

Congratulations!

You're about to uncover the story of your dog's ancestry.

In this report, you will find detailed results from **Ghost Gibbs's** Wisdom Panel™ *Professional* mixed-breed DNA analysis.

In the following pages, you will learn about:

- BREED DETECTION
- BREED APPEARANCE & BEHAVIOR
- APPEARANCE, BEHAVIOR & HISTORY
- SHARING YOUR DOG'S STORY

It is important to carefully review your entire report and discuss the results with your veterinarian to gain the most valuable insight into **Ghost Gibbs**.

Owner Name: **Kevin Gibbs**

Test Report Code: **4000018503**

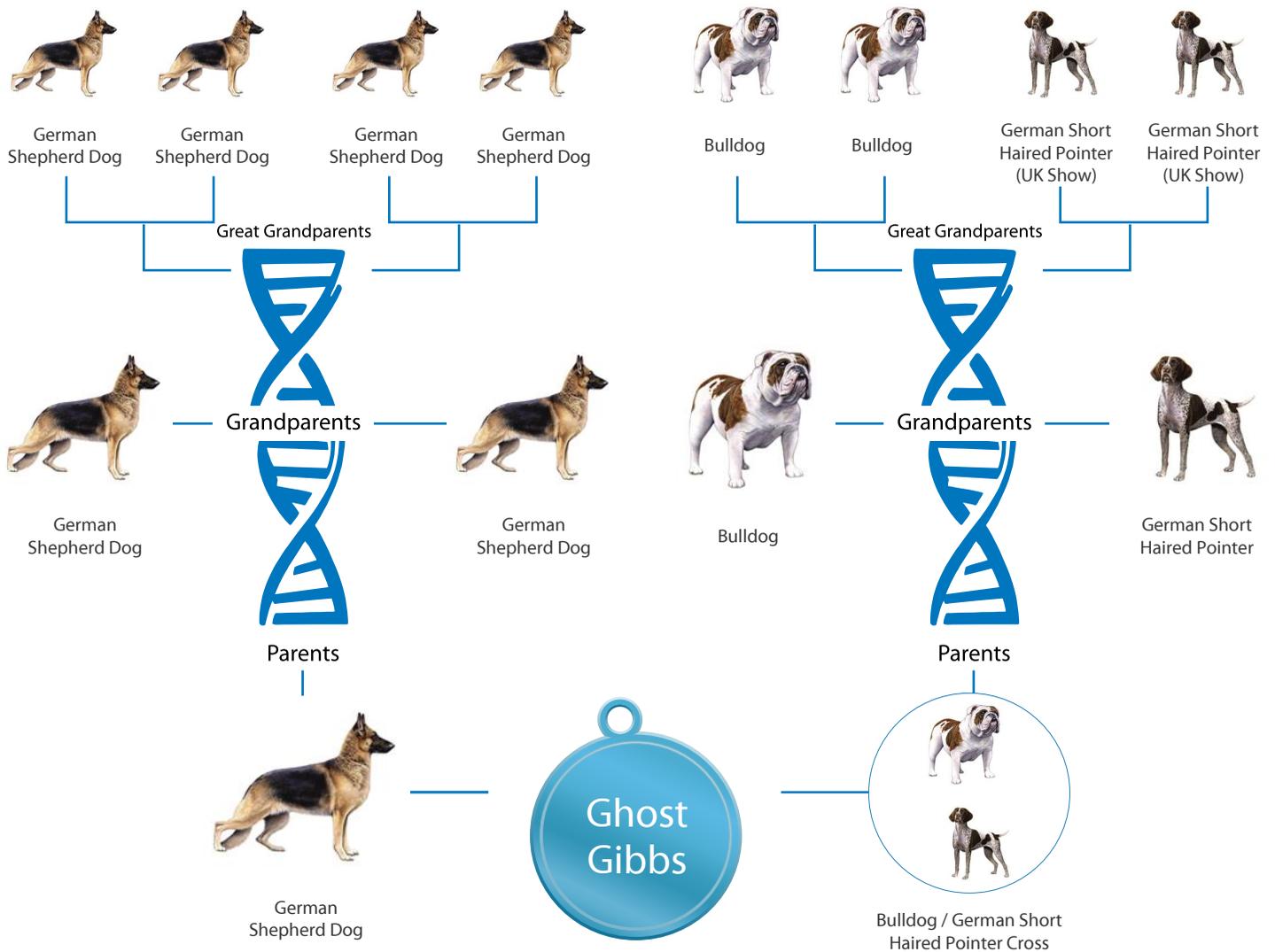
Date Printed: **May 18, 2012**

What's Your Dog's Tale?



What breeds make up Ghost Gibbs?

The Wisdom Panel™ Professional 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 Ghost Gibbs. The ancestry chart depicting the best statistical result of this analysis is shown in the picture below.



German Shepherd Dog crossed with Bulldog / German Short Haired Pointer Cross

Learn more about the Breeds detected in Ghost Gibbs on the following pages...

THE INFLUENCE OF BREEDS ON APPEARANCE AND BEHAVIOR

This report reveals the breeds detected in your dog's DNA. It also includes checklists of physical and behavioral traits associated with these breeds. Breeds can combine their influences in countless, fascinating ways. It's a unique combination that makes your dog one-of-a-kind.

Your dog may behave like - or strongly resemble - just one of the breeds in its makeup, but - much more commonly - your dog's looks and personality will blend aspects of these breeds. Consider the example below...

Wisdom Panel Professional found these breeds in our example dog Riff:



Chihuahua



Toy Fox Terrier



Japanese Chin

In this example, while many of Riff's physical and behavioral traits suggest a blending of breed influences, there are certain aspects of her appearance and personality that suggest the influence of specific breeds.

PHYSICAL TRAITS

CHIHUAHUA

An upright forward curving tail with a plume of hair is typical of the Chihuahua breed.



TOY FOX TERRIER

A strong broad muzzle, parallel to the skull beneath clear, bright dark-rimmed eyes is a common trait of Toy Fox Terriers.



BEHAVIORAL TRAITS

JAPANESE CHIN

Japanese Chins are known for being quiet, docile and relaxed with their human companions.



German Shepherd Dog



Height:

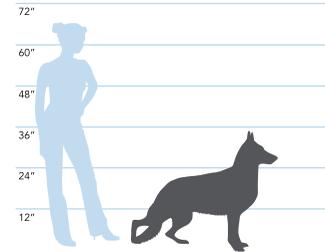
22 - 26 in

Weight (Show):

48 - 89 lb

Weight (Pet):

48 - 97 lb



Ears:



Muzzle:



Tail:



The modern day German Shepherd breed is a cross between the long-haired, short-haired and wire-haired shepherd dogs of the German regions of Württemberg, Thuringia and Bavaria. Initially bred for herding, due to their strength, intelligence and excellent temperament, they became popular as guard dogs, guide dogs, search and rescue dogs, police dogs and military dogs. Max Emil Von Stephanitz sought to protect and refine the German Shepherd breed at the end of the nineteenth Century. German Shepherds were used as German police and military dogs during World Wars I and II. Allied soldiers during World War I took notice of the Shepherd's use as messenger dogs or search and rescue dogs as they were very good at locating wounded soldiers. Some soldiers introduced the breed to their home countries and the popularity of the German Shepherd took off, making it one of the most popular breeds in the world today. The German Shepherd Dog was recognized by the American Kennel Club in 1908.

German Shepherd Dogs are generally a combination of black and tan, though more or less black may be seen. There is also a "gray" variant where the tip of the hair is black and the rest is tan. A black mask and a black "saddle" are both common traits in this breed. Although not an AKC variant, all-white German Shepherds exist as a separate FCI breed. The coat comes in long and short varieties.



Do you recognize any of these German Shepherd Dog traits in Ghost Gibbs?

- Personalities can vary from calm and watchful/observant to energetic.
- Eager to learn and respond well to reward-based training.
- Enjoy participating in dog sports such as agility, tracking, flyball, and competitive obedience.
- There have been reported incidents of German Shepherd Dogs being aggressive with other pets or people.

Bulldog


Height:

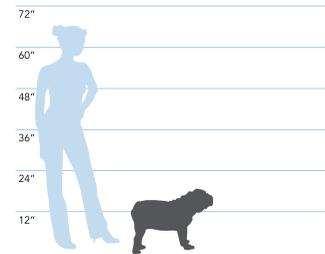
12 - 16 in

Weight (Show):

35 - 55 lb

Weight (Pet):

32 - 68 lb

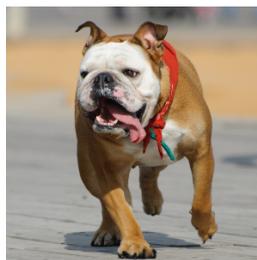

Ears:

Muzzle:

Tail:


The Bulldog of today may look a bit like the Bulldog of days gone by, but their personalities are nothing alike. Bulldogs were originally developed to be fierce bull fighters with a high pain tolerance and an unparalleled aggression. They descended directly from the Bullenbeisser, an Asian dog resembling a Mastiff, and the Bulldog's ancestors were used by Roman troops as well as the Teutons and Celts. When the Bullenbeissers were brought to England, breeders started working on reducing the size of the overall dog while increasing the size of the head. The result was a dog that was very effective in bull baiting and the breed earned the name "English Bulldog." It is believed that the Bulldog was first brought to the United States in 1735. In 1835 bull baiting became outlawed and breeders started to eliminate the aggressive tendencies of the breed. As a result, today's Bulldogs are much calmer and more suitable to family life than the Bulldogs of the past.

The Bulldog comes in a range of colors, with brindle (black and brown stripes), blacks, fawns, and tans, with white combinations which range from all-white to small patches of color and piebald color patches. Dogs which are mostly colored, such as brindle sometimes have a white blaze in the chest.



Do you recognize any of these Bulldog traits in Ghost Gibbs?

- Playful, calm, and usually friendly dogs.
- Stubborn tendencies may be lessened by using reward-based training involving small treats.
- Bulldogs are less energetic than other breeds, although they still need exercise to avoid becoming obese.
- A Bulldog can be tenacious or difficult to disengage from an activity that has its attention.

German Shorthaired Pointer


Height:

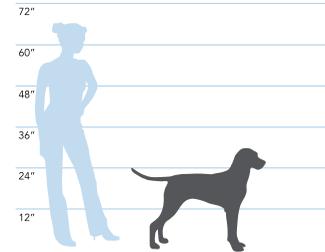
21 - 25 in

Weight (Show):

45 - 71 lb

Weight (Pet):

42 - 79 lb


Ears:

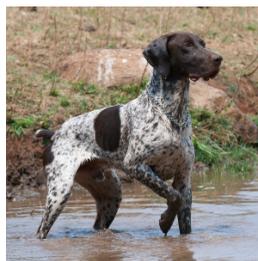
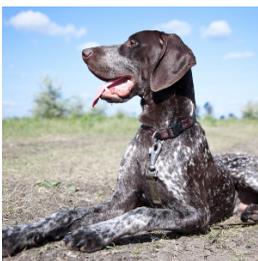
Muzzle:

Tail:


The German Shorthaired Pointer was developed in Germany in the late nineteenth century due to a need for an all-round hunting dog. This breed was created to be an excellent pointer with a good nose and is able to retrieve birds as well as animals. Initially it was thought that a cross between a Spanish Pointer and a Hannover Hound would showcase these abilities well, however the breed tended to bay when trailing. Because of this, crosses were tried with the Bloodhound, the Foxhound and various French hounds until breeding with the English Pointer resulted in a dog that appeared perfect yet, at times, tended to have an aversion to water and disliked tracking. Through continuous breeding these unwanted traits were eliminated and the German Shorthaired Pointer became a lean, athletic and responsive breed. In 1872 the breed was first registered with the German Kennel Club. The first of its kind appeared in the United States in the 1920's and the German Shorthaired Pointer was recognized by the American Kennel Club in 1930.

The DNA detected from this breed is most similar to DNA sampled from British Kennel Club registered dogs.

The German Shorthaired Pointer has short hair which is slightly longer on the haunches and tail. The colors of the coat are black, liver, or liver and white combinations including particolor, patched and ticked.



Do you recognize any of these German Shorthaired Pointer traits in Ghost Gibbs?

- Intelligent, energetic, easily trained, and usually friendly dogs.
- Good watchdogs with some being reserved with strangers.
- Enjoy participating in dog sports such as field trials, tracking, agility, and obedience, or retrieving items such as tennis balls or Frisbees.
- May engage in chasing small pets or wildlife, barking, or digging.

Thank you for choosing Wisdom Panel™ *Professional* to uncover the story of your dog's 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 free, 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).

Predicted Adult Weight Profile for Ghost Gibbs:

Based upon the breeds detected in Ghost Gibbs's ancestry and the genetic markers analyzed by Wisdom Panel *Professional*, as well as the information provided that Ghost Gibbs is **Male** and **Neutered**, we have calculated the likely weight that Ghost Gibbs should reach when an adult. The Wisdom Panel *Professional* target weight profile is presented as a range based on the unique mix and proportion of breeds detected.

- The adult weight is predicted to be between 55 - 82 lbs.

Many factors can influence an adult dog's weight, including sex and neuter status. Both of these factors have been used to calculate the predicted weight profile. Another major influence on canine weight is body condition score, which is a factor of your dog's lifetime nutrition and exercise regimen. If your dog's body condition is different from the ideal body condition score, we anticipate that your dog might be under (if underweight) or over (if overweight) the weight predicted by Wisdom Panel *Professional*.

To learn more about assessing body condition score please use the Royal Canin™ Body Condition Score Chart.

More information on this can be found at: <http://www.wisdompanelpro.com/sizeprediction/>

Tell Your Dog's Tale

Join our online community of mixed-breed dog owners and share your dog's Wisdom Panel *Professional* story with the world. At WisdomPanel.com 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
- Access your report online with our Test Status Checker.

This will also allow you to access 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.



Visit www.wisdompanel.com/photos and use these details to create your dog's profile:

Owner: **Kevin Gibbs**
Report Code: **4000018503**

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™ *Professional's* proprietary genetic analysis is intended to provide owners insight to potential predispositions to physical and behavioral traits in breeds which have been identified in your dog and is not intended to predict disease or behavior in any particular dog.

As part of the Wisdom Panel *Professional* service, Mars Veterinary performs seven disease screening tests for known genetic mutations using a high throughput genotyping panel. Each test is run twice on the genotyping panel in opposite orientation to ensure that results are consistent and as accurate as possible. Occasionally due to variations in DNA sample quality it may not be possible to provide a result for a specific mutation test if the marker fails to give a DNA genotype call in testing. Mars Veterinary and Mars, Incorporated are not associated with and do not endorse or sponsor the commercial tests being conducted by VetGen, Washington State University, University of Minnesota, The Animal Health Trust or Optigen.

Wisdom Panel *Professional* is used to help determine the breed makeup of a dog. Validation testing has resulted in an average accuracy* of 90% in first-generation crossbred dogs of known parentage. The breeds in this validation study represent 45% of AKC registrations.

In the unlikely event that it is not possible to determine breed history or that an error in the breed analysis, disease mutation screening, size prediction, or health indicator 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 individual specified analysis at issue.

The Wisdom *Professional* product is designed and intended to be used solely to identify the genetic makeup and predict the adult size and breed-related health risks of a mixed breed dog and no other purpose is authorized or permitted. Consult your veterinarian for information regarding your particular dog's physical and behavioral condition.

Many cities and communities have breed specific ordinances and laws which may require special handling or prohibit the ownership of some dogs with a particular breed in their genetic background. Check with your local authorities to determine if your dog's genetic profile requires you to comply with any laws, regulations or ordinances in your area. The Wisdom Panel *Professional* test is not intended for use to determine whether an individual dog contravenes local regulations or ordinances.

*Accuracy was determined by average Positive Predictive Value across breeds studied. Breeds detected at low levels of certainty were not included in accuracy calculation.

Purebred Ancestry Certification

Wisdom Panel *Professional* certifies that:

Ghost Gibbs

is a genetic mixture of the following canine breeds:

German Shepherd Dog, Bulldog and German Shorthaired Pointer.

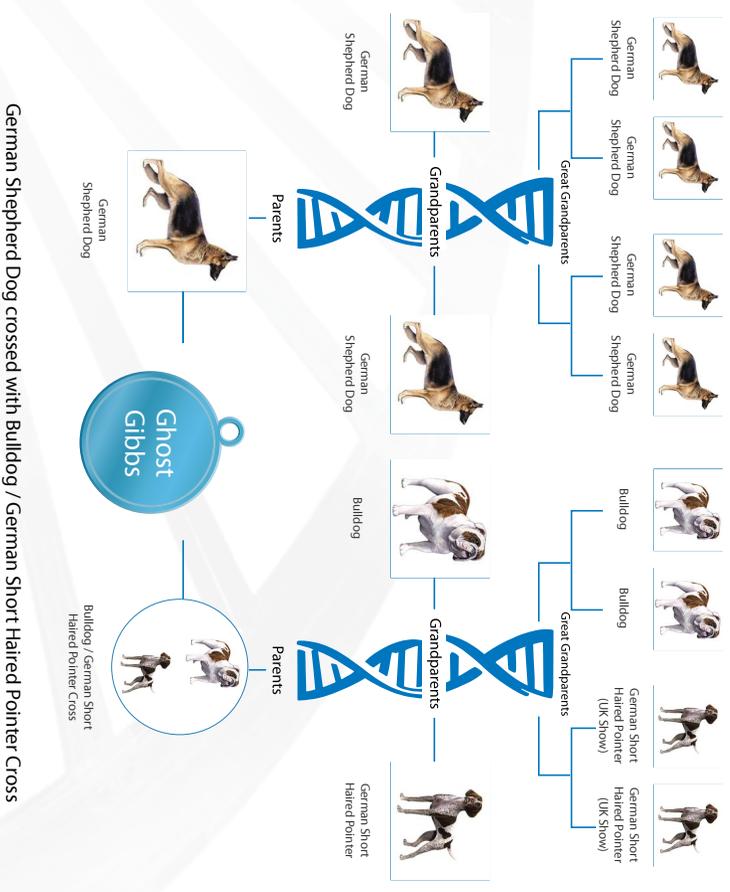
May 18, 2012

Statement of Authenticity

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

Dr. Neale Fretwell

Research & Development Director



German Shepherd Dog crossed with Bulldog / German Short Haired Pointer Cross