

# 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>QHA258586</b> <b>Date Received:</b> 08-Aug-2016 <b>Print Date:</b> 12-Aug-2016 <b>Report ID:</b> 8584-6360-1557-6160 Verify report at <a href="http://www.vgl.ucdavis.edu/myvgl/verify.html">www.vgl.ucdavis.edu/myvgl/verify.html</a>
<b>Horse:</b> KR GUN POWDER <i>YOB: 2010 Sex: Stallion Breed: Quarter Horse Alt. ID: 6251457</i>	<b>Reg:</b> 5348738
<b>Sire:</b> COLONELS SMOKING GUN <b>Dam:</b> A BUENO POCO DUNIT	<b>Reg:</b> 4472679 <b>Reg:</b> 4086852

<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 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.

Result of embryo transfer. Microchipped: 985141000644081. Freeze branded <b>KR</b> left hip.	<b>Date Registered</b> JULY 03, 2012	 Executive Director
<b>APHA APPROVED GENETIC TESTING:</b> Frame Overo: N/N    HYPP: N/N    HERDA: N/N    GBED: N/N    PSSM: N/N    MH: N/N		
This certifies that the above-named horse is recorded in the American Paint Horse Association registry. This certificate is based upon the written evidence and signature provided by the applicant, and is issued with the right to correct and/or revoke.		
<b>TRANSFER RECORD</b>		