

Genetic Profile Test Results Horse: Rolex

Owner: Barbara Dibernardo

HORSE ID: 042421_016

PACK: Etalon DNA Minipanel

Horse and Owner Information

Horse	Rolex	DOB	2021-04-05
Breed	Gypsy Vanner	Age	0 years, 1 months
Color	Silver Black	Sex	Stallion
Discipline	All Around	Height	9 hands
Registry		Reg Number	
Sire	Starfire's The Five Card Stud	Dam	Majestic's Lady Guinevere
Sire Reg & No.	Gypsy Vanner Horse Society GV02811	Dam Reg & No.	Gypsy Vanner Horse Society GV04217
Comments	Description: Tobiano		

Owner	Barbara Dibernardo	Address	29330 Calle de Caballos
Phone	9517752534 +1 951-775-2534	City, State	Sun City, CA
Email	leoetta@gmail.com	Postal Code	92585



Results Summary

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Coat Color:	Rolex has one Red variant and one Black variant, indicating the base coat color appears Black. One Dominant White 20 variant and one Tobiano variant was detected which may result in White markings. One Silver variant was detected which may dilute base coat color. One Pattern1 variant was also detected; unknown effects in the absence of Leopard Complex Spotting (LP). As a result of the variant count in each of the following, he has a minimum 50% chance of passing Red or Black, and 50% Silver and/or Dominant White 20 and/or Pattern 1 and/or Tobiano to any offspring.
Variant Summary:	aa, Ee, Zz, W20/n, PATN1/n, TO/n Myostatin: Endurance Type
Traits:	Rolex's testing indicated the presence of one Silver (Z) variant, resulting in "Possibly Affected" status for Multiple Congenital Ocular Anomalies (MCOA) syndrome. Please consult your veterinarian regarding any medical questions or advice. Caution is recommended when breeding to avoid another Silver carrier, and thus a 25% chance of "Likely Affected" offspring.
Please 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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Coat Color Results

Base				
Agouti	-/-	ASIP	aa - No dominant Agouti variants detected; restricts any Black base to appear Bay.	More about A
Black/Red	+/-	MC1R	Ee - One Black variant detected and one Red.	More about E
Modifier				
Brindle/IP	-/-	IKBKG	No Brindle/IP variants detected.	More about IP
Grey	-/-	STX17A	No Grey variants detected.	More about G
Dilution				
Champagne	-/-	SLC36A1	No Champagne variants detected.	More about CH
Cream	-/-	SLC45A2	No Cream variants detected.	More about CR
Dun	-/-,-/-	TBX3	nd2/nd2 (non-dun). Two non-dun2 variants detected. No Dun or non-Dun Primitive Marking variants detected.	More about Dun
Pearl	-/-	SLC45A2	No Pearl variants detected.	More about prl
Silver	+/-	PMEL17	Zz - One Silver variant detected.	More about Z
Sunshine	***	SLC45A2	***DNA Minipanel PLUS only, inquire about upgrade.	More about SUN



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Coat Color Results, continued

Dominant White	+/-	КІТ	W20/n - One Dominant White 20 variant detected (DW1-21).	More about DW
rame Overo (LWO)	-/-	EDNRB	No Frame Overo (LWO) variants detected.	More about LWO
eopard Complex Spotting (LP)	-/-	TRPM1	No Leopard Complex Spotting (LP) variants detected.	More about LP
Pattern 1 (LP modification)	+/-	RFWD3	PATN1/n - One Pattern 1 (LP modification) variant detected.	More about PATN1
Splashed White (MITF)	-/-,-/-	MITF	No Splashed White 1 or Splashed White 3 variants detected.	More about SW (MITF)
Splashed White (PAX3)	-/-,-/-	PAX3	No Splashed White 2 or Splashed White 4 variants detected.	More about SW (PAX3)
Sabino 1	-/-	КІТ	No Sabino variants detected.	More about SB1
Tobiano	+/-	ECA3	TO/n - One Tobiano variant detected.	More about TO

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Health Genetics 1

nmune System				
Foal Immunodeficiency Syndrome	-/-	SLC5A3	No Foal Immunodeficiency Syndrome variants detected.	More about fis
Severe Combined Immunodeficiency	-/-	DNAPK	No Severe Combined Immunodeficiency variants detected.	More about scid
West Nile Virus Susceptibility*	+/-	OAS1	WNVR*/n - Increased susceptibility to West Nile Virus symptoms if contracted.	More about WNVR*
Immune-mediated Myositis*	***	ІММ	***DNA Minipanel PLUS only, inquire about upgrade.	More about MY
uscle Disorders				
Glycogen Branching Enzyme Deficiency	-/-	GBE1	No Glycogen Branching Enzyme Deficiency variants detected.	More about gbed
Hyperkalemic Periodic Paralysis	-/-	SCN4A	No Hyperkalemic Periodic Paralysis variants detected.	More about HYPP
Malignant Hyperthermia	-/-	RYR1	No Malignant Hyperthermia variants detected.	More about MH
Myotonia	-/-	CLCN4	No Myotonia variants detected.	More about myt
Polysaccharide Storage Myopathy (type 1)	-/-	GYS1	No Polysaccharide Storage Myopathy type 1 variants detected.	More about PSSM1



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Health Genetics 2

leurologic Disorders				
Cerebellar Abiotrophy	-/-	МИТҮН	No Cerebellar Abiotrophy variants detected.	More about ca
Lavender Foal Syndrome	-/-	МҮО5А	No Lavender Foal Syndrome variants detected.	More about Ifs
eproductive Disorders				
Androgen Insensitivity	-/-	AR	No Androgen Insensitivity variants detected.	More about as
IAR - Subfertility*	+/-,+/+	FKBP6	Three IAR Subfertility* variants detected; likely no effect.	More about iar*
kin Disorders				
Hereditary Equine Regional Dermal Asthenia	-/-	PPIB	No Hereditary Equine Regional Dermal Asthenia variants detected.	More about herda
Junctional Epidermolysa Bullosis (type 1)	-/-	LAMC2	No Junctional Epidermolysa Bullosis (type 1) variants detected.	More about jeb1
Junctional Epidermolysa Bullosis (type 2*)	-/-	LAMA3	No Junctional Epidermolysa Bullosis (type 2*) variants detected.	More about jeb2*

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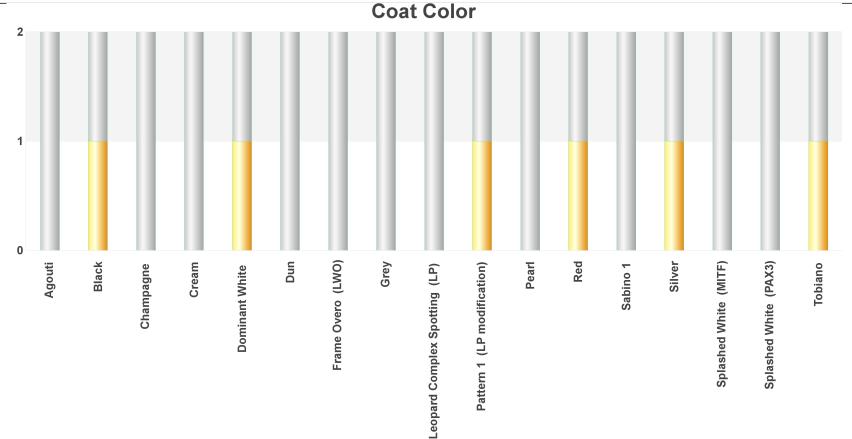
Other Genetics

Lordosis*	-/-,-/-,-/-	ECA20	No pattern of Lordosis* variants detected.	More about L*
Curiosity/Vigilance*	+/+	DRD4	Two Curiosity variants detected; likely more curious than vigilant.	More about Cur/Vig
Myostatin/Speed	-/- MSTN		Two Endurance variants detected; likely Endurance ability over Sprint.	More about MSTN
DMRT3	-/-	DMRT3	No DMRT3 variants detected.	More about DMRT3
LCORL	***	BIEC280854 3H1	***DNA Minipanel PLUS only, inquire about upgrade.	More about LCORL
Curly Coat	***	KRT25,SP6	***DNA Minipanel PLUS only, inquire about upgrade.	More about CU
v Additions				
Equine Recurrent Uveitis (Risk)*	***	ECA18	***DNA Minipanel PLUS only, inquire about upgrade.	More about ERU
Equine Recurrent Uveitis (Severity)*	***	ECA20	***DNA Minipanel PLUS only, inquire about upgrade.	More about ERU
Equine Metabolic Syndrome*	***	FAM174A	***DNA Minipanel PLUS only, inquire about upgrade.	More about EMS
Laminitis Risk*	***	FAM174A	***DNA Minipanel PLUS only, inquire about upgrade.	More about LAM
Squamous Cell Carcinoma*	***	DDB2	***DNA Minipanel PLUS only, inquire about upgrade.	More about SCC
Tiger Eye*	***	SLC24A5	***DNA Minipanel PLUS only, inquire about upgrade.	More about Tiger Eye
Dwarfism*	***	ACAN	***DNA Minipanel PLUS only, inquire about upgrade.	More about Dwarfism
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Inheritance Probabilities



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

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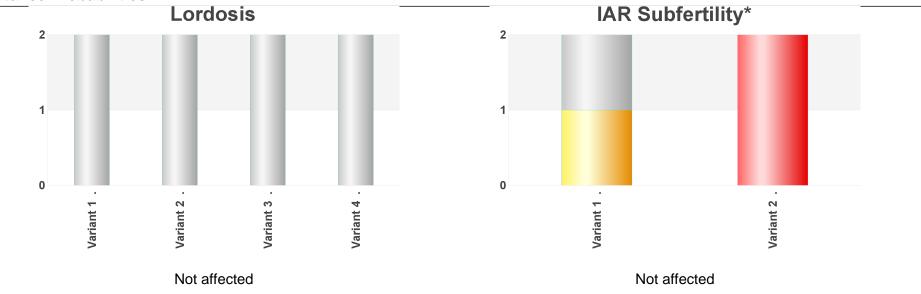
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Inheritance Probabilities



Multi-variant Risk Charts: Each chart represents a trait, and each bar indicates a distinct risk or variant presence. These act in combination to produce the trait. A red bar indicates the horse carries 2 risk variants at the site; a partly-yellow bar indicates 1 risk variant; and a fully-grey bar indicates 0 risk variants. If all bars are red, then the horse carries two risk variants 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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Variant:	One of two or more alternative forms of a gene that arise by mutation and are found at the same place on a chromosome.
Variants: Heterozygous vs.	Variant calls are written in a way that denotes their origin and whether they are DOMINANT (uppercase) or recessive (lowercase). For example,
Homozygous?	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 variant, thus is Black).
Gene:	A unit of heredity that is transferred from a parent to offspring and is thought to determine some characteristic of the offspring.
Genotype:	The genetic constitution or make up of an individual organism.
Heterozygous:	A pair of genes which are different (not the same). One is typically dominant and one recessive.
Homozygous:	A pair of genes that are identical (of one type).
Phenotype:	The observable or visible characteristics of an individual resulting from their genotype or the interaction of their various genes and environment.

The results 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 any health issues or questions you may have about your animal. Breed, sex, gene interaction, unknown genes and individual variances may impact the results, phenotypes, and behaviors 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 further questions or feedback on our diagnostic platform, results reporting, or general questions. We value your input and thank you!

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