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Coat Colour

Genetics The

**Canine Coat**

**Colour**

Miniature  
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## **Canine Coat Colour Genetics The**

Dog Coat Colour  
Genetics. Two different  
types of pigment. An  
introduction to  
eumelanin and  
phaeomelanin. Black,  
recessive black and  
seal. The K and A  
series. Oddities.  
Somatic mutations,  
vitiligo and other  
weirdness. Basic  
genetics terms.

## **Dog Coat Colour**

*Page 5/26*

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## Genetics The

Canine Coat Color and Type Background.

Mammals have two pigments that are the basis of hair color: eumelanin (black) and phaeomelanin (red or yellow). One of the genes involved in the production of these pigments in many species including dogs is Melanocortin 1 Receptor (MC1R) which is also known as the Extension locus. Other

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Schnauzer

genes modify how much eumelanin and phaeomelanin are produced and this results in the variety of colors and patterns found in the domestic dog.

## **Dog Coat Color and Type | Veterinary Genetics Laboratory**

Phaeomelanin is the second pigment that determines canine coat color. This pigment is red with a default color

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of gold or yellow.

Phaeomelanin creates reds that range from deep red (Irish Setter) to orange, cream, gold, yellow or tan. Genes control the intensity of phaeomelanin making the color stronger or weaker.

## **Genetics Basics - Coat Color Genetics in Dogs | VCA Animal**

...

Dog coat color genetics  
Today's scientists and



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breeders are familiar with locations on chromosomes, or loci, responsible for appropriate dog coat color, which in turn depends on the dog's descent. Each dog has two alleles for each locus. Two alleles in one locus can be the same, and in that case the dog is homozygous for that specific gene.

## **Dog Coat Color - Genetic Tests -**

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**AnimaLabs**©

Black and Yellow Coat  
Colors. Fred Lanting,  
All-Breed Judge, SAAB,  
Sieger/Schutzhund.

Since the days of my  
earliest articles on coat-  
color genetics, there  
have been advances in  
a science field known  
as Molecular Genetics,  
utilizing more recent  
discoveries about DNA,  
RNA, chromosome  
mapping, somatic-cell  
hybrids, linkage  
mapping, electron

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Genetics, The  
microscopy,

Melano-  
Schnitzer  
melanocyte-stimulating  
hormones, and other  
details about cells and  
inheritance that were  
not “visible” in earlier  
times.

## **CANINE COAT COLOR GENETICS 1 |**

**TheDogPlace.org**

Canine Coat Color

VetGen DNA

CHROMAGENE Coat  
Color Testing For many  
years geneticists and  
breeders have been

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aware of several

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locations on the  
chromosomes, or loci,  
which are responsible  
for the color patterns  
we see in dogs and  
other mammals. As  
with all genetic traits,  
every animal inherits  
one copy of each locus  
from each of its  
parents.

## **VetGen: Veterinary Genetic Services - Canine - List of ...**

The A y gene produces

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a range of coat colors like light fawn colors, darker red colors, or even sable. This variation of color is due to variances in the expression of this gene. Dogs that are  $k y / k y$  for the K locus and have one or two copies of the  $A y$  allele will always express the  $A y$  coat pattern.

**A-Locus | Canine  
Coat Color | Animal  
Genetics**

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Canine Color Charts A-Locus (Fawn, Sable, Black-and-Tan/Tricolor, Recessive Black) This chart explains what a dog's phenotype will be based on his genotype. This chart assumes the dog is "n/n" for the K-Locus. Adding in one or more copies of the KB-allele will modify the pigment that is being produced.

## **Canine Color Index - Animal Genetics**

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Now, with VetGen's  
ChromaGene™ Coat  
Color Prediction

Service, you can reveal  
your dog's hidden color  
genes and then  
optimize your ability to  
bred the colors you  
want. No more  
wondering if your top  
mating choices will  
give you a single color  
outcome. No more  
mating of yellow and  
chocolate labs only to  
find that all of the  
offspring are black.

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## **Coat Color Inheritance Chart - VetGen**

Genetics of Coat Color  
in Dogs A brief review  
of the genes controlling  
dog coat colors and  
patterns, based on  
DNA studies, with  
scientific references by  
Sheila Schmutz, PhD.  
Although some of the  
research presented  
here was conducted in  
my laboratory, I have  
also tried to include the



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excellent research  
done by others.

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Daylene Alford May 19,  
2013 Updated June 28,  
2013

## **Puppy Coat Color Calculator | Color Genetics**

Color DNA Calculator.  
Welcome to the first  
DNA calculator that is  
combined with actual  
dogs and filters. This  
DNA calculator was  
created to combine  
breeders all over the  
world and make the  
search for the perfect

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puppies much easier.  
This Calculator also will  
help to educate new  
breeders how to work  
with DNA. Please free  
to start testing!

## **Home / Color DNA Calculator**

The intensity coat color  
gene variant causes an  
extreme dilution of  
phaeomelanin (red or  
yellow pigment),  
resulting in a cream to  
white coat in dogs.

Bengal Coat Color +

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White Gloves (Birmans)  
Panel Includes all tests  
in the basic cat coat  
color panel plus a test  
for the Birman white  
gloving pattern and the  
Bengal charcoal  
coloration.

## **Coat Color and/or Type | Veterinary Genetics Laboratory**

pigment colour will  
generally be visible in  
the nose leather. Black,  
blue, liver or isabella  
pigment simply means

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Schnauzer

that IFa dog has

eumelanin in its coat, it will be that particular colour. If there is no eumelanin in the coat, there will, in most cases, be eumelanin in the nose and eyes, so the

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A normal "blue" (i.e. black) merle becomes a "red" merle when it has bb on the B locus, i.e. when it has the

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liver gene. A red merle should correctly be called a liver merle. Liver turns all of the patches on a blue merle into brown and the colour between the patches becomes pale brown, a similar shade to isabella.

### **Dog Coat Colour Genetics**

Silver brindle is often caused by the greying gene(G locus), which turns black to grey as

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the dog ages.

Sometimes dogs with black stripes and a very light cream base (see above) are also referred to as silver brindles. This is because the pale base can cause the black stripes to appear lighter than they actually are.

## **Dog Coat Colour Genetics**

dog will become  
blue(aka slate) and a

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## Genetics The

liver (chocolate) dog becomes isabella(aka lilac). A blue or isabella can have any coat pattern, but whatever they have, any black or liver in the coat will be turned to blue or isabella. It is genetically impossible for a blue dog to have any black in its coat, or for an isabella

## **Dog Coat Colour Genetics**

Several gene variants



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are known to produce dilute coloration in dogs. Colors are lightened (diluted) to paler shades as a result of the variants' effects on pigmentation. Black coloration diluted to blue in an American Staffordshire Terrier Phenotype:Base coat colors are lightened (diluted) to paler shades.

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