Ancestry Report

What breeds make up Buddy?

The Wisdom Panel™ Insights computer algorithm performed over seven million calculations using 11 different models (from a single breed to complex combinations of breeds) to predict the most likely combination of pure and mixed breed dogs in the last 3 ancestral generations that best fit the DNA marker pattern observed in Buddy. The ancestry chart depicting the best statistical result of this analysis is shown in the picture below.

Labrador Retriever Mix crossed with Shiba Inu / Cocker Spaniel Mix

† Mixed breed Ancestor. See next page for more details...

*Breed detected, however at a lower confidence. Such results are not included in accuracy calculations.
What does the Mixed Breed Ancestor mean for my dog?

We have identified for you the 5 next best breed matches which appeared in the analysis of your dog’s DNA. One or more of these breeds could have contributed to the genetic makeup of the ancestors indicated by the mixed breed icon. The breeds are listed by the relative strength of each result in our analysis with the most likely at the top of the list. There could also be a breed or breeds present in the mixed breed component that we cannot detect with our current database of purebred dogs.

Golden Retriever 3.97%
Akita 3.12%
Shetland Sheepdog 1.80%
Brittany 1.53%
Beagle 1.18%

How Wisdom Panel Insights Works

The process started when you sent a sample to our laboratory, where the DNA was extracted from the cells and examined for the 321 markers that are used in the test. The results for these markers were sent to a computer, that evaluated them using a program designed to consider all of the pedigree trees that are possible in the last three generations. The trees considered include a simple pedigree with a single breed (a likely pure-bred dog), two different breeds at the parental level (a first-generation cross), all the way up to a complex tree with eight different great-grandparent breeds allowed.

Our computer used information from over 185 breeds from our breed database to fill these potential pedigrees. For each of the millions of combinations of ancestry trees built and considered, the computer gave each a score representing how well that selected combination of breeds matched to your dog’s data. The pedigree with the overall best score is the one which is shown on the ancestry chart. Only breeds that reached our set confidence threshold for reporting are reported in the ancestry chart.
The Labrador Retriever can trace its roots to the coast of Newfoundland, Canada. The breed dates back to at least the seventeenth century when they were known as the “Lesser Newfoundland.” The breed is believed to have descended from the extinct “St. John’s Water Dog” which was a cross between native water dogs and the Newfoundland. Labrador Retrievers were initially trained to retrieve fishing nets from the cold waters of the North Atlantic. Fisherman brought them to England in the nineteenth century where they were lauded for their swimming, retrieving and hunting skills. The Earl of Malmesbury is believed to have coined the name Labrador in order to differentiate them from their Newfoundland ancestors. During the 1800’s, a heavy dog tax in Canada and quarantine laws in Britain drastically cut the number of Labradors in the U.K, but a good breeding program replenished the stock. Labrador Retrievers were recognized by the American Kennel Club in 1917.

The Labrador Retriever comes in solid black, chocolate, and yellow. The yellow varies from a pale cream to a rich red fox color. Some Labradors also have white chest blazes. The Dudley variant is where the nose is pink, though this is quite rare. Non-AKC registries sometimes recognize a Silver Variant though this may be classed as chocolate by the AKC.

Do you recognize any of these Labrador Retriever traits in BUDDY?

- Usually happy-go-lucky, calm, or easygoing dogs, though some may be energetic.
- Labrador Retrievers enjoy dog sports such as agility, hunting, tracking, rally and competitive obedience; retrieving and swimming.
- Usually friendly and are generally good family dogs.
- Quite food motivated, which may make it easier to teach the Labrador Retriever to drop retrieved items not intended for play.
Introduced into Britain in 1912, the Shiba Inu is an ancient and uncommon Japanese breed that was used for herding and hunting. It is presumed that this particular breed was brought to Japan from China, where they were often found homes in temples and were gifted to various dignitaries, as well as to the Chinese Emperor. Since their arrival in Japan, the Shiba Inu have been crossbred with the Pekingese, the Chow Chow and the Kyushu to produce the breed as it is known today. In 1936, the Cultural Properties Act declared the Shiba Inu a precious natural product of Japan. The breed was brought nearly to the brink of extinction during World War II and was only saved by co-mingling the breeds San’in, Mino and Shinshu bloodlines. The Shiba Inu was eventually introduced into The United States in 1954 and the breed finally received American Kennel Club recognition in 1993.

The Shiba Inu comes in three colors, which are black and tan, cream, and red (including red sesame). The coat frequently has white markings, and or shading in places. The tail may be curved over the back, or in a circle.

Do you recognize any of these Shiba Inu traits in BUDDY?

- Intelligent, agile, and alert dogs with spirited boldness.
- Independent spirit but responds well to a reward-based approach to training involving treats or favorite toys.
- Shiba Inus seem to enjoy dog sports such as agility, flyball, tracking, rally and competitive obedience.
- May be aloof or reserved around strangers and may require careful socialization to prevent or reduce defensive aggressive tendencies.
The American Cocker Spaniel was one of the first Cocker Spaniels introduced into the Americas and it is a breed that has become very popular in the United States. Their ancestors may be traced back to fourteenth century Spain to a breed known as the “Spanyell.” Legend has it that the ancestor of the Cocker Spaniel, the English Cocker Spaniel, was on the HMS Mayflower when the boat arrived in the Americas in 1620. Since that time, Cocker Spaniels have been the constant companion of settlers and have played an important role in hunting and guarding the family. The Cocker Spaniel is much smaller than its ancestor, the English Cocker Spaniel. In 1878, the first dogs were recorded in the American Kennel Club Studbook.

The Cocker Spaniel comes in solid with tan points, particolor, with ticking or white markings also possible. The underlying color varies widely, and may be black, or any color from a pale cream to a deep red, including roan and silver.

Do you recognize any of these Cocker Spaniel traits in BUDDY?

- Intelligent, playful, happy, and usually friendly dogs, with some being very energetic.
- Respond well to reward-based training using treats or favorite toys; can help in reducing tendencies to retrieve and play with inappropriate items.
- Seem to enjoy dog sports such as hunting, tracking, retrieving, agility, rally and competitive obedience.
- Good family dog but may require careful socialization with strangers to prevent or reduce fear-based defensive behaviors.
Thank you for choosing Wisdom Panel Insights to learn about your dog’s family ancestry.

Congratulations on taking the steps to learn about your dog’s ancestry and to understand what breeds are in your mixed breed dog using Wisdom Panel™! Knowing your dog’s breeds is more than a novelty - it is a medical necessity. Each breed in your pooch’s genetic paw print has unique health concerns you should know about so that you can provide a lifetime of excellent care.

Visit www.Genesis4Pets.com to find out more about your dog’s health-care needs; you’ll feel better knowing that you’re doing everything you can to keep your pal happy and healthy. In addition to loads of easy-to-understand information based on the latest medical research, you will receive a 50% discount on all downloadable health-care booklets that explain the common health concerns for individual breeds. Simply enter promotional code WISDOM when you check out to receive your discount (expires 30 days after you receive your Wisdom Panel report).

We recommend discussing your dog’s ancestry report with your veterinarian, as he or she can help you use your Wisdom Panel Insights report to help better care for Buddy. The next time you visit your veterinarian, consider asking these questions in addition to any you come up with on your own:

• Are there any specific issues that may be relevant to my dog’s well-being?
• Are there any special techniques that may help in training a dog with this particular mix?
• Are there any particular dietary considerations to bear in mind for a dog like mine?

Because you love your dog - share his story!

Join our online community of mixed-breed dog owners and share your dog’s Wisdom Panel Insights report with the world. On our website you can:

• Register your dog and upload photos into our Wisdom Panel photo gallery
• Get help to show off your dog’s breed profile on your blog, Dogster page, Facebook and MySpace profiles

Visit wisdompanelinsights.com and use the details below to create your dog’s profile:

**Owner Name: Pete Smith**

**Test Report Code: 3000021732**

More insight

Learning more about the history of the breeds detected in Buddy can help you and your veterinarian better train, feed and care for your dog. Visit our online Breed Library at wisdompanelinsights.com.

Accessing your test status checker online also lets you view Mixed-Breed Genesis health reports provided by VetThink™ which are designed to assist you to take the best possible care of your dog throughout its life.

TERMS AND CONDITIONS:

Each dog is unique and their physical and behavioral traits will be the result of multiple factors, including genetics, training, handling, and environment. Wisdom Panel™ Insights proprietary genetic analysis provides insight into the behavioral traits in breeds that have been identified in your dog. Wisdom Panel Insights is designed and intended to be used solely to identify the genetic makeup of a mixed-breed dog and no other purpose is intended, authorized, or permitted.

Upon receipt of your sample, Mars Veterinary will analyze your dog’s DNA to determine the breeds present in your dog’s ancestry with a reasonable degree of certainty. Mars Veterinary’s testing procedures are designed to provide reliable and accurate results.

Wisdom Panel Insights is intended for use on mixed-breed dogs. The test was designed specifically to look for multiple breeds in a dog’s ancestry and was not designed to validate the purity of a purebred dog. Mars Veterinary is not responsible for any errors in obtaining the swab sample or for any injuries or loss that may occur as a result.

In the unlikely event that it is not possible to determine breed history or that an error in the analysis occurs, liability by Mars Veterinary or related companies and individuals is disclaimed and damages in any event are limited to the payment actually received by Mars Veterinary for the specified analysis at issue.

Wisdom Panel Insights is based upon the Mars Veterinary database of validated breeds. If your dog contains other breeds, it may result in the identification of breeds, or a combination of breeds in the database, related to the breeds in your pet’s history.

Many cities and communities have breed-specific ordinances and laws that may require special handling or prohibit the ownership of some dogs with a particular breed in their genetic background. Neither Mars Veterinary nor any related company is responsible for compliance or notification regarding these matters. You may want to check with your local authorities to determine if your dog’s genetic profile requires compliance with any laws, regulations, or ordinances in your area.

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Statement of Authenticity

This certifies the authenticity of Buddy’s canine genetic background as determined following careful analysis of more than 300 genetic markers using Wisdom Panel Insights. The purebred dog breed signatures included in this analysis are those that were detected in the last three generations of Buddy’s ancestry using the proprietary breed detection algorithm at Mars Veterinary.

Dr. Neale Fretwell
Research & Development Director

Owner's name: Pete Smith
Dog's name: Buddy
Date: March 23, 2011
Because I love my dog.