



Coat Color DNA Test

Case Number: 71229

Owner: Elín Þorsteinsdóttir
Heiðarlundur 7A
Akureyri Akureyri 600
Iceland

Canine Information

DNA ID Number: **108641**

Call Name: **Stekkjarhvamms Garpur**

Sex: **Male**

Birthdate: **08/27/2011**

Breed: **Labrador Retriever**

Coat Color: **Black**

Registered Name: **Stekkjarhvamms Garpur**

Registration Number: **is16480/11**

Microchip/Tattoo:

Report Date: 2/2/2016

DNA Result: **BB S41C -/-, Q331X -/-, 345deIP -/-**


Matt Shaunessy, Senior Scientist



This supplemental sheet can be used as a guide to help clients better understand their DNA Coat Color results.

More comprehensive information about DNA Color testing can be found at our webpage:

<http://www.vetdnacenter.com/canine-dna-coat-color.html>

BB	S41C -/-, Q331X -/-, 345delP -/-	(does not carry brown)
Bb	S41C +/-, Q331X -/-, 345delP -/-	(brown carrier)
Bb	S41C -/-, Q331X +/-, 345delP -/-	(brown carrier)
Bb	S41C -/-, Q331X -/-, 345delP +/-	(brown carrier)
Bb ₂	S41C +/-, Q331X -/-, 345delP +/-	(carries 2 copies of brown alleles)
bb	S41C, Q331X, 345delP	(brown phenotype; 2 or more SNPs detected)

*Please note that brown color is also commonly referred to as “liver” or “chocolate” and occasionally “red” in a few breeds as well.

EE	R306ter	-/-	(does not carry yellow)
Ee	R306ter	+/-	(yellow carrier)
ee	R306ter	+/+	(yellow phenotype)

*Please note that yellow color in Labrador Retrievers can be interpreted differently in other breeds. The phenotype could include a number of lighter colors described by breeders as cream, white, clear red, red, or apricot.

DD	C.22G>A	-/-	(does not carry dilution)
Dd	C.22G>A	+/-	(dilute carrier)
dd	C.22G>A	+/+	(dilute phenotype)

E ^M E ^M	M264V	+/+	(2 copies of dominant mask allele)
E ^M E ^x	M264V	+/-	(1 copy of dominant mask allele & 1 copy of recessive non-mask allele)
E ^E E ^x	M264V	-/-	(2 copies of recessive non-mask allele)

NN	spot SINE	-/-	(2 copies of the non-piebald allele)
NS	spot SINE	+/-	(1 copy of the non-piebald allele and 1 copy of the piebald allele)
SS	spot SINE	+/+	(2 copies of the piebald allele)

K ^B K ^B	G23del	+/+	(2 copies of dominant allele)
K ^B K ^y	G23del	+/-	(1 copy of dominant allele & 1 copy of recessive allele)
K ^y K ^y	G23del	-/-	(2 copies of recessive allele)

a ^y a ^y	A82S	+/+	(2 copies of fawn/sable allele)
a ^y a ^w	A82S	+/-	(1 copy of fawn/sable allele & 1 copy of non-fawn/sable allele)
a ^w a ^w	A82S	-/-	(2 copies of non-fawn/sable allele)

aa	R96C	+/+	(2 copies of recessive black allele)
aa ^x	R96C	+/-	(1 copy of recessive black allele & 1 copy of non-recessive black allele)
a ^x a ^x	R96C	-/-	(2 copies of non-recessive black allele)

a ^w a ^w	tan SINE	-/-	(2 copies of the non-tan point allele)
a ^w a ^t	tan SINE	+/-	(1 copy of the non-tan point allele and 1 copy of the tan point allele)
a ^t a ^t	tan SINE	+/+	(2 copies of the tan point allele)

NN	PSMB7:c.146T>G	-/-	(does not carry harlequin)
NH	PSMB7:c.146T>G	+/-	(1 copy of the harlequin, harlequin is expressed if merle gene is also present)