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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: QHA47406 Date Received: 28-Feb-2012 Report Date: 06-Mar-2012 Report ID: 4878-2788-1011-9000 Verify report at https://www.vgl.ucdavis.edu/myvgl/verify.html
Horse: OCEAN RUNAWAY YOB: 02 Breed: QH Sex: S Alt. ID: 4939857 Reg: 4276790	
Sire: FIRST DOWN DASH Reg: 2241706 Dam: RUNAWAY WAVE Reg: 3641107	

GBED	N/N
HERDA	N/N
HYPP	N/N
MH	N/N
PSSM1	N/N

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