



Demographic Information

Call Name	Zella	DOB	August 12, 2020
Registered Name		Registration Number	
Breed	Miniature Australian Shepherd	Tattoo	
Sex	F	Microchip	
Owner	Jennifer Hoyt	Laboratory #	AN-22-004329
		Report Date	May 9, 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
Collie Eye Anomaly	WT/WT	Normal (Clear)
Cone Degeneration	WT/WT	Normal (Clear)
Craniomandibular Osteopathy	WT/WT	Normal (Clear)
Degenerative Myelopathy	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	
Exercise-Induced Collapse	WT/WT	Normal (Clear)
Hereditary Cataracts	WT/WT	Normal (Clear)
Australian Shepherd Type		
Hyperuricosuria	WT/WT	Normal (Clear)
Intervertebral Disc Disease Risk Factor and Chondrodystrophy	WT/WT	Normal (Clear)
CDDY with IVDD		
Intestinal Cobalamin Malabsorption	WT/WT	Normal (Clear)
Border Collie Type		
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	WT/WT	Normal (Clear)
Australian Shepherd Type		
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration	WT/WT	Normal (Clear)
prcd		
Von Willebrand Disease I	WT/WT	Normal (Clear)

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Coat Colors & Traits

Trait Name	Geno.	Interpretation
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A Locus Agouti	a ^t /a ^t	Tricolor, black and tan
A^s Locus Saddle Tan	N/N	No saddle tan/creeping tan
B Locus Brown	B/b or b/b	Carries brown and may have brown or black coat, nose and foot pads
<div> <div>B Locus (Brown) - b^a</div> <div>B Locus (Brown) - b^c</div> <div>B Locus (Brown) - b^d</div> <div>B Locus (Brown) - b^s</div> </div> <div> <div>0</div> <div>1</div> <div>1</div> <div>1</div> </div>		
Brachycephaly	BR/br	Likely medium to long muzzle (short muzzle carrier)
Chondrodysplasia CDPA	cd/cd	Likely typical leg length
Cu Locus Curly Hair	Cu/Cu	Straight coat
D Locus Dilute	D/D	Non dilute
<div> <div>D Locus (Dilute) - d¹</div> <div>D Locus (Dilute) - d²</div> </div> <div> <div>0</div> <div>0</div> </div>		
E Locus Yellow/Red	E/E	Black
E^g Locus Grizzle, Afghan Hound Type	N/N	No grizzle
E^h Locus Sable, Cocker Spaniel Type	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 FOX13 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese Crested Type	hr/hr	Coated
I Locus Intensity	I/I	Normal intensity
IC Locus Improper Coat/Furnishings	IC/IC	No furnishings, improper coat
K Locus Dominant Black	k ^y /k ^y	Agouti expression allowed

L Locus Long Hair/Fluffy - Lh¹, Lh²	Lh/Lh	Longhaired
L Locus (Long Hair/Fluffy) - Lh ¹	2	
L Locus (Long Hair/Fluffy) - Lh ²	0	
M Locus Merle	m/M268	Single copy merle carrier
Polydactyly	PD/pd	Likely polydactylous with hind dewclaws (typical toes carrier)
S Locus White Spotting, Parti, or Piebald	S/S	No white spotting, flash, parti, or piebald
SD Locus Shedding	sd/SD	Moderate shedding
Sex Determination	X/X	Female
T Locus Natural Bobtail	t/t	Normal tail

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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	Geno.	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)
Amelogenesis Imperfecta	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)

Catalase Deficiency	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)
Cerebellar Degeneration	WT/WT	Normal (Clear)
Chondrodysplasia Karelian Bear Dog and Norwegian Elkhound Type	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)
Craniomandibular Osteopathy	WT/WT	Normal (Clear)
Cyclic Neutropenia	WT/WT	Normal (Clear)
Cystinuria Australian Cattle Dog Type	WT/WT	Normal (Clear)
Cystinuria Labrador Retriever Type	WT/WT	Normal (Clear)
Cystinuria	WT/WT	Normal (Clear)

Miniature Pinscher Type		
Cystinuria Newfoundland Type	WT/WT	Normal (Clear)
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)	0	
Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 2)	0	
Dandy-Walker-Like Malformation	WT/WT	Normal (Clear)
Degenerative Myelopathy	WT/WT	Normal (Clear)
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	
Degenerative Myelopathy Early-Onset Risk Modifier Pembroke Welsh Corgi Type	WT/M	One Copy Carrier - Not associated with disease
Dental Hypomineralization	WT/WT	Normal (Clear)
Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis	WT/WT	Normal (Clear)
Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 1	WT/WT	Normal (Clear)
Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 2	WT/WT	Normal (Clear)
Dilated Cardiomyopathy Schnauzer Type	WT/WT	Normal (Clear)
Dry Eye Curly Coat Syndrome	WT/WT	Normal (Clear)
Dystrophic Epidermolysis Bullosa	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	
Ehlers-Danlos Syndrome (Variant 2)	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)
Familial Nephropathy Cocker Spaniel Type	WT/WT	Normal (Clear)
Familial Nephropathy English Springer Spaniel Type	WT/WT	Normal (Clear)
Fucosidosis	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 Ia	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)
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)
Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrländer Type	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
Hyperuricosuria	WT/WT	Normal (Clear)
Hypomyelination Weimaraner Type	WT/WT	Normal (Clear)
Ichthyosis American Bulldog Type	WT/WT	Normal (Clear)
Ichthyosis Golden Retriever Type 1	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)
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
Narcolepsy	WT/WT	Normal (Clear)

<u>Dachshund Type</u>		
<u>Narcolepsy</u> <u>Doberman Pinscher Type</u>	No Result	No Result
<u>Narcolepsy</u> <u>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</u> <u>Rottweiler Type</u>	WT/WT	Normal (Clear)
<u>Neuroaxonal Dystrophy</u> <u>Spanish Water Dog Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis</u> <u>Tibetan Terrier Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 1</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 1</u> <u>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</u> <u>Australian Cattle Dog/Border Collie Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 5</u> <u>Golden Retriever Type</u>	WT/WT	Normal (Clear)
<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</u> <u>Australian Shepherd Type</u>	WT/WT	Normal (Clear)
<u>Neuronal Ceroid Lipofuscinosis 8</u> <u>Setter Type</u>	WT/WT	Normal (Clear)
<u>Oculocutaneous Albinism</u>	WT/WT	Normal (Clear)
<u>Oculocutaneous Albinism</u> <u>Small Breed Type</u>	WT/WT	Normal (Clear)
<u>Osteochondrodysplasia</u>	WT/WT	Normal (Clear)
<u>Osteogenesis Imperfecta</u> <u>Beagle Type</u>	WT/WT	Normal (Clear)
<u>Osteogenesis Imperfecta</u>	No Result	No Result

<u>Dachshund Type</u>		
<u>Osteogenesis Imperfecta</u> <u>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>Polyneuropathy</u> <u>Leonberger and Saint Bernard Type</u>	WT/WT	Normal (Clear)
<u>Polyneuropathy</u> <u>Leonberger Type 2</u>	WT/WT	Normal (Clear)
<u>Polyneuropathy 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</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 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)
<u>Progressive Retinal Atrophy</u> <u>Irish Setter Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u> <u>Shetland Sheepdog Type</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy</u>	WT/WT	Normal (Clear)

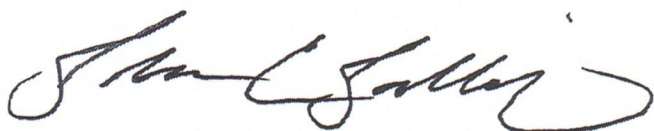
<u>Sloughi Type</u>		
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 2</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, Cone-Rod Dystrophy 4</u> <u>crd4/crd1</u>	WT/WT	Normal (Clear)
<u>Progressive Retinal Atrophy, 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 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, X-Linked 1</u>	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)	0	
Protein Losing Nephropathy (Variant 2)	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)

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)
Spinal Dysraphism	No Result	No Result
Spinocerebellar Ataxia	WT/WT	Normal (Clear)
Spondylocostal Dysostosis	WT/WT	Normal (Clear)
Stargardt Disease	WT/WT	Normal (Clear)
Startle Disease	WT/WT	Normal (Clear)
Thrombopathia American Eskimo Dog Type	WT/WT	Normal (Clear)
Thrombopathia Basset Hound Type	WT/WT	Normal (Clear)
Thrombopathia Newfoundland Type	WT/WT	Normal (Clear)
Trapped Neutrophil Syndrome	WT/WT	Normal (Clear)
Urolithiasis Native American Indian Dog Type	WT/WT	Normal (Clear)
Van Den Ende-Gupta Syndrome	WT/WT	Normal (Clear)
Von Willebrand Disease I	WT/WT	Normal (Clear)
Von Willebrand Disease II	WT/WT	Normal (Clear)
Von Willebrand Disease III Kooikerhondje Type	WT/WT	Normal (Clear)
Von Willebrand Disease III Scottish Terrier Type	WT/WT	Normal (Clear)

WT: **wild type (normal)**

M: **mutant**

Y: **Y chromosome (male)**



Blake C Ballif, PhD

Laboratory & Scientific 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. Because all tests are performed on 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.