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

TELEPHONE: (530) 752-2211
FAX: (530) 752-3556

EQUINE PARENTAGE AND GENETIC MARKER TEST REPORT

AMERICAN PAINT HORSE ASSOC.
P.O. BOX 961023
FORT WORTH, TX 76161-0023

Case: **P98785**
Date 22-Oct-2019
Print Date: 02-Jan-2020
Report ID: 3756-3250-5627-5133
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Name: **THE ULTIMATE LOVE** *Reg:* **01095709**
YOB: *Sex:* **Mare** *Breed:* **Paint Horse**

Sire: THE ULTIMATE FANCY *Reg:* **474329**
Sire Microchip:

Dam: R TIMELESS ANGEL *Reg:* **00550726**
Dam Microchip:

PARENTAGE ANALYSIS

NAME PENDING UR044811 qualifies as an offspring of NAME PENDING UR004437 and THE ULTIMATE FANCY 474329.

GENETIC MARKERS

LOCUS	TYPE	LOCUS	TYPE	LOCUS	TYPE
AHT4	JO	*AHT5*	JM	*AME*	X
ASB17	N	*ASB2*	K	*ASB23*	KU
HMS2	LR	*HMS3*	IN	*HMS6*	OP
HMS7	JO	*HTG10*	KO	*HTG4*	KO
LEX3	LN	*LEX33*	Q	*VHL20*	IN

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APHA COAT COLOR PANEL TEST RESULTS

AMERICAN PAINT HORSE ASSOC.
P.O. BOX 961023
FORT WORTH, TX 76161-0023

Case: **P98785**
Date Received: 22-Oct-2019
Print Date: 04-Nov-2019
Report ID: 3133-4233-6814-7051
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Horse: **NAME PENDING** *Reg:* **UR044811**
YOB: *Sex:* **Mare** *Breed:* **Paint Horse**

Sire: THE ULTIMATE FANCY *Reg:* 00474329
Dam: R TIMELESS ANGEL *Reg:* 00550726

RED FACTOR	**e/e**	Only red factor detected. Basic color is red in the absence of modifying genes.
AGOUTI	**A/a**	1 copy of agouti. If present, black pigment is restricted to the points.
CREAM	**N/N**	No copies of Cream dilution detected.
PEARL	**N/N**	No copies of Pearl dilution detected.
SILVER	**N/N**	No copies of Silver dilution detected.
LETHAL WHITE OVERO	**N/N**	No copies of lethal white overo detected.
SABINO 1	**N/N**	No copies of Sabino 1 detected.
TOBIANO	**N/N**	No copies of Tobiano detected.
CHAMPAGNE	**N/N**	No copies of Champagne dilution detected.
SPLASHED WHITE (SW1, SW3)	**N/N**	No copies of SW1 or SW3 detected.
SPLASHED WHITE (SW2, SW4)	**N/N**	No copies of SW2 or SW4 detected.
GRAY	**Absent**	Gray gene is absent. Horse will not turn gray.
DUN	**nd2/nd2**	Horse is not Dun dilute. Primitive markings are absent.
LEOPARD	**N/N**	No copies of Leopard Complex detected.
DOMINANT WHITE (W5, W10, W20)	**N/W20**	1 copy of W20 detected.

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EQUINE DISEASE PANEL RESULTS

AMERICAN PAINT HORSE ASSOC.
P.O. BOX 961023
FORT WORTH, TX 76161-0023

Case: **P98785**
Date 22-Oct-2019
Print Date: 07-Nov-2019
Report ID: 6255-4079-2428-2106
Verify report at www.vgl.ucdavis.edu/myvgl/verify.htm

Horse: **NAME PENDING** *Reg:* **UR044811**
YOB: *Sex:* **Mare** *Breed:* **Paint Horse**

Sire: THE ULTIMATE FANCY *Reg:* 00474329
Dam: R TIMELESS ANGEL *Reg:* 00550726

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
LWO	**N/N**	No copies of lethal white overo detected.
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.

LWO - Lethal White Overo. A fatal disease of newborn foals caused by defect in intestinal tract function resulting in failure to pass food. Inheritance as incomplete dominant. One copy of the defective gene has no health effect and causes Overo-type white spotting. Two copies of the defective gene results in lethal white foals.

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.