



**AMERICAN QUARTER HORSE GENETIC HEALTH
 PANEL TEST REPORT**

| | | |
|---|--|---|
| Client/Owner/Agent Information: AMERICAN QUARTER HORSE ASSOCIATION | | Date Received: 04-Nov-2013 Report Issue Date: 16-Feb-2023 Report ID: 5243-0066-8505-8075 Reissue of: 6471-3057-6644-3100 |
| Provided Information: Name: DUAL SMART REY Registration: 4322331 | | |
| YOB: 2002 Sex: Stallion Breed: Quarter Horse Alt. ID: 4990533 | | |
| Sire: DUAL REY Reg: 3258332 Microchip: | Dam: THE SMART LOOK Reg: 2689896 Microchip: | |

RESULT

INTERPRETATION

| | | |
|--|-----|---|
| Glycogen Branching Enzyme Deficiency (GBED) | N/G | Carrier. One copy of the GBED allele detected. |
| Hereditary Equine Regional Dermal Asthenia (HERDA) | N/N | Normal. No copies of the HERDA allele detected. |
| Hyperkalemic Periodic Paralysis (HYPP) | N/N | Normal. No copies of the HYPP allele detected. |
| Malignant Hyperthermia (MH) | N/N | Normal. No copies of the MH allele detected. |
| Polysaccharide Storage Myopathy Type I (PSSM1) | N/N | Normal. No copies of the PSSM1 allele detected. |

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 American Quarter Horse Genetic Health Panel test results, please visit our website at: www.vgl.ucdavis.edu/panel/quarter-horse-disease-panel

License Information

The GBED test is performed under a license agreement with the University of Minnesota.

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

Veterinary Genetics Laboratory · University of California Davis · One Shields Ave · Davis, CA 95616
vgl.ucdavis.edu · (530) 752-2211



Equine Genetic Testing Report



Submitted By

Debbie Patterson
Brazos Valley Stallion Station LP
21351 N US Hwy 377
Stephenville, TX 76401

Subject Horse

Date Received: 2/11/2020

Horse Name: **Dual Smart Rey** Lab Reference #: 00133767
 Breed: Quarter Horse Registration: 4322331
 Phenotype: Sorrel Birth: 2002
 Sex: Stallion

Sire

Sire Name: Dual Rey
Breed: Quarter Horse
Registration:
Phenotype: Sorrel

Dam

Dam Name: The Smart Look
Breed: Quarter Horse
Registration:
Phenotype: Sorrel

| Coat Color and Pattern Testing | | |
|--------------------------------|--|------------|
| Tobiano | | Not Tested |
| Frame Overo | | Not Tested |
| Sabino 1 | | Not Tested |
| Splashed White 1 | | Not Tested |
| Splashed White 2 | | Not Tested |
| Splashed White 3 | | Not Tested |
| Appaloosa (LP) | | Not Tested |
| PATN1 | | Not Tested |
| Red/Black Factor | | Not Tested |
| Agouti | | Not Tested |
| Cream Dilution | | Not Tested |
| Dun Dilution | | Not Tested |
| Silver Dilution | | Not Tested |
| Champagne | | Not Tested |
| Pearl Dilution | | Not Tested |
| Gray | | Not Tested |

| Genetic Disorders | | | |
|-------------------|--------|-----|---|
| | | | Not Tested |
| | | | Not Tested |
| | | | Not Tested |
| | | | Not Tested |
| X | IMM | N/N | Horse tested negative for the mutation associated with IMM. |
| | PSSM 1 | | Not Tested |
| | FIS | | Not Tested |
| | JEB1 | | Not Tested |
| | JEB2 | | Not Tested |
| | CA | | Not Tested |
| | LFS | | Not Tested |
| | SCID | | Not Tested |
| | OAAM1 | | Not Tested |
| | WFFS1 | | Not Tested |

Additional Comments

InQna

| Genetic Marker Results | | | | | | | Run Date: |
|------------------------|-------|-------|-------|-------|------|---------|------------|
| - | - | - | - | - | - | - | Not Tested |
| AHT4 | AHT5 | ASB17 | ASB2 | ASB23 | AME | CA425UK | |
| - | - | - | - | - | - | - | |
| HMS3 | HMS6 | HMS7 | HTG10 | HTG4 | LEX3 | LEX33 | |
| - | - | - | - | - | - | - | |
| VHL20 | UM011 | HMS1 | HMS2 | HTG6 | HTG7 | | |