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| Client/Owner/Agent Information: AMERICAN QUARTER HORSE ASSOCIATION Provided Information: Name: DF SUGAR LIGHTS WHIZ Registration: 5907361 | | Date Received: 01-Feb-2021 Report Issue Date: 10-Feb-2021 Report ID: 0352-9268-9177-7064 Reissue of: 1240-1998-1222-5059 |
| DOB: 03/07/2018 Sex: Stallion Breed: Quarter Horse Alt. ID: 6958735 | | |
| Sire: CD LIGHTS Reg: 3767592 Microchip: | Dam: DT SUGAR CHEX WHIZ Reg: 5332732 Microchip: | |

RESULT

INTERPRETATION

| | | |
|--|-----|---|
| Glycogen Branching Enzyme Deficiency (GBED) | N/N | Normal - Does not possess the disease-causing GBED gene |
| Hereditary Equine Regional Dermal Asthenia (HERDA) | N/N | Normal - horse does not have the HERDA gene |
| Hyperkalemic Periodic Paralysis (HYPP) | N/N | Normal - Does not possess the disease-causing HYPP gene |
| Malignant Hyperthermia (MH) | N/N | Normal - horse does not have the MH gene |
| Polysaccharide Storage Myopathy Type 1 (PSSM1) | N/N | Normal - horse does not have the PSSM1 gene |

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 Equine Disease Panel test results, please visit our website at: www.vgl.ucdavis.edu/services/horse/qhpanel.php

License Information

GBED testing performed under a license agreement with the University of Minnesota.
 PSSM1 testing performed under a license agreement with the American Quarter Horse Association.

Additional Comments

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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**MYOSIN-HEAVY CHAIN MYOPATHY (MYHM)
 GENETIC TEST REPORT**

| | | | |
|---|----------------------------|---------------------------|---------------------|
| <i>Provided Information:</i> | | <i>Case:</i> | NQ86836 |
| <i>Name:</i> | THE NOTORIOUS B I G | <i>Date Received:</i> | 19-Sep-2022 |
| <i>Registration:</i> | 5907361 | <i>Report Issue Date:</i> | 04-Oct-2022 |
| | | <i>Report ID:</i> | 5267-3747-2937-6033 |
| Verify report at www.vgl.ucdavis.edu/verify | | | |
| <i>DOB: 03/07/2018 Sex: Stallion Breed: Quarter Horse</i> | | | |
| <i>Sire:</i> | CD LIGHTS | <i>Dam:</i> | DT SUGAR CHEX WHIZ |
| <i>Reg:</i> | 3767592 | <i>Reg:</i> | 5332732 |
| <i>Microchip:</i> | | <i>Microchip:</i> | |

RESULT

INTERPRETATION

| | |
|---|------------|
| Myosin-Heavy Chain Myopathy (MYHM) | N/N |
|---|------------|

No copies of the MYHM mutation. Horse does not have increased susceptibility for IMM or nonexertional rhabdomyolysis.

AQHA COAT COLOR PANEL TEST REPORT

| | | | |
|--|-----------------------------|---------------------------|---------------------------|
| Provided Information: | | Date Received: | 01-Feb-2021 |
| Name: | DF SUGAR LIGHTS WHIZ | Report Issue Date: | 10-Feb-2021 |
| Registration: | 5907361 | Report ID: | 6188-9710-6058-1144 |
| | | Reissue of: | 2770-5415-5085-7140 |
| DOB: 03/07/2018 Sex: Stallion Breed: Quarter Horse Alt. ID: 6958735 | | | |
| Sire: | CD LIGHTS | Dam: | DT SUGAR CHEX WHIZ |
| Reg: | 3767592 | Reg: | 5332732 |
| Microchip: | | Microchip: | |

RESULT

INTERPRETATION

| RED FACTOR | E/e | |
|-------------------------------------|----------------|---|
| AGOUTI | a/a | Both black and red factors detected. |
| CREAM | N/N | If present, black pigment is distributed uniformly over the body. |
| PEARL | N/N | No copies of Cream dilution detected. |
| SILVER | N/N | No copies of Pearl dilution detected. |
| LETHAL WHITE OVIERO | N/N | No copies of Silver dilution detected. |
| SABINO 1 | N/N | No copies of lethal white overo detected. |
| TOBIANO | N/N | No copies of Sabino 1 detected. |
| CHAMPAGNE | N/N | No copies of Tobiano detected. |
| SPLASHED WHITE (SW1, SW3, SW5, SW6) | N/N | No copies of Champagne dilution detected. |
| SPLASHED WHITE (SW2, SW4) | N/N | No copies of MITF Splashed White detected. |
| GRAY | Absent | No copies of PAX3 Splashed White detected. |
| DUN | nd2/nd2 | Gray gene is absent. Horse will not turn gray. |
| DOMINANT WHITE (W5, W10, W20, W22) | N/W20 | Horse is not Dun dilute. Primitive markings are absent. |
| | | 1 copy of W20 detected. |