

CANINE BREED COMPOSITION DNA ANALYSIS

Congratulations on obtaining your Canine Breed Composition DNA Analysis

Thank you for choosing Viaguard Accu-Metrics

In the following pages you will find:

- Your dog's Canine Breed Composition DNA Analysis Certificate
- Key breeds detected
- Key breed characteristics, health and behaviour
- MDR1 and EIC Screening



CANINE BREED COMPOSITION DNA ANALYSIS CERTIFICATE

"Semper Fidelis"

Dog's Name

Shadow

Family Name

Dara Chapman

Date Analyzed

2018/10/12

ID Number

1355018



You're my Shady

Level 1

Not Present

Level 2

Flat-Coated Retriever &
Labrador Retriever

Level 3

Not Present

Level 4

Border Collie

Level 5

German Shepherd Dog



Harvey Tenenbaum
Harvey Tenenbaum
Laboratory Director



Ancestry Tree



Flat-Coated Retriever



Labrador Retriever / Border Collie / German Shepherd Dog



Flat-Coated Retriever Flat-Coated Retriever Labrador Retriever Border Collie / German Shepherd Dog



Flat-Coated Retriever Flat-Coated Retriever Flat-Coated Retriever Flat-Coated Retriever Labrador Retriever Labrador Retriever Border Collie German Shepherd Dog

What your dogs breed composition means

Level 1

This category is intended to help owners recognize when their pet's DNA contains a majority of a specific breed (75% or greater). If your dog has a strong match to one of our validated breeds, then it is categorized as Level 1. Most mixed breed dogs will not usually have a breed in this category unless one or both of their parents are purebred.

Level 2

This category reports breeds that are easily recognizable within your dog. While these breeds may have a strong influence on your pet, each breed listed makes up less than the majority of your dog's DNA, between 37%-74%. This usually means one of the parents was a purebred.

Level 3

This category identifies breeds that have between 20%-36% of the listed breed(s), usually coming from a grandparent.

Level 4

Represents 10%-20% of the breed DNA, usually coming from a great grandparent

Level 5

This level represents the lowest level of breed in your dog occurring at 5% or less. However, they still appear at a low and measurable amount in your dog's DNA.

Please be aware that this breed identification test is designed for the sole purpose of identifying breeds found in the genetic composition of mixed breed dogs. The test can only identify breeds, from those present in our database. It cannot be used to exclude the chance of any other breed being present at some point in the lineage.



Canine Breed Determination

Importance of breed results: Acquiring genetic breed heritage knowledge will help educate you about your dog and his or her special health and behaviour traits. You can now be proactive about many of the important factors affecting your dog's life. You possess insight into your dog's unique genetic background, including the history of its breed, personality traits, exercise levels, and much more! You have information on any diseases to which your dog may be predisposed. Please make sure to discuss any health issues with your vet and be proactive before any serious illness strikes.

Your Dog's Dominant Characteristics

Level 1:

Not Present

Level 2:

Flat-Coated Retriever

Description: The Flat-Coated Retriever is a great family dog, with a reliable temperament. Friendly, sweet and high-spirited, they love everyone, even strangers. They have a puppy-like attitude and always appear to be in good spirits. They love to play and retrieve, and with enough exercise they will be quiet indoors, saving the activity for the outside. They are active, obedient and highly trainable, and can get bored easily without variety. They react well to short and fun training sessions.

Health: Although generally a health breed, cancer is common in the Flat-Coated Retriever. Hip dysplasia, PRA, CHD, epilepsy and diabetes are occasionally seen.

Labrador Retriever

Description: Kindly, outgoing and eager to please, the Labrador Retriever is non-aggressive toward people or other dogs. They are gentle, patient and reliable. They are extremely lovable and crave human attention. They want to be part of their human family. They make good watch dogs as opposed to guard dogs, as they are alert and vigilant, but not aggressive. They love to play, especially in water, and will choose play over food.

Health: The Labrador Retriever is prone to hip and elbow dysplasia. They may suffer from Progressive Retinal Atrophy (PRA) and other eye disorders.

Level 3:

Not Present

Level 4:

Border Collie

Description: Outgoing, friendly and affectionate with friends, the Border Collie is reserved with strangers. They are highly intelligent, very motivated, enjoy working, and may become neurotic if not given enough to do. They are not usually nervous or aggressive. They have a very strong herding instinct which they will use to attempt to herd cats or other small animals.

Health: The Border Collie is one of the healthiest of all breeds, although deafness and allergies may occur in older dogs. Hereditary eye diseases can be mild, or progress to blindness. Epilepsy and heart disease are also growing concerns in this breed.

Level 5:

German Shepherd Dog

Description: The German Shepherd Dog is intelligent and eager to please. They are extremely loyal and protective of their families, and suspicious of strangers, especially in the company of their masters. They are devoted and fearless. They have a high learning ability and are extremely responsive to training. If not properly socialized at an early age, they can be unruly due to a lack of self-confidence. If timid, they may be prone to fear biting.

Health:

The German Shepherd Dog is prone to hip and elbow dysplasia. They may also suffer from aortic Stenosis, an abnormal narrowing of the aortic valve, which may impede the flow of blood to the arteries. They may also have chronic eczema and flea allergies.

VIA-PET uses a computer algorithm that performs 30 million calculations to predict the most likely pedigree. The combination of breeds for the last 30 generations are displayed depicting the best statistical results are.

Your Dog's Unique Genetic Sequence

GCTTCCTTGCTCCCGACCAAGGCGGCCTGGAGAGAGGAAGCGGAATCTGCTCGGGGTTGCATTGTGGAT
GCCAATCTCAGTGTTCTCAATTTGGTTATTGTGAAAAAATGGGAGAAGGATACTCCTGGACTCACTGATA
CTACTGTGCCTCGTCGCCTGGGGCCCAAAGAGCCAGCAGAATCCCAAAGCTTTCTAATCTGTCAAAGA
AGACGATGCCACCAGTATGCTGCTGGAAAGCCCTAAACAAAGAAGGTAAGAAACCTAGAACCAAAGCA
CCCAAGATTCAGCGTCTTGTTACTCCACGTGTCCTCCAACACAAACGTGGCGTATTGCTTTGAAGAAAC
AGCGTACTAAGAAAAATAAGGAAGAGGCTGCAGAATATGCTAAACTTTGGCCAAGAGAATGAAGGAGGC

MDR1 and EIC Screening Results

Condition Tested	Gene	Test Results
Multi – Drug Resistance	MDR1	Negative
Exercise Induce Collapse	EIC	Negative