

Horse: CPH Triskel Only Play

Owner: Cecile Penverne

Horse and Owner Information

Horse	CPH Triskel Only Play	DOB	2020-04-09	
Breed	American Paint Horse	Age	0 years, 2 months	
Color		Sex	Stallion	
Discipline	Ranch Horse	Height		
Registry		Reg Number		
Sire	GIANT HEART ROF	Dam	CPH ONLY CRYSTAL VALU	
Sire Reg & No.	1.060.215	Dam Reg & No.	1.060.215	
Comments	Description: 4 white socks			
Owner	Cecile Penverne	Address	la villeneuve zinsec	
Phone	662307475	City, State	Berne, EUROPE	
Email	cymelapainthorse@free.fr	Postal Code	56240	

HORSE ID: 053020_047



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Owner: Cecile Penverne

PACK: APHA

HORSE ID: 053020 047

Results Summary

Coat Color:

CPH Triskel Only Play has two Black variants and no Red variants, indicating the base coat color appears Black. One copy of the Dominant Agouti variant was detected; invisible on a Red base, it pushes/restricts Black out to points; legs, ear tips, etc. appearing Bay. Two Dun variants were detected which may dilute base coat color. Two Tobiano variants were detected which may result in White markings. As a result of the variant count in each of the following, he has a minimum 100% chance of passing Black and Dun and Tobiano, and 50% Dominant Agouti to any offspring.

Variant Summary:

Aa, EE, D/D, TO/TO

Myostatin: Sprint Type

6 panel negative: GBED n/n, HERDA n/n, HYPP n/n, MH n/n, PSSM1 n/n, LWO n/n

Traits: CPH Triskel Only Play has not tested positive for any known disease variants on this panel.

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

Ва	se				
	Agouti	+/-	ASIP	Aa - One dominant Agouti variant detected; restricts any Black base to appear Bay.	More about A
	Black/Red	+/+	MC1R	EE - Two Black variants detected and no Red.	More about E
Мо	odifier				
	Brindle/IP	-/-	IKBKG	No Brindle/IP variants detected.	More about IP
	Grey	-/-	STX17A	No Grey variants detected.	More about G
Dil	ution				
	Champagne	-/-	SLC36A1	No Champagne variants detected.	More about CH
	Cream	-/-	SLC45A2	No Cream variants detected.	More about CR
	Dun	+/+,-/-	ТВХ3	D/D (Dun). Two Dun variants detected.	More about Dun
	Pearl	-/-	SLC45A2	No Pearl variants detected.	More about prl
	Silver	-/-	PMEL17	No Silver variants detected.	More about Z



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Coat Color Results, continued

White Patterns Results

Dominant White	-/-	KIT	No Dominant White variants detected (DW1-21).	More about DW
Frame Overo (LWO)	-/-	EDNRB	No Frame Overo (LWO) variants detected.	More about LWO
Leopard Complex Spotting (LP)	-/-	TRPM1	No Leopard Complex Spotting (LP) variants detected.	More about LP
Pattern 1 (LP modification)	-/-	RFWD3	No Pattern 1 (LP modification) variants 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/TO - Two Tobiano variants detected.	More about TO

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Health Genetics 1

Immune 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*	**	MYH1	**Upon request only, inquire about upgrade.	More about IMM*

Muscle 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

Cerebellar Abiotrophy	-/-	MUTYH	No Cerebellar Abiotrophy variants detected.	More about ca
Lavender Foal Syndrome	-/-	MYO5A	No Lavender Foal Syndrome variants detected.	More about Ifs

Reproductive Disorders

Androgen Insensitivity	-/-	AR	No Androgen Insensitivity variants detected.	More about as
IAR - Subfertility*	-/-,+/-	FKBP6	One IAR Subfertility* variant detected; likely no effect.	More about iar*

Skin 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

Trait 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 Sprint variants detected; likely Sprint ability over Endurance.	More about MSTN
DMRT3	-/-	DMRT3	No DMRT3 variants detected.	More about DMRT3

New 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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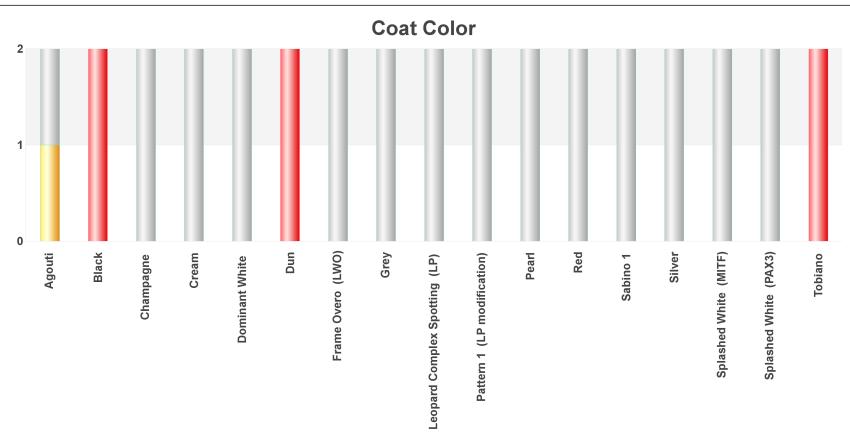
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Inheritance Probabilities



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).



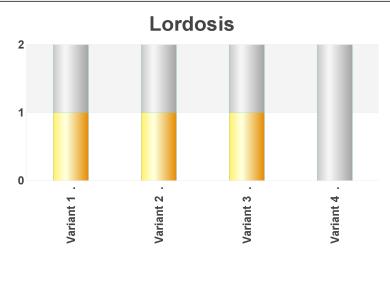
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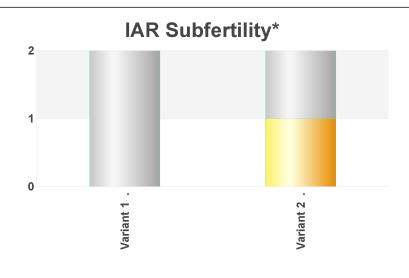
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Inheritance Probabilities





Not affected

Not affected

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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Defining Genetics & More Info

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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