

## Demographic Information

Call Name Hazel DOB Feb 2020 Registration Number Registered Name Poodle **Breed** Tattoo F Sex Microchip Owner Jill Warner Laboratory # AN-20-002076 Report Date May 21, 2020

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 this genetic disease. Your dog may not be clinically affected by this mutation because two copies of the mutation are usually required 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 this genetic disease. Based on the mode of genetic inheritance for this particular disease, inheriting one mutant copy of the gene may result in the disease. Dogs with one copy of the mutation may have a milder phenotype as compared to dogs with two copies of this mutation.

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 this genetic disease. Based on the mode of genetic inheritance for this particular disease, inheriting 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 does not mean that your dog is a carrier or at-risk for this disease. There are a variety of reasons why a specific test may not provide a reportable result. Unique variations in the genetic code of some individuals may exist and cause certain regions of the genome to not perform properly with a specific test. In addition, suboptimal sampling of the dog's cheek cells could also result in poor sample performance due to inadequate cell counts, bacterial and fungal growth, or the presence of other test inhibitors. An acceptable level of tests with no results has been determined by Paw Print Genetics. Dogs with at least 90% of the test results are determined to be acceptable and reportable. If your dog has an unacceptable level of tests with no results, you will be contacted for a new sample to repeat the testing.

Please review our <u>testing terms and disclaimers</u> regarding your results.

		WT: [wild type (normal)] M: [mutant] Y: [Y chromosome (male
Breed Profile		
Disease Name	Genotype	Interpretation
<u>Degenerative Myelopathy</u>	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant) Degenerative Myelopathy (Common Variant)	0 0	
<u>Ehlers-Danios Syndrome</u>	WT/WT	Normal (Clear)
Ehlers-Danlos Syndrome (Variant 1) Ehlers-Danlos Syndrome (Variant 2)	0 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)
<u>Osteochondrodysplasia</u>	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prod	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 (ma
Coat Colors & Traits		
Trait Name	Genotype	Interpretation
<u>A Locus</u> Agouti	a <sup>t</sup> /a <sup>t</sup>	Tricolor, black and tan
<u>A<sup>S</sup> Locus</u> Gaddle Tan	N/A <sup>s</sup>	Saddle tan/creeping tan (non saddle tan carrier)
<u>B Locus</u> Brown	B/b	Black coat, nose and foot pads (carries brown)
B Locus (Brown) - b <sup>a</sup> B Locus (Brown) - b <sup>c</sup> B Locus (Brown) - b <sup>d</sup> B Locus (Brown) - b <sup>s</sup>	0 0 0 1	
Brachycephaly.	BR/BR	Likely medium to long muzzle
Chondrodysplasia CDPA	cd/cd	Likely typical leg length
Cu Locus Curly Hair	Cu <sup>C</sup> /Cu <sup>C</sup>	Curly coat
D Locus Dilute	D/D	Non dilute
D Locus (Dilute) - d <sup>1</sup> D Locus (Dilute) - d <sup>2</sup>	0 0	
ELocus (ellow/Red	e/e	Yellow/red
<sup>g</sup> <u>Locus</u> Grizzle, Afghan Hound Type	N/N	No grizzle
<u><sup>h</sup> Locus</u> Bable, Cocker Spaniel Type	N/N	No sable
E <sup>m</sup> Locus Melanistic Mask	N/N	No melanistic mask
HLocus Harlequin, Great Dane Type	h/h	No harlequin
dr Locus OXI3 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type	hr/hr	Coated
Locus ntensity.	I/i	Normal intensity (carrier)
C Locus mproper Coat/Furnishings	F/F	Furnishings
CLocus Dominant Black	K <sup>B</sup> /K <sup>B</sup>	No agouti expression allowed
. <u>Locus</u> .ong Hair/Fluffy	Lh/Lh	Longhaired
L Locus (Long Hair/Fluffy) - Lh¹ L Locus (Long Hair/Fluffy) - Lh²	2 0	
A Locus Merie	m/m	Non merle
<u>Polydactyly</u>	pd/pd	Normal (typical) toes (likely no hind dewclaws)
<u>B Locus</u> White Spotting, Parti, or Piebald	S/S	No white spotting, flash, parti, or piebald
SD Locus Shedding	SD/SD	High shedding
Sex Determination	X/X	Female
<mark>T Locus</mark> Natural Bobtail	t/t	Normal tail

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)
Alaskan Husky Encephalopathy	WT/WT	Normal (Clear)
Alaskan Malamute Polyneuropathy	WT/WT	Normal (Clear)
<u>Amelogenesis Imperfecta</u>	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)
<u>Catalase Deficiency</u>	WT/WT	Normal (Clear)
Centronuclear Myopathy	WT/WT	Normal (Clear)
Cerebellar Ataxia Finnish Hound Type	WT/WT	Normal (Clear)
Cerebellar Cortical Degeneration	WT/WT	Normal (Clear)
<u>Cerebellar Degeneration</u>	WT/WT	Normal (Clear)
<u>Chondrodysplasia</u> Karelian Bear <u>Dog</u> and <u>Norwegian Elkhound Type</u>	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)
<u>Craniomandibular Osteopathy</u>	WT/WT	Normal (Clear)
Cyclic Neutropenia	WT/WT	Normal (Clear)
<u>Cystinuria</u> <u>Australian Cattle Dog Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria</u> <u>Labrador Retriever Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria</u> <u>Miniature Pinscher Type</u>	WT/WT	Normal (Clear)
Cystinuria	WT/WT	Normal (Clear)

Newfoundland Type		
Cystinuria Type 3 Bulldog Type Risk Factor, Variant 3	WT/WT	Normal (Clear)
Cystinuria Type 3 Bulldog Type Risk Factor, Variants 1 and 2	WT/WT	Normal (Clear)
Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 1) Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 2)	0	
Dandy-Walker-Like Malformation	WT/WT	Normal (Clear)
<u>Degenerative Myelopathy</u>	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant) Degenerative Myelopathy (Common Variant)	0	
Degenerative Myelopathy Early-Onset Risk Modifier Pembroke Welsh Corgi Type	WT/WT	Normal (Clear)
<u>Dental Hypomineralization</u>	WT/WT	Normal (Clear)
<u>Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy.</u> <u>Doberman Pinscher Type Risk Factor, Variant 1</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy.</u> <u>Doberman Pinscher Type Risk Factor, Variant 2</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy</u> <u>Schnauzer Type</u>	WT/WT	Normal (Clear)
<u>Dry Eye Curly Coat Syndrome</u>	WT/WT	Normal (Clear)
<u>Dystrophic Epidermolysis Bullosa</u>	WT/WT	Normal (Clear)
Early Retinal Degeneration	WT/WT	Normal (Clear)
Ectodermal Dysplasia Chesapeake Bay Retriever Type	WT/WT	Normal (Clear)
Ectodermal Dysplasia, X-Linked Dachshund Type	WT/WT	X-Linked Female Normal
Ectodermal Dysplasia, X-Linked Shepherd Type	WT/WT	X-Linked Female Normal
Ehlers-Danlos Syndrome	WT/WT	Normal (Clear)
Ehlers-Danlos Syndrome (Variant 1) Ehlers-Danlos Syndrome (Variant 2)	0 0	
Elliptocytosis	WT/WT	Normal (Clear)
<u>Epidermolytic Hyperkeratosis</u>	WT/WT	Normal (Clear)
Episodic Falling Syndrome	WT/WT	Normal (Clear)
Exercise-Induced Collapse	WT/WT	Normal (Clear)
Factor XI Deficiency	WT/WT	Normal (Clear)
Familial Nephropathy Cocker Spaniel Type	WT/WT	Normal (Clear)
Familial Nephropathy		
English Springer Spaniel Type	WT/WT	Normal (Clear)
	WT/WT	Normal (Clear)
English Springer Spaniel Type		
English Springer Spaniel Type  Fucosidosis	WT/WT	Normal (Clear)
English Springer Spaniel Type  Fucosidosis  Gallbladder Mucoceles  Glanzmann's Thrombasthenia	WT/WT	Normal (Clear)
English Springer Spaniel Type  Fucosidosis  Gallbladder Mucoceles  Glanzmann's Thrombasthenia Great Pyrenees Type  Glanzmann's Thrombasthenia	WT/WT WT/WT	Normal (Clear)  Normal (Clear)
English Springer Spaniel Type  Fucosidosis  Gallbladder Mucoceles  Glanzmann's Thrombasthenia Great Pyrenees Type  Glanzmann's Thrombasthenia Otterhound Type  Glaucoma	WT/WT WT/WT WT/WT	Normal (Clear)  Normal (Clear)  Normal (Clear)
English Springer Spaniel Type  Fucosidosis  Gallbladder Mucoceles  Glanzmann's Thrombasthenia Great Pyrenees Type  Glanzmann's Thrombasthenia Otterhound Type  Glaucoma Border Collie Type  Globoid Cell Leukodystrophy.	WT/WT WT/WT WT/WT WT/WT	Normal (Clear)  Normal (Clear)  Normal (Clear)  Normal (Clear)
English Springer Spaniel Type  Fucosidosis  Gallbladder Mucoceles  Glanzmann's Thrombasthenia Great Pyrenees Type  Glanzmann's Thrombasthenia Otterhound Type  Glaucoma Border Collie Type  Globoid Cell Leukodystrophy. Irish Setter Type  Globoid Cell Leukodystrophy.	WT/WT WT/WT WT/WT WT/WT WT/WT	Normal (Clear)  Normal (Clear)  Normal (Clear)  Normal (Clear)  Normal (Clear)

Glycogen Storage Disease VII Wachtelhund Type	WT/WT	Normal (Clear)
Glycogen Storage Disease VII, PFK Deficiency	WT/WT	Normal (Clear)
GM1 Gangliosidosis Alaskan Husky Type	WT/WT	Normal (Clear)
GM1 Gangliosidosis Portuguese Water Dog Type	WT/WT	Normal (Clear)
GM1 Gangliosidosis Shiba Inu Type	WT/WT	Normal (Clear)
GM2 Gangliosidosis Japanese Chin Type	WT/WT	Normal (Clear)
GM2 Gangliosidosis Poodle Type	WT/WT	Normal (Clear)
Greyhound Polyneuropathy.	WT/WT	Normal (Clear)
Hemophilia A Boxer Type	WT/WT	X-Linked Female Normal
Hemophilia A German Shepherd Dog, Type 1	WT/WT	X-Linked Female Normal
Hemophilia A German Shepherd Dog, Type 2	WT/WT	X-Linked Female Normal
Hemophilia B Cairn Terrier Type	WT/WT	X-Linked Female Normal
Hemophilia B Lhasa Apso Type	WT/WT	X-Linked Female Normal
Hemophilia B Rhodesian Ridgeback Type	WT/WT	X-Linked Female Normal
Hereditary Cataracts	WT/WT	Normal (Clear)
Hereditary Cataracts Australian Shepherd Type	WT/WT	Normal (Clear)
<u>Hereditary Footpad Hyperkeratosis</u> <u>Irish Terrier and Kromfohrländer Type</u>	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis Greyhound Type	WT/WT	Normal (Clear)
Hereditary Nephritis Samoyed Type	WT/WT	X-Linked Female Normal
<u>Hyperuricosuria</u>	WT/WT	Normal (Clear)
Hypomyelination Weimaraner Type	WT/WT	Normal (Clear)
Ichthyosis American Bulldog Type	WT/WT	Normal (Clear)
Ichthyosis Golden Retriever Type	WT/WT	Normal (Clear)
Ichthyosis Great Dane Type	WT/WT	Normal (Clear)
Inherited Myopathy of Great Danes	WT/WT	Normal (Clear)
Intervertebral Disc Disease Risk Factor and Chondrodystrophy  CDDY with IVDD	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption Beagle Type	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption Border Collie Type	WT/WT	Normal (Clear)
Juvenile Laryngeal Paralysis and Polyneuropathy.	WT/WT	Normal (Clear)
Juvenile Myoclonic Epilepsy, Rhodesian Ridgeback Type	WT/WT	Normal (Clear)
L-2-Hydroxyglutaric Aciduria Staffordshire Bull Terrier Type	WT/WT	Normal (Clear)
Lagotto Storage Disorder	WT/WT	Normal (Clear)
Late Onset Ataxia	WT/WT	Normal (Clear)
Lethal Acrodermatitis	WT/WT	Normal (Clear)
Leukocyte Adhesion Deficiency, Type I	WT/WT	Normal (Clear)

	Leukocyte Adhesion Deficiency, Type III	WT/WT	Normal (Clear)
Manufact Control Desirations Manufact Control Londoncomosis 1 Manufact Control Londoncomosis 1 Manufact Control Londoncomosis 1 Manufact Control Londoncomosis 1	Ligneous Membranitis	WT/WT	Normal (Clear)
	<u>Lundehund Syndrome</u>	WT/WT	Normal (Clear)
Monemotivacecharidational Monemotivacecharidational Mile Abbancational Monemotivacecharidational Mile Abbancational Mile Abbanc		WT/WT	Normal (Clear)
Marcachaechaefobes III	May-Hegglin Anomaly	WT/WT	Normal (Clear)
Pachbased Types   Normal Close   New York   Normal Close   Norma	<u>Mucopolysaccharidosis I</u>	WT/WT	Normal (Clear)
Name		WT/WT	Normal (Clear)
Sizeshitativa		WT/WT	Normal (Clear)
Multificial Retinonally.1   WT/WT   Normal (Clear)		WT/WT	Normal (Clear)
Multilical Rationality 2	Multidrug Resistance 1	WT/WT	Normal (Clear)
Militiocal Ristinocatiw.3         WT/WT         Normal (Clear)           Mascaler Destrootly         WT/WT         X-Linked Fornale Normal           Mascaler Destrootly         WT/WT         Normal (Clear)           Mostania Destrootly         WT/WT         Normal (Clear)           Mostania Destrootly         WT/WT         Normal (Clear)           Mostania Condentia         WT/WT         Normal (Clear)           Mostania Condentia         WT/WT         X-Linked Fornale Normal           Mostania Condentia         WT/WT         X-Linked Fornale Normal           Mystania Congentia         WT/WT         X-Linked Fornale Normal           Schnauzel Ivas         WT/WT         X-Linked Fornale Normal           Mystania Congentia         WT/WT         Normal (Clear)           Mostania Constitution (Ivas         WT/WT         Normal (Clear)           Mascalency         WT/WT         Normal (Clear)           Date of Retirement (Ivas         WT/WT         Normal (Clear)           Nancealency         WT/WT         Normal (Clear)           Date of Retirement (Ivas         WT/WT         Normal (Clear)           Nanceal Constitution (Ivas         WT/WT         Normal (Clear)           Nanceal Constitution (Ivas         WT/WT         Normal (Clear)	Multifocal Retinopathy 1	WT/WT	Normal (Clear)
Manaclated Printed Printed Printed Perinted Pormal Coldent Intelligency Printed Perinted Pormal Coldent Perinted Pormal Coldent Perinted Pormal Coldent Perinted Pormal Coldent Perinted Perinted Perinted Pormal Coldent Perinted Perinte	Multifocal Retinopathy 2	WT/WT	Normal (Clear)
Gedente Retriever Type         Municipin Lyskes Syndroms         WT/WT         Normal (Clear)           Municipin Lyskes Syndroms         WT/WT         Normal (Clear)           Mysteland Decidinated Willioned Lyske         WT/WT         Normal (Clear)           Mysteland Excendinate Canonina         WT/WT         Normal (Clear)           Mysteland Excendinate Canonina         WT/WT         X-Linked Fernale Normal           Mysteland Excendinate Allogoratival         WT/WT         X-Linked Fernale Normal           Mysteland Mysteland Mysteland Lyske         WT/WT         Normal (Clear)           Maccoleany         WT/WT         Normal (Clear)           Maccoleany         WT/WT         Normal (Clear)           Maccoleany         WT/WT         Normal (Clear)           Debermand Princher Lyse         WT/WT         Normal (Clear)           Debermand Princher Lyse         WT/WT         Normal (Clear)           Necrolland Excendentile Cortical Deponeration         WT/WT         Normal (Clear)           Necrolland Excendent	Multifocal Retinopathy 3	WT/WT	Normal (Clear)
Montalian Deficiency Withingtest and Lorophined Whithoest Types Abstralian Cattle Doo Types Abstralian Cattle Doo Types Mythopical Connections Abstralian Cattle Doo Types Mythoest Connections Abstralian Cattle Doo Types Mythoest Connections Abstralian Cattle Doo Types Mythouse Mynosthyla Mythoest Mynosthyla Mythoesthyla Myt		WT/WT	X-Linked Female Normal
Without and Large halland Willioned Lyune         WT.WT         Normal (Clear)           Mysternia Congenita         WT.WT         Normal (Clear)           Mysternia Congenita         WT.WT         X-Linked Female Normal           Naccolarexy         WT.WT         Normal (Clear)           Naccolarexy         WT.WT<	Musladin-Lueke Syndrome	WT/WT	Normal (Clear)
Australian Cattle Dea Types         WT/WT         Normal (Clear)           Myctionia Coopenia         WT/WT         Normal (Clear)           Myctibulate Myograthy 1         WT/WT         X-Linked Female Normal           Myctibulate Myograthy 2         WT/WT         X-Linked Female Normal           Naccoleracy Descharmed Types         WT/WT         Normal (Clear)           Naccoleracy Descharmed Pinischer Lypes         WT/WT         Normal (Clear)           Naccoleracy Debt Properties         WT/WT         Normal (Clear)		WT/WT	Normal (Clear)
SchnauzerType         Wr/WT         X-Linked Female Normal           Mystubular Myogathy I Rotterslief Type         WT/WT         X-Linked Female Normal           Narcolensy Dabehahund I Type         WT/WT         Normal (Clear)           Narcolensy Dabehahund I Type         WT/WT         Normal (Clear)           Narcolensy Dabeman Pinischer Type         WT/WT         Normal (Clear)           Nacolensy Dabeman Pinischer Type         WT/WT         Normal (Clear)           Nacolensia Consol Liver Underschooles         WT/WT         Normal (Clear)           Nacolensia Consol Liver Underschooles         WT/WT         Normal (Clear)           Nacolensia Consol Liver Underschooles         WT/WT         Normal (Clear)           Nacolensia Consol Liver U		WT/WT	Normal (Clear)
Nuccionary Content Privace  Narcolonary Content Privace  Normal (Clear)		WT/WT	Normal (Clear)
Battoslasy, Dackshund Tyre         WT/WT         Normal (Clear)           Narcolensy, Doberman Pinscher Type         WT/WT         Normal (Clear)           Narcolensy, Doberman Pinscher Type         WT/WT         Normal (Clear)           Narcolensy, Labridour Fetriever Type         WT/WT         Normal (Clear)           Naconatal Cereballora Cortical Degeneration         WT/WT         Normal (Clear)           Naconatal Encephalorasthy with Seizures         WT/WT         Normal (Clear)           Nacuraconal Dystrophy         Rotter Tyre         Normal (Clear)           Nacuraconal Dystrophy         Spanish Water Dog Tyre         Normal (Clear)           Nacuraconal Ceroid Licofuscinosis         WT/WT         Normal (Clear) <tr< td=""><td>Myotubular Myopathy 1</td><td>WT/WT</td><td>X-Linked Female Normal</td></tr<>	Myotubular Myopathy 1	WT/WT	X-Linked Female Normal
Dachsbund Type         WT/WT         Normal (Clear)           Narcolepsy. Coberman Pinscher Type         WT/WT         Normal (Clear)           Narcolepsy. Labrador Retriever Type         WT/WT         Normal (Clear)           Nanotal Cerebelliar Cortical Degeneration         WT/WT         Normal (Clear)           Neuroaxonal Dystrophy         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 1         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 10         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 12         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 2         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 3         WT/WT         Normal (Clear)           Neuronal Ceroid Linofuscinosis 5         WT/WT         Normal (Clear) <td></td> <td>WT/WT</td> <td>X-Linked Female Normal</td>		WT/WT	X-Linked Female Normal
Narcolery   Narc		WT/WT	Normal (Clear)
Labrador Retriever Type         Meconatal Cerebellar Cortical Degeneration         WT/WT         Normal (Clear)           Neonatal Encephalopathy with Seizures         WT/WT         Normal (Clear)           Neuroaxonal Dystrophy Bottweller Type         WT/WT         Normal (Clear)           Neuroaxonal Dystrophy Spanish Water Deg Type         WT/WT         Normal (Clear)           Neuroaxonal Dystrophy Spanish Water Deg Type         WT/WT         Normal (Clear)           Neuroaxola Ceroid Lipofuscinosis Tibetan Terrier Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 1         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 10         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 12         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 2         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 4A         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Doo/Border Collie Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 6 Neuronal Ceroid Lipofuscinosis 6 Neuronal Ceroid Lipofuscinosis 6 WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 6 Neuronal Ceroid Lipofuscinosis 6 Neuronal Ceroid Lipofuscinosis 7 Neuronal Ceroid Lipofuscinosis 8         WT/WT         Normal (Clear)		WT/WT	Normal (Clear)
Neuroal Encephalopathy with Seizures  Neuroaxonal Dystrophy, Realish Water Dog. Type  Neuroaxonal Dystrophy, Saanish Water Dog. Type  Neuroal Ceroid Lipofuscinosis  Neuroal Ceroid Lipofuscinosis 12  Neuroal Ceroid Lipofuscinosis 24  Neuroal Ceroid Lipofuscinosis 4A  Neuroal Ceroid Lipofuscinosis 4A  Neuroal Ceroid Lipofuscinosis 4A  Neuroal Ceroid Lipofuscinosis 5  Neuroal Ceroid Lipofuscinosis 5  Neuroal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuroal Ceroid Lipofuscinosis 10  WT/WT  Normal (Clear)  Neuroal Ceroid Lipofuscinosis 12  WT/WT  Normal (Clear)  Neuroal Ceroid Lipofuscinosis 4A  WT/WT  Normal Ceroid Lipofuscinosis 5  Neuroal Ceroid Lipofuscinosis 5  WT/WT  Normal Ceroid Lipofuscinosis 5  Neuroal Ceroid Lipofuscinosis 5  WT/WT  Normal Ceroid Lipofuscinosis 5  Neuroal Ceroid Lipofuscinosis 5  WT/WT  Normal Ceroid Lipofuscinosis 6  WT/WT  Normal Ceroid Lipofuscinosis 6  WT/WT  Normal Ceroid Lipofuscinosis 7  Neuroal Ceroid Lipofuscinosis 8  WT/WT  Normal (Clear)	Narcolepsy Labrador Retriever Type	WT/WT	Normal (Clear)
Neuroaxonal Dystrophy, Rottweller Type  Neuroaxonal Dystrophy, Spanish Water Dog Type  Neuroaxonal Dystrophy, Spanish Water Dog Type  Neuronal Ceroid Lipofuscinosis  Neuronal Ceroid Lipofuscinosis 1  Neuronal Ceroid Lipofuscinosis 2  Neuronal Ceroid Lipofuscinosis 2  Neuronal Ceroid Lipofuscinosis 3  Neuronal Ceroid Lipofuscinosis 4  Neuronal Ceroid Lipofuscinosis 4  Neuronal Ceroid Lipofuscinosis 5  Neuronal Ceroid Lipofuscinosis 6  Neuronal Ceroid Lipofuscinosis 7  Neuronal Ceroid Lipofuscinosis 8  Neuronal Ceroid Lipofuscinosis 7  Neuronal Ceroid Lipofuscinosis 8  Neuronal Ceroid Lipofuscinosis 8  Neuronal Ceroid Lipofuscinosis 8  Neuronal Ceroid Lipofuscinosis 8  Normal (Clear)	Neonatal Cerebellar Cortical Degeneration	WT/WT	Normal (Clear)
Rottweller Type     WT/WT     Normal (Clear)       Neuroaxonal Dystrophy Spanish Water Dog Type     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis Tibetan Terrier Type     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 1     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 10     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 12     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 2     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 3     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 4A     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 5 Colden Retriever Type     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 6     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 7     WT/WT     Normal (Clear)       Neuronal Ceroid Lipofuscinosis 8     WT/WT     Normal (Clear)	Neonatal Encephalopathy with Seizures	WT/WT	Normal (Clear)
Spanish Water Dog Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 1 Deuronal Ceroid Lipofuscinosis 1 Cane Corso Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 1 Cane Corso Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 10 Neuronal Ceroid Lipofuscinosis 12 WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 2 WT/WT         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 4A WT/WT         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 6 Colden Retriever Type         WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 7 Neuronal Ceroid Lipofuscinosis 7 WT/WT         Normal (Clear)           Neuronal Ceroid Lipofuscinosis 8 WT/WT         Normal (Clear)		WT/WT	Normal (Clear)
Tibetan Terrier Type  Neuronal Ceroid Lipofuscinosis 1  Neuronal Ceroid Lipofuscinosis 1  Neuronal Ceroid Lipofuscinosis 1  Neuronal Ceroid Lipofuscinosis 10  Neuronal Ceroid Lipofuscinosis 12  Neuronal Ceroid Lipofuscinosis 12  Neuronal Ceroid Lipofuscinosis 2  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 2  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 4A  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 5  Australian Cattle Dog/Border Collie Type  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  Normal (Clear)		WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 1 Neuronal Ceroid Lipofuscinosis 10 Neuronal Ceroid Lipofuscinosis 12 Neuronal Ceroid Lipofuscinosis 2 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 2 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 4A WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type Neuronal Ceroid Lipofuscinosis 6 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type Neuronal Ceroid Lipofuscinosis 6 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 6 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 7 WT/WT Normal (Clear) Neuronal Ceroid Lipofuscinosis 8 WT/WT Normal (Clear)		WT/WT	Normal (Clear)
Cane Corso Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 12       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 2       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 4A       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 6       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 7       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 8       WT/WT       Normal (Clear)	Neuronal Ceroid Lipofuscinosis 1	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 12  Neuronal Ceroid Lipofuscinosis 2  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 4A  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type  WT/WT  Normal (Clear)  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 8  WT/WT  Normal (Clear)		WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 2       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 4A       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 6       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 7       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 8       WT/WT       Normal (Clear)	Neuronal Ceroid Lipofuscinosis 10	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 4A       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 6 Neuronal Ceroid Lipofuscinosis 7       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 8       WT/WT       Normal (Clear)	Neuronal Ceroid Lipofuscinosis 12	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 5       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 5       WT/WT       Normal (Clear)         Sediden Retriever Type       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 6       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 7       WT/WT       Normal (Clear)         Neuronal Ceroid Lipofuscinosis 8       WT/WT       Normal (Clear)	Neuronal Ceroid Lipofuscinosis 2	WT/WT	Normal (Clear)
Australian Cattle Dog/Border Collie Type  Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  Wt/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 8  WT/WT  Normal (Clear)	Neuronal Ceroid Lipofuscinosis 4A	WT/WT	Normal (Clear)
Golden Retriever Type  Neuronal Ceroid Lipofuscinosis 6  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 7  Wt/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 8  WT/WT  Normal (Clear)		WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 7  WT/WT  Normal (Clear)  Neuronal Ceroid Lipofuscinosis 8  WT/WT  Normal (Clear)		WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 8 WT/WT Normal (Clear)	Neuronal Ceroid Lipofuscinosis 6	WT/WT	Normal (Clear)
	Neuronal Ceroid Lipofuscinosis 7	WT/WT	Normal (Clear)
7.1	Neuronal Ceroid Lipofuscinosis 8 Australian Shepherd Type	WT/WT	Normal (Clear)

Neuronal Ceroid Lipofuscinosis 8 Setter Type	WT/WT	Normal (Clear)
Oculocutaneous Albinism	WT/WT	Normal (Clear)
Oculocutaneous Albinism Small Breed Type	WT/WT	Normal (Clear)
Osteochondrodysplasia	WT/WT	Normal (Clear)
Osteogenesis Imperfecta Beagle Type	WT/WT	Normal (Clear)
Osteogenesis Imperfecta Dachshund Type	No Result	No Result
Osteogenesis Imperfecta Golden Retriever Type	WT/WT	Normal (Clear)
P2RY12 Receptor Platelet Disorder	WT/WT	Normal (Clear)
Pembroke Welsh Corgi Duchenne Muscular Dystrophy	WT/WT	X-Linked Female Normal
Persistent Müllerian Duct Syndrome	WT/WT	Normal (Clear)
Polyneuropathy Leonberger and Saint Bernard Type	WT/WT	Normal (Clear)
Polyneuropathy. Leonberger Type 2	WT/WT	Normal (Clear)
Polyneuropathy with Ocular Abnormalities and Neuronal Vacuolation	WT/WT	Normal (Clear)
Pompe Disease	WT/WT	Normal (Clear)
Prekallikrein Deficiency.	WT/WT	Normal (Clear)
Primary Ciliary Dyskinesia	WT/WT	Normal (Clear)
Primary Hyperoxaluria	WT/WT	Normal (Clear)
Primary Lens Luxation	WT/WT	Normal (Clear)
Primary Open Angle Glaucoma	WT/WT	Normal (Clear)
Primary Open Angle Glaucoma Basset Fauve de Bretagne Type	WT/WT	Normal (Clear)
Primary Open Angle Glaucoma Basset Hound Type	WT/WT	Normal (Clear)
Primary Open Angle Glaucoma Norwegian Elkhound Type	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma and Primary Lens Luxation</u> Shar Pei Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy. Basenji Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy Bullmastiff / Mastiff Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy Giant Schnauzer Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy Irish Setter Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy Shetland Sheepdog Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy Sloughi Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 1	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 2	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4 crd4/cord1	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Generalized	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Golden Retriever 1	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Golden Retriever 2	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, PRA1 Papillon Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, PRA3 Tibetan Terrier and Spaniel Type	WT/WT	Normal (Clear)

Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prod	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Rod-Cone Dysplasia 3	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, X-Linked 1	WT/WT	X-Linked Female Normal
Protein Losing Nephropathy	WT/WT, WT/WT	Normal (Clear) - No Increased Risk
Protein Losing Nephropathy (Variant 1) Protein Losing Nephropathy (Variant 2)	0	
Pyruvate Dehydrogenase Deficiency	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency</u> <u>Basenji Type</u>	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Beagle Type	WT/WT	Normal (Clear)
Pyruvate Kinase Deficiency Labrador Retriever Type	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency</u> <u>Pug Type</u>	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency.</u> <u>Terrier Type</u>	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/WT	X-Linked Female Normal
Severe Combined Immunodeficiency Disease, X-Linked Corgi Type	WT/WT	X-Linked Female Normal
Shar-Pei Autoinflammatory Disease	WT/WT	Normal (Clear)
Skeletal Dysplasia 2	WT/WT	Normal (Clear)
<u>Spinal Dysraphism</u>	WT/WT	Normal (Clear)
<u>Spinocerebellar Ataxia</u>	WT/WT	Normal (Clear)
<u>Spondylocostal Dysostosis</u>	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)
<u>Trapped Neutrophil Syndrome</u>	WT/WT	Normal (Clear)
<u>Urolithiasis</u> Native American Indian Dog <u>Type</u>	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	No Result	No Result
Von Willebrand Disease III Scottish Terrier Type	WT/WT	Normal (Clear)
Von Willebrand Disease III	WT/WT	Normal (Clear)

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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<sup>9</sup>. 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.