

## UNIVERSITY OF CALIFORNIA, DAVIS

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## AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	<b>Case:</b> <b>QHA219814</b> <b>Date Received:</b> 01-Dec-2015 <b>Print Date:</b> 07-Dec-2015 <b>Report ID:</b> 6759-3146-5524-7180 <small>Verify report at <a href="http://www.aqha.org/qaqa/ahq/ahqgen/geninfo.html">www.aqha.org/qaqa/ahq/ahqgen/geninfo.html</a></small>
<b>Horse:</b> POTENTIAL AMB <small>DOB: 2008 Sex: Male Breed: Quarter Horse ID: 03 1099802</small>	<b>Reg:</b> 388203
<b>Sire:</b> POTENTIAL INVESTMENT <b>Dam:</b> AM WALKER	<b>Reg:</b> 3100180 <b>Reg:</b> 2206919

<b>GBED</b>	<b>N/N</b>	N/N - Normal - Does not possess the disease-causing GBED gene.
<b>HERDA</b>	<b>N/N</b>	N/N - Normal - Horse does not have the HERDA gene.
<b>HYPP</b>	<b>N/N</b>	N/N - Normal - Does not possess the disease-causing HYPP gene.
<b>MH</b>	<b>N/N</b>	N/N - Normal - Horse does not have the MH gene.
<b>PSSM1</b>	<b>N/N</b>	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 Anemia: Skin disease characterized by hyperkeratotic 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 elevated levels 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. Performed empirically as dominant disease.

**PSSM1** - Polyketide Storage Myopathy Type 1: Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle pain, stiffness, start or hitching, sweating, weakness and reluctance to move. Inherited as a dominant disease.

GBED testing performed under a license agreement with the University of Missouri.

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.