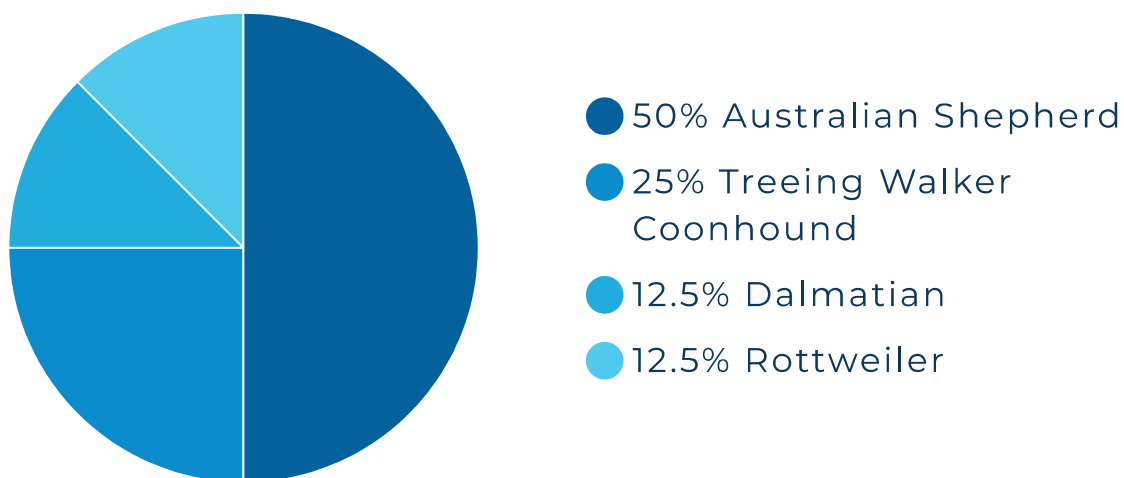


DISCOVER ALL

# ABOUT HOLLY

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

## HOLLY'S BREED BY PERCENTAGE



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

# TREEING WALKER COONHOUND

INTRODUCED TO VIRGINIA IN 1742.

- Agile, energetic, loving, intelligent, confident and even-tempered dogs. They are not good with small animals due to their innate tracking and hunting instincts.
- They are highly active and require a great deal of physical and mental exercise, so they are generally not suited to apartment living or small back gardens.
- Their tracking sense is so strong that they are unable to follow commands when they are trailing a scent.
- Their curious nature means that they have a tendency to stand on their hind legs to investigate a small child or small dog being held in the arms of an adult.

► **Height**  
**20 - 27 in**

► **Weight (show)**  
**50 - 70 lb**

► **Weight (pet)**  
**48 - 76 lb**



## DID YOU KNOW?

A relative of the English Foxhound, these loveable pooches were introduced to Virginia in 1742 by Thomas Walker. (The foundation stock of the breed was reportedly 'Tennessee Lead', a stolen dog of unknown descent, which was then bred to other hound type breeds.) They are incredibly skilled hunters of raccoons and squirrels, with their trademark 'treeing' move. Honing in on their target by standing against the tree with the scent, they bay their own distinctive howl to let the owner know the quarry has been cornered. Treeing Walker Coonhound dogs were originally registered as part of the English Coonhound breed – and it was not until 1946 that they were recognized as a breed in their own right. We're certainly glad to welcome them.

# DALMATIAN

THESE FAMOUSLY SPOTTED DOGS ARE ONE OF THE OLDEST BREEDS IN EXISTENCE.

- Intelligent, energetic, and alert dogs with great stamina.
- Respond well to reward-based training using treats or favorite toys.
- Enjoy dog sports such as agility, flyball, tracking, scent hurdling, and both rally and competitive obedience.
- Have a reputation of being good family dogs but can be aloof with strangers.

► **Height**

**23 - 24 in**

► **Weight (show)**

**40 - 65 lb**

► **Weight (pet)**

**39 - 75 lb**



## DID YOU KNOW?

These famously spotted dogs are one of the oldest breeds in existence – some say more than 4,000 years old. Their exact origin is highly disputed, though most believe they're originally from 'Dalmatia', a region in Croatia bordering the eastern Adriatic Sea. Historically, Dalmatians were used to chase rats out of the fire stations and horse stables in ye old London. They also guided the horse-drawn fire wagons through city streets and safeguarded fire equipment from vandalism and theft. This tradition endured even after the old wagons were replaced with modern fire engines and Dalmatians still enjoy the status of being the iconic firehouse dog. Though today they're also spotted (ahem) in many family homes too.

# ROTTWEILER

## A FEARLESS AND DEVOTED BREED.

- Calm, intelligent, and hard working dogs.
- Rottweilers enjoy dog sports such as agility, tracking, herding, and obedience.
- Because they are sensitive, they respond best to reward-based training using treats or favorite toys.
- The Rottweiler 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.

### ► Height

**23 - 27 in**

### ► Weight (show)

**84 - 120 lb**

### ► Weight (pet)

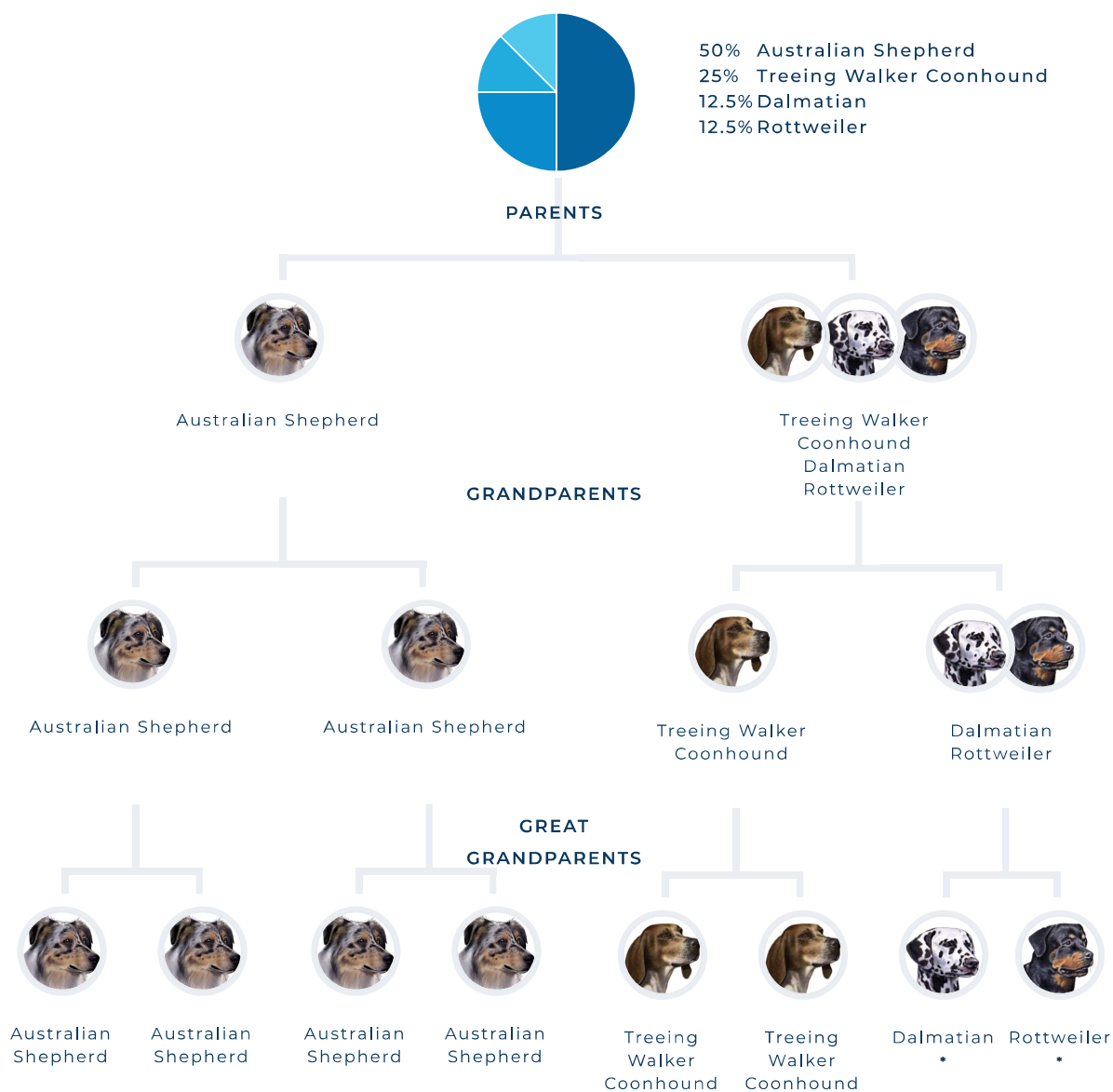
**72 - 132 lb**



## DID YOU KNOW?

During the time of the Roman Empire, Roman troops took cattle dogs on their travels to herd the livestock that would later serve as food for the soldiers. One of the towns they journeyed through was Rottweil, in Germany. This eventually became a cattle area and the descendants of the Roman cattle dogs who protected the herds came to be known as Rottweilers. By the end of the 19th century, there was only one female left in the entire town. But luckily, the first Rottweiler club was founded in 1907 and this fearless and devoted breed was saved from extinction. Today, we're glad to report these wonderful dogs have travelled far and wide beyond their original Rottweill – and can be found virtually everywhere in the world.

# HOLLY'S FAMILY TREE



\* This particular ancestor's breed has been detected, however at a lesser contribution. This suggests the breed is likely present further back in the ancestry.

# HOLLY'S HEALTH RESULTS

We have tested Holly's DNA for the following important genetic health conditions.  
The results can be seen below.

## MULTIDRUG SENSITIVITY (MDR1)



**CLEAR**

Holly has no copies of the MDR1 mutation and should not be affected by the disorder due to this genetic cause.

## EXERCISE-INDUCED COLLAPSE (EIC)



**CLEAR**

Holly has no copies of the EIC mutation and should not be affected by the disorder due to this genetic cause.



# HOLLY'S TRAITS

<b>Ear Carriage</b>	A lot of factors can decide the shape of a dog's ear. But as far as we can tell, Holly probably has 'base erect' ears. This means the base of the ear stands up, while the tip flops over. Did you know a dog that has one parent with floppy ears and one parent with upright ears can have this kind of ear? It's also common in breeds like the American Staffordshire Terrier and Russell Terrier.
<b>Furnishings</b>	Holly 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?
<b>Coat Length and Type</b>	Holly's coat is probably on the short side. The exact length of a dog's coat is down to several factors so it can vary. Did you know some genes can even change how a short coat looks, including adding 'feathering', which results in longer hairs behind the ears, under the belly, and behind the legs?
<b>Base Pigment Color</b>	Holly 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.
<b>Tail Length</b>	Holly likely was born with a long tail - although the exact length can vary from dog to dog. Long tails are sometimes known as 'coffee table clearers'. (If you've ever seen a long-tailed dog get excited near one, you'll know exactly why.)
<b>Coat Color Subtypes</b>	Holly carries one copy of the gene for white spotting so might have a fair bit of white in their coat, and also carries the gene for 'merle', which causes any dark pigment in the coat to become a patchy mix of grey and dark (either black or brown). (Did you know white is not a color but a lack of pigment which acts to cover up a dog's natural base color?)
<b>Coat Color Main Possibilities</b>	Holly probably has a dark-colored, saddle-shaped pattern on their back, which is common in breeds like the German Shepherd and Beagle. They'll likely also have a dark facial 'mask'. Did you know some dogs with this trait are born 'black-and-tan' but that the dark hairs fade until only the saddle pattern remains?
<b>Leg Length</b>	Holly'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?

## IDEAL WEIGHT

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

**40** lbs - **66** lbs

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

# WISDOM<sup>TM</sup> PANEL



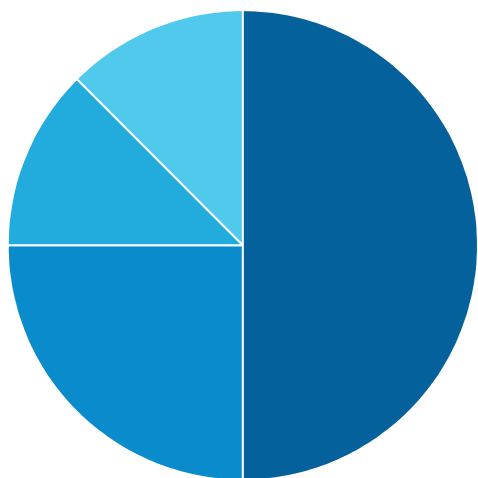
## STATEMENT OF AUTHENTICATION

Owner's Name: **Rod Allrich**

Dog's Name: **Holly**

Date: **December 8, 2018**

This certifies the authenticity of Holly'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 Holly's ancestry using the Wisdom Health proprietary breed detection algorithm.



- 50% Australian Shepherd
- 25% Treeing Walker Coonhound
- 12.5% Dalmatian
- 12.5% Rottweiler