tested</u>	MITF	Not ordered
<u>Dominant White 33 (W33) - Not Ordered</u>	KIT	Not ordered
<u>Eden White 3 (EDXW3) "Irish" - Not Ordered</u>	HSP5	Not ordered

Eden White 1 (EDXW1) "Cruz" - Not Ordered HSP5

Not ordered

<u>Frame/Lethal White Overo (LWO) - n/n</u>

EDNRB

Negative

Gene or region: EDNRB

No Frame/Lethal White Overo (LWO) variants detected.

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Coat Type

Gene or region: KRT25

Etalon Diagnostics HORSE: **HORSE ID:** TPH THE ARSONIST 032423_027 <u>Curly Coat 1 (CU1) - n/n</u> Negative KRT25 No known Curly Coat (CU-KRT25) variants detected.

<u>Curly Coat 2 (CU2) - n/n</u>	SP6		Negative
Gene or region: SP6			
No known Curly Coat (CU-SP6) variants detected.			

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