UNIVERSITY OF CALIFORNIA, DAVIS

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VETERINARY GENETICS LABORATORY SCHOOL OF VETERINARY MEDICINE ONE SHIELDS AVENUE DAVIS, CALIFORNIA 95616-8744

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SANTA BARBARA . SANTA GRUZ

AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200

AMARILLO, TX 79168-0001

Case:

QHA260522

Date Received:

22-Aug-2016

Print Date:

26-Aug-2016

Report ID:

2481-6262-8297-3180

Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Reg: 5667615

Horse: BOB BOB BOB

YOB: 2015 Sex: Stallion Breed: Quarter Horse Alt. ID: 6670127

Dam: MTK KOKOMO WAY

Sire: MR ELUSIVE

Reg: 3657809 Reg: 5275731

GBED	N/N	
HERDA	N/N	
НҮРР	N/H	
МН	N/N	1
PSSM1	N/N	

 $\ensuremath{\mathrm{N/N}}\xspace$ - Normal - Does not possess the disease-causing GBED gene

N/N - Normal - horse does not have the HERDA gene

 $\ensuremath{\mathrm{N/H}}$ - $\ensuremath{\mathrm{Hyperkalemic}}$ - $\ensuremath{\mathrm{Heterozygous}}$ (one normal and one $\ensuremath{\mathrm{HYPP}}$ gene)

N/N - Normal - horse does not have the MH gene

N/N - Normal - horse does not have the PSSM1 gene

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

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

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).

PSSM1 - Polysaccharide Storage Myopathy Type 1. Muscle disease characterized by accumulation of abnormal complex sugars in skeletal muscles. Signs include muscle part, 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.