

CANINE BREED COMPOSITION ANALYSIS

CERTIFICATE

LEVEL 2
POODLE

LEVEL 4
BRITTANY

LEVEL 4
GERMAN SHEPHERD
DOG

PHOTO OF THE DOG
(OPTIONAL)

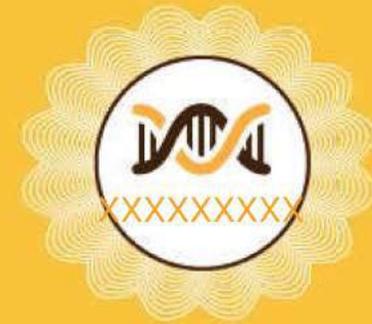


REX

DNA MY DOG

Certified breed analysis
and genetic makeup
for REX

Lab Ref# XXXXXXXXX



Pat Young

LABORATORY DIRECTOR

November 30, 2018

DATE OF ANALYSIS

CANINE BREED DETERMINATION

YOUR DOG'S UNIQUE DNA

REX

level
2



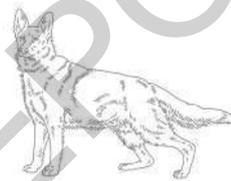
Poodle

level
4



Brittany

level
4



German ShepherdDog

level
2



Poodle

37% - 74%

Dignified and proud, the Poodle is normally highly intelligent and easily trained. They enjoy being with people. Some can be sensitive and high strung.

Poodles were originally bred as a water retriever to fetch waterfowl for hunters. To do this day, they love to have a job and purpose. Highly intelligent, Poodles are amazing when it comes to training. They also excel at dog sports such as agility, obedience, and hunt tests.

The Poodle is a very people-friendly dog who loves to be around their family and expect to be included in family activities. They may be reserved with strangers. If left alone for long periods of time, they can become lonely and potentially destructive. Early training will eliminate them thinking they are the alpha.

+ Major Health Concerns

Although generally healthy, the Poodle is subject to several genetic diseases. These may include cataracts and Progressive Retinal Atrophy (PRA) which may result in blindness. Allergies and skin conditions are common. They may also have Immune Mediated Hemolytic Anemia (IMHA), a blood disease in which the body's immune system attacks and kills it's own red blood cells.

— Interesting Facts

The poodle breed is found officially in toy, miniature, and standard sizes, with many coat colors.

level

4



Brittany

10% - 20%

The Brittany is a good-natured, sweet, and easily trained breed. They have a great joy for life and are enthusiastic in everything they do - whether that's playing, finding birds, or running.

Brittany's were originally bred as gundogs - they helped hunters find and retrieve game, especially birds. They are a hyperactive breed and almost always have energy to spare. Because of their high energy, Brittany's need plenty of exercise. They love to play and scout.

Brittany's are extremely task-oriented and love to have a job. They can be sensitive to stern treatment. A sharp command or a strict look are usually enough punishment when they are acting up. These dogs can become withdrawn or timid if not treated with kindness.

Their friendly nature makes them great family pets. They do well with children - just be sure they don't get over enthusiastic and accidentally injure them - and other pets.

+ Major Health Concerns

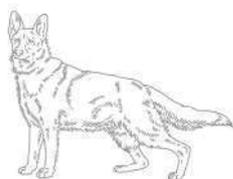
The Brittany is a generally healthy breed. They are prone to hip dysplasia, and sometimes may suffer from epilepsy.

- Interesting Facts

Although the Brittany is often referred to as a Spaniel, the breed's working characteristics are more akin to those of a pointer or setter.

level

4



German Shepherd Dog

10% - 20%

The German Shepherd Dog is intelligent and eager to please. They are devoted and fearless. They have a high learning ability and are extremely responsive to training.

One of the most popular dog breeds, the German Shepherd gained its stardom during World War I when Corporal Lee Duncan brought a puppy back to Los Angeles France, trained him, and turned him into Rin Tin Tin - one of the most famous dogs in show business.

In addition to celebrity, the German Shepherd holds many other jobs including guide dog, detectors of narcotics and bombs, search and rescue dogs, and therapy dogs due to their immense intelligent and strong work ethic. The German Shepherd also excels in many dog activities including schutzhund, tracking, obedience, agility, flyball, and ring sport.

If German Shepherds become bored or frustrated, they'll take it out on your home by chewing or barking excessively. They require plenty of exercise to keep their boredom at bay. German Shepherds are extremely loyal and protective of their families, and suspicious of strangers, especially in the company of their masters.

If not properly socialized at an early age, they can be unruly due to a lack of self-confidence. Through socialization and obedience training, though, they make amazing family dogs.

+ Major Health Concerns

The German Shepherd Dog is prone to hip and elbow dysplasia. They may also suffer from aortic Stenosis, an abnormal narrowing of the aortic valve, which may impede the flow of blood to the arteries. They may also have chronic eczema and flea allergies.

- Interesting Facts

German Shepherd Dogs come in a variety of colors including white, liver and blue.

The Canine Breed Determination test is designed for the sole purpose of identifying the breeds found in the genetic composition of the tested dog.

The test cannot determine whether or not a dog is purebred; it can merely identify DNA that matches the validated breeds that make up the laboratory's dog DNA database.

Your analysis has been compiled based on the results obtained from your DNA sample submission, and has been processed with a reasonable amount of certainty. It is possible that there have been some random changes within your dog's DNA which may have affected the results. The testing procedures and database are designed to recognize that this may happen and minimize any effect. It is understood that no analytical test is 100% accurate. The company is not responsible for any inferences made about any individual dog based upon the provided information.

The Canine Breed Determination test is based upon the laboratory's database of recognized breeds. If your dog contains other breeds, not in the database, it may give rise to the identification of breeds earlier in your pet's history and may therefore provide a seemingly unlikely result for your dog.

It is important to understand that each dog is uniquely individual. Two dogs with the same breeds detected in their DNA may exhibit drastically different physical traits. In terms of behavior and personality, while certain traits may generally be associated with specific breeds, behavior will also be influenced by environment, training and handling.

The enclosed behavior, health and personality summary is for informational purposes only, and is based on information publicly available on purebred dogs. This information is not intended to predict disease or behavior, but is intended solely as a guide to traits often found in the breeds identified in your dog. These traits may or may not be found in your individual dog.

Canine Genetic Age Test

Prepared For: John Smith
Owner Of: Rex

*PHOTO OF THE DOG
(OPTIONAL)*



November 30, 2018

Rex's Chronological Age: 3.7

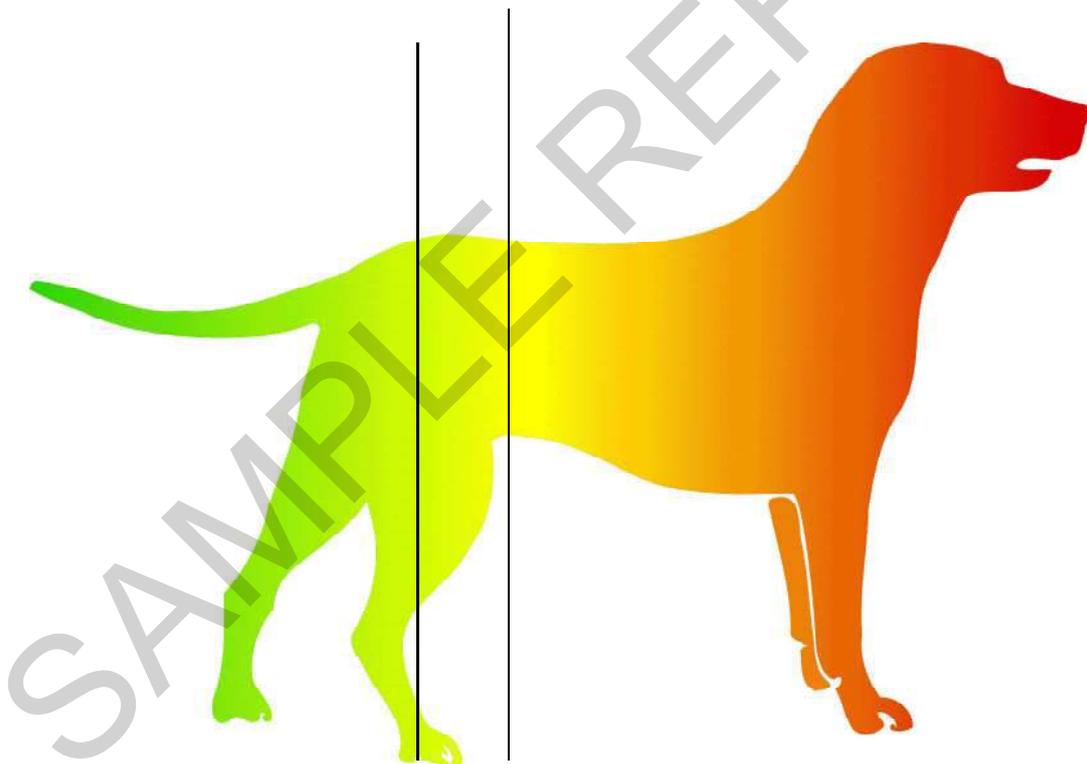
Size Group: 4

The *Canine Genetic Age Test* is designed to determine the biological age of your dog. Genetic or biological age is different than chronological or actual age in that genetic age gives insight into the predicted longevity of your dog from a cellular level.

Telomere shortening is involved in all aspects of the aging process on a cellular level. Telomere length represents your dog's *biological* age as opposed to your dog's *chronological* age.

This test was performed by measuring the length of Rex's telomeres, the dynamic, protective caps on the ends of r DNA strands that tend to shorten with age. The test measures Rex's Telomere length and this is processed through the Canine Genetic Age database of thousands upon thousands of dogs which match Rex's breeds and size. The telomere length is matched to determine the actual genetic age. The result of this analysis are shown below:

Rex's Age: 3.7
Rex's Genetic Age: 2.11



How to read your *Canine Genetic Age Test* results:



Excellent - Genetic age is better than chronological age.



Very Good - Genetic age is in line with chronological age.



Moderate - Genetic age is slightly more than chronological age.



Severe - Your dog is showing a significant variance between their chronological age and their genetic age.

If chronological age is not known the line will fall at the very good level.

If chronological dog age is known:

If your dog's genetic age falls before, at or just after your dog's chronological age in the green or yellow parts of the diagram that is good news! This means your dog is aging at a cellular level that matches the actual chronological age of your dog.

If your dog's genetic age falls after the bar with your dog's chronological age this may indicate a health issue with your dog. PLEASE NOTE: This does not indicate your dog has a health issue. It means your dog's cellular age exceeds its chronological age.

There are many factors that may result in a higher than average genetic age in dogs. Dogs that have had a life of stress and medical issues may fall in this category. This may also be an indicator of undiagnosed illness in your dog including heart disease, cancer and diabetes. If your dog has not been checked for these and other health conditions a visit for a health screen at your veterinarian may be warranted. This is an excellent opportunity to make sure your dog is screened for any health issues and use appropriate interventions to slow down the activity of the telomeres and take care of any potential health issues as early as possible.

If chronological dog age is not known:

Congratulations: You just discovered the genetic age of your dog! While this does not take any potential health issues into effect that may be increasing your dog's age it is currently the only scientific test available for determining dog age at a cellular level using your dog's telomeres.

The Canine Genetic Age Test is designed to determine the biological age of your dog. Genetic or biological age is different than chronological or actual age in that genetic age gives insight into the predicted longevity of your dog from a cellular level.

Telomere shortening is involved in all aspects of the aging process on a cellular level. Telomere length represents our genetic age as opposed to our chronological age.

This test was performed by measuring the length of Rex's telomeres, the dynamic, protective caps on the ends of r DNA strands that tend to shorten with age. The test measures Rex's Telomere length and this is processed through the Canine Genetic Age database of thousands upon thousands of dogs which match the dog's Weight/Size Group as well as Breed. The dog's telomere length is matched to determine their actual genetic age.

The Genetic Age test is designed to determine the age of your dog at a genetic level so you can be proactive with the wellness of your dog. It is also designed to assist in age determination where age is not known.

This test is not intended to offer medical advice, it is not diagnostic and is for informational purposes only. We hope this test will help you.