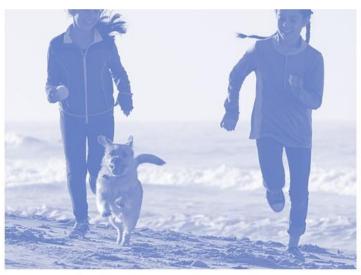


ANCESTRY BREEDS HEALTH LEARN MORE NOTIFICATIONS

Eddie's Results Are In!

Start: Ancestry



We've crunched the data and are excited to share what we've learned about Eddie's ancestry.

Eddie's Unique Genetic Signature

This is a portion of the code—or "fingerprint"—from your dog's DNA that we use as a unique identifier.



"I have used this test twice. I'm getting ready to order my third. The results are eye opening and amazing. I am so glad this product is available." Lisa J., NJ



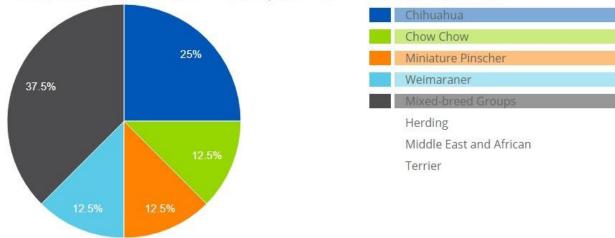
"A great resource to assist with a pet owners understanding of the complex biological history a pet has." Flynn X., TN



"I was very happy with the Wisdom Panel. It was great to find out what breeds actually made up my wonderful dog, although they were not what I had been told."

Start: Ancestry

EDDIE'S DNA TEST RESULTS ARE QUITE DIFFERENT THAN WHAT WE BELIEVED HIM TO BE...
WE DEFINITELY THOUGHT HE WAS A CHIHUAHUA MIX - OUR GUESS WAS SOME SORT OF TERRIER? FRENCH BULL DOG? DOXIE? RAT TERRIER?
NEVER DID WE IMAGINE HE COULD POSSIBLY BE MIXED WITH THE CHOW/WEIMARANER! THAT WAS A DEFINITE SURPRISE!



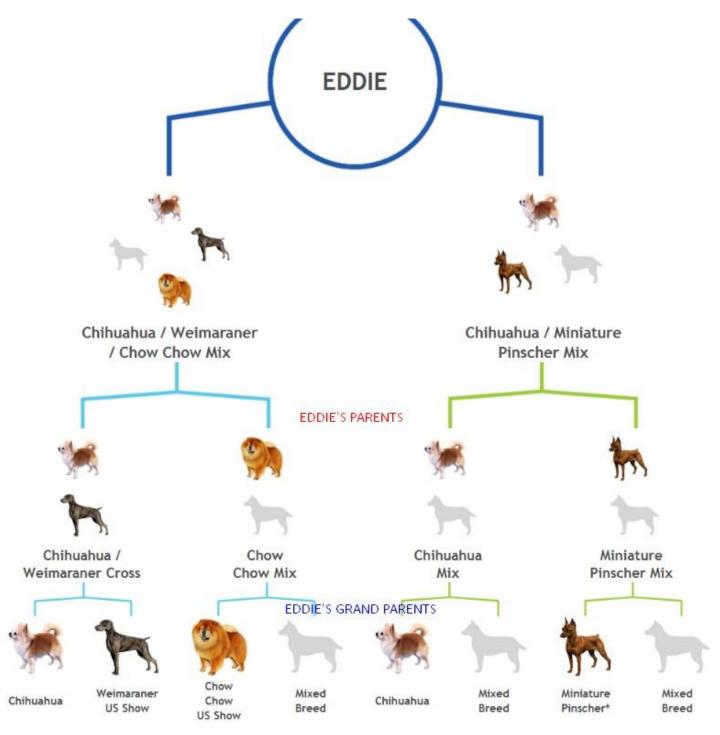
Breed Percentages

The **Wisdom Panel** computer algorithm performed over 18 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 three ancestral generations that best fit the DNA marker pattern observed in Eddie. Here you will find the results of these calculations. To view more about the breed(s) found in your dog, click on the individual breed name(s) next to the pie chart. You can also continue onto the next page to see this same information in ancestry tree format.

How did we get these percentages?

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Next: Ancestry Tree



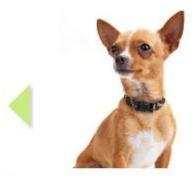


After examining your dog's DNA at 1800+ markers, we then send the data to a computer that evaluates them using a proprietary algorithm. This algorithm is designed to consider all of the pedigree trees possible in the last three generations for your dog.

The algorithm uses information from our extensive 12,000+ purebred sample database to analyze your dog's potential pedigrees and determine which one is the best fit. It gives each of the millions of possible combinations a score based on how well it matches your dog's data. The tree with the overall best score is selected and represented here.

This chart starts at the top with your dog (100%). The next level down is his or her parents. We do not identify the male or female ancestor at this time so we cannot tell you which side is mom and which side is dad. Next are the grandparents and finally at the bottom is the great-grandparent level.

^{*}Breed detected, however at a lower confidence.







The Chihuahua is one of the most ancient of dog breeds, with its origins dating back to the Mayan civilization. The breed is believed to have descended from the ancient Techichi, a dog that played an important role in both the Toltec and Aztec cultures. Some believe that the Chihuahua is a result of the crossing of the Techichi and the Chinese Crested, which came to South America from Alaska. Due to the destruction of the ancient civilizations, the breed faced extinction. However, remnants of the breed survived in Mexico and the Chihuahua was introduced to the United States in 1898. The Chihuahua was recognized as an official breed in 1904 by the American Kennel Club and by 1915, thirty Chihuahuas were registered in the States with that number jumping to over 25,000 by the early seventies.

Recognize any of these Chihuahua behaviors in Eddie?

- Alert, active, and often playful dogs.
- Small size makes it easy for them to live in smaller places such as apartments.
- Responds well to reward-based training using treats or favorite toys.
- May be suspicious of strangers or bark at other dogs when intimidated by their size.

All dogs should be considered individual animals. Because each is a product of their unique environment and handling, they may exhibit different traits and behaviors than those listed here.

Appearance



Height: 6 - 9 in Weight (Show): 2 - 7.5 lb Weight (Pet): 2 - 9 lb







The Chihuahua has a vast amount of variation partly due to the fact that any color or combination is permitted in the breed standard. The coat comes in either long or short hair, with traits including dark masks, merle, and white markings. The colors range from blacks to various silver and fawn shades.







The Chow Chow is a venerable breed dating back at least two thousand years. Many believe that the breed originated in China, but there is some evidence that indicates the Chow Chow actually migrated to China from Mongolia and Manchuria. While no one can say for sure from which breeds the Chow Chow has descended, it is believed that the breed has Tibetan mastiff and Samoyed in its bloodline. The Chow Chow served a dual purpose in China. Some were used for hunting while others were used to guard the sacred temples from evil entities. The East Indian Company brought the Chow Chow to England in 1781 and Queen Victoria received Chow Chows as a gift in 1865. During the 1880's, the numbers of Chow Chows imported increased drastically. The Chow Chow is one of the oldest known breeds, recognized by the American Kennel Club in 1903.

Recognize any of these Chow Chow behaviors in Eddie?

- · Reputation as a loyal family dog.
- · Reserved and wary with strangers.
- Independent spirit, but responds to rewardbased obedience training.
- The Chow Chow was originally bred for various purposes including the guarding of people and/or property. Individual members of this breed will benefit from firm and dedicated training to temper this guarding tendency, and thus help to maintain safety as a household companion.

All dogs should be considered individual animals.

Because each is a product of their unique environment and handling, they may exhibit different

Appearance



Height: 18 - 22 in Weight (Show): 40 - 65 lb Weight (Pet): 42 - 69 lb







The Chow Chow comes in either rough or smooth coat, with the rough having a more fluffy appearance. The coat may have lighter shading and be one of five colors; black, blue, cinnamon, cream, and red, which varies from a light golden to a deep mahogany. The Chow is famous for its blue mottled tongue, and sometimes has a black mask.







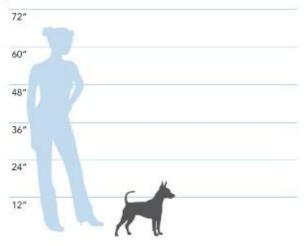
The Miniature Pinscher was developed and refined in Germany to hunt rats in stables. Despite the popular misconception that the breed is a miniature version of the Doberman Pinscher, the Miniature Pinscher is much older than the Doberman Pinscher, though the two breeds do share some common ancestors. The fact that the two breeds share ancestors isn't a coincidence as the Doberman Pinscher was purposely bred to look like the Miniature Pinscher. Miniature Pinschers were very popular in Germany and Scandinavia before their widespread introduction to other countries in the early 1900's. The Miniature Pinscher was imported to the United States in 1919 and was first registered with the American Kennel Club in 1925. The breed is affectionately referred to by its fans as the "Minpin".

Recognize any of these Miniature Pinscher behaviors in Eddie?

- · Intelligent, curious, and energetic dogs.
- As hunters, Miniature Pinschers may bark.
- Stubbornness may be reduced by using motivational tools such as treats and favorite toys in reward-based training.
- Because of its small size, may be intimidated by other dogs causing defensive barking and confrontations with other dogs.

All dogs should be considered individual animals. Because each is a product of their unique environment and handling, they may exhibit different traits and behaviors than those listed here

Appearance



Height: 10 - 12 in Weight (Show): 4.5 - 9 lb Weight (Pet): 4 - 12 lb







The Miniature Pinscher comes in solid colors with shades of red, stag red (with some shading from black hairs) and chocolate or black with red markings.





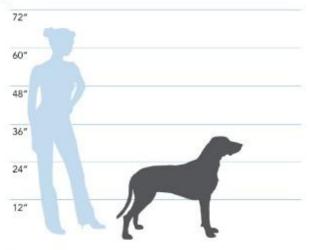


The Weimaraner was developed by German nobles of the Court of Weimar. Though the breed is suspected of having existed as far back as the seventeenth century, current breed standards were not developed until the 1800's. The Weimaraner was used for the hunting of large predators, such as wolves, wildcats, cougars and bears. In modern times the breed has been effective in the arenas of police, rescue and therapy work. When the breed was developed, the idea was to create a hunting dog that would be available only to those of favored status. It wasn't until the 1950's that the German government finally allowed a pair of Weimaraners to be brought to America, though some reports show exports of this breed as early as 1929. The Weimaraner was recognized by the American Kennel Club in 1943 and has become very popular as a sportsman's dog and as a family pet. The breed's popularity was further bolstered when President Eisenhower owned one and the breed began appearing in various works of art and on television.

Recognize any of these Weimaraner behaviors in Eddie?

- · Energetic, alert, powerful, and active dogs.
- May chase or hunt small pets (including cats) and wildlife as well as bark.
- Because of their exuberance, they should be closely supervised around children and other dogs, who may respond with aggression.
- Weimaraners enjoy dog sports such as retrieving, flyball, Frisbee, hunt and field trials, agility, tracking, and both rally and competitive obedience.

Appearance



Height: 22 - 27 in Weight (Show): 55 - 88 lb Weight (Pet): 54 - 97 lb

Ears



Muzzle



Tail



The Weimaraner comes in a variety of silvers from mouse gray to silver gray. The eyes come in amber, gray or blue-gray shades. There is sometimes a small patch of white on the chest, and lighter shading around the muzzle and head is possible. Long hair is possible though not accepted under the breed standard.

What does Mixed-breed or "Groups" mean for Eddie?

A portion of Eddie's ancestry was predicted to be mixed beyond the three generations we test for. We were unable to identify strong individual breed signals in this mixed portion, so we have listed the genetic breed groups with the strongest statistical likelihood below. The breed groups themselves are listed in order of strength in the results with the most likely at the top of the list. The breeds listed within are examples of breeds in each of these groups.

Herding Group



The herding group is a diverse category. These highly intelligent breeds were developed to guard and control the movement of livestock.

Examples of breeds included in the Herding in the order they appear here:

- · Australian Cattle Dog
- Border Collie
- · German Shepherd Dog
- Great Pyrenees



Middle East and African Group



While this ancient group shares many of the characteristics of the Hound Group, their origins, as the name would suggest, are concentrated in Africa and the Middle East unlike the hound group that has no true geographic center.

Examples of breeds included in the Middle East and African in the order they appear here:

- Afghan Hound
- Basenji
- Saluki
- Rhodesian Ridgeback



Terrier Group



The Terrier Group ancestors were bred to hunt and kill vermin. They are often characterized as feisty and energetic dogs whose sizes range from fairly small to much larger.

Examples of breeds included in the Terrier in the order they appear here:

- Chihuahua
- · Soft-coated Wheaten Terrier
- · Standard Schnauzer
- Russell Terrier
- · Miniature Pinscher



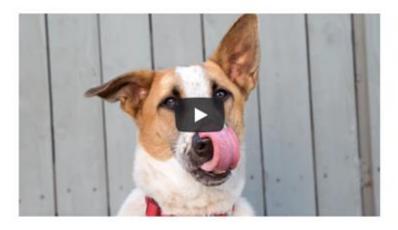
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Next: Breeds Analyzed

Breeds Analyzed



Next: Certificate



Breeds Tested

The Wisdom Panel database contains more than 12,000 purebred samples making it one of the largest in the world. Depending on the test version you used we have tested your dog for anywhere from 200-250+ breeds, types and varieties. Below is a list of all of the breeds that we tested for with your dog, broken out by genetic group.

Anywhere one of these breeds was found in your dog we will indicate it with "Specific Evidence Found". For evidence at the group level in your mixed-breed results, you will see that indicated with "Trace Evidence Found."

There may be times when we have found evidence in the form of a purebred great-grandparent AND at a group level. In these cases we will indicate both Specific and Trace evidence in that same group. Specific evidence will always be highlighted when you open the group box.

Asian - Specific Evidence Found

Akita Canadian Eskimo Dog Japanese Shiba Inu Siberian Husky Alaskan Klee Kai Chinese Shar-Pei Korean Jindo Tibetan Mastiff Alaskan Malamute

Chow Chow Samoyed

Companion - No Evidence Found

Guard - No Evidence Found

- Herding Trace Evidence Found
- Hound No Evidence Found
- Middle East and African Trace Evidence Found
- Mountain dogs No Evidence Found
- Sighthound No Evidence Found

Sporting - Specific Evidence Found

American Water Spaniel

Brittany Clumber Ser

Clumber Spaniel Dalmatian

English Springer Spaniel

Flat Coated Retriever

Irish Red and White Setter Italian Spinone

Murray River Curly Coated Retriever

Pointing Griffon (Wire) Poodle (Standard)

Weimaraner

Barbet

Cavalier King Charles Spaniel

Cocker Spaniel English Cocker Spaniel English Toy Spaniel

German Shorthaired Pointer

Irish Setter
Kooikerhondje
Munsterlander (Large)

Nova Scotia Duck Tolling Retriever

Poodle Poodle (Toy) Sussex Spaniel

Welsh Springer Spaniel

Boykin Spaniel

Chesapeake Bay Retriever Curly Coated Retriever

English Setter Field Spaniel

German Wirehaired Pointer

Hovawart

Irish Water Spaniel Labrador Retriever Munsterlander (Small)

Pointer

Poodle (Miniature)
Portuguese Water Dog

Vizsla

Wirehaired Vizsla

Terrier - Specific Evidence Found / Trace Evidence Found

Airedale Terrier Bedlington Terrier Border Terrier

Chihuahua

Dachshund (Longhaired)

Dachshund (Miniature Wirehaired)

Dandie Dinmont Terrier Fox Terrier (Toy) Glen of Imaal Terrier Lakeland Terrier Manchester Terrier (Toy) Norwich Terrier

Portuguese Podengo Pequenos

Schnauzer (Glant) Scottish Terrier Skye Terrier

West Highland White Terrier

American Hairless Rat Terrier

Cairn Terrier Chinese Crested

Dachshund (Miniature Longhaired)

Dachshund (Shorthaired)

English Toy Terrier (Black and Tan) Fox Terrier (Wire)

Irish Terrier Lancashire Heeler Miniature Pinscher

Parson Russell Terrier

raisuii nusseii te

Kat Terrier

Schnauzer (Miniature)

Soft Coated Wheaten Terrier

Xoloitzcuintli

Australian Terrier

Black Russian Terrier Cesky Terrier

Dachshund

Dachshund (Miniature Shorthaired)

Dachshund (Wirehaired)
Fox Terrier (Smooth)
German Pinscher
Kerry Blue Terrier
Manchester Terrier
Norfolk Terrier

Portuguese Podengo Medio

Russell Terrier Schnauzer (Standard)

Silky Terrier Welsh Terrier Yorkshire Terrier

Wild Canids - No Evidence Found



Now you can finally tell everyone what breeds are in Eddie! Just click on the social site icons below and we'll get your certificate page ready to post. Want to make it more personal? Just visit your account section of WisdomPanel.com, login and where you can view your results you can also upload a photo to be included on your dog's certificate.

Share Your Results on Social Media











Print Certificate

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Next: Health

Health

Back

Next: Multidrug Sensitivity

Multidrug Sensitivity - NORMAL/NORMAL



These dogs have two copies of the normal MDR1 gene and do not have the MDR1 mutation. They will not pass on the mutation to their offspring. These dogs are not at increased risk for experiencing side effects from drugs that are pumped by P-glycoprotein.

See Details

Adult Weight



Based on the breed results we predict Eddie's adult weight profile to be:

Between 27 - 45 lbs

See Details



Obvious factors like nutrition and exercise can influence an adult dog's weight, but sex and neuter status also play a role. Both of these factors along with your dog's breeds have been used to calculate the predicted weight profile.

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Next: Multidrug Sensitivity

Eddie's MDR1 test results are normal/normal meaning there is no sign of the MDR1 genetic mutation.

You will want to make sure to share these results with your veterinarian so they can update Eddie's records. They may be critical to the care of your dog.

MDR1 Screening Results

Condition: Multi-Drug Sensitivity
 Mode of Inheritance: Dominant
 Test Results: Normal/Normal

Test Results Analysis

MDR1 Normal/Normal - these dogs have 2 copies of the normal MDR1 gene and do not have the MDR1 mutation. They will not pass on the mutation to their offspring. These dogs are not at increased risk for experiencing side effects from drugs that are pumped by P-glycoprotein.

Technology Licensed By



Back

Next: Adult Weight

- ▼ What is MDR1?
- Commonly Affected Breeds
- Drugs Affected by the MDR1 Mutation
- Origins of the Test

Adult Weight

One of the main questions people ask when adopting a mixed-breed puppy is "What size will my puppy grow up to be?" To help answer this question we've developed a proprietary algorithm that uses the breeds identified on each chromosome in a mixed-breed dog to predict the likely size range a puppy will develop into when fully mature. For adult dogs this weight prediction along with recommendations from your veterinarian can be used to maintain a healthy weight for you dog.

Eddie's predicted adult weight is:

- Between 27 45 lbs
- How is Weight Calculated?

Our weight-predictive algorithm has been developed and calibrated using a combination of important elements:

- · The published weight ranges of more than 200 purebred dog breeds.
- The observed weights of more than 100,000 client-owned purebred dogs, each with an ideal Body Condition Score.
- Dog breeds identified by Wisdom Panel that reflects a dog's true heritage and genetic complexity.
- A genetic algorithm developed and optimized using observed mixedbreed dog data that serves to weight the real contribution of each set of chromosomal genetic markers to the final predicted weight of an adult dog.
- The observed weights of over 800 mixed-breed dogs of varied backgrounds.

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Next: Notifications

Differences in Body Weight

We've factored everything we know about Eddie in predicting a healthy adult weight. However there are several other factors that can play an important role. Through the use of your report information and by working with your veterinarian you can help your dog reach and/or maintain a healthy adult body weight.





Exercise Level

Lifetime Nutrition

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