

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<sub>2</sub> S41C +/-, Q331X -/-, 345delP +/- (carries 2 copies of brown alleles)
bb S41C , Q331X , 345delP (brown phenotype; 2 or more SNPs detected)
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*Please note that brown color is also commonly referred to as "liver" or "chocolate" and occasionally "red" in a few breeds as well.

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

```
C.22G>A
C.22G>A
C.22G>A
DD
                                              (does not carry dilution)
                                     +/-
Dd
                                              (dilute carrier)
dd
                                     +/+
                                              (dilute phenotype)
EMEM
            M264V
                                     +/+
                                              (2 copies of dominant mask allele)
EME×
            M264V
                                              (1 copy of dominant mask allele & 1 copy of recessive non-mask allele)
                                     +/-
ExEx
            M264V
                                     -/-
                                              (2 copies of recessive non-mask allele)
           spot SINE
                                     -/-
                                              (2 copies of the non-piebald allele)
NS
SS
                                              (1 copy of the non-piebald allele and 1 copy of the piebald allele) (2 copies of the piebald allele)
           spot SINE
                                     +/-
           spot SINE
                                     +/+
K<sub>B</sub>K<sub>B</sub>
            G23del
                                     +/+
                                              (2 copies of dominant allele)
K<sup>B</sup>K<sup>y</sup>
            G23del
                                              (1 copy of dominant allele & 1 copy of recessive allele)
                                     +/-
KyKy
            G23del
                                              (2 copies of recessive allele)
a<sup>y</sup>a<sup>y</sup>
            A82S
                                     +/+
                                              (2 copies of fawn/sable allele)
ayaw
            A82S
                                     +/-
                                              (1 copy of fawn/sable allele & 1 copy of non-fawn/sable allele)
a<sup>w</sup>a<sup>w</sup>
            A82S
                                     -/-
                                              (2 copies of non- fawn/sable allele)
                                              (2 copies of recessive black allele)
(1 copy of recessive black allele & 1 copy of non-recessive black allele)
            R96C
                                     +/+
aax
            R96C
                                     +/-
a^{x}a^{x}
            R96C
                                     -/-
                                              (2 copies of non-recessive black allele)
a<sup>w</sup>a<sup>w</sup>
            tan SINE
                                     -/-
                                              (2 copies of the non-tan point allele)
awat
            tan SINE
                                     +/-
                                              (1 copy of the non-tan point allele and 1 copy of the tan point allele)
            tan SINE
                                              (2 copies of the tan point allele)
a'a'
                                     +/+
            PSMB7:c.146T>G
                                              (does not carry harlequin)
NN
                                     -/-
NH
                                              (1 copy of the harlequin, harlequin is expressed if merle gene is also present)
            PSMB7:c.146T>G
```