



Demographic Information

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|-----------------|--------------------------|---------------------|---------------|
| Call Name | Jili | DOB | July 16, 2018 |
| Registered Name | Jili of Night Eyes NAIDs | Registration Number | |
| Breed | Siberian Husky | Tattoo | |
| Sex | Female | Microchip | |
| Owner | shirley Allen | Laboratory # | 407329 |
| | | Report Date | July 10, 2023 |

These tests were developed and performed by Paw Print Genetics®, Spokane WA.

Explanation of Results

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| 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 |
|---|-------|-----------------------|
| <u>Cone Degeneration</u> | WT/WT | Normal (Clear) |
| <u>Degenerative Myelopathy (Common Variant)</u> | WT/WT | Normal (Clear) |

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

Coat Colors & Traits

| Trait Name | Geno. | Interpretation |
|-------------------------|--------------------------------|---|
| <u>A Locus (Agouti)</u> | A ^w /A ^w | Wolf sable/gray |
| <u>B Locus (Brown)</u> | B/b | Black coat, nose and foot pads (carries brown) |

| | |
|----------------------------------|---|
| B Locus (Brown) - b ^a | 0 |
| B Locus (Brown) - b ^c | 0 |
| B Locus (Brown) - b ^d | 0 |
| B Locus (Brown) - b ^s | 1 |

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| <u>Brachycephaly</u> | BR/BR | Likely medium to long muzzle |
| <u>Co Locus (Cocoa, French Bulldog Type)</u> | CO/CO | Black coat, nose and foot pads (does not carry cocoa) |
| <u>Cu Locus (Curly Hair)</u> | Cu/Cu | Straight coat |
| <u>D Locus (Dilute)</u> | D/D | Non dilute |
| D Locus (Dilute) - d ¹ D Locus (Dilute) - d ² | 0 0 | |
| <u>E Locus (Yellow/Red)</u> | E/e | Black (carries yellow/red) |
| <u>E^g Locus (Grizzle, Afghan Hound Type)</u> | N/N | No grizzle |
| <u>E^m Locus (Melanistic Mask)</u> | N/N | No melanistic mask |
| <u>H Locus (Harlequin, Great Dane Type)</u> | h/h | No harlequin |
| <u>K Locus (Dominant Black)</u> | K ^B /k ^y | No agouti expression allowed (carrier) |
| <u>L Locus (Long Hair/Fluffy) - Lh¹, Lh²</u> | Lh/Lh | Longhaired |
| L Locus (Long Hair/Fluffy) - Lh ¹ L Locus (Long Hair/Fluffy) - Lh ² | 1 1 | |
| <u>Polydactyly</u> | PD/pd | Likely polydactylous with hind dewclaws (typical toes carrier) |
| <u>SD Locus (Shedding)</u> | SD/SD | High shedding |

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| <u>Sex Determination - ZFX/Y</u> | X/X | Female |
| <u>T Locus (Natural Bobtail)</u> | 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 |
|---|-------|----------------|
| <u>Alaskan Husky Encephalopathy</u> | WT/WT | Normal (Clear) |
| <u>Alaskan Malamute Polyneuropathy</u> | WT/WT | Normal (Clear) |
| <u>Amelogenesis Imperfecta</u> | WT/WT | Normal (Clear) |
| <u>Benign Familial Juvenile Epilepsy</u> | WT/WT | Normal (Clear) |
| <u>Canine Multiple System Degeneration (Chinese Crested Type)</u> | WT/WT | Normal (Clear) |
| <u>Canine Multiple System Degeneration (Kerry Blue Terrier Type)</u> | WT/WT | Normal (Clear) |
| <u>Cerebellar Ataxia (Finnish Hound Type)</u> | WT/WT | Normal (Clear) |
| <u>Chondrodysplasia (Karelian Bear Dog and Norwegian Elkhound Type)</u> | WT/WT | Normal (Clear) |
| <u>Coagulation Factor VII Deficiency</u> | WT/WT | Normal (Clear) |
| <u>Collie Eye Anomaly</u> | WT/WT | Normal (Clear) |
| <u>Complement 3 Deficiency</u> | WT/WT | Normal (Clear) |
| <u>Cone Degeneration</u> | WT/WT | Normal (Clear) |
| <u>Cone Degeneration (German Shorthaired Pointer Type)</u> | WT/WT | Normal (Clear) |

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| <u>Congenital Myasthenic Syndrome (Labrador Retriever Type).</u> | WT/WT | Normal (Clear) |
| <u>Congenital Myasthenic Syndrome (Old Danish Pointer Type).</u> | WT/WT | Normal (Clear) |
| <u>Congenital Stationary Night Blindness</u> | WT/WT | Normal (Clear) |
| <u>Cyclic Neutropenia</u> | WT/WT | Normal (Clear) |
| <u>Cystinuria (Australian Cattle Dog Type).</u> | WT/WT | Normal (Clear) |
| <u>Cystinuria (Labrador Retriever Type).</u> | No Result | No Result |
| <u>Cystinuria (Miniature Pinscher Type).</u> | No Result | No Result |
| <u>Cystinuria (Newfoundland Type).</u> | WT/WT | Normal (Clear) |
| <u>Degenerative Myelopathy (Common Variant).</u> | WT/WT | Normal (Clear) |
| <u>Degenerative Myelopathy Early-Onset Risk Modifier (Pembroke Welsh Corgi Type).</u> | WT/WT | Normal (Clear) |
| <u>Dilated Cardiomyopathy (Doberman Pinscher Type Risk Factor, Variant 1).</u> | WT/WT | Normal (Clear) |
| <u>Dry Eye Curly Coat Syndrome</u> | WT/WT | Normal (Clear) |
| <u>Dystrophic Epidermolysis Bullosa</u> | WT/WT | Normal (Clear) |
| <u>Early Retinal Degeneration</u> | WT/WT | Normal (Clear) |
| <u>Ectodermal Dysplasia (Chesapeake Bay Retriever Type).</u> | WT/WT | Normal (Clear) |
| <u>Ectodermal Dysplasia, X-Linked (Shepherd Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Elliptocytosis</u> | WT/WT | Normal (Clear) |
| <u>Epidermolytic Hyperkeratosis</u> | WT/WT | Normal (Clear) |
| <u>Episodic Falling Syndrome</u> | WT/WT | Normal (Clear) |
| <u>Exercise-Induced Collapse</u> | WT/WT | Normal (Clear) |

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| <u>Familial Nephropathy (Cocker Spaniel Type).</u> | WT/WT | Normal (Clear) |
| <u>Familial Nephropathy (English Springer Spaniel Type).</u> | WT/WT | Normal (Clear) |
| <u>Gallbladder Mucoceles</u> | WT/WT | Normal (Clear) |
| <u>Glanzmann's Thrombasthenia (Great Pyrenees Type).</u> | WT/WT | Normal (Clear) |
| <u>Glanzmann's Thrombasthenia (Otterhound Type).</u> | WT/WT | Normal (Clear) |
| <u>Globoid Cell Leukodystrophy (Irish Setter Type).</u> | WT/WT | Normal (Clear) |
| <u>Globoid Cell Leukodystrophy (Terrier Type).</u> | WT/WT | Normal (Clear) |
| <u>Glycogen Storage Disease Ia</u> | WT/WT | Normal (Clear) |
| <u>Glycogen Storage Disease IIIa</u> | WT/WT | Normal (Clear) |
| <u>Glycogen Storage Disease VII (Wachtelhund Type).</u> | WT/WT | Normal (Clear) |
| <u>Glycogen Storage Disease VII, PFK Deficiency</u> | WT/WT | Normal (Clear) |
| <u>GM1 Gangliosidosis (Alaskan Husky Type).</u> | WT/WT | Normal (Clear) |
| <u>GM1 Gangliosidosis (Portuguese Water Dog Type).</u> | WT/WT | Normal (Clear) |
| <u>GM1 Gangliosidosis (Shiba Inu Type).</u> | WT/WT | Normal (Clear) |
| <u>GM2 Gangliosidosis (Japanese Chin Type).</u> | WT/WT | Normal (Clear) |
| <u>GM2 Gangliosidosis (Poodle Type).</u> | WT/WT | Normal (Clear) |
| <u>Greyhound Polyneuropathy</u> | WT/WT | Normal (Clear) |
| <u>Hemophilia A (Boxer Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Hemophilia A (German Shepherd Dog, Type 1).</u> | WT/WT | X-Linked Female Normal |

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|--|-------|------------------------|
| <u>Hemophilia A (German Shepherd Dog, Type 2).</u> | WT/WT | X-Linked Female Normal |
| <u>Hemophilia B (Cairn Terrier Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Hemophilia B (Lhasa Apso Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Hemophilia B (Rhodesian Ridgeback Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Hereditary Cataracts (Australian Shepherd Type).</u> | WT/WT | Normal (Clear) |
| <u>Hereditary Cataracts</u> | WT/WT | Normal (Clear) |
| <u>Hereditary Footpad Hyperkeratosis (Irish Terrier and Kromfohländer Type).</u> | WT/WT | Normal (Clear) |
| <u>Hereditary Nasal Parakeratosis</u> | WT/WT | Normal (Clear) |
| <u>Hereditary Nephritis (Samoyed Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Hyperuricosuria</u> | WT/WT | Normal (Clear) |
| <u>Ichthyosis (American Bulldog Type).</u> | WT/WT | Normal (Clear) |
| <u>Ichthyosis (Golden Retriever Type 1).</u> | WT/WT | Normal (Clear) |
| <u>Ichthyosis (Golden Retriever Type 2).</u> | WT/WT | Normal (Clear) |
| <u>Inherited Myopathy of Great Danes</u> | WT/WT | Normal (Clear) |
| <u>Intestinal Cobalamin Malabsorption (Beagle Type).</u> | WT/WT | Normal (Clear) |
| <u>Intestinal Cobalamin Malabsorption (Border Collie Type).</u> | WT/WT | Normal (Clear) |
| <u>Juvenile Laryngeal Paralysis and Polyneuropathy</u> | WT/WT | Normal (Clear) |
| <u>Juvenile Myoclonic Epilepsy (Rhodesian Ridgeback Type).</u> | WT/WT | Normal (Clear) |

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| <u>L-2-Hydroxyglutaric Aciduria (Staffordshire Bull Terrier Type).</u> | WT/WT | Normal (Clear) |
| <u>Late Onset Ataxia</u> | WT/WT | Normal (Clear) |
| <u>Leukocyte Adhesion Deficiency, Type I</u> | WT/WT | Normal (Clear) |
| <u>Leukocyte Adhesion Deficiency, Type III</u> | WT/WT | Normal (Clear) |
| <u>Ligneous Membranitis</u> | WT/WT | Normal (Clear) |
| <u>May-Hegglin Anomaly</u> | WT/WT | Normal (Clear) |
| <u>Mucopolysaccharidosis I</u> | WT/WT | Normal (Clear) |
| <u>Mucopolysaccharidosis IIIA (Dachshund Type).</u> | WT/WT | Normal (Clear) |
| <u>Mucopolysaccharidosis IIIA (New Zealand Huntaway Type).</u> | WT/WT | Normal (Clear) |
| <u>Mucopolysaccharidosis VII (Shepherd Type).</u> | WT/WT | Normal (Clear) |
| <u>Multidrug Resistance 1</u> | WT/WT | Normal (Clear) |
| <u>Multifocal Retinopathy 1</u> | WT/WT | Normal (Clear) |
| <u>Multifocal Retinopathy 2</u> | WT/WT | Normal (Clear) |
| <u>Multifocal Retinopathy 3</u> | WT/WT | Normal (Clear) |
| <u>Muscular Dystrophy (Golden Retriever Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Musladin-Lueke Syndrome</u> | WT/WT | Normal (Clear) |
| <u>Myostatin Deficiency (Whippet and Longhaired Whippet Type).</u> | WT/WT | Normal (Clear) |
| <u>Myotonia Congenita (Australian Cattle Dog Type).</u> | WT/WT | Normal (Clear) |
| <u>Myotonia Congenita (Schnauzer Type).</u> | WT/WT | Normal (Clear) |
| <u>Myotubular Myopathy 1</u> | WT/WT | X-Linked Female Normal |

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|---|-------|------------------------|
| <u>Narcolepsy_(Dachshund Type).</u> | WT/WT | Normal (Clear) |
| <u>Narcolepsy_(Doberman Pinscher Type).</u> | WT/WT | Normal (Clear) |
| <u>Narcolepsy_(Labrador Retriever Type).</u> | WT/WT | Normal (Clear) |
| <u>Neonatal Cerebellar Cortical Degeneration</u> | WT/WT | Normal (Clear) |
| <u>Neonatal Encephalopathy with Seizures</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis (Tibetan Terrier Type).</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 1 (Cane Corso Type).</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 1</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 10</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 2</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 4A</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 5 (Australian Cattle Dog/Border Collie Type).</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 6</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 8 (Australian Shepherd Type).</u> | WT/WT | Normal (Clear) |
| <u>Neuronal Ceroid Lipofuscinosis 8 (Setter Type).</u> | WT/WT | Normal (Clear) |
| <u>Osteogenesis Imperfecta (Beagle Type).</u> | WT/WT | Normal (Clear) |
| <u>Osteogenesis Imperfecta (Dachshund Type).</u> | WT/WT | Normal (Clear) |
| <u>Osteogenesis Imperfecta (Golden Retriever Type).</u> | WT/WT | Normal (Clear) |
| <u>P2RY12 Receptor Platelet Disorder</u> | WT/WT | Normal (Clear) |
| <u>Pembroke Welsh Corgi Duchenne Muscular Dystrophy.</u> | WT/WT | X-Linked Female Normal |

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| <u>Persistent Müllerian Duct Syndrome</u> | WT/WT | Normal (Clear) |
| <u>Polyneuropathy (Leonberger and Saint Bernard Type)</u> | WT/WT | Normal (Clear) |
| <u>Polyneuropathy (Leonberger Type 2)</u> | WT/WT | Normal (Clear) |
| <u>Pompe Disease</u> | No Result | No Result |
| <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>Progressive Retinal Atrophy (Basenji Type)</u> | WT/WT | Normal (Clear) |
| <u>Progressive Retinal Atrophy (Bullmastiff/Mastiff Type)</u> | WT/WT | Normal (Clear) |
| <u>Progressive Retinal Atrophy (Irish Setter Type)</u> | WT/WT | Normal (Clear) |
| <u>Progressive Retinal Atrophy (Sloughi Type)</u> | No Result | No Result |
| <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, 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 (Papillon Type)</u> | WT/WT | Normal (Clear) |

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| <u>Progressive Retinal Atrophy, Progressive Rod-Cone Degeneration (prcd).</u> | WT/WT | Normal (Clear) |
| <u>Progressive Retinal Atrophy, Rod-Cone Dysplasia 3</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Dehydrogenase Deficiency</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Kinase Deficiency (Basenji Type).</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Kinase Deficiency (Beagle Type).</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Kinase Deficiency (Labrador Retriever Type).</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Kinase Deficiency (Pug Type).</u> | WT/WT | Normal (Clear) |
| <u>Pyruvate Kinase Deficiency (Terrier Type).</u> | WT/WT | Normal (Clear) |
| <u>Renal Cystadenocarcinoma and Nodular Dermatofibrosis</u> | WT/WT | Normal (Clear) |
| <u>Severe Combined Immunodeficiency Disease (Terrier Type).</u> | WT/WT | Normal (Clear) |
| <u>Severe Combined Immunodeficiency Disease (Wetterhoun Type).</u> | WT/WT | Normal (Clear) |
| <u>Severe Combined Immunodeficiency Disease, X-Linked (Basset Hound Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Severe Combined Immunodeficiency Disease, X-Linked (Corgi Type).</u> | WT/WT | X-Linked Female Normal |
| <u>Shar-Pei Autoinflammatory Disease</u> | WT/WT | Normal (Clear) |
| <u>Skeletal Dysplasia 2</u> | WT/WT | Normal (Clear) |
| <u>Spinal Dysraphism</u> | WT/WT | Normal (Clear) |
| <u>Spinocerebellar Ataxia</u> | WT/WT | Normal (Clear) |
| <u>Startle Disease</u> | WT/WT | Normal (Clear) |
| <u>Thrombopathia (American Eskimo Dog Type).</u> | WT/WT | Normal (Clear) |
| <u>Thrombopathia (Basset Hound Type).</u> | WT/WT | Normal (Clear) |

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| <u>Thrombopathia (Newfoundland Type)</u> | WT/WT | Normal (Clear) |
| <u>Trapped Neutrophil Syndrome</u> | WT/WT | Normal (Clear) |
| <u>Von Willebrand Disease I</u> | WT/WT | Normal (Clear) |
| <u>Von Willebrand Disease II</u> | WT/WT | Normal (Clear) |
| <u>Von Willebrand Disease III (Kooikerhondje Type)</u> | WT/WT | Normal (Clear) |
| <u>Von Willebrand Disease III (Scottish Terrier Type)</u> | WT/WT | Normal (Clear) |
| <u>Von Willebrand Disease III (Shetland Sheepdog Type)</u> | WT/WT | Normal (Clear) |

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



Helen F Smith, PhD

Associate Laboratory Director



Christina J Ramirez, PhD, DVM, DACVP

Medical Director

Canine HealthCheck® is a product of Paw Print Genetics®. This test was developed and its performance determined by Paw Print Genetics. This laboratory has established and verified the test's accuracy and precision with >99% sensitivity and specificity. The results included in this report relate only to the items tested using the sample provided. The presence of mosaicism may not be detected by this test. Non-paternity may lead to unexpected results. This is not a diagnostic test. This is not a breed identification test. Because all tests are DNA-based, rare genomic variations may interfere with the performance of some individual tests producing false results. If you think any results are in error, please contact the laboratory for further evaluation.