



Demographic Information

Call Name	Gunner	DOB
Registered Name	Portentosos's Gunner Son of Ronto	Registratio
Breed	Labrador Retriever	Tattoo
Sex	M	Microchip
Owner	Nicholas Portentosos	Laboratory
		Report Dat

These tests were developed and performed by Paw Print Genetics®, Spokane WA.

Explanation of Results

Normal	A 'Normal' result means that your dog does not have the mutation that causes the associated genetic disease.
Carrier	A 'Carrier' result indicates that your dog has inherited one copy of the mutation that has been reported to cause disease.
Carrier / At-Risk	A 'Carrier / At-Risk' result indicates that your dog inherited one copy of the mutation that has been reported to cause disease. Dogs with one copy of the mutation may have a milder phenotype.
At-Risk / Affected	An 'At-Risk / Affected' result indicates that your dog inherited one or two copies of the mutation that has been reported to cause disease. Dogs with one or two mutant copies of the gene may result in the disease.
No Result	'No Result' indicates that we were unable to obtain a genotype for your dog for this specific disease or trait and we may not provide a reportable result. Unique variations in the genetic code of some individuals may exist and a dog's cheek cells could also result in poor sample performance due to inadequate cell counts, bacterial and fungal contamination, or other factors. Dogs with at least 90% of the test results are determined to be acceptable and reportable for Paw Print Genetics. Dogs with at least 90% of the test results are determined to be acceptable and reportable for testing.

Please review our [testing terms and disclaimers](#) regarding

Breed Profile

Disease Name	Genotype
Congenital Myasthenic Syndrome Labrador Retriever Type	WT/WT
Cystinuria Labrador Retriever Type	WT/WT
Degenerative Myelopathy Common Variant	WT/WT
Elliptocytosis	WT/WT
Exercise-Induced Collapse	WT/WT
Hereditary Nasal Parakeratosis	WT/WT
Hyperuricosuria	WT/WT
Ichthyosis Golden Retriever Type	WT/WT
Myotubular Myopathy 1	WT/Y
Narcolepsy Labrador Retriever Type	WT/WT
Progressive Retinal Atrophy, Golden Retriever 2	WT/WT
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	WT/WT
Pyruvate Kinase Deficiency Labrador Retriever Type	WT/WT
Skeletal Dysplasia 2	WT/WT

Coat Colors & Traits

Trait Name	Genotype
A Locus Agouti	a ^t /a ^t

B Locus Brown	B/B
<div style="border: 1px solid black; padding: 5px;"> <p>B Locus (Brown) - b^a</p> <p>B Locus (Brown) - b^c</p> <p>B Locus (Brown) - b^d</p> <p>B Locus (Brown) - b^s</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>0</p> <p>0</p> <p>0</p> <p>0</p> </div>
Brachycephaly	BR/BR
Chondrodysplasia CDPA	cd/cd
Cu Locus Curly Hair	Cu/Cu
D Locus Dilute	D/D
<div style="border: 1px solid black; padding: 5px;"> <p>D Locus (Dilute) - d¹</p> <p>D Locus (Dilute) - d²</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>0</p> <p>0</p> </div>
E Locus Yellow/Red	e/e
E^a Locus Grizzle, Afghan Hound Type	N/N
E^m Locus Melanistic Mask	N/N
H Locus Harlequin, Great Dane Type	h/h
K Locus Dominant Black	K ^B /K ^B
L Locus Long Hair/Fluffy	Sh/Sh
<div style="border: 1px solid black; padding: 5px;"> <p>L Locus (Long Hair/Fluffy) - Lh¹</p> <p>L Locus (Long Hair/Fluffy) - Lh²</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p>0</p> <p>0</p> </div>
Polydactyly	pd/pd
SD Locus Shedding	sd/SD
Sex Determination	X/Y
T Locus Natural Bobtail	t/t

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 complexities in gene-gene interactions, the coat colors and traits reported in your Canine HealthCheck results may vary from your dog's actual appearance. In coat color or traits seen in your dog.

Diseases

Disease Name	Genotype
Alaskan Husky Encephalopathy	WT/WT
Alaskan Malamute Polyneuropathy	WT/WT
Amelogenesis Imperfecta	WT/WT
Benign Familial Juvenile Epilepsy	WT/WT
Canine Multiple System Degeneration Chinese Crested Type	WT/WT
Canine Multiple System Degeneration Kerry Blue Terrier Type	WT/WT
Cerebellar Ataxia Finnish Hound Type	WT/WT
Chondrodysplasia Karelian Bear Dog and Norwegian Elkhound Type	WT/WT
Coagulation Factor VII Deficiency	WT/WT
Collie Eye Anomaly	WT/WT
Complement 3 Deficiency	WT/WT
Cone Degeneration	WT/WT
Cone Degeneration German Shorthaired Pointer Type	WT/WT
Congenital Myasthenic Syndrome Labrador Retriever Type	WT/WT
Congenital Myasthenic Syndrome Old Danish Pointer Type	WT/WT
Congenital Stationary Night Blindness	WT/WT
Cyclic Neutropenia	WT/WT
Cystinuria Australian Cattle Dog Type	WT/WT
Cystinuria Labrador Retriever Type	WT/WT

Cystinuria Miniature Pinscher Type	WT/WT
Cystinuria Newfoundland Type	WT/WT
Degenerative Myelopathy Common Variant	WT/WT
Degenerative Myelopathy Early-Onset Risk Modifier Pembroke Welsh Corgi Type	WT/WT
Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 1	WT/WT
Dry Eye Curly Coat Syndrome	WT/WT
Dystrophic Epidermolysis Bullosa	WT/WT
Early Retinal Degeneration	WT/WT
Ectodermal Dysplasia Chesapeake Bay Retriever Type	WT/WT
Ectodermal Dysplasia, X-Linked Shepherd Type	WT/Y
Elliptocytosis	WT/WT
Epidermolytic Hyperkeratosis	WT/WT
Episodic Falling Syndrome	WT/WT
Exercise-Induced Collapse	WT/WT
Familial Nephropathy Cocker Spaniel Type	WT/WT
Familial Nephropathy English Springer Spaniel Type	WT/WT
Gallbladder Mucoceles	WT/WT
Glanzmann's Thrombasthenia Great Pyrenees Type	WT/WT
Glanzmann's Thrombasthenia Otterhound Type	WT/WT
Globoid Cell Leukodystrophy Irish Setter Type	WT/WT
Globoid Cell Leukodystrophy Terrier Type	WT/WT
Glycogen Storage Disease Ia	WT/WT
Glycogen Storage Disease IIIa	WT/WT

Glycogen Storage Disease VII Wachtelhund Type	WT/WT
Glycogen Storage Disease VII, PFK Deficiency	WT/WT
GM1 Gangliosidosis Alaskan Husky Type	WT/WT
GM1 Gangliosidosis Portuguese Water Dog Type	WT/WT
GM1 Gangliosidosis Shiba Inu Type	WT/WT
GM2 Gangliosidosis Japanese Chin Type	WT/WT
GM2 Gangliosidosis Poodle Type	WT/WT
Greyhound Polyneuropathy	WT/WT
Hemophilia A Boxer Type	WT/Y
Hemophilia A German Shepherd Dog, Type 1	WT/Y
Hemophilia A German Shepherd Dog, Type 2	WT/Y
Hemophilia B Cairn Terrier Type	WT/Y
Hemophilia B Lhasa Apso Type	WT/Y
Hemophilia B Rhodesian Ridgeback Type	WT/Y
Hereditary Cataracts	WT/WT
Hereditary Cataracts Australian Shepherd Type	WT/WT
Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type	WT/WT
Hereditary Nasal Parakeratosis	WT/WT
Hereditary Nephritis Samoyed Type	WT/Y
Hyperuricosuria	WT/WT
Ichthyosis American Bulldog Type	WT/WT

Ichthyosis Golden Retriever Type	WT/WT
Inherited Myopathy of Great Danes	WT/WT
Intestinal Cobalamin Malabsorption Beagle Type	WT/WT
Intestinal Cobalamin Malabsorption Border Collie Type	WT/WT
Juvenile Laryngeal Paralysis and Polyneuropathy	WT/WT
Juvenile Myoclonic Epilepsy Rhodesian Ridgeback Type	WT/WT
L-2-Hydroxyglutaric Aciduria Staffordshire Bull Terrier Type	WT/WT
Late Onset Ataxia	WT/WT
Leukocyte Adhesion Deficiency, Type I	WT/WT
Leukocyte Adhesion Deficiency, Type III	WT/WT
Ligneous Membranitis	WT/WT
May-Hegglin Anomaly	WT/WT
Mucopolysaccharidosis I	WT/WT
Mucopolysaccharidosis IIIA Dachshund Type	WT/WT
Mucopolysaccharidosis IIIA New Zealand Huntaway Type	WT/WT
Mucopolysaccharidosis VII Shepherd Type	WT/WT
Multidrug Resistance 1	WT/WT
Multifocal Retinopathy 1	WT/WT
Multifocal Retinopathy 2	WT/WT
Multifocal Retinopathy 3	WT/WT
Muscular Dystrophy Golden Retriever Type	WT/Y
Musladin-Lueke Syndrome	WT/WT
Myostatin Deficiency Whippet and Longhaired Whippet Type	WT/WT
Myotonia Congenita Australian Cattle Dog Type	WT/WT

Myotonia Congenita Schnauzer Type	WT/WT
Myotubular Myopathy 1	WT/Y
Narcolepsy Dachshund Type	WT/WT
Narcolepsy Doberman Pinscher Type	WT/WT
Narcolepsy Labrador Retriever Type	WT/WT
Neonatal Cerebellar Cortical Degeneration	WT/WT
Neonatal Encephalopathy with Seizures	WT/WT
Neuronal Ceroid Lipofuscinosis Tibetan Terrier Type	WT/WT
Neuronal Ceroid Lipofuscinosis 1	WT/WT
Neuronal Ceroid Lipofuscinosis 1 Cane Corso Type	WT/WT
Neuronal Ceroid Lipofuscinosis 10	WT/WT
Neuronal Ceroid Lipofuscinosis 2	WT/WT
Neuronal Ceroid Lipofuscinosis 4A	WT/WT
Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type	WT/WT
Neuronal Ceroid Lipofuscinosis 6	WT/WT
Neuronal Ceroid Lipofuscinosis 8 Australian Shepherd Type	WT/WT
Neuronal Ceroid Lipofuscinosis 8 Setter Type	WT/WT
Osteogenesis Imperfecta Beagle Type	WT/WT
Osteogenesis Imperfecta Dachshund Type	No Result
Osteogenesis Imperfecta Golden Retriever Type	WT/WT
P2RY12 Receptor Platelet Disorder	WT/WT
Pembroke Welsh Corgi Duchenne Muscular Dystrophy	WT/Y
Persistent Müllerian Duct Syndrome	WT/WT

Polyneuropathy Leonberger and Saint Bernard Type	WT/WT
Polyneuropathy Leonberger Type 2	WT/WT
Pompe Disease	WT/WT
Prekallikrein Deficiency	WT/WT
Primary Ciliary Dyskinesia	WT/WT
Primary Hyperoxaluria	WT/WT
Primary Lens Luxation	WT/WT
Primary Open Angle Glaucoma	WT/WT
Progressive Retinal Atrophy Basenji Type	WT/WT
Progressive Retinal Atrophy Bullmastiff/Mastiff Type	WT/WT
Progressive Retinal Atrophy Irish Setter Type	WT/WT
Progressive Retinal Atrophy Sloughi Type	WT/WT
Progressive Retinal Atrophy, Cone-Rod Dystrophy	WT/WT
Progressive Retinal Atrophy, Cone-Rod Dystrophy 1	WT/WT
Progressive Retinal Atrophy, Generalized	WT/WT
Progressive Retinal Atrophy, Golden Retriever 1	WT/WT
Progressive Retinal Atrophy, Golden Retriever 2	WT/WT
Progressive Retinal Atrophy, PRA1 Papillon Type	WT/WT
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	WT/WT
Progressive Retinal Atrophy, Rod-Cone Dysplasia 3	WT/WT
Pyruvate Dehydrogenase Deficiency	WT/WT
Pyruvate Kinase Deficiency Basenji Type	WT/WT
Pyruvate Kinase Deficiency Beagle Type	WT/WT
Pyruvate Kinase Deficiency Labrador Retriever Type	WT/WT

Pyruvate Kinase Deficiency Pug Type	WT/WT
Pyruvate Kinase Deficiency Terrier Type	WT/WT
Renal Cystadenocarcinoma and Nodular Dermatofibrosis	WT/WT
Severe Combined Immunodeficiency Disease Terrier Type	WT/WT
Severe Combined Immunodeficiency Disease Wetterhoun Type	WT/WT
Severe Combined Immunodeficiency Disease, X-Linked Basset Hound Type	WT/Y
Severe Combined Immunodeficiency Disease, X-Linked Corgi Type	WT/Y
Shar-Pei Autoinflammatory Disease	WT/WT
Skeletal Dysplasia 2	WT/WT
Spinal Dysraphism	WT/WT
Spinocerebellar Ataxia	WT/WT
Startle Disease	WT/WT
Thrombopathia American Eskimo Dog Type	WT/WT
Thrombopathia Basset Hound Type	WT/WT
Thrombopathia Newfoundland Type	WT/WT
Trapped Neutrophil Syndrome	WT/WT
Von Willebrand Disease I	WT/WT
Von Willebrand Disease II	WT/WT
Von Willebrand Disease III Kooikerhondje Type	WT/WT
Von Willebrand Disease III Scottish Terrier Type	WT/WT
Von Willebrand Disease III Shetland Sheepdog Type	WT/WT

Helen Smith

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Helen F Smith, PhD

Associate Laboratory Director

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 to minimize the risk of producing false results. If you think these results are in error, please contact the laboratory for further evaluation.