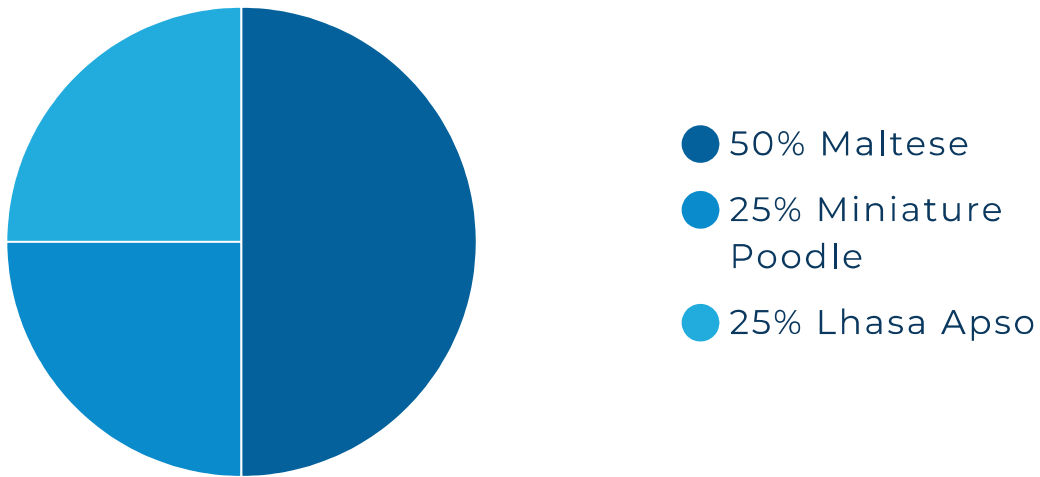


DISCOVER ALL
ABOUT TOBY

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

TOBY'S BREED BY PERCENTAGE



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

MALTESE

THE MALTESE HAVE AN IMPRESSIVE AND ALMOST UNTAINTED HISTORY.

- Intelligent, lively, and playful dogs.
- Maltese can be quick learners doing well with reward-based training using treats or favorite toys.
- Maltese can be energetic, although because of their small size they do well in apartments.
- Can be quite gentle. Can also bark to defend itself from strangers or other animals.

▶ **Height**
8 - 10 in

▶ **Weight (show)**
6.5 - 9 lb

▶ **Weight (pet)**
5 - 13 lb



DID YOU KNOW?

Named after Malta (where they're originally from), the Maltese have an impressive and almost untainted history – one that's said to go back 28 centuries. The Roman Emperor Claudius, and Rome's Governor of Malta, Publius, each owned a Maltese. It's thought Publius was utterly devoted to his pet, creating art and poetry to immortalize the dog. Some think the Maltese was even considered to be able to cure ailments, and so was placed on a pillow and given the finest foods. The Maltese became popular with the British aristocracy in the 19th century. By the 1990s, the Maltese was ranked in the top 15 of all breeds. Not surprisingly, these easy-going and sweet-tempered dogs remain a very popular breed today.

MINIATURE POODLE

SMART AND PLACID DOGS.

- Intelligent, athletic, and playful dogs.
- Eager to learn and respond well to reward-based training using treats or favorite toys.
- Miniature Poodles seem to enjoy dog sports such as agility, retrieving, musical canine freestyle, rally and competitive obedience.
- Some tend to bark and can be reserved around strangers and may require careful socialization to prevent or reduce defensive aggressive tendencies.

▶ **Height**

10 - 15 in

▶ **Weight (show)**

13 - 26 lb

▶ **Weight (pet)**

15 - 28 lb



DID YOU KNOW?

The fact that Poodles have been featured in royal artwork since the 1500s is probably part of the reason many think they're a French breed. But they're actually not. Instead, these smart and placid dogs are shrouded in mystery when it comes to their origin. Some experts say they originated in Central Europe or Russia, while others cite Spain or Portugal. Although they're thought of as ornamental lap dogs, they are technically gun dogs with an excellent reputation for bird hunting and water retrieval. Their name has its roots in an old German word meaning 'to splash about' – a reference to their fondness for water. The miniature Poodle was developed in the 1700s, long after the standard version was around. Faithful and devoted, it's small wonder they became popular too.

LHASA APSO

THEY CAN TRACE THEIR ROOTS TO THE SACRED CITY OF LHASA.

- Intelligent, watchful, alert, and independent dogs. As good watchdogs, they may bark.
- Stubborn tendencies may be lessened by using reward-based training involving small treats.
- Lhasa Apsos are moderately active dogs and since they are small do well in apartments.
- They can be wary or shy around strangers and may require careful socialization to prevent or reduce defensive aggressive tendencies.

▶ **Height**
10 - 11 in

▶ **Weight (show)**
9 - 16 lb

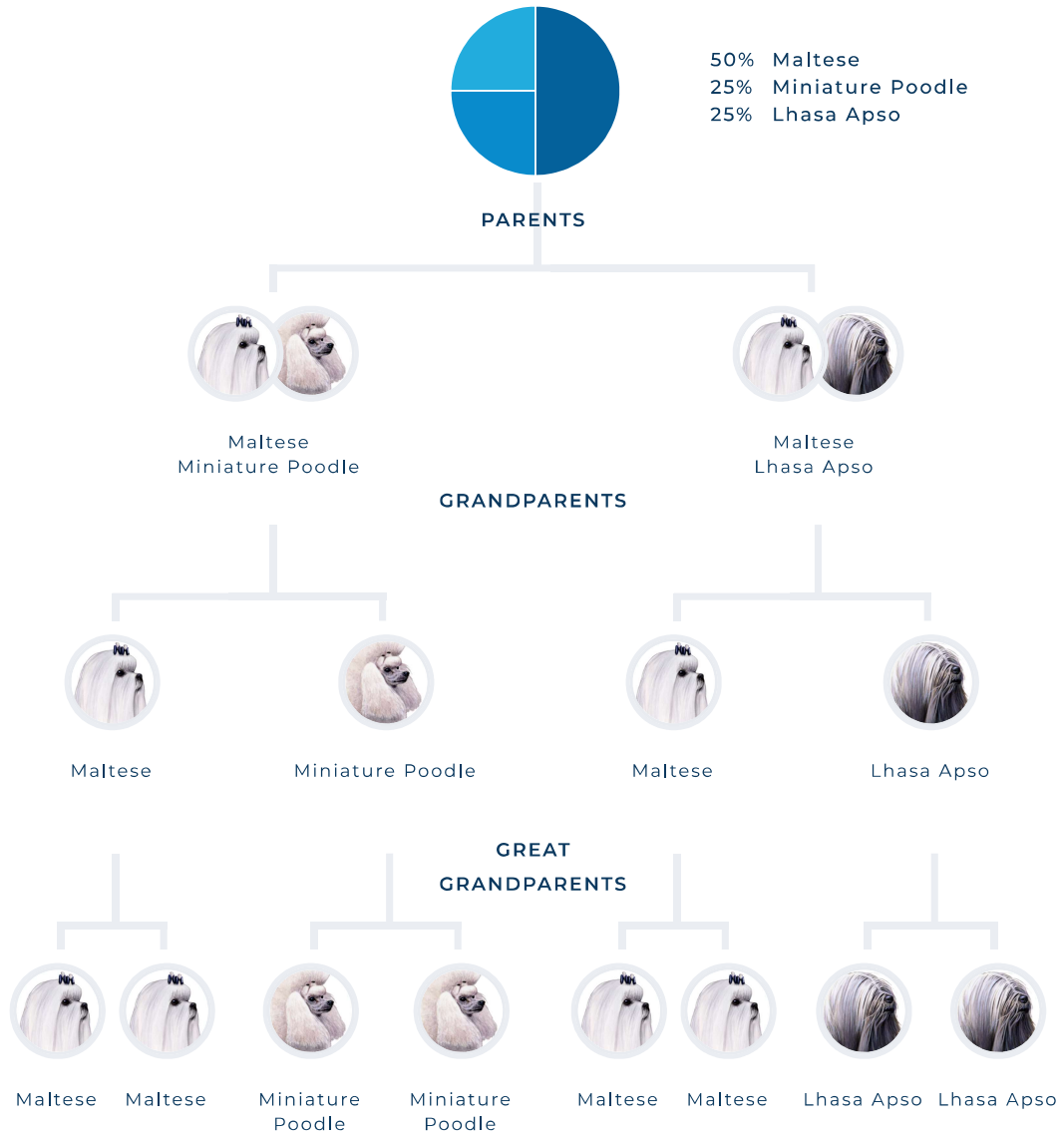
▶ **Weight (pet)**
9 - 19 lb



DID YOU KNOW?

Lhasa Apsos can trace their roots to the sacred city of Lhasa, the capital of Tibet. There, in and around 800 B.C., it's believed these fearless and assertive dogs were raised by monks from Tibetan monasteries. They were traditionally kept indoors as a second line of defense against intruders, using their keen hearing to alert the monks of any break-ins. After World War II, several of them were imported from China and, in the early 1930s, the breed eventually found its way to America. The original monks who kept these sweet little dogs believed that to be in the presence of a Lhasa Apso was to be blessed with good fortune. We couldn't agree more.

TOBY'S FAMILY TREE



TOBY'S HEALTH RESULTS

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

MULTIDRUG SENSITIVITY (MDR1)



CLEAR

Toby 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

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

TOBY'S TRAITS

Ear Carriage	A lot of factors can decide the shape of a dog's ear. But as far as we can tell, Toby 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.
Base Pigment Color	Toby 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 Subtypes	Toby carries two copies of the gene for white spotting as opposed to one, which means they'll probably have a significant amount of white in their coat. Did you know some breeds that people think are white (like say Dalmatians or white Boxers) actually just have two copies of the white spotting gene?
Leg Length	Toby has two copies of the gene for short limbs (known as 'chondrodysplasia') so their legs are probably very short. When people think of this trait, they think mainly of the Dachshund, Corgi, or Basset Hound. There are actually over 20 breeds that have it, including the Chihuahua.
Furnishings	Toby carries the gene for 'furnishings', which means they are likely to have a fuzzy beard and eyebrows. This trait is commonly associated with terriers, but is carried by many other breeds as well, including the Poodle. It may also have come from many generations back in their ancestry.
Coat Length and Type	Toby'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?
Coat Color Main Possibilities	Toby appears to be a yellow or tan color. Dogs with this result can actually show colors from white all the way to deep red. (Did you know because your dog has this genotype, they cannot make black pigment in their coats, so won't have even a single black hair?)
Tail Length	Toby 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.)

IDEAL WEIGHT

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

10 lbs - **18** lbs

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

WISDOMTM PANEL



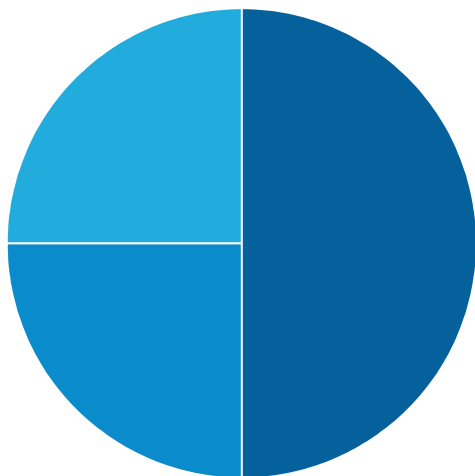
STATEMENT OF AUTHENTICATION

Owner's Name: **Rod Allrich**

Dog's Name: **Toby**

Date: **December 8, 2018**

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



- 50% Maltese
- 25% Miniature Poodle
- 25% Lhasa Apso