

Demographic Information

Call Name

Adley

DOB

October 26, 2020

Registered Name

Toy Australian Shepherd

Tattoo

Breed Sex

F

Microchip

Owner

Jennifer Hoyt

Laboratory #

Registration Number

AN-22-009350

Report Date

October 11, 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	Geno.	Interpretation
Coagulation Factor VII Deficiency	WT/WT	Normal (Clear)
Collie Eye Anomaly	WT/WT	Normal (Clear)
Cone Degeneration	WT/WT	Normal (Clear)
<u>Craniomandibular Osteopathy</u>	WT/WT	Normal (Clear)
<u>Degenerative Myelopathy</u>	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant) Degenerative Myelopathy (Common Variant)	0	
Exercise-Induced Collapse	WT/WT	Normal (Clear)
Hereditary Cataracts Australian Shepherd Type	WT/WT	Normal (Clear)
<u>Hyperuricosuria</u>	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)
Multifocal Retinopathy 1	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 6	WT/WT	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 8 Australian Shepherd Type	WT/WT	Normal (Clear)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	WT/WT	Normal (Clear)
	WT: wild type (normal)	M: mutant Y: Y chromosome (male)

Coat Colors & Traits

Trait Name

A Locus Agouti Geno.

a^t/a^t

Interpretation

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 B Locus (Brown) - b ^c B Locus (Brown) - b ^d B Locus (Brown) - b ^s	0 0 0 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)
Cu Locus Curly Hair	Cu/Cu	Straight coat
D Locus Dilute	D/D	Non dilute
D Locus (Dilute) - d ¹ D Locus (Dilute) - d ²	0	
E Locus Yellow/Red	E/E	Black
E ^g Locus Grizzle, Afghan Hound Type	N/N	No grizzle
<u>E^h Locus</u> <u>Sable, Cocker Spaniel Type</u>	N/N	No sable
E ^m Locus Melanistic Mask	E ^m /N	Melanistic mask (carrier)
H Locus Harlequin, Great Dane Type	h/h	No harlequin
Hr Locus FOXI3 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type	hr/hr	Coated
<u>I Locus</u> <u>Intensity</u>	1/1	Normal intensity
IC Locus Improper Coat/Furnishings	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>	Lh/Lh	Longhaired

<u>Long Hair/Fluffy</u> <u>- Lh¹, Lh², Lh⁴</u>		
L Locus (Long Hair/Fluffy) - Lh ¹	2	
L Locus (Long Hair/Fluffy) - Lh ² L Locus (Long Hair/Fluffy) - Lh ⁴	0	
L Locus (Long Hair/Flumy) - Ln	0	
M Locus Merle	m/M238	Single copy merle carrier
<u>Polydactyly</u>	pd/pd	Normal (typical) toes (likely no hind dewclaws)
<u>S Locus</u> <u>White Spotting, Parti, or Piebald</u>	S/S	No white spotting, flash, parti, or piebald
Shedding	SD/SD	High shedding
Sex Determination - ZFXY	X/X	Female
<mark>T Locus</mark> 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.

Diseases

Disease Name Acral Mutilation Syndrome	Geno. WT/WT	Interpretation 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)
<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)

Canine Scott Syndrome	WT/WT	Normal (Clear)
Catalase Deficiency	WT/WT	Normal (Clear)
Centronuclear Myopathy	WT/WT	Normal (Clear)
<u>Cerebellar Ataxia</u> <u>Finnish Hound Type</u>	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)
<u>Chondrodysplasia</u> <u>Karelian Bear Dog and Norwegian Elkhound Type</u>	WT/WT	Normal (Clear)
<u>Cleft Palate and Syndactyly</u> <u>Nova Scotia Duck Tolling Retriever Type</u>	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)
<u>Cone Degeneration</u> <u>German Shepherd Dog Type</u>	WT/WT	Normal (Clear)
Cone Degeneration German Shorthaired Pointer Type	WT/WT	Normal (Clear)
Cone Degeneration Labrador Retriever Type	WT/WT	Normal (Clear)
<u>Congenital Hypothyroidism with Goiter</u> <u>Terrier Type</u>	WT/WT	Normal (Clear)
Congenital Methemoglobinemia	WT/WT	Normal (Clear)
<u>Congenital Myasthenic Syndrome</u> <u>Jack Russell Terrier Type</u>	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)
<u>Cystinuria</u> <u>Newfoundland Type</u>	WT/WT	Normal (Clear)
<u>Cystinuria Type 3</u> <u>Bulldog Type Risk Factor, Variant 3</u>	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	
<u>Dandy-Walker-Like Malformation</u>	WT/WT	Normal (Clear)
<u>Degenerative Myelopathy</u>	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant) Degenerative Myelopathy (Common Variant)	0	
<u>Degenerative Myelopathy Early-Onset Risk Modifier</u> <u>Pembroke Welsh Corgi Type</u>	M/M	Two Copy Carrier - Not associated with disease
<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>	No Result	No Result
<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)	0	

Elliptocytosis	WT/WT	Normal (Clear)
Epidermolytic Hyperkeratosis	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)
<u>Familial Nephropathy</u> <u>Cocker Spaniel Type</u>	WT/WT	Normal (Clear)
<u>Familial Nephropathy</u> <u>English Springer Spaniel Type</u>	WT/WT	Normal (Clear)
<u>Fucosidosis</u>	WT/WT	Normal (Clear)
Gallbladder Mucoceles	WT/WT	Normal (Clear)
Glanzmann's Thrombasthenia Great Pyrenees Type	WT/WT	Normal (Clear)
Glanzmann's Thrombasthenia Otterhound Type	WT/WT	Normal (Clear)
Glaucoma Border Collie Type	WT/WT	Normal (Clear)
Globoid Cell Leukodystrophy Irish Setter Type	WT/WT	Normal (Clear)
Globoid Cell Leukodystrophy Terrier Type	WT/WT	Normal (Clear)
Glycogen Storage Disease la	WT/WT	Normal (Clear)
Glycogen Storage Disease IIIa	WT/WT	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)

Hemophilia A Bozer Lynge Hemophilia A German Shepherd Dog, Tyne-1 Hemophilia A German Shepherd Dog, Tyne-2 Hemophilia A German Shepherd Dog, Tyne-2 Hemophilia A German Shepherd Dog, Tyne-2 Hemophilia B Caim Terrier Tyne Hemophilia B Chasa Arson Tyne Hereditary Cataracts WT/WT Normal (Clear) WT/WT Normal (Clear) WT/WT Normal (Clear) Hereditary Nasal Parakeratosis Greyhound Tyne Hereditary Nasal Parakeratosis Greyhound Tyne Hereditary Nephritis Samoyed Tyne Hyperuricosuria WT/WT Normal (Clear) WT/WT Normal (Clear) WT/WT Normal (Clear) Chrhyosis Golden Retriever Tyne-2 Ichthyosis Golden Retriever Tyne-	<u>Greyhound Polyneuropathy</u>	WT/WT	Normal (Clear)
Hemophilia A German Shepherd Dog. Type 2 WT/WT X-Linked Female Normal German Shepherd Dog. Type 2 WT/WT X-Linked Female Normal Caim Terrier Type WT/WT X-Linked Female Normal Caim Terrier Type WT/WT X-Linked Female Normal Caim Terrier Type WT/WT X-Linked Female Normal Normal Caim Terrier Type WT/WT X-Linked Female Normal Normal Caim Terrier Type WT/WT X-Linked Female Normal Normal Caim Terrier Type WT/WT Normal (Clear) WT/WT Nor		WT/WT	X-Linked Female Normal
Hemophilia B Caim I Errier Type WT/WT X-Linked Female Normal Clear X-Linked Female Normal Shasa Apso Type WT/WT X-Linked Female Normal Clear		WT/WT	X-Linked Female Normal
Learn Terrier Type		WT/WT	X-Linked Female Normal
Hemophilia B Rhodesian Ridgeback Type Hereditary Cataracts WT/WT Normal (Clear) Hereditary Cataracts Australian Shepherd Type Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nephritis Samoyed Type WT/WT WT/WT Normal (Clear) Hyperuricosuria WT/WT Normal (Clear) Normal (Clear) Wt/WT Normal (Clear) Normal (Clear) Wt/WT Normal (Clear)		WT/WT	X-Linked Female Normal
Rhodesian Ridgeback Type Hereditary Cataracts WT/WT Normal (Clear) Hereditary Cataracts Australian Shepherd Type Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nephritis Samoyed Type Hyperuricosuria WT/WT Normal (Clear) Hyperuricosuria WT/WT Normal (Clear) Normal (Clear) WT/WT Normal (Clear) Normal (Clear) Intervertebral Disc Disease Risk Factor and Chondrodystrophy CDDY with IVDD Intestinal Cobalamin Malabsorption WT/WT Normal (Clear)		WT/WT	X-Linked Female Normal
Hereditary Cataracts Australian Shepherd Type Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type Hereditary Nasal Parakeratosis WT/WT Hereditary Nasal Parakeratosis Greyhound Type WT/WT Hereditary Nephritis Samoyed Type Hyperuricosuria WT/WT WT/WT Normal (Clear) Intervertebral Disc Disease Risk Factor and Chondrodystrophy CDDY with IVDD Intestinal Cobalamin Malabsorption		WT/WT	X-Linked Female Normal
Australian Shepherd Type Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nasal Parakeratosis WT/WT Normal (Clear) Hereditary Nephritis Samoyed Type Hereditary Nephritis Samoyed Type WT/WT Normal (Clear) Normal (Clear) WT/WT Normal (Clear) Normal (Clear) Normal (Clear) Ichthyosis Golden Retriever Type 1 Ichthyosis Golden Retriever Type 2 Ichthyosis Great Dane Type WT/WT Normal (Clear) Normal (Clear) Inherited Myopathy of Great Danes WT/WT Normal (Clear)	Hereditary Cataracts	WT/WT	Normal (Clear)
Hereditary, Nasal Parakeratosis Hereditary, Nasal Parakeratosis WT/WT Normal (Clear) Hereditary, Nasal Parakeratosis Greyhound Type Hereditary, Nephritis Samoyed Type WT/WT Normal (Clear) Hyperuricosuria WT/WT Normal (Clear) Wyperuricosuria WT/WT Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Intervertebral Disc Disease Risk Factor and Chondrodystrophy, CDDY with IVDD	Hereditary Cataracts Australian Shepherd Type	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis Greyhound Type Hereditary Nephritis Samoyed Type WT/WT WT/WT Wormal (Clear) Hyperuricosuria WT/WT Normal (Clear) Hyperuricosuria WT/WT Normal (Clear) Inherited Myopathy of Great Danes Wt/WT Normal (Clear) Intervertebral Disc Disease Risk Factor and Chondrodystrophy. CDDY with IVDD Intestinal Cobalamin Malabsorption Wt/WT Normal (Clear)	<u>Hereditary Footpad Hyperkeratosis</u> <u>Irish Terrier and Kromfohrländer Type</u>	WT/WT	Normal (Clear)
Hereditary Nephritis Samoyed Type Hyperuricosuria Hyperuricosuria WT/WT Normal (Clear) Hyperuricosuria WT/WT Normal (Clear) Normal (Clear) WT/WT Normal (Clear) WT/WT Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear)	Hereditary Nasal Parakeratosis	WT/WT	Normal (Clear)
Hyperuricosuria Hyperuricosuria WT/WT Normal (Clear) Hypomyelination Weimaraner Type WT/WT Normal (Clear) Normal (Clear) WT/WT Normal (Clear) Normal (Clear) WT/WT Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear)		WT/WT	Normal (Clear)
Hypomyelination Weimaraner Type Lichthyosis American Bulldog Type Lichthyosis Golden Retriever Type 1 Lichthyosis Golden Retriever Type 2 Lichthyosis Golden Retriever Type 2 Lichthyosis Great Dane Type Inherited Myopathy of Great Danes MT/WT Normal (Clear) WT/WT Normal (Clear) WT/WT Normal (Clear) Normal (Clear) Normal (Clear) MT/WT Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear) Normal (Clear)		WT/WT	X-Linked Female Normal
Mormal (Clear) Mormal (Clear)	<u>Hyperuricosuria</u>	WT/WT	Normal (Clear)
American Bulldog Type Ichthyosis WT/WT Normal (Clear) Ichthyosis Golden Retriever Type 1 WT/WT Normal (Clear) Ichthyosis Golden Retriever Type 2 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) Interstinal Cobalamin Malabsorption WT/WT Normal (Clear)		WT/WT	Normal (Clear)
Colden Retriever Type 1		WT/WT	Normal (Clear)
Colden Retriever Type 2		WT/WT	Normal (Clear)
Inherited Myopathy of Great Danes		WT/WT	Normal (Clear)
Intervertebral Disc Disease Risk Factor and Chondrodystrophy. CDDY with IVDD MT/WT Normal (Clear) Normal (Clear)		WT/WT	Normal (Clear)
Chondrodystrophy CDDY with IVDD Intestinal Cobalamin Malabsorption WT/WT Normal (Clear)	Inherited Myopathy of Great Danes	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption Beagle Type WT/WT Normal (Clear)	<u>Chondrodystrophy</u>	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)
<u>Juvenile Myoclonic Epilepsy</u> <u>Rhodesian Ridgeback Type</u>	WT/WT	Normal (Clear)
<u>L-2-Hydroxyglutaric Aciduria</u> <u>Staffordshire Bull Terrier Type</u>	WT/WT	Normal (Clear)
<u>Lagotto Storage Disorder</u>	WT/WT	Normal (Clear)
Late Onset Ataxia	WT/WT	Normal (Clear)
<u>Lethal Acrodermatitis</u>	WT/WT	Normal (Clear)
Leukocyte Adhesion Deficiency, Type I	WT/WT	Normal (Clear)
Leukocyte Adhesion Deficiency, Type III	WT/WT	Normal (Clear)
<u>Ligneous Membranitis</u>	WT/WT	Normal (Clear)
<u>Lundehund Syndrome</u>	WT/WT	Normal (Clear)
Macular Corneal Dystrophy Labrador Retriever Type	WT/WT	Normal (Clear)
May-Hegglin Anomaly	WT/WT	Normal (Clear)
<u>Mucopolysaccharidosis I</u>	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	No Result	No Result
<u>Muscular Dystrophy</u> <u>Golden Retriever Type</u>	WT/WT	X-Linked Female Normal
Musladin-Lueke Syndrome	No Result	No Result
Myostatin Deficiency Whippet and Longhaired Whippet Type	WT/WT	Normal (Clear)
Myotonia Congenita Australian Cattle Dog Type	WT/WT	Normal (Clear)
<u>Myotonia Congenita</u>	WT/WT	Normal (Clear)

<u>Schnauzer Type</u>		
Myotubular Myopathy 1	WT/WT	X-Linked Female Normal
Myotubular Myopathy 1 Rottweiler Type	WT/WT	X-Linked Female Normal
<u>Narcolepsy</u> <u>Dachshund Type</u>	WT/WT	Normal (Clear)
Narcolepsy Doberman Pinscher Type	WT/WT	Normal (Clear)
<u>Narcolepsy</u> <u>Labrador Retriever Type</u>	WT/WT	Normal (Clear)
Neonatal Cerebellar Cortical Degeneration	WT/WT	Normal (Clear)
Neonatal Encephalopathy with Seizures	WT/WT	Normal (Clear)
Neuroaxonal Dystrophy Rottweiler 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 1 Cane Corso Type	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 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 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	WT/WT	Normal (Clear)

Small Breed Type		
<u>Osteochondrodysplasia</u>	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)
<u>Polyneuropathy</u> <u>Leonberger and Saint Bernard Type</u>	WT/WT	Normal (Clear)
Polyneuropathy Leonberger Type 2	WT/WT	Normal (Clear)
Polyneuropathy with Ocular Abnormalities and Neuronal Vacuolation	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)
Primary Lens Luxation	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma</u> <u>Basset Fauve de Bretagne Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma</u> <u>Basset Hound Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma</u> <u>Norwegian Elkhound Type</u>	WT/WT	Normal (Clear)
<u>Primary Open Angle Glaucoma and Primary Lens</u> <u>Luxation</u> <u>Shar Pei Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Basenji Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Bullmastiff/Mastiff Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Giant Schnauzer Type</u>	WT/WT	Normal (Clear)

Progressive Retinal Atrophy Irish Setter Type	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Shetland Sheepdog Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Sloughi Type</u>	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)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 4</u> <u>crd4/cord1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Early Onset</u> <u>Spanish Water Dog Type</u>	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)
<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)
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	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
<u>Protein Losing Nephropathy</u>	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>	No Result	No Result
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)
<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)
<u>Sensory Neuropathy</u> <u>Border Collie Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease</u> <u>Terrier Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease</u> <u>Wetterhoun Type</u>	WT/WT	Normal (Clear)
<u>Severe Combined Immunodeficiency Disease, X-Linked</u> <u>Basset Hound Type</u>	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)
Spinocerebellar Ataxia	WT/WT	Normal (Clear)
Spondylocostal Dysostosis	WT/WT	Normal (Clear)
Stargardt Disease	WT/WT	Normal (Clear)
Startle Disease	WT/WT	Normal (Clear)
<u>Thrombopathia</u> <u>American Eskimo Dog Type</u>	WT/WT	Normal (Clear)
<u>Thrombopathia</u> <u>Basset Hound Type</u>	WT/WT	Normal (Clear)
<u>Thrombopathia</u> <u>Newfoundland Type</u>	WT/WT	Normal (Clear)
<u>Trapped Neutrophil Syndrome</u>	WT/WT	Normal (Clear)
<u>Urolithiasis</u> <u>Native American Indian Dog Type</u>	WT/WT	Normal (Clear)
<u>Van Den Ende-Gupta Syndrome</u>	WT/WT	Normal (Clear)

Von Willebrand Disease I	No Result	No Result
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)

h Short

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Medical Director

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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 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.