Customer & Pet Information

Call Name	Autumn	**DOB**	Sept. 30, 2024
Registered Name	Fullerton Autumn Splendor	**Registration #**	ASDT-NE-2409689
Breed	Toy Australian Shepherd	**Tattoo**	-
Sex	Female	**Microchip**	992000001688735
Ordered By	Julie Fullerton	**Laboratory #**	475983
		Report Date	March 26, 2025

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. 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
Coagulation Factor VII Deficiency	WT/WT	Normal (Clear)
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 Ataxia (Australian Shepherd Type)	WT/WT	Normal (Clear)
Hereditary Cataracts (Australian Shepherd Type)	WT/WT	Normal (Clear)
Hyperuricosuria	WT/WT	Normal (Clear)
Intervertebral Disc Disease Risk Factor and Chondrodystrophy (CDDY with IVDD)	WT/WT	Normal (Clear)
Intestinal Cobalamin Malabsorption (Border Collie Type)	WT/WT	Normal (Clear)
Junctional Epidermolysis Bullosa (Australian Shepherd Type)	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)
Von Willebrand Disease I	WT/WT	Normal (Clear)

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Coat Colors & Traits

Trait Name	Genotype	Interpretation
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**	**Brown coat, nose and foot pads (carries two copies of brown)**
B Locus (Brown) - b^a	0	
B Locus (Brown) - b^c	0	
B Locus (Brown) - b^d	0	
B Locus (Brown) - b^h	0	
B Locus (Brown) - b^e	0	
B Locus (Brown) - b^s	2	
Brachycephaly	**BR/BR**	**Likely medium to long muzzle**
Chondrodysplasia (CDPA)	**cd/cd**	**Likely typical leg length**
Co Locus (Cocoa, French Bulldog Type)	**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 (does not carry dilute)**
D Locus (Dilute) - d^1	0	
D Locus (Dilute) - d^2	0	
D Locus (Dilute) - d^3	0	
E Locus	**E^m/E**	**Melanistic Mask - Carrier (Black)**

E Locus - E^m (Melanistic Mask)	1	
E Locus - E^g (Grizzle, Afghan Hound Type)	0	
E Locus - E^h (Sable, Cocker Spaniel Type)	0	
E Locus - e^A (Ancient Red, Spitz and Scent Hound Type)	0	
E Locus - e^1 (Yellow/Red)	0	
E Locus - e^2 (Cream, Australian Cattle Dog Type)	0	
E Locus - e^3 (White, Alaskan and Siberian Husky Type)	0	

H Locus (Harlequin, Great Dane Type)	**h/h**	**No harlequin**
Hairlessness	**Rh/Rh**	**Coated**

Hairlessness (American Hairless Terrier Type) - rh^1	0	
Hairlessness (Scottish Deerhound Type) - rh^2	0	

Hr Locus (FOXI3 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)	**Lh^1/Lh^1**	**Longhaired (carries two copies of long hair)**

L Locus (Long Hair/Fluffy) - Lh^1	2	
L Locus (Long Hair/Fluffy) - Lh^2	0	
L Locus (Long Hair/Fluffy) - Lh^3	0	
L Locus (Long Hair/Fluffy) - Lh^4	0	

M Locus (Merle)	**m/m**	**Non merle**
Polydactyly (Common Variant)	**pd/pd**	**Normal (typical) toes (likely no hind dewclaws)**

Polydactyly (Great Pyrenees Type)	**WT/WT**	**Normal (Clear)**
R Locus (Roan/Ticked)	**r/r**	**No roan or ticking**
R Locus (Roan/Ticked) - R^{Ti}	0	
R Locus (Roan/Ticked) - R	0	
S Locus (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**
Social Behavior	**WT/M; WT/WT**	**May demonstrate more social behavior**
Social Behavior, Variant 1	1	
Social Behavior, Variant 2	0	
T Locus (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	Genotype	Interpretation
Acral Mutilation Syndrome	**WT/WT**	Normal (Clear)
Acute Respiratory Distress Syndrome	**WT/WT**	Normal (Clear)
Adult Paroxysmal Dyskinesia	**WT/WT**	Normal (Clear)

Afibrinogenemia (Dachshund Type)	**WT/WT**	Normal (Clear)
Alaskan Husky Encephalopathy	**WT/WT**	Normal (Clear)
Alaskan Malamute Polyneuropathy	**WT/WT**	Normal (Clear)
Amelogenesis Imperfecta (Italian Greyhound Type)	**WT/WT**	Normal (Clear)
Amelogenesis Imperfecta (Parson Russell Terrier Type)	**WT/WT**	Normal (Clear)
Ataxia (Norwegian Buhund Type)	**WT/WT**	Normal (Clear)
Benign Familial Juvenile Epilepsy	**WT/WT**	Normal (Clear)
Bernard-Soulier Syndrome	**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)
Cardiomyopathy and Juvenile Mortality	**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 Ataxia 1 (Belgian Shepherd Type)	**WT/WT**	Normal (Clear)
Cerebellar Ataxia 2 (Belgian Shepherd Type)	**WT/WT**	Normal (Clear)
Cerebellar Cortical Degeneration	**WT/WT**	Normal (Clear)
Cerebellar Degeneration	**WT/WT**	Normal (Clear)

Charcot-Marie-Tooth Disease	**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 Macrothrombocytopenia (Cairn and Norfolk Terrier Type)	**WT/WT**	Normal (Clear)
Congenital Methemoglobinemia	**WT/WT**	Normal (Clear)
Congenital Myasthenic Syndrome (Golden Retriever Type)	**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)

Copper Storage Disease	**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 (Miniature Pinscher Type)	**WT/WT**	Normal (Clear)
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)
Darier Disease and Associated Infundibular Cyst Formation	**WT/WT**	Normal (Clear)
Deafness and Vestibular Dysfunction (Doberman Pinscher Type), Variant 2	**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/WT**	Normal (Clear)
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 (Basset Hound Type)	**WT/WT**	Normal (Clear)
Dystrophic Epidermolysis Bullosa (Golden Retriever Type)	**WT/WT**	Normal (Clear)
Early Onset Adult Deafness (Rhodesian Ridgeback Type)	**WT/WT**	Normal (Clear)
Early Retinal Degeneration	**WT/WT**	Normal (Clear)
Early-Onset Epilepsy (Parson Russell Terrier Type)	**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 (Doberman Pinscher Type)	**WT/WT**	Normal (Clear)
Ehlers-Danlos Syndrome (Labrador Retriever Type), Variant 1	**WT/WT**	Normal (Clear)
Ehlers-Danlos Syndrome (Labrador Retriever Type), Variant 2	**WT/WT**	Normal (Clear)
Ehlers-Danlos Syndrome (Poodle Type, Variants 1 and 2)	**WT/WT**	Normal (Clear)
Ehlers-Danlos Syndrome (Poodle Type), Variant 1	0	
Ehlers-Danlos Syndrome (Poodle Type), 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)
Exfoliative Cutaneous Lupus Erythematosus (ECLE)	**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)
GM2 Gangliosidosis (Shiba Inu 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 A (Rhodesian Ridgeback Type)	**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 Ataxia (Australian Shepherd Type)	**WT/WT**	Normal (Clear)
Hereditary Cataracts (Australian Shepherd Type)	**WT/WT**	Normal (Clear)
Hereditary Cataracts	**WT/WT**	Normal (Clear)
Hereditary Cataracts (Wirehaired Pointing Griffon Type)	**WT/WT**	Normal (Clear)
Hereditary Footpad Hyperkeratosis (Irish Terrier and Kromfohrländer Type)	**WT/WT**	Normal (Clear)
Hereditary Footpad Hyperkeratosis (Rottweiler Type)	**WT/WT**	Normal (Clear)

Hereditary Nasal Parakeratosis (Greyhound Type)	WT/WT	Normal (Clear)
Hereditary Nasal Parakeratosis (Labrador Retriever 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 (Golden Retriever Type 2)	WT/WT	Normal (Clear)
Ichthyosis (Great Dane Type)	WT/WT	Normal (Clear)
Ichthyosis (Jack Russell Terrier Type)	WT/WT	Normal (Clear)
Inflammatory Myopathy (Shepherd 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)
Intestinal Cobalamin Malabsorption (Giant Schnauzer Type)	WT/WT	Normal (Clear)
Intestinal Lipid Malabsorption	WT/WT	Normal (Clear)
Junctional Epidermolysis Bullosa (Australian Shepherd Type)	WT/WT	Normal (Clear)
Juvenile Laryngeal Paralysis and Polyneuropathy (Black Russian Terrier Type)	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)
L-2-Hydroxyglutaric Aciduria (Yorkshire Terrier Type)	WT/WT	Normal (Clear)
Lagotto Storage Disorder	WT/WT	Normal (Clear)
Laryngeal Paralysis and Polyneuropathy (Leonberger Type 3)	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)
Limb-Girdle Muscular Dystrophy (Dachshund Type)	WT/WT	Normal (Clear)
Lundehund Syndrome	WT/WT	Normal (Clear)
Macular Corneal Dystrophy (Labrador Retriever Type)	WT/WT	Normal (Clear)
Mammary Tumors (English Springer Spaniel Type Risk Factor)	WT/WT	Normal (Clear)
May-Hegglin Anomaly	WT/WT	Normal (Clear)
Microphthalmia (Soft Coated Wheaten Terrier Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis I (Boston Terrier Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis I (Plott Hound Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis IIIA (Dachshund Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis IIIA (New Zealand Huntaway Type)	WT/WT	Normal (Clear)

Mucopolysaccharidosis IIIB (Schipperke Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis VI (Miniature Schnauzer Type)	WT/WT	Normal (Clear)
Mucopolysaccharidosis VII (Brazilian Terrier 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 Type)	WT/WT	Normal (Clear)
Myotonia Congenita (Australian Cattle Dog Type)	WT/WT	Normal (Clear)
Myotonia Congenita (Labrador Retriever Type)	WT/WT	Normal (Clear)
Myotonia Congenita (Schnauzer Type)	WT/WT	Normal (Clear)
Myotubular Myopathy 1 (Boykin Spaniel Type)	WT/WT	X-Linked Female Normal
Myotubular Myopathy 1 (Labrador Retriever Type)	WT/WT	X-Linked Female Normal
Myotubular Myopathy 1 (Rottweiler Type)	WT/WT	X-Linked Female Normal
Narcolepsy (Dachshund Type)	WT/WT	Normal (Clear)
Narcolepsy (Doberman Pinscher Type)	WT/WT	Normal (Clear)
Narcolepsy (Labrador Retriever Type)	WT/WT	Normal (Clear)

Neonatal Ataxia	**WT/WT**	Normal (Clear)
Neonatal Cerebellar Cortical Degeneration	**WT/WT**	Normal (Clear)
Neonatal Encephalopathy with Seizures	**WT/WT**	Normal (Clear)
Neuroaxonal Dystrophy (Giant Schnauzer Type)	**WT/WT**	Normal (Clear)
Neuroaxonal Dystrophy (Papillon Type)	**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 (Cane Corso 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 (Golden Retriever Type)	**WT/WT**	Normal (Clear)
Neuronal Ceroid Lipofuscinosis 5 (Herding Dog 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)

Nonsyndromic Hearing Loss (Rottweiler Type)	**WT/WT**	Normal (Clear)
Oculocutaneous Albinism (Doberman Pinscher Type)	**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)	**WT/WT**	Normal (Clear)
Osteogenesis Imperfecta (Golden Retriever Type)	**WT/WT**	Normal (Clear)
P2RY12 Receptor Platelet Disorder	**WT/WT**	Normal (Clear)
Pancreatitis (Miniature Schnauzer Type Risk Factor)	**WT/WT**	Normal (Clear)
Pancreatitis (Miniature Schnauzer Type Risk Factor), Variant 1	0	
Pancreatitis (Miniature Schnauzer Type Risk Factor), Variant 2	0	
Pancreatitis (Miniature Schnauzer Type Risk Factor), Variant 3	0	
Pembroke Welsh Corgi Duchenne Muscular Dystrophy	**WT/WT**	X-Linked Female Normal
Persistent Müllerian Duct Syndrome	**WT/WT**	Normal (Clear)
Pituitary Dwarfism (Shepherd Type)	**WT/WT**	Normal (Clear)
Polyneuropathy (Leonberger Type 1)	**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 (Alaskan Malamute Type)	**WT/WT**	Normal (Clear)
Primary Ciliary Dyskinesia (Old English Sheepdog Type)	**WT/WT**	Normal (Clear)
Primary Hyperoxaluria	**WT/WT**	Normal (Clear)
Primary Lens Luxation	**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	**WT/WT**	Normal (Clear)
Primary Open Angle Glaucoma (Norwegian Elkhound Type)	**WT/WT**	Normal (Clear)
Primary Open Angle Glaucoma and Primary Lens Luxation (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 (Dachshund Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 1 (American Staffordshire Terrier Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 2 (American Staffordshire Terrier Type)	**WT/WT**	Normal (Clear)

Progressive Retinal Atrophy, Cone-Rod Dystrophy 3 (Glen of Imaal Terrier Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Cone-Rod Dystrophy 4	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Early Onset (Spanish Water Dog Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Early-Onset (Portuguese Water Dog Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, Generalized (Schapendoes Type)	**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, Late-Onset (Lapponian Herder Type)	**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 (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, Syndromic Retinal Degeneration (Shetland Sheepdog Type)	**WT/WT**	Normal (Clear)
Progressive Retinal Atrophy, X-Linked 1 (Husky Type)	**WT/WT**	X-Linked Female Normal
Progressive Retinal Atrophy, X-linked 2	**WT/WT**	X-Linked Female Normal

Protein Losing Nephropathy	**WT/WT, WT/WT**	Normal (Clear) - No Increased Risk
Protein Losing Nephropathy (Variant 1)	0	
Protein Losing Nephropathy (Variant 2)	0	
Pyruvate Dehydrogenase Deficiency	**WT/WT**	Normal (Clear)
Pyruvate Kinase Deficiency (Basenji Type)	**WT/WT**	Normal (Clear)
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)
Pyruvate Kinase Deficiency (Terrier Type)	**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)	No Result	No Result
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	**WT/WT**	Normal (Clear)
Spinocerebellar Ataxia (Alpine Dachsbrake Type)	**WT/WT**	Normal (Clear)
Spinocerebellar Ataxia (Terrier Type)	**WT/WT**	Normal (Clear)
Spondylocostal Dysostosis	**WT/WT**	Normal (Clear)
Stargardt Disease	**WT/WT**	Normal (Clear)
Startle Disease	**WT/WT**	Normal (Clear)
Subacute Necrotizing Encephalopathy (Yorkshire Terrier Type)	**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)
Ullrich Congenital Muscular Dystrophy (Labrador Retriever Type 1)	**WT/WT**	Normal (Clear)
Ullrich Congenital Muscular Dystrophy (Labrador Retriever Type 2)	**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)
Von Willebrand Disease III (Shetland Sheepdog Type)	**WT/WT**	Normal (Clear)

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