



Demographic Information

Call Name	Summer	DOB	June 24, 2022
Registered Name	FULLERTON SUMMER SUNSET	Registration Number	[REDACTED]
Breed	Toy Australian Shepherd	Tattoo	[REDACTED]
Sex	F	Microchip	[REDACTED]
Owner		Laboratory #	[REDACTED]
		Report Date	October 7, 2022

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 [testing terms and disclaimers](#) regarding your results.

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

Breed Profile

Disease Name	Genotype	Interpretation
<u>Coagulation Factor VII Deficiency</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Collie Eye Anomaly</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Cone Degeneration</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Cranio-mandibular Osteopathy</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Degenerative Myelopathy</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	
<u>Exercise-Induced Collapse</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Hereditary Cataracts</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Australian Shepherd Type</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Hyperuricosuria</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Intervertebral Disc Disease Risk Factor and Chondrodystrophy, CDDY with IVDD</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Multidrug Resistance 1</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Multifocal Retinopathy 1</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 6</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 8</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Australian Shepherd Type</u>	WT/WT	<input type="checkbox"/> Normal (Clear)
<u>Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration</u> <u>prcd</u>	WT/WT	<input type="checkbox"/> Normal (Clear)

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

Coat Colors & Traits

Trait Name	Genotype	Interpretation
<u>A Locus</u> <u>Agouti</u>	a ^t /a ^t	Tricolor, black and tan
<u>A^s Locus</u> <u>Saddle Tan</u>	N/N	No saddle tan/creeping tan
<u>B Locus</u> <u>Brown</u>	b/b	Brown coat, nose and foot pads

B Locus (Brown) - b ^a	0	
B Locus (Brown) - b ^c	2	
B Locus (Brown) - b ^d	2	
B Locus (Brown) - b ^e	0	
<u>Brachycephaly</u>	BR/BR	Likely medium to long muzzle
<u>Chondrodysplasia</u> <u>CDPA</u>	cd/cd	Likely typical leg length
<u>Co Locus</u> <u>Cocoa, French Bulldog Type</u>	Co/Co	Black coat, nose and foot pads (does not carry cocoa)
<u>Cu Locus</u> <u>Curly Hair</u>	Cu/Cu	Straight coat
<u>D Locus</u> <u>Dilute</u>	D/D	Non dilute
D Locus (Dilute) - d ¹	0	
D Locus (Dilute) - d ²	0	
<u>E Locus</u> <u>Yellow/Red</u>	E/e	Black (carries yellow/red)
<u>E^g Locus</u> <u>Grizzle, Afghan Hound Type</u>	N/N	No grizzle
<u>E^h Locus</u> <u>Sable, Cocker Spaniel Type</u>	N/N	No sable
<u>E^m Locus</u> <u>Melanistic Mask</u>	N/N	No melanistic mask
<u>H Locus</u> <u>Harlequin, Great Dane Type</u>	h/h	No harlequin
<u>Hr Locus</u> <u>FOX13 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type</u>	hr/hr	Coated
<u>I Locus</u> <u>Intensity</u>	I/I	Normal intensity
<u>IC Locus</u> <u>Improper Coat/Furnishings</u>	IC/IC	No furnishings, improper coat
<u>K Locus</u> <u>Dominant Black</u>	k ^y /k ^y	Agouti expression allowed
<u>L Locus</u> <u>Long Hair/Fluffy</u> <u>- Lh¹, Lh², Lh⁴</u>	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	

<u>M Locus</u> <u>Merle</u>	m/m	Non merle
<u>Polydactyly</u>	PD/pd	Likely polydactylous with hind dewclaws (typical toes carrier)
<u>S Locus</u> <u>White Spotting, Parti, or Piebald</u>	S/S	No white spotting, flash, parti, or piebald
<u>SD Locus</u> <u>Shedding</u>	SD/SD	High shedding
<u>Sex Determination - ZFX/Y</u>	X/X	Female
<u>T Locus</u> <u>Natural Bobtail</u>	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
<u>Acral Mutilation Syndrome</u>	WT/WT	Normal (Clear)
<u>Acute Respiratory Distress Syndrome</u>	WT/WT	Normal (Clear)
<u>Adult Paroxysmal Dyskinesia</u>	WT/WT	Normal (Clear)
<u>Alaskan Husky Encephalopathy</u>	WT/WT	Normal (Clear)
<u>Alaskan Malamute Polyneuropathy</u>	WT/WT	Normal (Clear)
<u>Amelogenesis Imperfecta</u>	WT/WT	Normal (Clear)
<u>Ataxia</u> <u>Norwegian Buhund Type</u>	WT/WT	Normal (Clear)
<u>Benign Familial Juvenile Epilepsy</u>	WT/WT	Normal (Clear)
<u>Canine Multiple System Degeneration</u> <u>Chinese Crested Type</u>	WT/WT	Normal (Clear)
<u>Canine Multiple System Degeneration</u> <u>Kerry Blue Terrier Type</u>	WT/WT	Normal (Clear)
<u>Canine Scott Syndrome</u>	WT/WT	Normal (Clear)
<u>Catalase Deficiency</u>	WT/WT	Normal (Clear)
<u>Centronuclear Myopathy</u>	No Result	No Result

<u>Cerebellar Ataxia Finnish Hound Type</u>	WT/WT	Normal (Clear)
<u>Cerebellar Ataxia 1 Belgian Shepherd Type</u>	WT/WT	Normal (Clear)
<u>Cerebellar Cortical Degeneration</u>	WT/WT	Normal (Clear)
<u>Cerebellar Degeneration</u>	WT/WT	Normal (Clear)
<u>Chondrodysplasia Karelian Bear Dog and Norwegian Elkhound Type</u>	WT/WT	Normal (Clear)
<u>Cleft Palate and Syndactyly Nova Scotia Duck Tolling Retriever Type</u>	WT/WT	Normal (Clear)
<u>Coagulation Factor VII Deficiency</u>	WT/WT	Normal (Clear)
<u>Collie Eye Anomaly</u>	WT/WT	Normal (Clear)
<u>Complement 3 Deficiency</u>	WT/WT	Normal (Clear)
<u>Cone Degeneration</u>	WT/WT	Normal (Clear)
<u>Cone Degeneration German Shepherd Dog Type</u>	WT/WT	Normal (Clear)
<u>Cone Degeneration German Shorthaired Pointer Type</u>	WT/WT	Normal (Clear)
<u>Cone Degeneration Labrador Retriever Type</u>	WT/WT	Normal (Clear)
<u>Congenital Hypothyroidism with Goiter Terrier Type</u>	WT/WT	Normal (Clear)
<u>Congenital Methemoglobinemia</u>	WT/WT	Normal (Clear)
<u>Congenital Myasthenic Syndrome Jack Russell Terrier Type</u>	WT/WT	Normal (Clear)
<u>Congenital Myasthenic Syndrome Labrador Retriever Type</u>	WT/WT	Normal (Clear)
<u>Congenital Myasthenic Syndrome Old Danish Pointer Type</u>	WT/WT	Normal (Clear)
<u>Congenital Stationary Night Blindness</u>	WT/WT	Normal (Clear)
<u>Craniomandibular Osteopathy</u>	WT/WT	Normal (Clear)
<u>Cyclic Neutropenia</u>	WT/WT	Normal (Clear)
<u>Cystinuria Australian Cattle Dog Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria Labrador Retriever Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria Miniature Pinscher Type</u>	WT/WT	Normal (Clear)

<u>Cystinuria Newfoundland Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria Type 3 Bulldog Type Risk Factor, Variant 3</u>	WT/WT	Normal (Clear)
<u>Cystinuria Type 3 Bulldog Type Risk Factor, Variants 1 and 2</u>	WT/WT	Normal (Clear)
Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 1)	0	
Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 2)	0	
<u>Dandy-Walker-Like Malformation</u>	WT/WT	Normal (Clear)
<u>Degenerative Myelopathy</u>	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	
<u>Degenerative Myelopathy Early-Onset Risk Modifier Pembroke Welsh Corgi Type</u>	No Result	No Result
<u>Dental Hypomineralization</u>	WT/WT	Normal (Clear)
<u>Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 1</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 2</u>	WT/WT	Normal (Clear)
<u>Dilated Cardiomyopathy, 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)
<u>Early Retinal Degeneration</u>	WT/WT	Normal (Clear)
<u>Ectodermal Dysplasia Chesapeake Bay Retriever Type</u>	WT/WT	Normal (Clear)
<u>Ectodermal Dysplasia, X-Linked Dachshund Type</u>	WT/WT	X-Linked Female Normal
<u>Ectodermal Dysplasia, X-Linked Shepherd Type</u>	WT/WT	X-Linked Female Normal
<u>Ehlers-Danlos Syndrome</u>	WT/WT	Normal (Clear)
Ehlers-Danlos Syndrome (Variant 1)	0	
Ehlers-Danlos Syndrome (Variant 2)	0	
<u>Elliptocytosis</u>	WT/WT	Normal (Clear)
<u>Epidermolytic Hyperkeratosis</u>	WT/WT	Normal (Clear)

<u>Episodic Falling Syndrome</u>	WT/WT	Normal (Clear)
<u>Exercise-Induced Collapse</u>	WT/WT	Normal (Clear)
<u>Factor XI Deficiency</u>	WT/WT	Normal (Clear)
<u>Familial Nephropathy Cocker Spaniel Type</u>	WT/WT	Normal (Clear)
<u>Familial Nephropathy English Springer Spaniel Type</u>	WT/WT	Normal (Clear)
<u>Fucosidosis</u>	WT/WT	Normal (Clear)
<u>Gallbladder Mucoceles</u>	WT/WT	Normal (Clear)
<u>Glanzmann's Thrombasthenia Great Pyrenees Type</u>	WT/WT	Normal (Clear)
<u>Glanzmann's Thrombasthenia Otterhound Type</u>	WT/WT	Normal (Clear)
<u>Glaucoma Border Collie Type</u>	WT/WT	Normal (Clear)
<u>Globoid Cell Leukodystrophy Irish Setter Type</u>	WT/WT	Normal (Clear)
<u>Globoid Cell Leukodystrophy Terrier Type</u>	WT/WT	Normal (Clear)
<u>Glycogen Storage Disease Ia</u>	WT/WT	Normal (Clear)
<u>Glycogen Storage Disease IIIa</u>	WT/WT	Normal (Clear)
<u>Glycogen Storage Disease VII Wachtelhund Type</u>	WT/WT	Normal (Clear)
<u>Glycogen Storage Disease VII, PFK Deficiency</u>	WT/WT	Normal (Clear)
<u>GM1 Gangliosidosis Alaskan Husky Type</u>	WT/WT	Normal (Clear)
<u>GM1 Gangliosidosis Portuguese Water Dog Type</u>	WT/WT	Normal (Clear)
<u>GM1 Gangliosidosis Shiba Inu Type</u>	WT/WT	Normal (Clear)
<u>GM2 Gangliosidosis Japanese Chin Type</u>	WT/WT	Normal (Clear)
<u>GM2 Gangliosidosis Poodle Type</u>	WT/WT	Normal (Clear)
<u>Greyhound Polyneuropathy</u>	WT/WT	Normal (Clear)
<u>Hemophilia A Boxer Type</u>	No Result	No Result
<u>Hemophilia A</u>	WT/WT	X-Linked Female Normal

German Shepherd Dog, Type 1

Hemophilia A WT/WT X-Linked Female Normal
German Shepherd Dog, Type 2

Hemophilia B WT/WT X-Linked Female Normal
Cairn Terrier Type

Hemophilia B WT/WT X-Linked Female Normal
Lhasa Apso Type

Hemophilia B WT/WT X-Linked Female Normal
Rhodesian Ridgeback Type

Hereditary Cataracts WT/WT Normal (Clear)

Hereditary Cataracts WT/WT Normal (Clear)
Australian Shepherd Type

Hereditary Footpad Hyperkeratosis WT/WT Normal (Clear)
Irish Terrier and Kromfohrlander Type

Hereditary Nasal Parakeratosis WT/WT Normal (Clear)

Hereditary Nasal Parakeratosis WT/WT Normal (Clear)
Greyhound Type

Hereditary Nephritis WT/WT X-Linked Female Normal
Samoyed Type

Hyperuricosuria WT/WT Normal (Clear)

Hypomyelination WT/WT Normal (Clear)
Weimaraner Type

Ichthyosis WT/WT Normal (Clear)
American Bulldog Type

Ichthyosis WT/WT Normal (Clear)
Golden Retriever Type 1

Ichthyosis WT/WT Normal (Clear)
Golden Retriever Type 2

Ichthyosis WT/WT Normal (Clear)
Great Dane Type

Inherited Myopathy of Great Danes WT/WT Normal (Clear)

Intervertebral Disc Disease Risk Factor and WT/WT Normal (Clear)
Chondrodystrophy
CDDY with IVDD

Intestinal Cobalamin Malabsorption WT/WT Normal (Clear)
Beagle Type

Intestinal Cobalamin Malabsorption WT/WT Normal (Clear)
Border Collie Type

Juvenile Laryngeal Paralysis and Polyneuropathy WT/WT Normal (Clear)

Juvenile Myoclonic Epilepsy WT/WT Normal (Clear)

Rhodesian Ridgeback Type

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)

Ligneous Membranitis

WT/WT

Normal (Clear)

Lundehund Syndrome

WT/WT

Normal (Clear)

Macular Corneal Dystrophy
Labrador Retriever Type

WT/WT

Normal (Clear)

May-Hegglin Anomaly

WT/WT

Normal (Clear)

Mucopolysaccharidosis I

WT/WT

Normal (Clear)

Mucopolysaccharidosis IIIA
Dachshund Type

WT/WT

Normal (Clear)

Mucopolysaccharidosis IIIA
New Zealand Huntaway Type

WT/WT

Normal (Clear)

Mucopolysaccharidosis VII
Shepherd Type

WT/WT

Normal (Clear)

Multidrug Resistance 1

WT/WT

Normal (Clear)

Multifocal Retinopathy 1

WT/WT

Normal (Clear)

Multifocal Retinopathy 2

WT/WT

Normal (Clear)

Multifocal Retinopathy 3

WT/WT

Normal (Clear)

Muscular Dystrophy
Golden Retriever Type

WT/WT

X-Linked Female Normal

Musladin-Lueke Syndrome

WT/WT

Normal (Clear)

Myostatin Deficiency
Whippet and Longhaired Whippet Type

WT/WT

Normal (Clear)

Myotonia Congenita
Australian Cattle Dog Type

WT/WT

Normal (Clear)

Myotonia Congenita
Schnauzer Type

WT/WT

Normal (Clear)

Myotubular Myopathy 1

WT/WT

X-Linked Female Normal

Myotubular Myopathy 1
Rottweiler Type

WT/WT

X-Linked Female Normal

<u>Narcolepsy Dachshund Type</u>	WT/WT	Normal (Clear)
<u>Narcolepsy Doberman Pinscher Type</u>	WT/WT	Normal (Clear)
<u>Narcolepsy Labrador Retriever Type</u>	WT/WT	Normal (Clear)
<u>Neonatal Cerebellar Cortical Degeneration</u>	WT/WT	Normal (Clear)
<u>Neonatal Encephalopathy with Seizures</u>	WT/WT	Normal (Clear)
<u>Neuroaxonal Dystrophy Rottweiler Type</u>	WT/WT	Normal (Clear)
<u>Neuroaxonal Dystrophy Spanish Water Dog Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis Tibetan Terrier Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 1</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 1 Cane Corso Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 10</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 12</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 2</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 4A</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type</u>	No Result	No Result
<u>Neuronal Ceroid Lipofuscinosis 6</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 7</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 8 Australian Shepherd Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 8 Setter Type</u>	WT/WT	Normal (Clear)
<u>Oculocutaneous Albinism</u>	WT/WT	Normal (Clear)
<u>Oculocutaneous Albinism Small Breed Type</u>	WT/WT	Normal (Clear)
<u>Osteochondrodysplasia</u>	WT/WT	Normal (Clear)
<u>Osteogenesis Imperfecta Beagle Type</u>	WT/WT	Normal (Clear)

<u>Osteogenesis Imperfecta Dachshund Type</u>	No Result	No Result
<u>Osteogenesis Imperfecta Golden Retriever Type</u>	WT/WT	Normal (Clear)
<u>P2RY12 Receptor Platelet Disorder</u>	WT/WT	Normal (Clear)
<u>Pembroke Welsh Corgi Duchenne Muscular Dystrophy</u>	WT/WT	X-Linked Female Normal
<u>Persistent Müllerian Duct Syndrome</u>	WT/WT	Normal (Clear)
<u>Polynuropathy Leonberger and Saint Bernard Type</u>	WT/WT	Normal (Clear)
<u>Polynuropathy Leonberger Type 2</u>	WT/WT	Normal (Clear)
<u>Polynuropathy with Ocular Abnormalities and Neuronal Vacuolation</u>	WT/WT	Normal (Clear)
<u>Pompe Disease</u>	WT/WT	Normal (Clear)
<u>Prekallikrein Deficiency</u>	WT/WT	Normal (Clear)
<u>Primary Ciliary Dyskinesia</u>	WT/WT	Normal (Clear)
<u>Primary Hyperoxaluria</u>	WT/WT	Normal (Clear)
<u>Primary Lens Luxation</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma Basset Fauve de Bretagne Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma Basset Hound Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma Norwegian Elkhound Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma and Primary Lens Luxation Shar Pei Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy Basenji Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy Bullmastiff/Mastiff Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy Giant Schnauzer Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy Irish Setter Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy Shetland Sheepdog Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u>	WT/WT	Normal (Clear)

Sloughi Type

<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 2</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 4</u> <u>crd4/crd1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Early Onset</u> <u>Spanish Water Dog Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Generalized</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Golden Retriever 1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Golden Retriever 2</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, PRA1</u> <u>Papillon Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, PRA3</u> <u>Tibetan Terrier and Spaniel Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Progressive Rod-Cone</u> <u>Degeneration</u> <u>prcd</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Rod-Cone Dysplasia 3</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Rod-Cone Dysplasia 4</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, XLinked 1</u>	WT/WT	X-Linked Female Normal
<u>Protein Losing Nephropathy</u>	WT/WT, WT/WT	Normal (Clear) - No Increased Risk
<u>Protein Losing Nephropathy (Variant 1)</u>	0	
<u>Protein Losing Nephropathy (Variant 2)</u>	0	
<u>Pyruvate Dehydrogenase Deficiency</u>	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency</u> <u>Basenji Type</u>	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency</u> <u>Beagle Type</u>	WT/WT	Normal (Clear)
<u>Pyruvate Kinase Deficiency</u> <u>Labrador Retriever Type</u>	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)
<u>Recurrent Inflammatory Pulmonary Disease</u>	WT/WT	Normal (Clear)

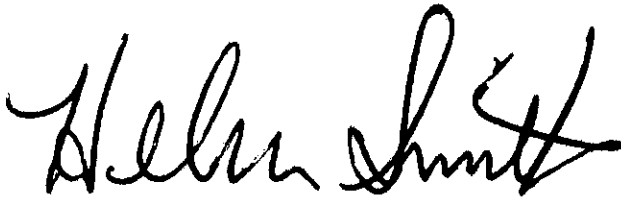
<u>Renal Cystadenocarcinoma and Nodular Dermatofibrosis</u>	WT/WT	Normal (Clear)
<u>Retinal Dysplasia/Oculoskeletal Dysplasia 1</u>	WT/WT	Normal (Clear)
<u>Retinal Dysplasia/Oculoskeletal Dysplasia 2</u>	WT/WT	Normal (Clear)
<u>Sensory Neuropathy Border Collie Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease Terrier Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease Wetterhoun Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease, X-Linked Basset Hound Type</u>	WT/WT	X-Linked Female Normal
<u>Severe Combined Immunodeficiency Disease, X-Linked Corgi Type</u>	WT/WT	X-Linked Female Normal
<u>Shar-Pei Autoinflammatory Disease</u>	WT/WT	Normal (Clear)
<u>Skeletal Dysplasia 2</u>	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)
<u>Stargardt Disease</u>	WT/WT	Normal (Clear)
<u>Startle Disease</u>	WT/WT	Normal (Clear)
<u>Thrombopathia American Eskimo Dog Type</u>	WT/WT	Normal (Clear)
<u>Thrombopathia Basset Hound Type</u>	WT/WT	Normal (Clear)
<u>Thrombopathia Newfoundland Type</u>	WT/WT	Normal (Clear)
<u>Trapped Neutrophil Syndrome</u>	WT/WT	Normal (Clear)
<u>Urolithiasis Native American Indian Dog Type</u>	WT/WT	Normal (Clear)
<u>Van Den Ende-Gupta Syndrome</u>	WT/WT	Normal (Clear)
<u>Von Willebrand Disease I</u>	WT/WT	Normal (Clear)
<u>Von Willebrand Disease II</u>	WT/WT	Normal (Clear)
<u>Von Willebrand Disease III Kooikerhondje Type</u>	WT/WT	Normal (Clear)
<u>Von Willebrand Disease III Scottish Terrier Type</u>	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)



Helen F Smith, PhD
Associate Laboratory Director



Christina J Ramirez, PhD, DVM, DACVP
Medical 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 and precision with >99% sensitivity and specificity. The results included in this report relate only to the items tested using the sample provided. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a diagnostic test. This is not a breed identification test. Because all tests are DNA-based, rare genomic variations may interfere with the performance of some individual tests producing false results. If you think any results are in error, please contact the laboratory for further evaluation.