



VETERINARY GENETICS LABORATORY
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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: QHA368381 Date Received: 07-Sep-2018 Print Date: 12-Sep-2018 Report ID: 5615-7826-1640-1071 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
Horse: 00012560192 YOB: 2018 Sex: Stallion Breed: Quarter Horse Alt. ID: 6946208	Reg:
Sire: METALLIC REBEL Dam: LIL RATTLER	Reg: 5506591 Reg: 5241048

GBED	N/N	N/N - Normal - Does not possess the disease-causing GBED gene
HERDA	N/N	N/N - Normal - horse does not have the HERDA gene
HYPP	N/N	N/N - Normal - Does not possess the disease-causing HYPP gene
MH	N/N	N/N - Normal - horse does not have the MH gene
PSSM1	N/N	N/N - Normal - horse does not have the PSSM1 gene

GBED - Glycogen Branching Enzyme Deficiency. Fatal disease of newborn foals caused by defect in glycogen storage. Affects heart and skeletal muscles and brain. Inherited as recessive disease.

HERDA - Hereditary Equine Regional Dermal Asthenia. Skin disease characterized by hyperextensible skin, scarring, and severe lesions along the back of affected horses. Typical onset is around 2 years of age. Inherited as a recessive disease.

HYPP - Hyperkalemic Periodic Paralysis. Muscle disease caused by defect in sodium channel gene that causes involuntary muscle contraction and increased level of potassium in blood. Inherited as dominant disease. Two copies of defective gene produce more severe signs than one copy.

MH - Malignant Hyperthermia. Rare but life-threatening skeletal muscle disease triggered by exposure to volatile anesthetics (halothane), depolarizing muscle relaxants (succinylcholine), and stress. Presumed inheritance as dominant disease.

PSSM1 - Polysaccharide Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle pain, stiffness, skin twitching, sweating, weakness and reluctance to move. Inherited as a dominant disease.

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

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

<i>Provided Information:</i>	<i>Case:</i> QHA368381
<i>Name:</i> THIRD EDGE	<i>Date Received:</i> 07-Sep-2018
<i>Registration:</i> 5890052	<i>Report Issue Date:</i> 25-Oct-2022
	<i>Report ID:</i> 6383-7781-0123-9128
	<i>Reissue of:</i> 3900-0174-0547-2195
	Verify report at www.vgl.ucdavis.edu/verify
<i>YOB:</i> 2018 <i>Sex:</i> Stallion <i>Breed:</i> Quarter Horse <i>Alt. ID:</i> 6946208	
<i>Sire:</i> METALLIC REBEL	<i>Dam:</i> LIL RATTLER
<i>Reg:</i> 5506591	<i>Reg:</i> 5241048
<i>Microchip:</i>	<i>Microchip:</i>

RESULT

INTERPRETATION

Myosin-Heavy Chain Myopathy (MYHM)	N/N
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No copies of the MYHM mutation. Horse does not have increased susceptibility for IMM or nonexertional rhabdomyolysis.