



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

TELEPHONE: (530) 752-2211
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AQHA GENETIC DISEASE PANEL TEST RESULTS

AMERICAN QUARTER HORSE ASSOCIATION P.O. BOX 200 AMARILLO, TX 79168-0001	Case: Date 02-Jan-2013 Print Date: 06-Feb-2020 Report ID: 6255-3339-8761-8008 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
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Horse: BOON TOO SUEN <i>YOB:</i> 2005 <i>Sex:</i> Stallion <i>Breed:</i> Quarter Horse <i>Alt. ID:</i> 5588930	Reg: 4804808
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Sire: PEPTOBOONSMAL Dam: MERADAS LITTLE SUE	Reg: 3097910 Reg: 2928184
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GBED	N/N	N/N - Normal - Does not possess the disease-causing GBED gene
HERDA	N/N	N/N - Normal - horse does not have 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 - 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.



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IMM AND MYH1 MYOPATHY (MYHM) GENETIC TEST REPORT

CREEK PLANTATION C/O 6666 RANCH PO BOX 130 GUTHRIE, TX 79236	Case: NQ53933 Date Received: 12-Nov-2019 Print Date: 15-Nov-2019 Report ID: 4975-3215-7880-7024 Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm
Name: BOON TOO SUEN Reg: 4804808 DOB: 02/12/2005 Sex: Stallion Breed: Quarter Horse	
Sire: PEPTOBOONSMAL Reg: 3097910 Dam: MERADAS LITTLE SUE Reg: 2928184	

IMM and MYH1 Myopathy	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.
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For more detailed information on MYHM test results, please go to:
www.vgl.ucdavis.edu/services/horse/IMM.php