



Genetic Profile Test Results

Horse: JRs Legacy of Naborr

Owner: Jennifer Hurt

Horse and Owner Information

Horse	JRs Legacy of Naborr	DOB	08/17/2008
Breed	Arabian	Age	
Color	Gray	Sex	S
Discipline		Height	14.2
Registry	AHA	Reg. Number	
Sire	TC MR LUCKY	Dam	Princess La-Godna
Sire Reg.	0154702	Dam Reg.	0513292

Comments:

Owner	Jennifer Hurt	Address	9694 N. Farm Rd. 229
Phone	(417)830-9174	City	Strafford
E-mail	jrsgentlehill@yahoo.com	Zip Code	65757





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Results Summary

Coat Color : JRs Legacy of Naborr has two Red alleles and no Black indicating his base coat color appears Red. Two copies of the Agouti allele are also detected (invisible on a Red base). His testing also indicated the presence of one Grey allele, which will result in complete greying over time. As a result of the allele count in each of the following, he has a minimum 100% chance of passing Red and Agouti and 50% Grey to any offspring.

Allele Summary: AA, ee, G/n

Traits: JRs Legacy of Naborr has not tested positive for any recessive disease genes on this panel. **This DNA will be retested.

Notes: Please note that 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, unknown)



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Coat Color/Patterns Results

Agouti	+/+	ASIP	AA -Two dominant Agouti alleles detected; restricts any Black base to appear Bay	More about Agouti
Black/Red	-/-	MC1R	ee – Two Red alleles detected and no Black	More about Black/Red
Brindle	-/-	IKBKG	No Brindle alleles detected	More about Brindle
Champagne	-/-	SLC36a1	No Champagne alleles detected	More about Champagne
Cream	-/-	SLC36a2	No Cream alleles detected	More about Cream
Dominant White	-/-	KIT	No Dominant White detected (DW20)	More about D. White
Frame Overo	-/-	EDNRB	No Frame Overo allele detected	More about Overo
Grey	+/-	STX17A	One Grey allele detected	More about Grey
Pearl			Inconclusive (Couture panel only)	More about CS Pearl
Sabino	-/-	KIT	No Sabino detected	More about Sabino
Silver	-/-	PMEL17	No Silver detected	More about Silver
Splashed White	-/-	MITF	No Splashed White detected (SW 1-4)	More about S White
Tobiano	-/-	E2	No Tobiano alleles detected	More about Tobiano
White Spotting	-/-	PAX3	No White Spotting detected	More about Spotting



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Health Genetics

AIS	-/-	AR	No androgen insensitivity detected	More about AIS
Cereb. Abiotrophy	-/-	MUTYH	No Cerebellar Abiotrophy allele detected - carrier	More about CA
EAV Susceptibility*	12/16	ECA11	Unknown Equine Arteritus Viral susceptibility	More about EAV
FIS	-/-	SLC5A3	No Foal Immunodeficiency Syndrome genes detected	More about FIS
HERDA	-/-	PPIB	No Hereditary Equine Regional Dermal Asthenia alleles detected	More about HERDA
HYPP	-/-	SCN4A	No Hyperkalemic Periodic Paralysis alleles detected	More about HYPP
IAR – Subfertility*	-/+; -/-	FKBP6	One Subfertility allele detected, likely no effect	More about IAR
JEB1	-/-	LAMC2	No Junctional Epidermolysa Bullosis detected	More about JEB1
Lavender Foal Synd.	-/-	MYO5A	No Lavender Foal alleles detected	More about LFS
MH	-/-	RYR1	No Malignant Hyperthermia alleles detected	More about MH
Myotonia	-/-	CLCN4	No Myotonia alleles detected	More about Myotonia
PSSM	-/-	GYS1	No Polysaccharide Storage Myopathy detected	More about PSSM
SCID	-/-	DNAPK	No SCID alleles detected	More about SCID
West Nile*	-/-	OAS2	Normal susceptibility to West Nile Virus	More about WNVR



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Trait Genetics

Lordosis*	2/8	ECA20	Two lordosis risk alleles detected, no effect	More about Lordosis
Curiosity/Vigilance*	**	DRD4	Inconclusive	More about C/V
Myostatin/Speed	-/-	MSTN	TT – Two Endurance type alleles detected; likely Endurance ability over Sprint/speed	More about Myostatin
Gait	-/-	DMRT3	No Gaited alleles detected	More about Gait

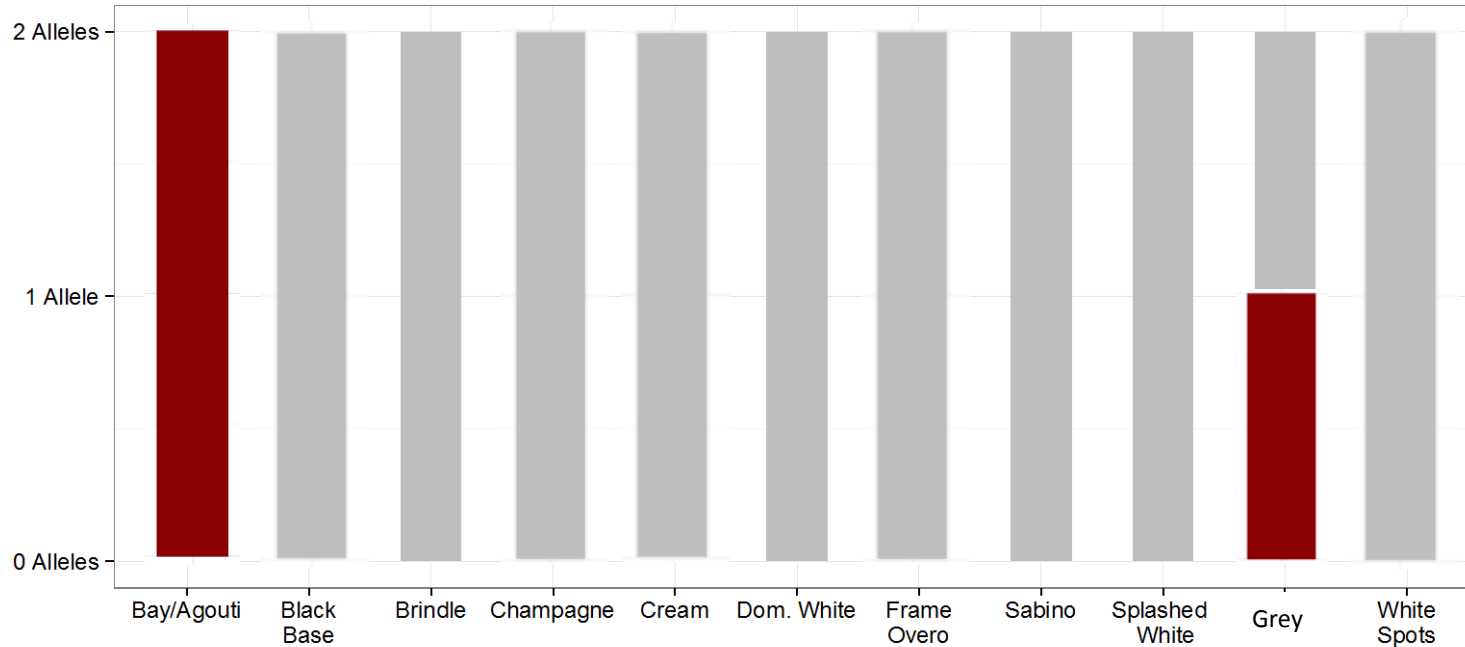


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Coat Color Inheritance Probabilities



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. Filled in red represents the probability that offspring of your horse will have that coat phenotype.



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Health Genetics



Multi-allele Risk Graph: Each bar indicates a trait and each box indicates a distinct risk site that act in combination towards the trait. A red box indicates the horse carries 2 risk alleles at the site, an orange box indicates 1 risk allele, and a grey box indicates 0 risk alleles. An all red bar indicates that the horse carries two risk alleles at each risk site and is likely affected. A bar filled completely with orange and red indicates the horse may be a carrier. Otherwise, the horse is not a likely carrier of the risk allele.



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Defining Genetics & More Info

- Allele** - One of two or more alternative forms of a gene that arise by mutation and are found at the same place on a chromosome.
- 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 or 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/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 & thank you!