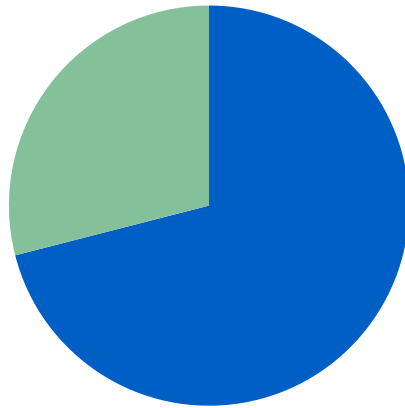# Arya

Breed

Arya is a mix of 2 different breeds.

- **71%** German Shepherd Dog
- **29%** Staffordshire Bull Terrier

Health

We have tested the DNA from Arya for 237 different genetic variants (mutations) that increase the risk of developing a health condition.

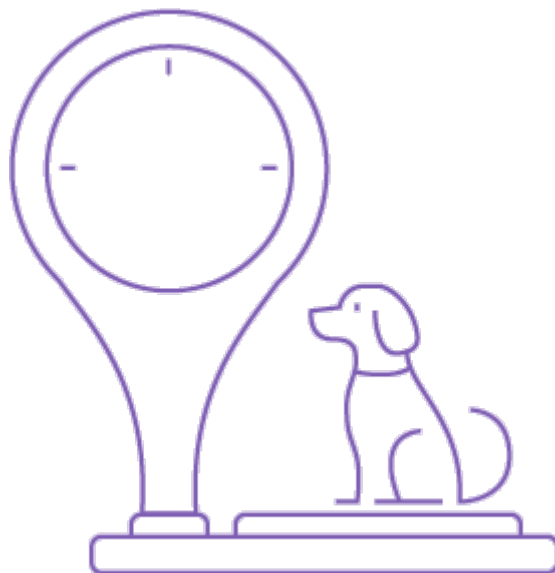Increased health risk:

1   condition

Carrier only:

1   condition

Clear result (no variants detected):

235   total conditions tested

Weight

45-68 (lb)

Detailed Breed Results

71%

German Shepherd Dog

The German Shepherd is a police dog and military dog that originated in Germany. The breed is a versatile working and service dog.

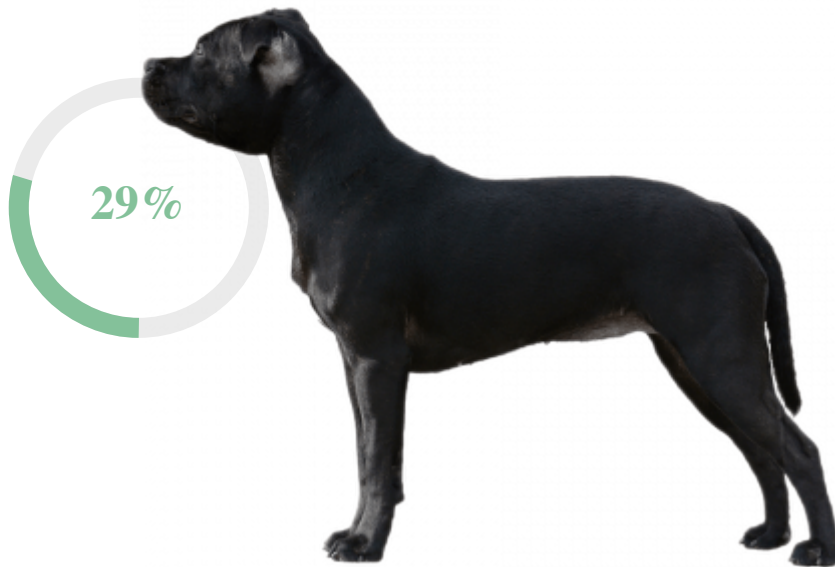|	
Appearance & Grooming	The German Shepherd is a large dog with a muscular body. The breed has medium-long double coat in tan, red, black, gray, silver, reddish-brown, brown, and yellow. The German Shepherd Dog sheds regularly and requires weekly brushing.
Behavior & Disposition	The German Shepherd is courageous, aloof, calm, loyal, and confident. They tend to play well with children. However, adult supervision is recommended when playing with other dogs.
Activity Level	The German Shepherd has a moderate activity level and it is easy for the breed to become overweight. For optimal health, the German Shepherd Dog should be carefully monitored for calorie consumption and avoid foods containing cooked bones and high

Training	The German Shepherd is a very smart dog and can learn quickly. A combination of verbal praises and rewards with consistency is recommended. Early socialization and obedience training are also recommended.

fat contents.

29%

Staffordshire Bull Terrier

The Staffordshire Bull Terrier is a terrier dog used to catch rats. The breed originated in Great Britain.

Appearance & Grooming	The Staffordshire Bull Terrier a medium-sized dog with a muscular body. The breed has a short and soft coat in black, blue, brindle, red, fawn, and white. The Staffordshire Bull Terrier sheds occasionally and requires weekly brushing.
Behavior & Disposition	The Staffordshire Bull Terrier is affectionate, fearless, reliable,

and intelligent. They tend to play well with children. However adult supervision is recommended when playing with other dogs.

Activity Level

The Staffordshire Bull Terrier has a high activity level but it is still easy for the breed to become overweight. For optimal health, the Staffordshire Bull Terrier should be carefully monitored for calorie consumption and should have daily walks.

Training

The Staffordshire Bull Terrier is a very smart and sociable dog and can learn quickly. Early obedience training is highly recommended because of their aggressive nature towards other dogs.

Health details

We have tested the DNA from Arya for 237 different genetic variants (mutations) that increase the risk of developing a health condition.

Increased health risk:

1 condition

> "Increased health risk" means your dog has a higher chance of experiencing the health condition(s) identified below. This does **NOT** mean your dog has or will experience this health condition. Our DNA test has identified the presence of one or two variants (genetic mutations) that *increase the likelihood* of this health condition compared to dogs without these variants.
>
> We recommend sharing the results with your vet and asking what you can do to be proactive with your dog's care. This discussion is typically not urgent and can usually wait until your next vet appointment.
>
> In addition, pups from an affected parent are more likely to inherit the genetic health condition. However, this does not mean that all pups will experience the health condition or symptoms.

Increased health risk - Adverse Reaction to Certain Drugs, Variant 1

What it is	Adverse Reaction to Certain Drugs is an inherited disorder that can cause afflicted dogs to display adverse symptoms after certain drugs are administered.
Possible symptoms	The most common symptoms of Adverse Reaction to Certain Drugs are anaphylaxis shock, rash, diarrhea, runny nose,

tremors, and seizures.

Heredity characteristics	If these symptoms are observed, please immediately consult your veterinarian.

Related gene	ABCB1
Citations	L Alves et al 2011

Carrier only:

1 condition

"Carrier only" means your dog is **not** at *increased* risk for experiencing the health condition(s) identified below. However, your dog is a carrier for this condition and therefore is more likely to pass it along to their offspring, especially if your dog breeds with another dog that is also a carrier for the same condition.

Carrier only - Progressive Retinal Atrophy Crd4/Cord1

What it is	Progressive Retinal Atrophy is an inherited disease that slowly leads to vision loss over a period of time.
Possible symptoms	Progressive Retinal Atrophy is an inherited disorder that leads to gradual vision loss over time by damaging the retina. As they are losing eyesight, affected dogs may often bump into objects and become hesitant to walk.
Heredity characteristics	There is currently no known treatment for this condition.

Removing objects in their path and creating a comfortable and familiar environment can help maintaining the quality of life. In addition, training your dog in visual commands can be an excellent way to maintain communication.

Related gene	RPGRIP1
Citations	C S Mellersh et al 2006

Clear result (no variants detected):

235 total conditions tested

"Clear" means your dog is **not** at *increased* risk for experiencing the health conditions identified below. Our DNA test has **not** identified the presence of one or more variants (genetic mutations) that increase health risk.

We test for a long list of health conditions and most dogs will have a clear result for the vast majority of them. You can see the complete list of clear results below.

Because DNA is only part of the story when talking about good health, your dog can still experience one or more of these health conditions. The good news is that your dog's genetics do not increase the likelihood of this happening.

Clear Results

- Leukocyte Adhesion Deficiency Type III
- Dilated Cardiomyopathy, Variant 3
- Neuroaxonal Dystrophy, Variant 2
- Ehlers-Danlos Syndrome Classic Type 1, Variant 2
- Ehlers-Danlos Syndrome Classic Type 1, Variant 1
- Alexander Disease
- Dilated Cardiomyopathy, Variant 2
- Neuroaxonal Dystrophy, Variant 1

The first 8 clear results are shown here, all the remaining clear results are provided in the complete report

Genetically Influenced Behaviors

Some DNA in your dog's genes can have an influence on certain behaviors, which can make a behavior more or less likely.

Unlike for breed or health, our science behind these behaviors is at the exploratory stage. You can help improve the science by providing feedback below.

Note that other factors such as training and upbringing could have a larger effect than the DNA.

Desire for affection or attention

How much your dog tends to stay close you or other caregivers to obtain affection or attention. Also, a tendency to become agitated when attention is given elsewhere.

✅ **High**   Medium   Low

Aggression directed at other dogs

How much aggression your dog displays when approached by unfamiliar dogs.

High   ✅ **Medium**   Low

Barking

How much your dog barks due to being separated from you or other caregivers.

High   ✓ **Medium**   Low

Physical contact with you

Indicates the length of time your dog tries to maintain physical contact with you or other caregivers.
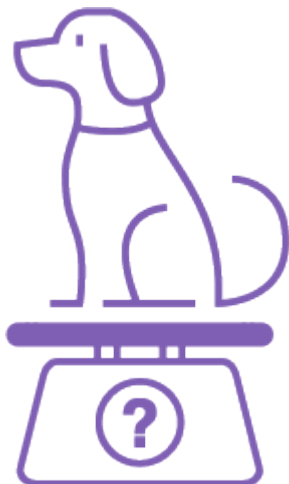

High   ✓ **Medium**   Low

Fetching

How much your dog desires to fetch objects such as balls and sticks

✓ **High**   Medium   Low

"Genetic" Weight

The genetic weight of Arya is calculated to be:

45-68 (lb)

How do we predict the weight of adult dogs?

Our test analyzes several dozens of genetic markers that are known to influence the weight of *adult* dogs.

We have developed a weight prediction algorithm that estimates the adult weight by looking at the relationship between the measured genetic data and the published weight data of a large number of dogs.

Our method also incorporates cutting-edge technology to take account of the effect of breed, resulting in a better weight prediction even on mixed breed dogs.

How accurate are the results?

While our test considers the genetics of your dog to predict the adult weight, numerous other factors also influence the weight. Since genetics only explains about 80% of the weight in a *healthy* adult dog we provide a range of weight.

A major factor is the type of nutrition and amount consumed. The number of overweight dogs has doubled over the past decade so it is something to examine.