Genetic Profile Test Results

Horse: BDF Tru Risky Rolex

Owner: Stephen Devolt

HORSE ID: 022619 023

PACK: APHA

e and Owner Information

orse	BDF Tru Risky Rolex	**DOB**	2013-06-13
reed	American Paint Horse	**Age**	5 years, 9 months
olor	Black	**Sex**	stallion
iscipline	Breeding	**Height**	14.3 hands
egistry	American Paint Horse Association	**Reg Number**	1033662
re	A Tru Rolex	**Dam**	Diaman HA Lil Riskey
re Reg & No.	American Paint Horse Association 334913	**Dam Reg & No.**	American Paint Horse Association 836224
omments	.....		

wner	Stephen Devolt	**Address**	3696 W LAMBERT RD
none	8173042432 / 8173042432	**City, State**	WEATHERFORD, Texas
nail	stephen.devolt@yahoo.com	**Postal Code**	76088

TALON DIAGNOSTICS

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ılts Summary

Color: BDF Tru Risky Rolex has two Black alleles and no Red alleles, indicating the base coat color appears Black. One Tobiano allele was detected which may result in White markings. As a result of the allele count in each of the following, he has a minimum 100% chance of passing Black, and 50% Tobiano to any offspring.

ɘ
mary: **aa, EE, TO/n**

Myostatin: Sprint Type

6-Panel: HYPP n/n, PSSM1 n/n, MH n/n, GBED n/n, HERDA n/n, LWO n/n

ı: BDF Tru Risky Rolex has not tested positive for any recessive disease alleles on this panel.

ıe note: Your analysis is ongoing and may include some regions marked with an asterisk denoting the following.
* Discovery - This gene detection is in the early stages of discovery and will have varying reliability results.
** Inconclusive - Not a bad omen! Simply put, the gene of interest did not reveal itself (neither a positive nor a negative; no result, therefore unknown).

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: Color Results

jouti	-/-	*ASIP*	aa - No dominant Agouti alleles detected; restricts any Black base to appear Bay.	More about A
ack/Red	+/+	*MC1R*	EE - Two Black alleles detected and no Red.	More about E

fier

indle/IP	-/-	*IKBKG*	No Brindle/IP alleles detected.	More about IP
ey	-/-	*STX17A*	No Grey alleles detected.	More about G

ion

ampagne	-/-	*SLC36A1*	No Champagne alleles detected.	More about CH
eam	-/-	*SLC45A2*	No Cream alleles detected.	More about CR
n	-/-,-/-	*TBX3*	nd2/nd2 (non-dun). Two non-dun2 alleles detected. No Dun or non-Dun Primitive Marking alleles detected.	More about Dun
arl	-/-	*SLC45A2*	No Pearl alleles detected.	More about prl
lver	-/-	*PMEL17*	No Silver alleles detected.	More about Z

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: Color Results, continued

ɜ Patterns Results

ɔminant White	-/-	***KIT***	No Dominant White alleles detected (DW1-21).	More about DW
ame Overo (LWO)	-/-	***EDNRB***	No Frame Overo (LWO) alleles detected.	More about LWO
opard Complex Spotting (LP)	-/-	***TRPM1***	No Leopard Complex Spotting (LP) alleles detected.	More about LP
ttern 1 (LP modification)	-/-	***RFWD3***	No Pattern 1 (LP modification) alleles detected.	More about PATN1
lashed White (MITF)	-/-,-/-	***MITF***	No Splashed White 1 nor Splashed White 3 alleles detected.	More about SW (MITF)
lashed White (PAX3)	-/-,-/-	***PAX3***	No Splashed White 2 nor Splashed White 4 alleles detected.	More about SW (PAX3)
bino 1	-/-	***KIT***	No Sabino 1 alleles detected.	More about SB1
biano	+/-	***ECA3***	TO/n - One Tobiano allele detected.	More about TO

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th Genetics 1

ıne System

·al Immunodeficiency Syndrome	-/-	*SLC5A3*	No Foal Immunodeficiency Syndrome alleles detected.	More about fis
·vere Combined Immunodeficiency	-/-	*DNAPK*	No Severe Combined Immunodeficiency alleles detected.	More about scid
·st Nile*	-/-	*OAS1*	Normal susceptibility to West Nile Virus symptoms.	More about WNVR*

·le Disorders

ycogen Branching Enzyme ·ficiency	-/-	*GBE1*	No Glycogen Branching Enzyme Deficiency alleles detected.	More about gbed
·perkalemic Periodic Paralysis	-/-	*SCN4A*	No Hyperkalemic Periodic Paralysis alleles detected.	More about HYPP
·lignant Hyperthermia	-/-	*RYR1*	No Malignant Hyperthermia alleles detected.	More about MH
·otonia	-/-	*CLCN4*	No Myotonia alleles detected.	More about myt
·lysaccharide Storage Myopathy ·pe 1)	-/-	*GYS1*	No Polysaccharide Storage Myopathy (type 1) alleles detected.	More about PSSM1

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th Genetics 2

ologic Disorders

ırebellar Abiotrophy	-/-	***MUTYH***	No Cerebellar Abiotrophy alleles detected.	More about ca
vender Foal Syndrome	-/-	***MYO5A***	No Lavender Foal Syndrome alleles detected.	More about lfs

oductive Disorders

ıdrogen Insensitivity	-/-	***AR***	No Androgen Insensitivity alleles detected.	More about as
R - Subfertility*	-/-,+/+	***FKBP6***	Two IAR Subfertility* alleles detected.	More about iar*

Disorders

ıreditary Equine Regional Dermal ıthenia	-/-	***PPIB***	No Hereditary Equine Regional Dermal Asthenia alleles detected.	More about herda
nctional Epidermolysa Bullosis 'pe 1)	-/-	***LAMC2***	No Junctional Epidermolysa Bullosis (type 1) alleles detected.	More about jeb1
nctional Epidermolysa Bullosis 'pe 2*)	-/-	***LAMA3***	No Junctional Epidermolysa Bullosis (type 2*) alleles detected.	More about jeb2*

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ɪr Genetics

Genetics

ɪrdosis*	+/-,+/-,+/-,+/-	***ECA20***	One of each Lordosis* alleles detected; likely carrier.	More about L*
ɪriosity/Vigilance*	+/+	***DRD4***	Two Curiosity alleles detected; likely more curious than vigilant.	More about Cur/Vig
/ostatin/Speed	+/+	***MSTN***	Two Sprint alleles detected; likely Sprint ability over Endurance.	More about MSTN
ɪit	-/-	***DMRT3***	No Gait alleles detected.	More about Gaited

Additions for 2019

ɪuine Recurrent Uveitis (Risk)*	***	***ECA18***	***DNA Minipanel PLUS only, inquire about upgrade.	More about ERU
ɪuine Recurrent Uveitis (Severity)*	***	***ECA20***	***DNA Minipanel PLUS only, inquire about upgrade.	More about ERU
ɪuine Metabolic Syndrome*	***	***FAM174A***	***DNA Minipanel PLUS only, inquire about upgrade.	More about EMS
minitis Risk*	***	***FAM174A***	***DNA Minipanel PLUS only, inquire about upgrade.	More about LAM
ɪuamous Cell Carcinoma*	***	***DDB2***	***DNA Minipanel PLUS only, inquire about upgrade.	More about SCC
ger Eye*	***	***SLC24A5***	***DNA Minipanel PLUS only, inquire about upgrade.	More about Tiger Eye
varfism*	***	***ACAN***	***DNA Minipanel PLUS only, inquire about upgrade.	More about Dwarfism

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ritance Probabilities

Coat Color Inheritance Probabilities: The bar graph above depicts the number of alleles for specific coat color phenotypes based upon your horse's genetic testing results. Completely filled red bar represents two such alleles (homozygous) and a half-filled yellow bar represents one such allele (heterozygous).

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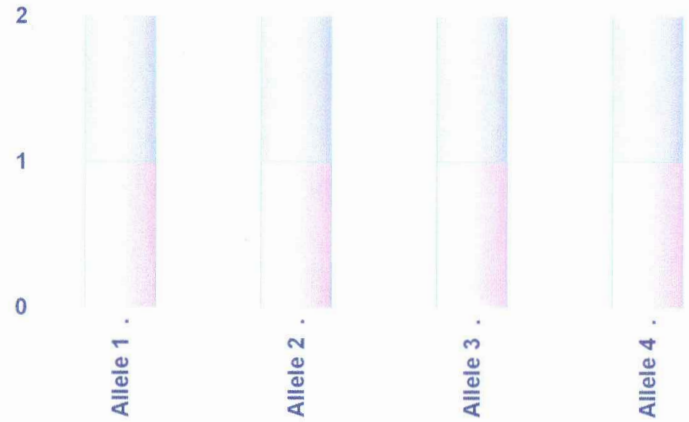
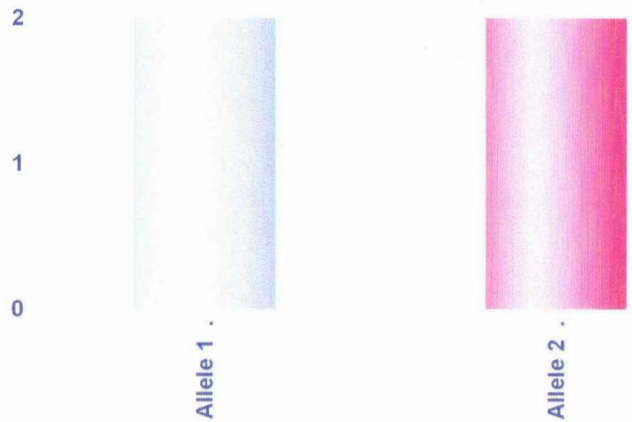
Lordosis



Possible carrier
-currently studies only
proven in Saddlebreds

IAR Subfertility*



Not affected

Multi-allele Risk Charts: Each chart represents a trait, and each bar indicates a distinct risk or allele presence. These act in combination to produce the trait. A red bar indicates the horse carries 2 risk alleles at the site; a partly-yellow bar indicates 1 risk allele; and a fully-grey bar indicates 0 risk alleles. If all bars are red, then the horse carries two risk alleles at each risk site and is likely affected. If all bars contain yellow or red, but are not all red, then the horse is likely a carrier. Otherwise, the horse is not a likely a carrier of the tested trait.

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ıing Genetics & More Info

:	One of two or more alternative forms of a gene that arise by mutation and are found at the same place on a chromosome.
s: Heterozygous vs. zygous?	Allele calls are written in a way that denotes their origin and whether they are DOMINANT (uppercase) or recessive (lowercase). For example, at MC1R (also known as extension), Black is dominant and thus written as "E" whereas Red is recessive and thus denoted as "e". Therefore, an EE horse is homozygous for Black (and thus appears black), an ee horse is homozygous for Red (appears Red), and an Ee horse is heterozygous (shows the dominant allele, thus is Black).
	A unit of heredity that is transferred from a parent to offspring and is thought to determine some characteristic of the offspring.
ype:	The genetic constitution or make up of an individual organism.
ozygous:	A pair of genes which are different (not the same). One is typically dominant and one recessive.
zygous:	A pair of genes that are identical (of one type).
otype:	The observable or visible characteristics of an individual resulting from their genotype or the interaction of their various genes and environment.

sults depicted in this report do not constitute veterinary or medical advice. Any medical of veterinary advice should be sought from your veterinarian regarding these results or alth issues or questions you may have about your animal. Breed, sex, gene interaction, unknown genes and individual variances may impact the results, phenotypes, and ors in any animal in unknown and unpredictable ways. Please be advised that your animals' health is important to us and you should feel free to contact us should you have any questions or feedback on our diagnostic platform, results reporting, or general questions. We value your input and thank you!