Canine HealthCheck

Demographic Information

Call Name:	Pepper	DOB:	December 5, 2019
Registered Name:		Registration Number:	
Breed:	Poodle	Tattoo:	
Sex:	Female	Microchip:	
Owner:	Anna Fairchild	Laboratory # Report Date:	4N-20-00023 February 24, 2020

These tests were developed and performed by Pet First Genetics®, Spokane WA.

Explanation of Results

Carrier (C/N)	A Carrier test result means that one copy (one allele) of the mutation that causes the covered genetic disease. A Carrier test result does not mean that your dog will be affected with the condition that has been covered by the test. It means that your dog has the genetic ability to pass the mutation on to his/her offspring. Breeding a carrier to another carrier increases the chance of producing affected puppies.
Carrier (C/C)	A Carrier / Carrier result indicates that two copies (two alleles) of the mutation that has been covered by the test are present. This means that your dog is a carrier of the condition that has been covered by the genetic test. It means that your dog has the genetic ability to pass the mutation on to his/her offspring. Breeding a carrier to another carrier increases the chance of producing affected puppies.
At Risk	The Result indicates that an unknown number of copies (alleles) of the mutation that has been covered by the genetic test are present. Because the test results are not clear, it is not possible to determine if your dog is affected with the condition that has been covered by the genetic test. Further testing may be desirable for accurate diagnosis. It may be up to your veterinarian to decide if and when to repeat the genetic test, based on your dog's clinical signs.

Please visitwww.vetgen.com/disclaimers regarding case results.

MT: wild-type/normal VC: carrier FC: Frameshift/carrier

Breed Profile

Test Name	Genotype	Interpretation
Degenerative Myelopathy	wt/wt	Normal
Degenerative Myelopathy (Bernese Mountain Dog breed) Degenerative Myelopathy (Canine Breed)	No Result No Result	No Result No Result
Ataxia Canine Syndrome	C/N	Carrier
Ataxia Canine Syndrome Version 2 Ataxia Canine Syndrome Version 2	C C	
Hereditary Nasal Parakeratosis (Labrador Retriever Breed) Poodle Type	wt/wt	Normal/Clear
Hereditary Cataracts	wt/wt	Normal/Clear
Congenital Dilac Disease Risk Factor and Congenital Dilac Disease	wt/wt	Normal/Clear
Hereditary Nasomiasis 1	wt/wt	Normal/Clear
Hereditary Nasomiasis 2	wt/wt	Normal/Clear
Osteochondrodysplasia with Dwarfism	wt/wt	Normal/Clear
Osteochondrodysplasia	wt/wt	Normal/Clear
Progressive Retinal Atrophy, Progressive Rod Cone Type	wt/wt	Normal/Clear
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	wt/wt	Normal/Clear
Von Willebrand Disease 1	wt/wt	Normal/Clear

MT: wild-type/normal VC: carrier FC: Frameshift/carrier

Coat Colors & Traits

Test Name	Genotype	Interpretation
K locus (CBD103)	y^y/y^y	Tricolor, black and tan
B locus (TYRP1)	b/b	No visible tan markings
D locus (MLPH)	d/d	Black coat, brown and tan (dilute brown)
Brachycephaly	BB.BB	Likely medium to long muzzle
Chondrodystrophy (CDPA)	cd/cd	Likely typical leg length
H locus (HSD2B17B1)	h^s/h^s	Curly coat
E locus (Mc1r)	E/E	Non dilute
E locus Mc1r E locus Mc1r	E E	
A locus (ASIP)	a^y/a^y	Black
M locus Merle Gene (Dapple Test)	M/M	No merle
P locus Brown Coat Color Gene Test	P/P	Not dilute
S locus Spotting Gene Test	S/S	No white
M locus Merle Gene Test	m^4/m^4	Homozygote merle (carrier)
M locus Merle Gene Test	M/M	No homozygote
S locus Spotting Gene Test (Piebald Gene, Pattern Gene, and Extreme Gene) Type	S/sp	Colored
I locus (KIT)	I/I	Normal melanocyte
R locus (RSPO2)	R/R	Furnishings
K locus Dominant Black	k^y/k^y	Agouti expression allowed
Long Coat (RSPO2)	CH/CH	Longhaired
Ch locus Long Coat Gene Test, LP Long Coat Gene Test, LP	CH/CH CH/CH	
M locus Merle Gene	M/M	Non merle
Fetal Anemia	wt/wt	Normal Sign(Lines Wide) in Blood Smear
Albinism (Tyrosinase Gene, or Platinum)	c^a/c^a	Nearly solid white, pink eyes, pink nose
Albinism (Tyrosinase Gene)	Wt/Wt	High shedding
No Pheomelanin	N/N	Male
Albinism Tyrosinase Blonde	c/c	Normal fur

Determination of coat color and coat pattern are complex. Most of the genes involved in these traits are not known. The genetic tests listed above are for those genes that are known to be responsible for some of the variation in coat color and coat pattern in dogs. Because of the complexity of genes and interactions, the coat color and trait expected in your Canine HealthCheck results may not be consistent with your dog's appearance. Some of the genetic tests listed above are for genes that are not expressed in your dog's breed. In such cases, they will only tell you that your dog does or does not carry a certain allele (variant) of a gene.

Diseases

Disease Name	Genotype	Interpretation
Acral Mutilation Syndrome	wt/wt	Normal/Clear
Acute Neuropathic Ataxia Syndrome	wt/wt	Normal/Clear
Adult Neuronal Ceroidosis	wt/wt	Normal/Clear
Alaskan Husky Encephalopathy	wt/wt	Normal/Clear
Alpha-Mannosidosis Polysaccharidosis	wt/wt	Normal/Clear
Amelogenesis Imperfecta	wt/wt	Normal/Clear
Benign Familial Juvenile Epilepsy	wt/wt	Normal/Clear
Canine Hereditary Ataxia Syndrome Degenerative Myelopathy Type	wt/wt	Normal/Clear
Canine Multifocal Retinal Degeneration Rod Bipolar Subtype	wt/wt	Normal/Clear
Canine Scaly Syndrome	wt/wt	Normal/Clear
Cataract Dichroism	wt/wt	Normal/Clear
Cerebellar Abiotrophy	wt/wt	Normal/Clear
Chondrodystrophy Dwarfism Pseudo Achondroplasia	wt/wt	Normal/Clear
Cobalamin Malabsorption	wt/wt	Normal/Clear
Collie Dermatomyositis	wt/wt	Normal/Clear
Collie Nasal Depigmentation	wt/wt	Normal/Clear
Congenital Myotonia Chondrodystrophy Dwarfism Type	wt/wt	Normal/Clear
Congenital Stationary Night Blindness Type	wt/wt	Normal/Clear
Congenital Vertebral Malformations Lethal Scoliosis Type	wt/wt	Normal/Clear
Congenital Vertebral Malformations Lethal Vertebral Type	wt/wt	Normal/Clear
Congenital Vertebral Malformations Spinal Dysraphism Type	wt/wt	Normal/Clear
Congenital Vertebral Malformations Tail Bobbed Type	wt/wt	Normal/Clear
Coagulation Factor XII 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 Canine Glaucoma Type	wt/wt	Normal/Clear
Cone Degeneration Canine Glaucoma Secondary Type	wt/wt	Normal/Clear
Cone Degeneration Progressive Rod Cone Degeneration Type	wt/wt	Normal/Clear
Congenital Hypothyroidism Goiter Type	wt/wt	Normal/Clear
Congenital Myotonia Type	wt/wt	Normal/Clear
Congenital Myotonia Type Thomsen's Disease	wt/wt	Normal/Clear
Congenital Myotonia Lethargic Type	wt/wt	Normal/Clear
Congenital Myotonia Neonatal Lethargic Type	wt/wt	Normal/Clear
Congenital Stationary Night Blindness	wt/wt	Normal/Clear
Craniomandibular Osteopathy	wt/wt	Normal/Clear
Cystic Meningioma	wt/wt	Normal/Clear
Cystinosis Cystinosis, Fanconi Type	wt/wt	Normal/Clear
Cystinuria Cystinuria Variant Type	wt/wt	Normal/Clear
Cystinuria Cystinuria Type	wt/wt	Normal/Clear
Cystinuria Myelomeningocele Type	wt/wt	Normal/Clear
Cystinuria Type 2 Cystinuria Type Mutation Variant 3	wt/wt	Normal/Clear
Cystinuria Type 2 Cystinuria Type Mutation Variant 3	wt/wt	Normal/Clear
Dandy Walker Like Malformation	No Result	No Result
Degenerative Myelopathy	wt/wt	Normal/Clear
Degenerative Myelopathy (Bernese Mountain Dog breed) Degenerative Myelopathy (Canine Breed)	No Result No Result	No Result No Result
Degenerative Myelopathy Early Onset Bed Mutation Variant Type	wt/wt	Normal/Clear
Dental Hypomyelination	wt/wt	Normal/Clear
Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis	wt/wt	Normal/Clear
Distal Limb Hypomyelination Canine Spinal Muscular Atrophy Type Mutation Variant 1	wt/wt	Normal/Clear
Distal Polyneuropathy Distal Axonopathy Type Mutation Variant 1	wt/wt	Normal/Clear
Distal Spinal Muscular Atrophy Canine Spinal Muscular Atrophy Type Mutation Variant 1	wt/wt	Normal/Clear
Dog Leukocyte Antigen 88 Deficiency	wt/wt	Normal/Clear
Dry Eye Curly Coat Syndrome	wt/wt	Normal/Clear
Dyschondroplasia Epidermolysis Bullosa	wt/wt	Normal/Clear
Early Retinal Degeneration	wt/wt	Normal/Clear
Endothelial Dystrophy Canine Hereditary Corneal Dystrophy Type	wt/wt	Normal/Clear
Epidermal Dysplasia, III Linked Epidermal Type	wt/wt	Normal/Clear
Epidermal Dysplasia, III Linked Epidermal Type	wt/wt	Normal/Clear
Ethylene Oxide Sensitivity	wt/wt	Normal/Clear
Canine Sensitivity Syndrome Version 2 Canine Sensitivity Syndrome Version 2	C C	Carrier Carrier
Factor VII Deficiency	wt/wt	Normal/Clear
Fanconi Anemia Type A	wt/wt	Normal/Clear
Fanconi Anemia Type C	wt/wt	Normal/Clear
Factor XI Deficiency	wt/wt	Normal/Clear
Familial Nonspecific Cerebellar Ataxia	wt/wt	Normal/Clear
Fucosidosis	wt/wt	Normal/Clear
Galactosemia Mucoidosis	wt/wt	Normal/Clear
Glanzmann's Thrombasthenia Canine Platelet Type	wt/wt	Normal/Clear
Glanzmann's Thrombasthenia Canine Platelet Type	wt/wt	Normal/Clear
Glycogen Storage Disease Ia Canine Type	wt/wt	Normal/Clear
Glycogen Storage Disease Ia	wt/wt	Normal/Clear
Glycogen Storage Disease IV	wt/wt	Normal/Clear
Glycogen Storage Disease IV Glycoprotein Type	wt/wt	Normal/Clear
Glycogen Storage Disease VII, PFK Deficiency	wt/wt	Normal/Clear
GM1 Gangliosidosis Canine Type Mutation Variant 1	wt/wt	Normal/Clear
GM1 Gangliosidosis Canine Type Mutation Variant 1	wt/wt	Normal/Clear
GM1 Gangliosidosis Poodle Type	wt/wt	Normal/Clear
GM2 Gangliosidosis Sandy Type	wt/wt	Normal/Clear
GM2 Gangliosidosis Sandy Type	wt/wt	Normal/Clear
GM2 Gangliosidosis Poodle Type	wt/wt	Normal/Clear
Goniodysplasia Glaucoma	wt/wt	Normal/Clear
Hereditary A Cystinosis Shepherd Dog Type 1	wt/wt	Normal/Clear
Hereditary A Cystinosis Shepherd Dog Type 1	wt/wt	Normal/Clear
Hereditary A Cystinosis Type	wt/wt	Normal/Clear
Hereditary A Cystinosis Type	wt/wt	Normal/Clear
Hereditary A Cystinosis Shepherd Type	wt/wt	Normal/Clear
Hereditary Cataracts Australian Shepherd Type	wt/wt	Normal/Clear
Hereditary Footpad Hyperkeratosis Labrador Retriever Type	wt/wt	Normal/Clear
Hereditary Nasal Parakeratosis Labrador Type	wt/wt	Normal/Clear
Hereditary Nasal Parakeratosis Labrador Type	wt/wt	Normal/Clear
Hereditary Nasal Parakeratosis Labrador Type	wt/wt	Normal/Clear
Hereditary Nasomiasis Cocker Spaniel

Progressive Retinal Atrophy, X-Linked 1	WT/Y	X-Linked Male Normal
Protein Losing Nephropathy	No Result	No Result
Protein Losing Nephropathy (Variant 1)	0	
Protein Losing Nephropathy (Variant 2)	No Result	No Result
Pyruvate Dehydrogenase Deficiency	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Basenji Type	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Beagle Type	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Labrador Retriever Type	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Pug Type	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Terrier Type	WT/WT	Normal (Clear)
Recurrent Inflammatory Pulmonary Disease	WT/WT	Normal (Clear)
Renal Cystadenocarcinoma and Nodular Dermatofibrosis	WT/WT	Normal (Clear)
Retinal Dysplasia/Oculoskeletal Dysplasia 1	WT/WT	Normal (Clear)
Retinal Dysplasia/Oculoskeletal Dysplasia 2	WT/WT	Normal (Clear)
Sensory Neuropathy Border Collie Type	WT/WT	Normal (Clear)
Severe Combined Immunodeficiency Disease Terrier Type	WT/WT	Normal (Clear)
Severe Combined Immunodeficiency Disease Wetterhoun Type	WT/WT	Normal (Clear)
Severe Combined Immunodeficiency Disease, X-Linked Basset Hound Type	WT/Y	X-Linked Male Normal
Severe Combined Immunodeficiency Disease, X-Linked Corgi Type	WT/Y	X-Linked Male Normal
Shar-Pei Autoinflammatory Disease	WT/WT	Normal (Clear)
Skeletal Dysplasia 2	WT/WT	Normal (Clear)
Spinal Dysraphism	WT/WT	Normal (Clear)
Spinocerebellar Ataxia	WT/WT	Normal (Clear)
Spondylocostal Dysostosis	WT/WT	Normal (Clear)
Stargardt Disease	WT/WT	Normal (Clear)
Startle Disease	WT/WT	Normal (Clear)
Thrombopathia American Eskimo Dog Type	WT/WT	Normal (Clear)
Thrombopathia Basset Hound Type	WT/WT	Normal (Clear)
Thrombopathia Newfoundland Type	WT/WT	Normal (Clear)
Trapped Neutrophil Syndrome	WT/WT	Normal (Clear)
Urolithiasis Native American Indian Dog Type	WT/WT	Normal (Clear)
Van Den Ende-Gupta Syndrome	WT/WT	Normal (Clear)
Von Willebrand Disease I	WT/WT	Normal (Clear)
Von Willebrand Disease II	WT/WT	Normal (Clear)
Von Willebrand Disease III Kooikerhondje Type	WT/WT	Normal (Clear)
Von Willebrand Disease III Scottish Terrier Type	WT/WT	Normal (Clear)
Von Willebrand Disease III Shetland Sheepdog Type	WT/WT	Normal (Clear)

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

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Canine HealthCheck is a product of Paw Print Genetics. This test was developed and its performance determined by Paw Print Genetics®. This laboratory has established and verified the test's accuracy and precision. Because all tests are preformed are DNA-base, rare genomic variations may interfere with the performance of some tests producing false results. If you think these results are in error, please contact the laboratory for further evaluation.

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The Canine HealthCheck® is a screen of >250 genes that cause diseases or traits in dogs. This is not a diagnostic test. Any abnormal results (carrier or affected), or any results that concern you, should be confirmed using a diagnostic test. Diagnostic testing is available from Paw Print Genetics® and in many cases, can be performed using existing DNA from the Canine HealthCheck.

The Canine HealthCheck is not a breed identification test.