

Breed Profile		
Disease Name	Genotype	Interpretation
Degenerative Myelopathy	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	
GM2 Gangliosidosis (Poodle Type)	WT/WT	Normal (clear)
Hereditary Cataracts	WT/WT	Normal (clear)
Intervertebral Disc Disease Risk Factor and Chondrodystrophy (CDDY with IVDD)	WT/WT	Normal (clear)
Multidrug Resistance 1	WT/WT	Normal (clear)
Neonatal Encephalopathy with Seizures	WT/WT	Normal (clear)
Osteochondrodysplasia	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration (prcd)	WT/WT	Normal (clear)
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	WT/WT	Normal (clear)
Von Willebrand Disease I	WT/WT	Normal (clear)

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

Coat Colors & Traits		
Trait Name	Genotype	Interpretation
A Locus (Agouti)	a ^t /a ^t	Tricolor, black and tan

A ^s Locus (Saddle Tan)	N/N	No saddle tan/creeping tan
B Locus (Brown)	B/B	Black coat, nose and foot pads
B Locus (Brown) - b ^a	0	
B Locus (Brown) - b ^c	0	
B Locus (Brown) - b ^d	0	
B Locus (Brown) - b ^s	0	
Brachycephaly	BR/BR	Likely medium to long muzzle
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
D Locus (Dilute) - d ¹	0	
D Locus (Dilute) - d ²	0	
E Locus (Yellow/Red)	E/E	Black
E ^g Locus (Grizzle, Afghan Hound Type)	N/N	No grizzle
E ^h Locus (Sable, Cocker Spaniel Type)	N/N	No sable
E ^m Locus (Melanistic Mask)	E ^m /E ^m	Melanistic mask
H Locus (Harlequin, Great Dane Type)	h/h	No harlequin

Peruvian Hairless and Chinese Crested Type)		
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) - Lh ¹ , Lh ² , Lh ⁴	Lh/Lh	Longhaired
L Locus (Long Hair/Fluffy) - Lh ¹	2	
L Locus (Long Hair/Fluffy) - Lh ²	0	
L Locus (Long Hair/Fluffy) - Lh ⁴	0	
M Locus (Merle)	m/m	Non merle
Polydactyly	pd/pd	Normal (typical) toes (likely no hind dewclaws)
S Locus (White Spotting, Parti, or Piebald)	s ^p /s ^p	Nearly solid white, parti, or piebald
SD Locus (Shedding)	SD/SD	High shedding
Sex Determination - ZFXY	X/X	Female
T Locus (Natural Bobtail)	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.

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)

Alaskan Husky Encephalopathy	WT/WT	Normal (clear)
Alaskan Malamute Polyneuropathy	WT/WT	Normal (clear)
Amelogenesis Imperfecta	WT/WT	Normal (clear)
Ataxia (Norwegian Buhund Type)	WT/WT	Normal (clear)
Benign Familial Juvenile Epilepsy	WT/WT	Normal (clear)
Canine Multiple System Degeneration (Chinese Crested Type)	WT/WT	Normal (clear)
Canine Multiple System Degeneration (Kerry Blue Terrier	WT/WT	Normal (clear)

Amelogenesis Imperfecta	WT/WT	Normal (clear)
Ataxia (Norwegian Buhund Type)	WT/WT	Normal (clear)
Benign Familial Juvenile Epilepsy	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)
Catalase Deficiency	WT/WT	Normal (clear)
Centronuclear Myopathy	No Result	No Result
Cerebellar Ataxia (Finnish Hound Type)	WT/WT	Normal (clear)
Cerebellar Ataxia 1 (Belgian Shepherd Type)	WT/WT	Normal (clear)
Cerebellar Cortical Degeneration	WT/WT	Normal (clear)
Cerebellar Degeneration	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 Methemoglobinemia	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)
Congenital Stationary Night Blindness	WT/WT	Normal (clear)
CranioMANDIBULAR Osteopathy	WT/WT	Normal (clear)
Cyclic Neutropenia	WT/WT	Normal (clear)