

## Coat Color Genotypes

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## Customer Information

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## Order Information

**Igenity Order ID:** 141286  
**Report Date:** 9/27/2021  
**Order Date:** 8/23/2021  
**Lab Order ID:** 671022  
**Order Completion Date:** 9/15/2021

Thank you for using Igenity for your genomic testing needs.

Your results are contained in the following pages.

Please be sure to check the "Animals Not Included" page to see if any action is required of you.  
Please don't hesitate to contact us if you have any questions or concerns regarding your Igenity order.

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Animal Information		Traits	
Animal ID	Sample Barcode	Coat Color	Horn Poll
Cowboy	121020118598	E+e	
Pearl Harbor	121020118599	E+e	

Trait	Definition
<b>Coat Color</b>	Haplotype (result) for traditional red/black coat color. ED = Dominant Black e = Red E+ = Wild Type (neutral allele). Dominant black (ED) is dominant to the other two alleles and animals with this allele are black. The Wild type (E+) can produce cattle with reddish brown to brownish black coloration. Two copies of the recessive red (e) allele will result in the red color.
<b>Horn Poll</b>	Polled result from test of causative mutation for horned and polled condition in cattle. HH=Horned; HP=Carrier; PP=Homozygous Polled

Chance of Producing Red Offspring							
		Your Animal's Haplotype (Result)					
		EDED	EDE+	E+E+	EDe	E+e	ee
Possible Mating	EDED	0%	0%	0%	0%	0%	0%
	EDE+	0%	0%	0%	0%	0%	0%
	E+E+	0%	0%	0%	0%	0%	0%
	EDe	0%	0%	0%	25%	25%	50%
	E+e	0%	0%	0%	25%	25%	50%
	ee	0%	0%	0%	50%	50%	100%

Knowing the coat color carrier status of cattle in a herd helps reduce (or increase, if desired) the probability of calves with a red hide.

Based on your animal's haplotype, this table can be used to decrease, or increase, the number of red calves produced in each breeding season, further assisting in mating decisions.