

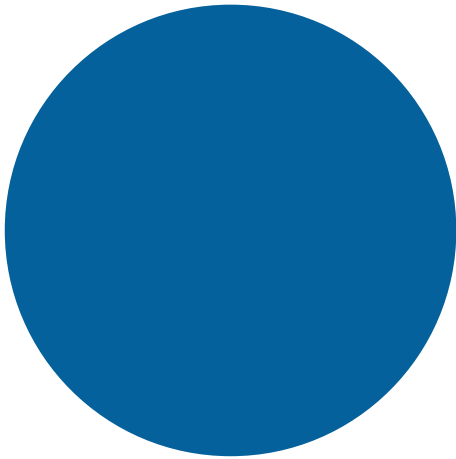
DISCOVER ALL

# ABOUT BENTLEY

The results are in! Let's take a look at what the DNA told us about Bentley's ancestry...

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# BENTLEY'S BREED BY PERCENTAGE



● 100% Australian Shepherd

Exciting news, the results are in! Here's what makes Bentley so unique. Using the data generated from Bentley's DNA, our sophisticated computer algorithm performed over 17 million calculations! What you see here is Bentley's ancestry by percentage.

# AUSTRALIAN SHEPHERD

## A DOG THAT LOVES TO HERD ANYTHING.

- Very intelligent, obedient, active, energetic, and watchful dogs.
- Australian Shepherds seem to enjoy dog sports such as herding, agility, tracking, flyball, Frisbee, rally and competitive obedience.
- Eager to learn and respond well to reward-based training.
- Herding tendencies may lead to chasing cars, herding children, or barking.

▶ **Height**  
**18 - 23 in**

▶ **Weight (show)**  
**40 - 60 lb**

▶ **Weight (pet)**  
**38 - 66 lb**



### DID YOU KNOW?

With a name like the 'Australian Shepherd', it's not surprising that many people don't know that these alert dogs began life in the United States. In the 1800s, Basque Shepherds that were living in Australia were brought over to help breed a new kind of herding dog. The 'Aussie' (as they're sometimes affectionately called) grew significantly in both population and popularity after World War II. In recent decades, they've become known for their work at rodeos and horse shows. For a dog that loves to herd anything (be it cars, children or other pets), the Australian Shepherd is also known for being a follower –they'll follow you absolutely anywhere. It's what makes them such loving and loyal pets.



# BENTLEY'S HEALTH RESULTS

SAMPLE ID: H019966

We have tested Bentley's DNA for more than 150 disease-causing mutations. Below is a summary of our findings. For more detailed information on each of these diseases, please log into your account and review your comprehensive health results.



## AT RISK - 0

Being "At Risk" means Bentley may show or develop signs of one of the following genetic diseases. Please be sure to read the condition information carefully and share these results with your veterinarian.



## CARRIER - 0

Carrier status is where a dog has inherited one copy of a disease-causing mutation, when two copies are usually needed for disease signs to occur. The good news is that carriers are unlikely to show disease signs, but there may be a slight increase in risk of disease for some conditions. Please be sure to read the condition information carefully and share these results with your veterinarian.



## CLEAR - 152

Bentley inherited zero copies of these disease mutations. Be sure to use our share feature to let your veterinarian know about Bentley's results. For some of the conditions there may still be undiscovered mutations and/or environmental factors that could lead to similar disease signs. These clear results will help narrow down a future diagnosis if Bentley ever gets sick.

# BENTLEY'S TRAITS

SAMPLE ID: H019966

## Furnishings

Bentley does not carry any copies of the gene for 'furnishings' (which would give them a fuzzy beard and eyebrows). This means they probably have smooth, short facial hair. Did you know you can often get 'furnished' and 'unfurnished' dogs within the same breed?

## Coat Length and Type

**Genotype: TT CC**

Bentley's coat is probably on the long side. The exact length of a dog's coat is down to several factors so it can vary. Did you know long hair is actually a recessive trait and results from inheriting two 'broken' copies of the gene that tells hairs to stop growing and shed?

## Base Pigment Color

**Genotype: B/bc**

Bentley carries the gene for the 'expression' of black pigment. This means that even though their overall coat color may not be black, they are still able to make black pigment. They will also likely have black around their eyes, a black nose, and may even have black pads on their feet.

## Coat Color Main Possibilities

**Genotype: at/at E/E ky/ky I/I**

Bentley appears to be mostly dark in color (either black or brown) with tan-colored markings (above the eyes, on the cheeks, chest and lower legs). A lot of people think this means their dog is descended from a Doberman Pinscher or perhaps a Rottweiler. However, this trait is actually quite common.

## Tail Length

**Genotype: CG**

Bentley likely has a short tail, although the exact length can vary from dog to dog. Did you know that two copies of the gene for bobtail can cause negative health effects so even breeds that commonly carry the gene will still have longer tailed individuals?

## Leg Length

**Genotype: DD**

Bentley's legs should be relatively long in length, based on this marker (though there can be other genes that affect leg length). Did you know different dogs can have different leg lengths even if they are the same breed?

## Ear Carriage

**Genotype: TT**

A lot of factors can decide the shape of a dog's ear. But as far as we can tell, Bentley probably has perk or upright ears. Did you know this type of ear is recessive (which means you need a copy from each parent to show it)? Common breeds with upright ears include German Shepherd, Chihuahua and Husky.

# IDEAL WEIGHT

SAMPLE ID: H019966

Based on our findings, we've calculated that Bentley's ideal, adult weight should be:

**42 lbs - 73 lbs**

We've factored everything we know about Bentley in predicting a healthy, adult weight. However environmental factors such as the nutrition of Bentley's mom during pregnancy and nursing, Bentley's nutrition during critical growth months, illness/parasites/ticks/fleas, and exercise levels can affect the actual weight of Bentley.

## CALCULATING WEIGHT

Our weight-predictive algorithm uses a combination of the following to calculate Bentley's ideal, adult weight:

- The published weight ranges of more than 200 purebred dogs.
- The observed weights of purebred dogs, each with an ideal Body Condition Score, from the Banfield® Pet Hospital database.
- Breeds the WISDOM PANEL™ test analysis has identified that reflect a dog's true heritage and genetic complexity.
- A genetic algorithm based on mixed-breed data that calculates the contribution of each set of chromosomal genetic markers.

## ENVIRONMENTAL EFFECTS ON WEIGHT

A dog's early life is very important in determining how they will grow and develop. They can fail to reach their ideal weight for a number of reasons, including the diet of their mother during pregnancy and nursing (as well as their own diet as puppies).

Illness and disease can play a part too, as can having parasites like roundworms or fleas and ticks. For dogs who are adopted after they are fully-grown, it may be harder to find the historical background on these factors.

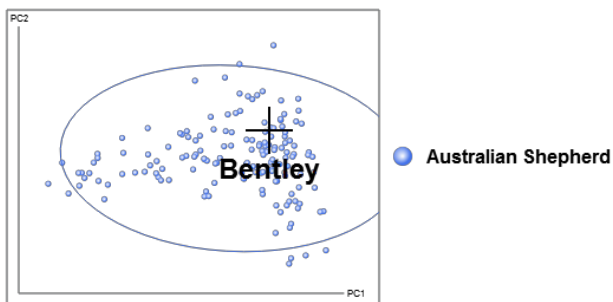
Maintaining a healthy weight is a key factor in Bentley having a long and healthy life.

# ADDITIONAL BREED TESTS

Our family tree analysis shows that Bentley closely resembles a single dog breed, based on the samples in the WISDOM PANEL™ database. We have included some extra tests free of charge to investigate this in more detail.

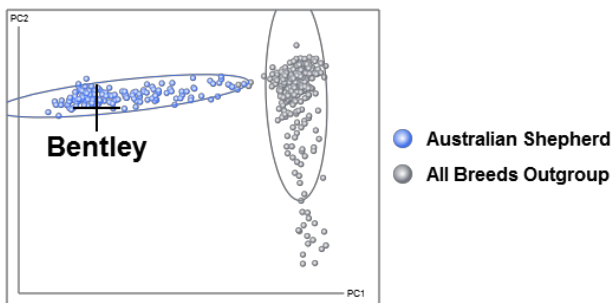
## Single Breed Comparison

This analysis shows the relationship between Bentley and the Australian Shepherd samples in our database with each individual dog represented as a dot. The closer the dots on the chart the closer the genetic relationship. Bentley's sample falls within the Australian Shepherd cluster showing that Bentley's genetic profile closely resembles the other dogs from this breed in the Wisdom Panel database.



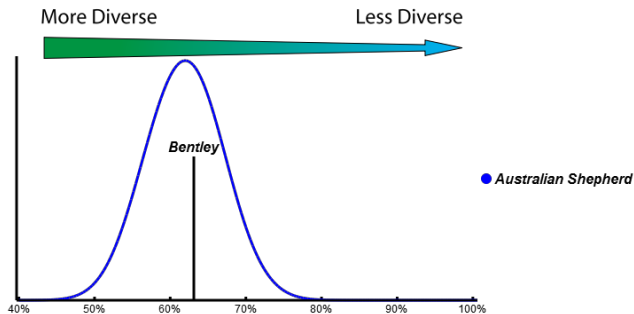
## Single Breed Vs. All Breeds

Here we have compared Bentley's data to Australian Shepherd samples, and also a single representative sample from the other breeds in the WISDOM PANEL database. This is another way of showing that Bentley's data is more like the Australian Shepherd than any other breed. Bentley's sample falls within the Australian Shepherd cluster showing that Bentley's genetic profile closely resembles the other dogs from this breed in the WISDOM PANEL database.



## Homozygosity

Homozygosity is a measure of how many of Bentley's genetic markers are identical because the same version was passed down from both the mother and father. Purebred dogs tend to have a higher homozygosity score than most mixed breed dogs, and each breed within the WISDOM PANEL database has a specific range of scores. Bentley's homozygosity score falls within the range for the Australian Shepherd samples found in the WISDOM PANEL database.





# WISDOM<sup>TM</sup> PANEL



## STATEMENT OF AUTHENTICATION

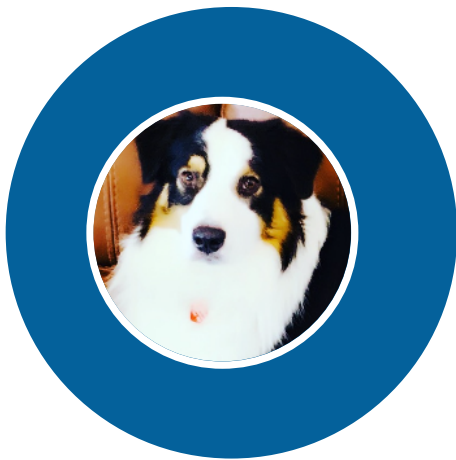
Owner's Name: **Manoella Martin**

Dog's Name: **Bentley**

Sample Id: **H019966**

Date: **March 24, 2019**

This certifies the authenticity of Bentley's canine genetic background as determined, following the careful analysis of more than 1800 genetic markers, by the WISDOM PANEL<sup>TM</sup> Canine DNA Test. The purebred breed signature matches included in the analysis are those that were detected in the last three generations of Bentley's ancestry using the Wisdom Health proprietary breed detection algorithm.



● 100% Australian Shepherd