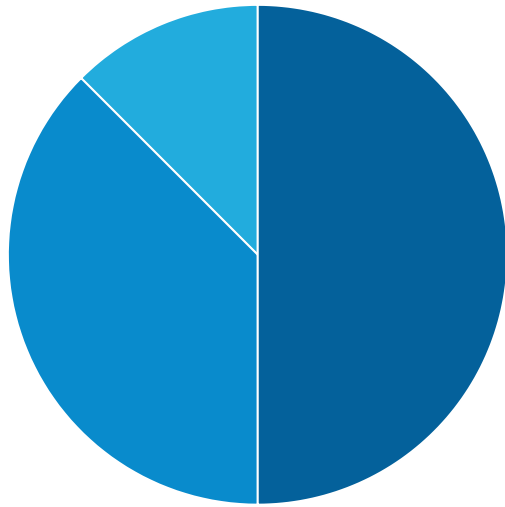


DISCOVER ALL
ABOUT STAR

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

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STAR'S BREED BY PERCENTAGE



- 50% Pomeranian
- 37.5% Siberian Husky
- 12.5% Breed Group(s)
 - Asian
 - Middle Eastern and African
 - Sporting
 - Mountain Dogs

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

POMERANIAN

A UNIQUE CHARACTER AND A CHEEKY APPEARANCE.

- Active, intelligent, and alert dogs.
- Eager to learn and responds well to reward-based training using treats or favorite toys.
- Pomeranians seem to enjoy dog sports such as agility, musical canine freestyle, rally and competitive obedience.
- They tend to bark. They can be reserved around strangers and may require careful socialization to prevent or reduce defensive aggressive tendencies.

▶ Height

7 - 12 in

▶ Weight (show)

3 - 7 lb

▶ Weight (pet)

3 - 10 lb



DID YOU KNOW?

With their unique character and cheeky appearance, these great little companions have been captivating people for over 150 years. The 'Poms' you see nowadays are toy dogs, but they didn't always look like this. Think more Golden Retriever, with a bushy tail, and you'd be closer. It was Queen Victoria who influenced the change. She was given a tiny one as a present in 1888, which launched a fashion for the 'pocket-sized' dogs that went global. And the trend continues today, as breeders maintain the quality that keeps these trustworthy little fellows as popular as ever. Pomeranians unsurprisingly are from Pomerania in north-eastern Europe, and were originally known as Zwergspitz. Zwerg means 'dwarf' and 'spitz' is the German breed of its bigger ancestor. From the freezing Prussian Baltics, bred to a dinky size, and with a royal connection, the Pomeranian has been on a worldwide journey of success. No wonder this tiny dog is a giant favorite.

SIBERIAN HUSKY

INTELLIGENT AND HARD-WORKING DOGS.

- Active, social, and usually friendly dogs; often do well with children and other dogs.
- Siberian Huskies are energetic dogs and participate in dog sports such as sledding, skijoring (pulling a skier), and carting.
- Stubborn tendencies may be lessened by using reward-based training involving small treats and favorite toys.
- May engage in digging; might chase wildlife.

▶ Height

21 - 23 in

▶ Weight (show)

35 - 60 lb

▶ Weight (pet)

34 - 67 lb



DID YOU KNOW?

These intelligent and hard-working dogs have been used in a number of roles over the centuries. In no particular order, they include herding reindeer, pulling sleds and even keeping children warm. They have a long history of helping humans, in fact. Some say the breed began with the Chukchi tribe of Siberia, though various other tribes are occasionally credited with helping them evolve too. Siberian Huskies were made famous in 1925 when they delivered a diphtheria serum after a city was stricken by an epidemic. Though built for the harsher climates of Siberia, they managed to find their way to America in 1909. As one of the most popular dogs in the United States today, we're glad they made the journey.

BREED GROUPS STAR IS MOST LIKELY RELATED TO

We tested Star's ancestry for specific pure breeds, going back three generations (or to the great-grandparents). Beyond this, today's technology can only identify down to the genetic "group" level (sporting, toy, guard, etc.). We know the breeds found in these groups and that Star may share genetic similarities with many of them. We've arranged these in order, with the most likely starting at the top. The breeds displayed are examples of breeds in each specific group. The full list for each can be found on the breeds we analyzed, click on the link below.

ASIAN GROUP

The Asian Group is comprised mainly of breeds from the Asian and Arctic regions of the world. Often bred for guarding or working they have been invaluable assets to man throughout the ages.

MIDDLE EASTERN 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.

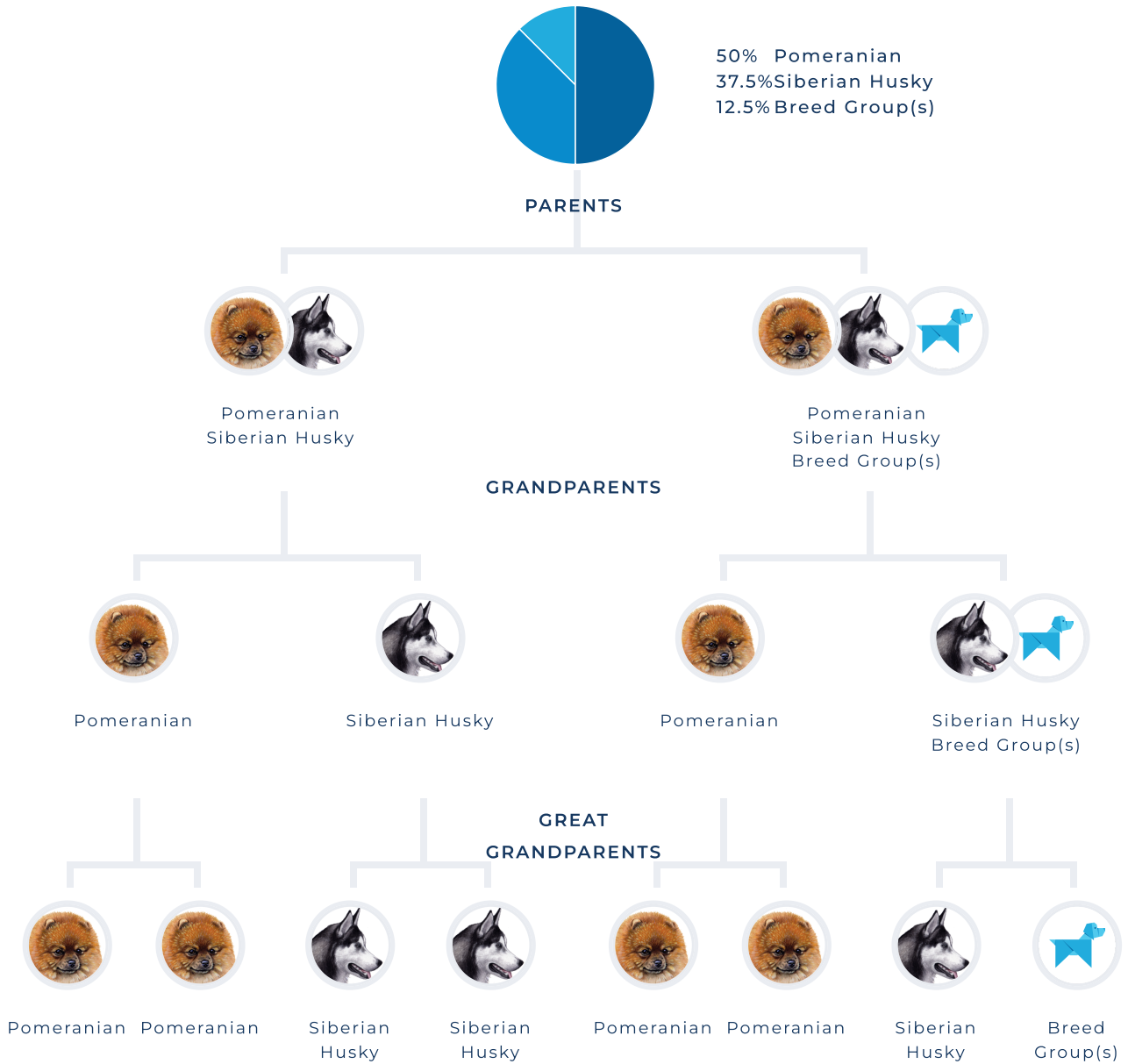
SPORTING GROUP

The sporting group breeds are incredibly diverse in personality and appearance, but can be characterized as very sturdy. They were developed to work closely with people and in general have a very responsive nature and high intelligence.

MOUNTAIN DOGS GROUP

This genetic group was bred for hard work in mountainous regions. Characterized by their thick coats and sturdy, larger builds they quickly became the invaluable working companions of people in endurance activities such as drafting and hauling.

STAR'S FAMILY TREE



STAR'S HEALTH RESULTS

SAMPLE ID: 00BAN_5077MARS000B4

We have tested Star'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 Star 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 - 159

Star inherited zero copies of these disease mutations. Be sure to use our share feature to let your veterinarian know about Star'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 Star ever gets sick.

STAR'S TRAITS

SAMPLE ID: 00BAN_5077MARS000B4

Furnishings

Star 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?

Ear Carriage Genotype: CT

A lot of factors can decide the shape of a dog's ear. But as far as we can tell, Star 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.

Coat Color Subtypes Genotype: ay/at M/ m h/h S/sp

Star 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?)

Leg Length Genotype: DD

Star'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?

Coat Color Main Possibilities Genotype: ay/at E/ E ky/ky I/wt

Star probably has a coat color known as 'sable' - light overall, but with some dark-tipped patches of fur. Sable is a dominant coat color, meaning that only one copy of the gene is needed in order to show it and it's very common in mixed breed dogs.

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Tail Length
Genotype: CC

Star 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.)

Base Pigment Color
Genotype: B/bs

Star 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 Length and Type
Genotype: GG CT

Star'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 - but we do know Star also carries one copy of the gene for a curly coat. Did you know the curl isn't always obvious in a short coat? Or that that the curl gene is sometimes paired with a gene called 'furnishings' which gives a dog a fuzzy beard and eyebrows?

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IDEAL WEIGHT

SAMPLE ID: 00BAN_5077MARS000B4

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

11 lbs - 20 lbs

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

CALCULATING WEIGHT

Our weight-predictive algorithm uses a combination of the following to calculate Star'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 Star having a long and healthy life.

WISDOMTM PANEL



STATEMENT OF AUTHENTICATION

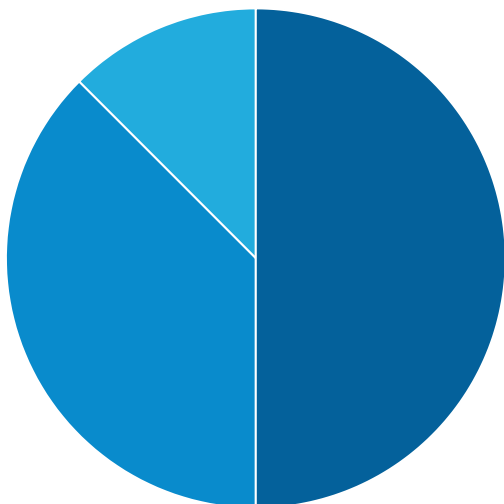
Owner's Name:

Dog's Name: **Star**

Sample Id: **00BAN_5077MARS000B4**

Date: **December 29, 2020**

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



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