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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: QHA278347 Date Received: 13-Dec-2016 Print Date: 16-Dec-2016 Report ID: 6516-3429-5401-2022 Verify report at www.vgl.ucdavis.edu/myvgl/verify.html
Horse: VERY ESPECIAL CAT <i>YOB: 2011 Sex: Stallion Breed: Quarter Horse Alt. ID: 6357518</i>	Reg: 5428799
Sire: HIGH BROW CAT Dam: VERY SHORTLY	Reg: 2706274 Reg: 4307294

GBED	N/N	N/N - Normal - Does not possess the disease-causing GBED gene
HERDA	N/HRD	N/HRD - Carrier - horse carries one copy of 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 - Hypercalemic 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**

Provided Information:		Case: NQ82380
Name: VERY ESPECIAL CAT		Date Received: 23-May-2022
Registration: 5428799		Report Issue Date: 08-Jun-2022
		Report ID: 4515-9602-6272-3084
		Verify report at www.vgl.ucdavis.edu/verify
DOB: 01/20/2011 Sex: Stallion Breed: Quarter Horse		
Sire: HIGH BROW CAT		Dam: VERY SHORTLY
Reg:		Reg:
Microchip:		Microchip:

RESULT		INTERPRETATION
Myosin-Heavy Chain Myopathy (MYHM)	N/My	1 copy of the MYHM mutation is present. Horse may develop IMM following infection or vaccination, or nonexertional rhabdomyolysis. Horse can pass on the mutation to 50% of offspring.