

Coat Colors & Traits

Trait Name	Genotype	Interpretation
A Locus (Agouti)	A^y/A^t	Sable/fawn (carries tricolor/black and tan)
A^s Locus (Saddle Tan)	N/A^s	Saddle tan/creeping tan (non saddle tan carrier)
B Locus (Brown)	B/B	Black coat, nose and foot pads (does not carry brown)
B Locus (Brown) - b^a	0	
B Locus (Brown) - b^c	0	
B Locus (Brown) - b^d	0	
B Locus (Brown) - b^h	0	
B Locus (Brown) - b^e	0	
B Locus (Brown) - b^s	0	
Brachycephaly	BR/br	Likely medium to long muzzle (short muzzle carrier)
Chondrodysplasia (CDPA)	cd/cd	Likely typical leg length
Co Locus (Cocoa, French Bulldog Type)	CO/CO	Black coat, nose and foot pads (does not carry cocoa)
Cu Locus (Curly Hair)	Cu^C/Cu^C	Curly coat
D Locus (Dilute)	D/D	Non-dilute (does not carry dilute)
D Locus (Dilute) - d^1	0	
D Locus (Dilute) - d^2	0	
D Locus (Dilute) - d^3	0	
E Locus	e^1/e^1	Yellow/Red

E Locus - E ^m (Melanistic Mask)	0	
E Locus - E ^g (Grizzle, Afghan Hound Type)	0	
E Locus - E ^h (Sable, Cocker Spaniel Type)	0	
E Locus - e ^A (Ancient Red, Spitz and Scent Hound Type)	0	
E Locus - e ¹ (Yellow/Red)	2	
E Locus - e ² (Cream, Australian Cattle Dog Type)	0	
E Locus - e ³ (White, Alaskan and Siberian Husky Type)	0	
H Locus (Harlequin, Great Dane Type)	h/h	No harlequin
Hairlessness	Rh/Rh	Coated
Hairlessness (American Hairless Terrier Type) - rh ¹	0	
Hairlessness (Scottish Deerhound Type) - rh ²	0	
Hr Locus (FOXI3 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type)	hr/hr	Coated
I Locus (Intensity)	I/I	Normal intensity
IC Locus (Improper Coat/Furnishings)	F/F	Furnishings
K Locus (Dominant Black)	k^y/k^y	Agouti expression allowed
L Locus (Long Hair/Fluffy)	Lh¹/Lh¹	Longhaired (carries two copies of long hair)
L Locus (Long Hair/Fluffy) - Lh ¹	2	
L Locus (Long Hair/Fluffy) - Lh ²	0	
L Locus (Long Hair/Fluffy) - Lh ³	0	
L Locus (Long Hair/Fluffy) - Lh ⁴	0	
M Locus (Merle)	m/m	Non merle
Polydactyly (Common Variant)	pd/pd	Normal (typical) toes (likely no hind dewclaws)

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Polydactyly (Great Pyrenees Type)
 R Locus (Roan/Ticked)
 R Locus (Roan/Ticked) - R^{T1}
 R Locus (Roan/Ticked) - R
 S Locus (White Spotting, Parti)

Polydactyly (Great Pyrenees Type)	WT/WT	WT/WT	Normal (Clear)
R Locus (Roan/Ticked)	WT/WT	R ^{Ti} /r	Ticked (carries non-roan)
R Locus (Roan/Ticked) - R ^{Ti}	WT/WT	1	
R Locus (Roan/Ticked) - R	WT/WT	0	
S Locus (White Spotting, Parti, or Piebald)	WT/WT	s ^P /s ^P	Nearly solid white, parti, or piebald
SD Locus (Shedding)	WT/WT	sd/sd	Low shedding
Sex Determination	WT/WT	X/Y	Male
Social Behavior	WT/WT	WT/WT; WT/WT	May demonstrate less social behavior
Social Behavior, Variant 1	WT/WT	0	
Social Behavior, Variant 2	WT/WT	0	
T Locus (Natural Bobtail)	WT/WT	t/t	Normal tail

WT: **wild type (normal)** M: **mutant** Y: **Y chromosome (male)**

Determinants of coat colors and traits are complex. Many of these variants are known and many of the genes screened in the Canine HealthCheck interact. In addition, not all the genetic factors that contribute to a dog's coat color and traits are known. Because of the complexities in gene-gene interactions, the coat colors and traits reported in your Canine HealthCheck results may vary from your dog's actual appearance. Individual differences in genes throughout the canine genome, not tested in this genetic screen, may also affect the final coat color or traits seen in your dog.

Diseases

Disease Name	Genotype	Interpretation
Acral Mutilation Syndrome	WT/WT	Normal (Clear)
Acute Respiratory Distress Syndrome	WT/WT	Normal (Clear)
Adult Paroxysmal Dyskinesia	WT/WT	Normal (Clear)

Afibrinogenemia (Dachshund Type)	WT/WT	Normal (Clear)
Alaskan Husky Encephalopathy	WT/WT	Normal (Clear)
Alaskan Malamute Polyneuropathy	WT/WT	Normal (Clear)
Amelogenesis Imperfecta (Italian Greyhound Type)	WT/WT	Normal (Clear)
Amelogenesis Imperfecta (Parson Russell Terrier Type)	WT/WT	Normal (Clear)
Ataxia (Norwegian Buhund Type)	WT/WT	Normal (Clear)
Benign Familial Juvenile Epilepsy	WT/WT	Normal (Clear)
Bernard-Soulier Syndrome	WT/WT	Normal (Clear)
Canine Multiple System Degeneration (Chinese Crested Type)	WT/WT	Normal (Clear)
Canine Multiple System Degeneration (Kerry Blue Terrier Type)	WT/WT	Normal (Clear)
Canine Scott Syndrome	WT/WT	Normal (Clear)
Cardiomyopathy and Juvenile Mortality	WT/WT	Normal (Clear)
Catalase Deficiency	WT/WT	Normal (Clear)
Centronuclear Myopathy	WT/WT	Normal (Clear)
Cerebellar Ataxia (Finnish Hound Type)	WT/WT	Normal (Clear)
Cerebellar Ataxia 1 (Belgian Shepherd Type)	WT/WT	Normal (Clear)
Cerebellar Ataxia 2 (Belgian Shepherd Type)	WT/WT	Normal (Clear)
Cerebellar Cortical Degeneration	WT/WT	Normal (Clear)
Cerebellar Degeneration	WT/WT	Normal (Clear)

Charcot-Marie-Tooth Disease
 Chondrodysplasia (Karelian Bear Dog and
 Elkhound Type)
 Cleft Palate and Syndactyly (Nova Scotia Duck
 Retriever Type)
 Coagulation

Handwritten notes on a separate sheet, including the word "Total" and a circled number "7".

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Normal (Clear)
Normal (Clear)

Charcot-Marie-Tooth Disease	WT/WT	Normal (Clear)
Chondrodysplasia (Karelian Bear Dog and Norwegian Elkhound Type)	WT/WT	Normal (Clear)
Cleft Palate and Syndactyly (Nova Scotia Duck Tolling Retriever Type)	WT/WT	Normal (Clear)
Coagulation Factor VII Deficiency	WT/WT	Normal (Clear)
Collie Eye Anomaly	WT/WT	Normal (Clear)
Complement 3 Deficiency	WT/WT	Normal (Clear)
Cone Degeneration	WT/WT	Normal (Clear)
Cone Degeneration (German Shepherd Dog Type)	WT/WT	Normal (Clear)
Cone Degeneration (German Shorthaired Pointer Type)	WT/WT	Normal (Clear)
Cone Degeneration (Labrador Retriever Type)	WT/WT	Normal (Clear)
Congenital Hypothyroidism with Goiter (Terrier Type)	WT/WT	Normal (Clear)
Congenital Idiopathic Megaesophagus Risk Factor (German Shepherd Type)	WT/WT	Normal (Clear)
Congenital Macrothrombocytopenia (Cairn and Norfolk Terrier Type)	WT/WT	Normal (Clear)
Congenital Methemoglobinemia	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Golden Retriever Type)	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Jack Russell Terrier Type)	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Labrador Retriever Type)	WT/WT	Normal (Clear)
Congenital Myasthenic Syndrome (Old Danish Pointer Type)	WT/WT	Normal (Clear)



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AKC Mini
Poodle