



## Results for Kimber

### Kimber's demographic profile:

Call Name:	Kimber	Owner:	Tami Koester
Registered Name:	Rumour Has It KK Kimber	Registration #:	-
Breed:	Miniature Australian Shepherd	Microchip/Tattoo:	-
Sex:	Female	Kit #:	23082
Approx. DOB:	March, 2018	Report Date:	March 20, 2019

### Kimber's genetic health profile:

- ✓ Kimber is a **carrier** for the following 2 diseases:
  - [Multidrug resistance 1](#)
    - ⚠ **Carriers for this mutation may be at-risk.**
  - [Progressive retinal atrophy, Progressive rod-cone degeneration](#)
- ✓ Kimber had a normal result for all other diseases tested

### Kimber's appearance profile:

- ✓ Kimber is a **Female**
- ✓ Kimber's coat is likely **Straight** and **Brown with tan points** in color
- ✓ Kimber's face likely **Has a Mask on the Muzzle** and a **Brown** nose
- ✓ Kimber's tail is likely **Normal** in length

**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.
- At-Risk** An "at-risk" result indicates that your dog may have inherited one or two copies of the mutation that has been reported to cause this genetic disease. Depending on the mode of genetic inheritance for this particular disease, inheriting one **or** two mutant copies of the gene may result in the disease. *You may want to consider ordering follow-up testing to confirm the results of this initial screen for any dog that is "at-risk" for a disease.*
- Failed** A "failed" 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 fail. However, we promise to provide at least 150 results to you for your dog.

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

## Blood and Clotting

Coagulation factor VII deficiency	Normal
Elliptocytosis	Normal
Glanzmann's thrombasthenia (Great Pyrenees type)	Normal
Glanzmann's thrombasthenia (Otterhound type)	Normal
Glycogen storage disease VII (Wachtelhund type)	Normal
Hemophilia A (Boxer type)	Normal
Hemophilia A (German Shepherd Dog, type 1)	Normal
Hemophilia A (German Shepherd Dog, type 2)	Normal
Hemophilia B (Cairn Terrier type)	Normal
Hemophilia B (Lhasa Apso type)	Normal
Hemophilia B (Rhodesian Ridgeback type)	Normal
Leukocyte adhesion deficiency, type III	Normal
May-Hegglin anomaly	Normal
P2RY12 receptor platelet disorder	Normal
Prekallikrein deficiency	Normal
Pyruvate kinase deficiency (Basenji type)	Normal
Pyruvate kinase deficiency (Beagle type)	Normal
Pyruvate kinase deficiency (Labrador Retriever type)	Normal
Pyruvate kinase deficiency (Pug type)	Normal
Pyruvate kinase deficiency (Terrier type)	Normal
Thrombopathia (American Eskimo Dog type)	Normal
Thrombopathia (Basset Hound type)	Normal
Thrombopathia (Newfoundland type)	Normal
Von Willebrand disease I	Normal
Von Willebrand disease II	Failed
Von Willebrand disease III (Kooikerhondje type)	Normal
Von Willebrand disease III (Scottish Terrier type)	Normal

## Cancer

Renal cystadenocarcinoma and nodular dermatofibrosis	Normal
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## Dental

Amelogenesis imperfecta	Normal
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## Drug Metabolism

Multidrug resistance 1	At-Risk Carrier
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## Eyes

Collie eye anomaly	Normal
Cone degeneration	Normal
Cone degeneration (German Shorthaired Pointer type)	Normal
Congenital stationary night blindness	Normal
Dry eye curly coat syndrome	Normal
Early retinal degeneration	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
GM2 Gangliosidosis (Poodle type)	Normal
Hereditary cataracts	Normal
Hereditary cataracts (Australian Shepherd type)	Normal
Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
Multifocal retinopathy 1	Normal
Multifocal retinopathy 2	Normal
Multifocal retinopathy 3	Normal
Primary lens luxation	Normal
Primary open angle glaucoma	Normal
Progressive retinal atrophy (Basenji type)	Normal
Progressive retinal atrophy (Bullmastiff/Mastiff type)	Normal
Progressive retinal atrophy (Irish Setter type)	Normal
Progressive retinal atrophy (Sloughi type)	Normal
Progressive retinal atrophy, Cone-rod dystrophy 1	Normal
Progressive retinal atrophy, Cone-rod dystrophy 3	Normal
Progressive retinal atrophy, Golden Retriever 1	Normal
Progressive retinal atrophy, Golden Retriever 2	Normal
Progressive retinal atrophy, PRA1 (Papillon type)	Normal
Progressive retinal atrophy, Progressive rod-cone degeneration	Carrier
Progressive retinal atrophy, Rod-cone dysplasia 3	Normal
Progressive retinal atrophy, generalized	Normal

## Heart

Dilated cardiomyopathy	Failed
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## Immune System

Complement 3 deficiency	Normal
Leukocyte adhesion deficiency, type I	Normal
Leukocyte adhesion deficiency, type III	Normal
Primary ciliary dyskinesia	Normal
Severe combined immunodeficiency disease (Terrier type)	Normal
Severe combined immunodeficiency disease (Wetterhoun type)	Normal
Severe combined immunodeficiency disease, X-linked (Basset Hound type)	Normal

Severe combined immunodeficiency disease, X-linked (Corgi type)  
Trapped neutrophil syndrome

Normal  
Normal

## Liver/Gastrointestinal

Gallbladder mucoceles Normal  
Glycogen storage disease IIIa Normal  
Intestinal cobalamin malabsorption (Beagle type) Normal  
Intestinal cobalamin malabsorption (Border Collie type) Normal

## Metabolic

Adult-onset neuronal ceroid lipofuscinosis Normal  
GM1 Gangliosidosis (Alaskan Husky type) Normal  
GM1 Gangliosidosis (Portuguese Water Dog type) Normal  
GM1 Gangliosidosis (Shiba Inu type) Normal  
GM2 Gangliosidosis (Japanese Chin type) Normal  
GM2 Gangliosidosis (Poodle type) Normal  
Globoid cell leukodystrophy (Irish Setter type) Normal  
Globoid cell leukodystrophy (Terrier type) Normal  
Glycogen storage disease IIIa Normal  
Glycogen storage disease Ia Normal  
Glycogen storage disease VII (Wachtelhund type) Normal  
Intestinal cobalamin malabsorption (Beagle type) Normal  
Intestinal cobalamin malabsorption (Border Collie type) Normal  
L-2-hydroxyglutaric aciduria (Staffordshire Bull Terrier type) Normal  
Mucopolysaccharidosis I Normal  
Mucopolysaccharidosis IIIA (Dachshund type) Normal  
Mucopolysaccharidosis IIIA (New Zealand Huntaway type) Normal  
Mucopolysaccharidosis VII (Shepherd type) Normal  
Neuronal ceroid lipofuscinosis 1 Normal  
Neuronal ceroid lipofuscinosis 10 Normal  
Neuronal ceroid lipofuscinosis 2 Normal  
Neuronal ceroid lipofuscinosis 4A Normal  
Neuronal ceroid lipofuscinosis 5 Normal  
Neuronal ceroid lipofuscinosis 6 Normal  
Neuronal ceroid lipofuscinosis 8 (Australian Shepherd type) Normal  
Neuronal ceroid lipofuscinosis 8 (Setter type) Normal  
Pompe disease Normal  
Pyruvate dehydrogenase deficiency Normal  
Pyruvate kinase deficiency (Basenji type) Normal  
Pyruvate kinase deficiency (Beagle type) Normal  
Pyruvate kinase deficiency (Labrador Retriever type) Normal  
Pyruvate kinase deficiency (Pug type) Normal  
Pyruvate kinase deficiency (Terrier type) Normal

## Midline Defect

Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
Spinal dysraphism (Weimaraner type)	Normal

## Musculoskeletal

Adult-onset neuronal ceroid lipofuscinosis	Normal
Alaskan Malamute polyneuropathy	Normal
Chondrodysplasia (Karelian Bear Dog and Norwegian Elkhound type)	Normal
Congenital myasthenic syndrome (Labrador Retriever type)	Normal
Congenital myasthenic syndrome (Old Danish Pointer type)	Normal
Degenerative myelopathy	Normal
Exercise-induced collapse	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
Glycogen storage disease IIIa	Normal
Glycogen storage disease VII (Wachtelhund type)	Normal
Greyhound polyneuropathy	Normal
Inherited myopathy of Great Danes	Normal
Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
Mucopolysaccharidosis I	Normal
Mucopolysaccharidosis VII (Shepherd type)	Normal
Muscular Dystrophy (Golden Retriever Type)	Normal
Myostatin deficiency (Whippet and Longhaired Whippet type)	Normal
Myotonia congenita (Australian Cattle Dog type)	Normal
Myotonia congenita (Schnauzer type)	Normal
Myotubular myopathy 1	Normal
Osteogenesis imperfecta (Beagle type)	Normal
Osteogenesis imperfecta (Golden Retriever type)	Normal
Polyneuropathy (Leonberger and Saint Bernard type)	Normal
Pompe disease	Normal
Skeletal dysplasia 2	Normal
Vitamin D dependent rickets, type II (Pomeranian type)	Normal

## Neurologic

Adult-onset neuronal ceroid lipofuscinosis	Normal
Alaskan Husky encephalopathy	Normal
Alaskan Malamute polyneuropathy	Normal
Benign familial juvenile epilepsy	Normal
Canine multiple system degeneration (Chinese Crested type)	Normal
Canine multiple system degeneration (Kerry Blue Terrier type)	Normal
Cerebellar ataxia (Finnish Hound type)	Normal
Congenital myasthenic syndrome (Labrador Retriever type)	Normal
Congenital myasthenic syndrome (Old Danish Pointer type)	Normal

Degenerative myelopathy	Normal
Exercise-induced collapse	Normal
GM1 Gangliosidosis (Alaskan Husky type)	Normal
GM1 Gangliosidosis (Portuguese Water Dog type)	Normal
GM1 Gangliosidosis (Shiba Inu type)	Normal
GM2 Gangliosidosis (Japanese Chin type)	Normal
GM2 Gangliosidosis (Poodle type)	Normal
Globoid cell leukodystrophy (Irish Setter type)	Normal
Globoid cell leukodystrophy (Terrier type)	Normal
Greyhound polyneuropathy	Normal
Juvenile Laryngeal Paralysis and Polyneuropathy	Normal
L-2-hydroxyglutaric aciduria (Staffordshire Bull Terrier type)	Normal
Late onset ataxia	Normal
Mucopolysaccharidosis I	Normal
Mucopolysaccharidosis IIIA (Dachshund type)	Normal
Mucopolysaccharidosis IIIA (New Zealand Huntaway type)	Normal
Myotonia congenita (Australian Cattle Dog type)	Normal
Myotonia congenita (Schnauzer type)	Normal
Narcolepsy (Dachshund type)	Normal
Narcolepsy (Doberman Pinscher type)	Normal
Narcolepsy (Labrador Retriever type)	Normal
Neonatal cerebellar cortical degeneration	Normal
Neonatal encephalopathy with seizures	Normal
Neuronal ceroid lipofuscinosis 1	Normal
Neuronal ceroid lipofuscinosis 10	Normal
Neuronal ceroid lipofuscinosis 2	Normal
Neuronal ceroid lipofuscinosis 4A	Normal
Neuronal ceroid lipofuscinosis 5	Normal
Neuronal ceroid lipofuscinosis 6	Normal
Neuronal ceroid lipofuscinosis 8 (Australian Shepherd type)	Normal
Neuronal ceroid lipofuscinosis 8 (Setter type)	Normal
Polyneuropathy (Leonberger and Saint Bernard type)	Normal
Sensory ataxic neuropathy	Normal
Spinocerebellar ataxia	Normal
Startle disease	Normal

## Neuromuscular

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Globoid cell leukodystrophy (Irish Setter type)	Normal
Globoid cell leukodystrophy (Terrier type)	Normal

## Reproduction

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Primary ciliary dyskinesia	Normal
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## Respiratory

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Primary ciliary dyskinesia Normal

## Skin and Hair

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Anhidrotic ectodermal dysplasia Normal

Dry eye curly coat syndrome Normal

Dystrophic epidermolysis bullosa Normal

Ectodermal dysplasia Normal

Epidermolytic hyperkeratosis Normal

Hereditary footpad hyperkeratosis (Irish Terrier and Kromfohrländer type) Normal

Hereditary nasal parakeratosis Normal

Ichthyosis (Golden Retriever type) Normal

Renal cystadenocarcinoma and nodular dermatofibrosis Normal

## Urinary Tract

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Cystinuria (Australian Cattle Dog type) Normal

Cystinuria (Miniature Pinscher type) Normal

Cystinuria (Newfoundland type) Failed

Familial nephropathy (Cocker Spaniel type) Normal

Familial nephropathy (English Springer Spaniel type) Normal

Hereditary nephritis (Samoyed type) Normal

Hyperuricosuria Normal

Persistent Müllerian duct syndrome Normal

Primary ciliary dyskinesia Normal

Primary hyperoxaluria Normal

Renal cystadenocarcinoma and nodular dermatofibrosis Normal