



REPORT DATE:
MAY 6, 2024

HORSE:
TPH THE ARSONIST

OWNER:
CORINA HOLMAN

Genetic profile test results

HORSE ID:
032423_027

PACKAGES:
APHA + UPGRADE TO
MINIPANEL PLUS

Horse and owner information

Horse

TPH The Arsonist

Date of birth

01-14-2023

Breed

American Quarter Horse, American Paint Horse

Age

1 y.o.

Color

Red/ Chestnut/ Sorrel

Sex

Stallion

Discipline

Reined Cow Horse

Height

-

Registry

American Quarter Horse Association

Reg number

6213005

Sire

Inferno Sixty Six

Dam

WL Shiney Gun

Sire Reg & No.

Dam Reg & No.

Owner

Corina Holman

Address

39581 Heise Rd

Phone

8324590762

City, State


Hempstead, TX

Email

corinatimarr@gmail.com

Postal code

77445

 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.

 Coat color

 Base
Agouti (A) - A/a

ASIP



Likely Affected

Gene or region: **ASIP**

A/a - One Agouti (A) variant detected. Agouti (which causes "Bay" on black) restricts black pigment to the outer regions of the body, the legs, mane & tail, nose, ear tips causing the otherwise black horse to appear "Bay". Agouti is invisible on the red based coat.

Red (e) - e/e

MC1R



Red Based

Gene or region: **MC1R**

e/e - Red (e) is the base coat color for this horse. One of the most common horse coat colors, it is seen in almost every breed. Chestnut consists of a red or brownish coat, with a mane and tail the same or lighter in color than the coat.

Modifiers

non-Dun Primitive Markings (nd) - nd2/nd2

TBX3



Negative

Gene or region: **TBX3**

nd2/nd2 - No non-Dun Primitive Markings (ND) variants detected.

Tiger Eye (TE1) - n/n

SLC24A5TE1



Negative

Gene or region: **SLC24A5TE1**

No Tiger Eye (TE1) variants detected.

Tiger Eye (TE2) - n/n

SLC24A5TE2MUT



Negative

Gene or region: **SLC24A5TE2MUT**

No Tiger Eye (TE2) variants detected.

Grey (G) - n/n

STX17A



Negative

Gene or region: **STX17A**

No Grey (G) variants detected.

Brindle (BR1) - Not Ordered

MBTPS2BR1

Not ordered

Dilutes

Dun (D) - n/n

TBX3



Negative

Gene or region: **TBX3**

No Dun (D) variants detected.

Cream (CR) - n/n

SLC45A2



Negative

Gene or region: **SLC45A2**

No Cream (CR) variants detected.

Champagne (CH) - n/n

SLC36A1



Negative

Gene or region: **SLC36A1**

No Champagne (CH) variants detected.

Pearl (PRL) - n/n

SLC45A2



Negative

Gene or region: **SLC45A2**

No Pearl (prl) variants detected.

Silver (Z) - n/n

PMEL17



Negative

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".

Sunshine (SUN) - n/n

SLC45A



Negative

Gene or region: **SLC45A**

No Sunshine (SUN) variants detected.

Snowdrop (SNO) - Not Ordered

SLC45A

Not ordered

Mushroom (MU) - Not Ordered

MFSD12

Not ordered

Whites

Splashed White (SW1) - SW1/n

MITF



Likely Affected

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

RFWD3



Negative

Gene or region: **RFWD3**

No Pattern (PATN1/n) 1 variants detected.

Sabino1 (SB1) - n/n

KIT



Negative

Gene or region: **KIT**

No Sabino (SB1) variants detected.

Tobiano (TO) - n/n

ECA3



Negative

Gene or region: ECA3

No Tobiano variants detected.

Splashed White (SW2) - n/n

PAX3



Negative

Gene or region: PAX3

No Splashed White 2 (SW2/n) variants detected.

Splashed White (SW3) - n/n

MITF



Negative

Gene or region: MITF

No Splashed White 3 (SW3) variants detected.

Splashed White (SW4) - n/n

PAX3



Negative

Gene or region: PAX3

No Splashed White 4 (SW4) variants detected.

Dominant White (W) - n/n

KIT



Negative

Gene or region: KIT

No Dominant White (1-21) variants detected.

Dominant White 22 (W22) - Not Ordered

KIT

Not ordered

Dominant White 30/Aghilasse (W30) - Not Ordered


KIT

Not ordered

Dominant White 31/Merada (W31) - Not Ordered

KIT

Not ordered

<u>Dominant White 32/Scandalous (W32) - Not Ordered</u>	KIT	Not ordered
<u>Dominant White 34/Flamboyant (W34) - Not 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
<u>Eden White 2 (EDXW2) "Dream" - Not Ordered</u>	HSP5	Not ordered
<u>Eden White 1 (EDXW1) "Cruz" - Not Ordered</u>	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.

Coat Type

Curly Coat 1 (CU1) - n/n

KRT25



Negative

Gene or region: **KRT25**

No known Curly Coat (CU-KRT25) variants detected.

Curly Coat 2 (CU2) - n/n

SP6



Negative

Gene or region: **SP6**

No known Curly Coat (CU-SP6) variants detected.

