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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: **QHA184422**
Date Received: 16-Mar-2015
Print Date: 18-Mar-2015
Report ID: 7730-6449-3259-3155
Verify report at www.vgl.ucdavis.edu/myvgl/verify.html

Horse: **DESIRE REY** *Reg:* **4880669**
YOB: **2006** *Sex:* **Stallion** *Breed:* **Quarter Horse** *Alt. ID:* **5643496**

Sire: DUAL REY *Reg:* 3258332
Dam: PLAYGUNS DESIRE *Reg:* 3541864

GBED	**N/G**	N/G - Carrier - Heterozygous (one normal and one 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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VETERINARY MEDICINE
Veterinary Genetics Laboratory

EQUINE JUVENILE SPINOCEREBELLAR ATAXIA TEST REPORT

Provided Information:	***Case:*** **NQ115096**
Name: **DESIRE REY**	***Date Received:*** 19-Sep-2024
Registration: **4880669**	***Report Issue Date:*** 24-Sep-2024
	Report ID: 2835-8654-7028-4008
	Verify report at vgl.ucdavis.edu/verify

DOB: **04/15/2006** *Sex:* **Stallion** *Breed:* **Quarter Horse**

Sire: DUAL REY	*Dam:* PLAYGUNS DESIRE
Reg:	*Reg:*
Microchip:	*Microchip:*

RESULT		INTERPRETATION
Equine Juvenile Spinocerebellar Ataxia	**N/JSA**	Carrier One copy of the allele associated with equine juvenile spinocerebellar ataxia (EJSCA) detected