

Welcome,

Wendy Sauls

wendy@familyaffairstandards.com

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Demographic Information

Call Name	Tulip	DOB	Oct
Registered Name	Family Affair's Tip Toe Thru The Tulips	Registration Number	PR2
Breed	Standard Poodle	Tattoo	
Sex	F	Microchip	956
Owner	Wendy Sauls	Laboratory #	AN-
		Report Date	Feb

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 disease.
Carrier	A 'Carrier' result indicates that your dog has inherited one copy of the mutation that causes this genetic disease. Your dog may not be clinically affected by this mutation because two copies 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 causes this genetic disease. Based on the mode of genetic inheritance for this particular disease, one copy of the gene may result in the disease. Dogs with one copy of the mutation may have a higher risk of passing the mutation on 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 causes this genetic disease. Based on the mode of genetic inheritance for this particular disease, 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 test. This does not mean that your dog is a carrier or at-risk for this disease. There are a variety of reasons why we may not provide a reportable result. Unique variations in the genetic code of some individuals may prevent us from providing a reportable result. In addition, some individuals may have cheek cells that do not perform properly with a specific test. In addition, some individuals may have cheek cells that do not perform properly due to inadequate cell count or the presence of other test inhibitors. An acceptable level of tests with no results is determined by Paw Print Genetics. Dogs with at least 90% of the test results are determined to be acceptable. If your dog has an unacceptable level of tests with no results, you will be contacted for a new test.

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

WT: WT (wild type (normal))

Breed Profile

Disease Name	Geno.	Inte
Degenerative Myelopathy	WT/WT	WT
Degenerative Myelopathy (Bernese Mountain Dog Variant)	0	
Degenerative Myelopathy (Common Variant)	0	

GM2 Gangliosidosis Poodle Type	WT/WT	Non
Hereditary Cataracts	WT/WT	Non
Intervertebral Disc Disease Risk Factor and Chondrodystrophy CDDY with IVDD	WT/WT	Non
Multidrug Resistance 1	WT/WT	Non
Neonatal Encephalopathy with Seizures	WT/WT	Non
Osteochondrodysplasia	WT/WT	Non
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	WT/M	Carri
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	WT/WT	Non
Von Willebrand Disease I	WT/WT	Non

WT: wild type (normal)

Coat Colors & Traits

Trait Name	Geno.	Inte												
A Locus Agouti	a ^t /a ^t	Tric												
A^s Locus Saddle Tan	N/A ^s	Sad tan												
B Locus Brown	B/b or b/b	Car or b												
<div style="border: 1px solid #ccc; padding: 5px;"> <table> <tr> <td>B Locus (Brown) - b^a</td> <td>0</td> <td></td> </tr> <tr> <td>B Locus (Brown) - b^c</td> <td>0</td> <td></td> </tr> <tr> <td>B Locus (Brown) - b^d</td> <td>1</td> <td></td> </tr> <tr> <td>B Locus (Brown) - b^s</td> <td>1</td> <td></td> </tr> </table> </div>			B Locus (Brown) - b ^a	0		B Locus (Brown) - b ^c	0		B Locus (Brown) - b ^d	1		B Locus (Brown) - b ^s	1	
B Locus (Brown) - b ^a	0													
B Locus (Brown) - b ^c	0													
B Locus (Brown) - b ^d	1													
B Locus (Brown) - b ^s	1													
Brachycephaly	BR/BR	Like												
Chondrodysplasia CDPA	cd/cd	Like												
Cu Locus Curly Hair	Cu ^c /Cu ^c	Cur												
D Locus Dilute	D/D	Nor												
<div style="border: 1px solid #ccc; padding: 5px;"> <table> <tr> <td>D Locus (Dilute) - d¹</td> <td>0</td> <td></td> </tr> <tr> <td>D Locus (Dilute) - d²</td> <td>0</td> <td></td> </tr> </table> </div>			D Locus (Dilute) - d ¹	0		D Locus (Dilute) - d ²	0							
D Locus (Dilute) - d ¹	0													
D Locus (Dilute) - d ²	0													
E Locus Yellow/Red	e/e	Yell												
E^g Locus Grizzle, Afghan Hound Type	N/N	No												
E^h Locus Sable, Cocker Spaniel Type	N/N	No												
E^m Locus Melanistic Mask	N/N	No												
H Locus Harlequin, Great Dane Type	h/h	No												
Hr Locus FOXI3 Hairless Gene Test, Mexican Hairless, Peruvian Hairless and Chinese	hr/hr	Coa												

Crested Type		
I Locus Intensity	I/I	Nor
IC Locus Improper Coat/Furnishings	F/F	Fur
K Locus Dominant Black	K ^B /K ^B	No
L Locus Long Hair/Fluffy	Lh/Lh	Lon
<div style="border: 1px solid #ccc; padding: 5px;"> L Locus (Long Hair/Fluffy) - Lh¹ L Locus (Long Hair/Fluffy) - Lh² </div>		2 0
M Locus Merle	m/m	Nor
Polydactyly	pd/pd	Nor dev
S Locus White Spotting, Parti, or Piebald	S/s ^P	Lim or p
SD Locus Shedding	sd/SD	Mo
Sex Determination	X/X	Fer
T Locus Natural Bobtail	t/t	Nor

WT: wild type (normal)

Determinants of coat colors and traits are complex. Many of these variants are known and many of the genes screened in the Canine HealthCheck genetic factors that contribute to a dog's coat color and traits are known. Because of the complexities in gene-gene interactions, the coat color HealthCheck results may vary from your dog's actual appearance. Individual differences in genes throughout the canine genome, not tested in the final coat color or traits seen in your dog.

Diseases

Disease Name	Geno.	Inte
Acral Mutilation Syndrome	WT/WT	Nor
Acute Respiratory Distress Syndrome	WT/WT	Nor
Adult Paroxysmal Dyskinesia	WT/WT	Nor
Alaskan Husky Encephalopathy	WT/WT	Nor
Alaskan Malamute Polyneuropathy	WT/WT	Nor
Amelogenesis Imperfecta	WT/WT	Nor
Benign Familial Juvenile Epilepsy	WT/WT	Nor
Canine Multiple System Degeneration Chinese Crested Type	WT/WT	Nor
Canine Multiple System Degeneration Kerry Blue Terrier Type	WT/WT	Nor
Canine Scott Syndrome	WT/WT	Nor
Catalase Deficiency	WT/WT	Nor
Centronuclear Myopathy	WT/WT	Nor
Cerebellar Ataxia Finnish Hound Type	WT/WT	Nor

Cerebellar Cortical Degeneration	WT/WT	Nor
Cerebellar Degeneration	WT/WT	Nor
Chondrodysplasia Karelian Bear Dog and Norwegian Elkhound Type	WT/WT	Nor
Cleft Palate and Syndactyly Nova Scotia Duck Tolling Retriever Type	WT/WT	Nor
Coagulation Factor VII Deficiency	WT/WT	Nor
Collie Eye Anomaly	WT/WT	Nor
Complement 3 Deficiency	WT/WT	Nor
Cone Degeneration	WT/WT	Nor
Cone Degeneration German Shepherd Dog Type	WT/WT	Nor
Cone Degeneration German Shorthaired Pointer Type	WT/WT	Nor
Cone Degeneration Labrador Retriever Type	WT/WT	Nor
Congenital Hypothyroidism with Goiter Terrier Type	WT/WT	Nor
Congenital Methemoglobinemia	WT/WT	Nor
Congenital Myasthenic Syndrome Jack Russell Terrier Type	WT/WT	Nor
Congenital Myasthenic Syndrome Labrador Retriever Type	WT/WT	Nor
Congenital Myasthenic Syndrome Old Danish Pointer Type	WT/WT	Nor
Congenital Stationary Night Blindness	WT/WT	Nor
Cranio-mandibular Osteopathy	WT/WT	Nor
Cyclic Neutropenia	WT/WT	Nor
Cystinuria Australian Cattle Dog Type	WT/WT	Nor
Cystinuria Labrador Retriever Type	WT/WT	Nor
Cystinuria Miniature Pinscher Type	WT/WT	Nor
Cystinuria Newfoundland Type	WT/WT	Nor
Cystinuria Type 3 Bulldog Type Risk Factor, Variant 3	WT/WT	Nor
Cystinuria Type 3 Bulldog Type Risk Factor, Variants 1 and 2	WT/WT	Nor
Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 1) Cystinuria Type 3 (Bulldog Type Risk Factor, Variant 2)	0 0	
Dandy-Walker-Like Malformation	WT/WT	Nor
Degenerative Myelopathy	WT/WT	Nor
Degenerative Myelopathy (Bernese Mountain Dog Variant) Degenerative Myelopathy (Common Variant)	0 0	

Degenerative Myelopathy Early-Onset Risk Modifier Pembroke Welsh Corgi Type	WT/WT	Nor
Dental Hypomineralization	WT/WT	Nor
Diffuse Cystic Renal Dysplasia and Hepatic Fibrosis	WT/WT	Nor
Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 1	WT/WT	Nor
Dilated Cardiomyopathy Doberman Pinscher Type Risk Factor, Variant 2	WT/WT	Nor
Dilated Cardiomyopathy Schnauzer Type	WT/WT	Nor
Dry Eye Curly Coat Syndrome	WT/WT	Nor
Dystrophic Epidermolysis Bullosa	WT/WT	Nor
Early Retinal Degeneration	WT/WT	Nor
Ectodermal Dysplasia Chesapeake Bay Retriever Type	WT/WT	Nor
Ectodermal Dysplasia, X-Linked Dachshund Type	WT/WT	X-L
Ectodermal Dysplasia, X-Linked Shepherd Type	WT/WT	X-L
Ehlers-Danlos Syndrome	WT/WT	Nor
Ehlers-Danlos Syndrome (Variant 1) Ehlers-Danlos Syndrome (Variant 2)	0 0	
Elliptocytosis	WT/WT	Nor
Epidermolytic Hyperkeratosis	WT/WT	Nor
Episodic Falling Syndrome	WT/WT	Nor
Exercise-Induced Collapse	WT/WT	Nor
Factor XI Deficiency	WT/WT	Nor
Familial Nephropathy Cocker Spaniel Type	WT/WT	Nor
Familial Nephropathy English Springer Spaniel Type	WT/WT	Nor
Fucosidosis	WT/WT	Nor
Gallbladder Mucoceles	WT/WT	Nor
Glanzmann's Thrombasthenia Great Pyrenees Type	WT/WT	Nor
Glanzmann's Thrombasthenia Otterhound Type	WT/WT	Nor
Glaucoma Border Collie Type	WT/WT	Nor
Globoid Cell Leukodystrophy Irish Setter Type	No Result	No
Globoid Cell Leukodystrophy Terrier Type	WT/WT	Nor
Glycogen Storage Disease Ia	WT/WT	Nor
Glycogen Storage Disease IIIa	WT/WT	Nor
Glycogen Storage Disease VII	WT/WT	Nor

Wachtelhund Type		
Glycogen Storage Disease VII, PFK Deficiency	WT/WT	Nor
GM1 Gangliosidosis Alaskan Husky Type	WT/WT	Nor
GM1 Gangliosidosis Portuguese Water Dog Type	WT/WT	Nor
GM1 Gangliosidosis Shiba Inu Type	WT/WT	Nor
GM2 Gangliosidosis Japanese Chin Type	WT/WT	Nor
GM2 Gangliosidosis Poodle Type	WT/WT	Nor
Greyhound Polyneuropathy	WT/WT	Nor
Hemophilia A Boxer Type	WT/WT	X-L
Hemophilia A German Shepherd Dog, Type 1	WT/WT	X-L
Hemophilia A German Shepherd Dog, Type 2	WT/WT	X-L
Hemophilia B Cairn Terrier Type	WT/WT	X-L
Hemophilia B Lhasa Apso Type	WT/WT	X-L
Hemophilia B Rhodesian Ridgeback Type	WT/WT	X-L
Hereditary Cataracts	WT/WT	Nor
Hereditary Cataracts Australian Shepherd Type	WT/WT	Nor
Hereditary Footpad Hyperkeratosis Irish Terrier and Kromfohrlander Type	WT/WT	Nor
Hereditary Nasal Parakeratosis	WT/WT	Nor
Hereditary Nasal Parakeratosis Greyhound Type	WT/WT	Nor
Hereditary Nephritis Samoyed Type	WT/WT	X-L
Hyperuricosuria	WT/WT	Nor
Hypomyelination Weimaraner Type	WT/WT	Nor
Ichthyosis American Bulldog Type	WT/WT	Nor
Ichthyosis Golden Retriever Type 1	WT/WT	Nor
Ichthyosis Great Dane Type	WT/WT	Nor
Inherited Myopathy of Great Danes	WT/WT	Nor
Intervertebral Disc Disease Risk Factor and Chondrodystrophy CDDY with IVDD	WT/WT	Nor
Intestinal Cobalamin Malabsorption Beagle Type	WT/WT	Nor
Intestinal Cobalamin Malabsorption Border Collie Type	WT/WT	Nor

Juvenile Laryngeal Paralysis and Polyneuropathy	WT/WT	Nor
Juvenile Myoclonic Epilepsy Rhodesian Ridgeback Type	WT/WT	Nor
L-2-Hydroxyglutaric Aciduria Staffordshire Bull Terrier Type	WT/WT	Nor
Lagotto Storage Disorder	WT/WT	Nor
Late Onset Ataxia	WT/WT	Nor
Lethal Acrodermatitis	WT/WT	Nor
Leukocyte Adhesion Deficiency, Type I	WT/WT	Nor
Leukocyte Adhesion Deficiency, Type III	WT/WT	Nor
Ligneous Membranitis	WT/WT	Nor
Lundehund Syndrome	WT/WT	Nor
Macular Corneal Dystrophy Labrador Retriever Type	WT/WT	Nor
May-Hegglin Anomaly	WT/WT	Nor
Mucopolysaccharidosis I	WT/WT	Nor
Mucopolysaccharidosis IIIA Dachshund Type	WT/WT	Nor
Mucopolysaccharidosis IIIA New Zealand Huntaway Type	WT/WT	Nor
Mucopolysaccharidosis VII Shepherd Type	WT/WT	Nor
Multidrug Resistance 1	WT/WT	Nor
Multifocal Retinopathy 1	WT/WT	Nor
Multifocal Retinopathy 2	WT/WT	Nor
Multifocal Retinopathy 3	WT/WT	Nor
Muscular Dystrophy Golden Retriever Type	WT/WT	X-Li
Musladin-Lueke Syndrome	WT/WT	Nor
Myostatin Deficiency Whippet and Longhaired Whippet Type	WT/WT	Nor
Myotonia Congenita Australian Cattle Dog Type	WT/WT	Nor
Myotonia Congenita Schnauzer Type	WT/WT	Nor
Myotubular Myopathy 1	WT/WT	X-Li
Myotubular Myopathy 1 Rottweiler Type	WT/WT	X-Li
Narcolepsy Dachshund Type	WT/WT	Nor
Narcolepsy Doberman Pinscher Type	WT/WT	Nor
Narcolepsy Labrador Retriever Type	WT/WT	Nor
Neonatal Cerebellar Cortical Degeneration	WT/WT	Nor
Neonatal Encephalopathy with Seizures	WT/WT	Nor

Neuroaxonal Dystrophy Rottweiler Type	WT/WT	Nor
Neuroaxonal Dystrophy Spanish Water Dog Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis Tibetan Terrier Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 1	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 1 Cane Corso Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 10	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 12	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 2	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 4A	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 5 Australian Cattle Dog/Border Collie Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 5 Golden Retriever Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 6	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 7	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 8 Australian Shepherd Type	WT/WT	Nor
Neuronal Ceroid Lipofuscinosis 8 Setter Type	WT/WT	Nor
Oculocutaneous Albinism	WT/WT	Nor
Oculocutaneous Albinism Small Breed Type	WT/WT	Nor
Osteochondrodysplasia	WT/WT	Nor
Osteogenesis Imperfecta Beagle Type	WT/WT	Nor
Osteogenesis Imperfecta Dachshund Type	No Result	No
Osteogenesis Imperfecta Golden Retriever Type	WT/WT	Nor
P2RY12 Receptor Platelet Disorder	WT/WT	Nor
Pembroke Welsh Corgi Duchenne Muscular Dystrophy	WT/WT	X-Li
Persistent Müllerian Duct Syndrome	WT/WT	Nor
Polyneuropathy Leonberger and Saint Bernard Type	WT/WT	Nor
Polyneuropathy Leonberger Type 2	WT/WT	Nor
Polyneuropathy with Ocular Abnormalities and Neuronal Vacuolation	WT/WT	Nor
Pompe Disease	WT/WT	Nor
Prekallikrein Deficiency	WT/WT	Nor
Primary Ciliary Dyskinesia	WT/WT	Nor
Primary Hyperoxaluria	WT/WT	Nor
Primary Lens Luxation	WT/WT	Nor

Primary Open Angle Glaucoma	WT/WT	Nor
Primary Open Angle Glaucoma Basset Fauve de Bretagne Type	WT/WT	Nor
Primary Open Angle Glaucoma Basset Hound Type	WT/WT	Nor
Primary Open Angle Glaucoma Norwegian Elkhound Type	WT/WT	Nor
Primary Open Angle Glaucoma and Primary Lens Luxation Shar Pei Type	WT/WT	Nor
Progressive Retinal Atrophy Basenji Type	WT/WT	Nor
Progressive Retinal Atrophy Bullmastiff/Mastiff Type	WT/WT	Nor
Progressive Retinal Atrophy Giant Schnauzer Type	WT/WT	Nor
Progressive Retinal Atrophy Irish Setter Type	WT/WT	Nor
Progressive Retinal Atrophy Shetland Sheepdog Type	WT/WT	Nor
Progressive Retinal Atrophy Sloughi Type	WT/WT	Nor
Progressive Retinal Atrophy, Cone-Rod Dystrophy	WT/WT	Nor
Progressive Retinal Atrophy, Cone-Rod Dystrophy 1	WT/WT	Nor
Progressive Retinal Atrophy, Cone-Rod Dystrophy 2	WT/WT	Nor
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4 crd4/cord1	WT/WT	Nor
Progressive Retinal Atrophy, Generalized	WT/WT	Nor
Progressive Retinal Atrophy, Golden Retriever 1	WT/WT	Nor
Progressive Retinal Atrophy, Golden Retriever 2	WT/WT	Nor
Progressive Retinal Atrophy, PRA1 Papillon Type	WT/WT	Nor
Progressive Retinal Atrophy, PRA3 Tibetan Terrier and Spaniel Type	WT/WT	Nor
Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration prcd	WT/M	Car
Progressive Retinal Atrophy, Rod-Cone Dysplasia 3	WT/WT	Nor
Progressive Retinal Atrophy, Rod-Cone Dysplasia 4	WT/WT	Nor
Progressive Retinal Atrophy, X-Linked 1	WT/WT	X-L
Protein Losing Nephropathy	WT/WT, WT/WT	Nor
Protein Losing Nephropathy (Variant 1) Protein Losing Nephropathy (Variant 2)	0 0	
Pyruvate Dehydrogenase Deficiency	WT/WT	Nor
Pyruvate Kinase Deficiency Basenji Type	No Result	No
Pyruvate Kinase Deficiency Beagle Type	WT/WT	Nor
Pyruvate Kinase Deficiency Labrador Retriever Type	WT/WT	Nor

Labrador Retriever Type		
Pyruvate Kinase Deficiency Pug Type	WT/WT	Nor
Pyruvate Kinase Deficiency Terrier Type	WT/WT	Nor
Recurrent Inflammatory Pulmonary Disease	WT/WT	Nor
Renal Cystadenocarcinoma and Nodular Dermatofibrosis	WT/WT	Nor
Retinal Dysplasia/Oculoskeletal Dysplasia 1	WT/WT	Nor
Retinal Dysplasia/Oculoskeletal Dysplasia 2	WT/WT	Nor
Sensory Neuropathy Border Collie Type	WT/WT	Nor
Severe Combined Immunodeficiency Disease Terrier Type	WT/WT	Nor
Severe Combined Immunodeficiency Disease Wetterhoun Type	WT/WT	Nor
Severe Combined Immunodeficiency Disease, X-Linked Basset Hound Type	WT/WT	X-L
Severe Combined Immunodeficiency Disease, X-Linked Corgi Type	WT/WT	X-L
Shar-Pei Autoinflammatory Disease	WT/WT	Nor
Skeletal Dysplasia 2	WT/WT	Nor
Spinal Dysraphism	WT/WT	Nor
Spinocerebellar Ataxia	WT/WT	Nor
Spondylocostal Dysostosis	WT/WT	Nor
Stargardt Disease	WT/WT	Nor
Startle Disease	WT/WT	Nor
Thrombopathia American Eskimo Dog Type	WT/WT	Nor
Thrombopathia Basset Hound Type	WT/WT	Nor
Thrombopathia Newfoundland Type	WT/WT	Nor
Trapped Neutrophil Syndrome	WT/WT	Nor
Urolithiasis Native American Indian Dog Type	WT/WT	Nor
Van Den Ende-Gupta Syndrome	WT/WT	Nor
Von Willebrand Disease I	WT/WT	Nor
Von Willebrand Disease II	WT/WT	Nor
Von Willebrand Disease III Kooikerhondje Type	WT/WT	Nor
Von Willebrand Disease III Scottish Terrier Type	WT/WT	Nor
Von Willebrand Disease III Shetland Sheepdog Type	WT/WT	Nor

WT: wild type (normal)



Helen F Smith, PhD

Associate Laboratory Director

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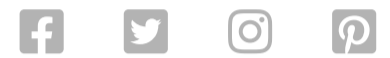
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The Canine HealthCheck® is a screen of >250 genes that cause diseases or traits in dogs. This is not a diagnostic test. Any abnormal results (carrier or affected), or any results that concern you, should be confirmed using a diagnostic test. Diagnostic testing is available from Paw Print Genetics® and in many cases, can be performed using existing DNA from the Canine HealthCheck.

The Canine HealthCheck is not a breed identification test.