

AMERICAN KENNEL CLUB · FOUNDED 1884

Certified Pedigree

Sire BREEZY RIDGE LITTLE RED PAPRIKA
PR20529303 (09-19) RD AKC DNA #V901636

PAPIS LITTLE SNOOPY

PR22390802
POODLE MALE RD
Date Whelped: 12/29/2019
Breeder: CRIST MILLER/MARLIN HOSTETLER

Dam BREEZY RIDGE'S LOVELY LITTE
MAHOGANY
PR20584502 (09-19) RD



AMERICAN
KENNEL CLUB®

Genia DiNardo
Executive Secretary

GC RED ROYAL BRODY
PR17844504 (03-16) RD AKC DNA #V812250

ASHBY'S MASSA
PR19721501 (04-18) RD

BLANK'S RED STORM
PR16923701 (06-15) RD AKC DNA #V783779

BLANKS RED SHELBY
PR18967904 (09-17) RD

GRAND RIVERS DREAM CATCHER AT
SANDYS
PR16253302 (09-13) APCT AKC DNA
#V691895

SANDY'S JILLAROO TOO
PR16903203 (11-14) RD

GC RED ROYAL BRODY
PR17844504 (03-16) RD AKC DNA #V812250

ASHBY'S FIRED RED NESSA
PR16970203 (01-17) RD

RHETT BUTTLER ALLISON
PR16098203 (06-13) RD & APCT AKC DNA
#V718735

SCARLETT OHARA ALLISON
PR16107105 (08-13) RD & WH

KIM'S CHILI PEPPER
PR17137802 (01-15) RD AKC DNA #V902627

RED DIAMOND'S ABBY
PR16714906 (01-15) RD

The Seal of The American Kennel Club affixed hereto certifies that this pedigree was compiled from official Stud Book records on March 6, 2020.

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

PAPIS LITTLE SNOOPY
registered name

POODLE, MINIATURE
sex/breed

film/test/lab #

991003000382246
tattoo/microchip/DNA profile

2365778
application number

06/07/2022
date of report

RESULTS:

Based upon the radiograph submitted, the consensus was that no evidence of elbow dysplasia was recognized.

owner JOHN MILLER JR.
29575 TR 469
FRESNO OH 43824

PR22390802
registration no.

M

12/29/2019
date of birth

28
age at evaluation in months



A Not-For-Profit Organization

PO-EL7593M28-U-VPI
O.F.A. NUMBER

This number issued with the right to correct or revoke by the Orthopedic Foundation for Animals.

NORMAL

OFA eCert



Verify QR scan

G.G. Keller, DVM

G.G.KELLER, D.V.M., M.S., DACVR
CHIEF OF VETERINARY SERVICES

www.ofa.org

This electronic OFA certificate was generated on: 06/07/2022

This certification can be verified on the OFA website by entering the dog's registration number into the orange search box located at the top of the page or by scanning the QR code above.

If there are any errors on this certificate, please email CORRECTIONS@OFFA.ORG to request a correction.

Orthopedic Foundation for Animals, Inc.
2300 E. Nifong Blvd.
Columbia, MO 65201-3806

OFA website: www.ofa.org
E-mail address: ofa@offa.org
Phone number: 573-442-0418
Fax number: 573-875-5073

ORTHOPEDIC FOUNDATION FOR ANIMALS, INC.

PAPIS LITTLE SNOOPY
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991003000382246
tattoo/microchip/DNA profile

2365778
application number

06/07/2022
date of report

RESULTS:

Based upon the radiograph submitted, the consensus was that no evidence of hip dysplasia was recognized. The hip joint conformation was evaluated as:

PR22390802
registration no.

M

12/29/2019
date of birth

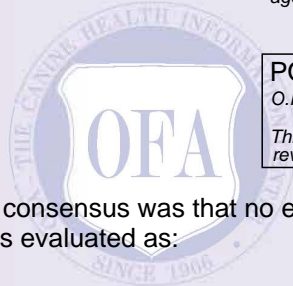
28
age at evaluation in months



A Not-For-Profit Organization

PO-31766G28M-U-VPI
O.F.A. NUMBER

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revoke by the Orthopedic Foundation for Animals.*



GOOD

owner JOHN MILLER JR.
29575 TR 469
FRESNO OH 43824

OFA eCert



Verify QR scan

G.G.KELLER, D.V.M., M.S., DACVR
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BREED ANCESTRY

 Poodle (Small) : 100.0%

GENETIC STATS

Predicted adult weight: **16 lbs**

Genetic age: n/a (Date of birth unknown)

TEST DETAILS

Kit number: EM-38573700

Swab number: 31210901648227

POODLE (SMALL)



Miniature and toy poodles are varieties of the poodle breed which originated in Germany in the 15th century. Unlike the larger standard poodle (>15 inches tall), these small poodles were not developed for hunting---except for truffles!---and were generally used as lap dogs and companions. Small poodles are frequently used to create designer dogs like Schnoodles and Maltipoos with low-shedding, hypoallergenic coats. All poodles are highly intelligent and energetic, and need daily exercise and stimulation. They are overall healthy dogs, although heritable eye disease, epilepsy and allergies are relatively common, and toy poodles also have a heightened risk of accidents/trauma due to their small size.

Alternative Names

Toy Poodle, Miniature Poodle

Fun Fact

Although Toy Poodles are the most popular dog breed in Japan, Poodles as a group are the eight most popular breed in the US, with miniature poodles being the most common variety.

MATERNAL LINE



Through Snoopy's mitochondrial DNA we can trace his mother's ancestry back to where dogs and people first became friends. This map helps you visualize the routes that his ancestors took to your home. Their story is described below the map.

HAPLOGROUP: A1d

This female lineage can be traced back about 15,000 years to some of the original Central Asian wolves that were domesticated into modern dogs. The early females that represent this lineage were likely taken into Eurasia, where they spread rapidly. As a result, many modern breed and village dogs from the Americas, Africa, through Asia and down into Oceania belong to this group! This widespread lineage is not limited to a select few breeds, but the majority of Rottweilers, Afghan Hounds and Wirehaired Pointing Griffons belong to it. It is also the most common female lineage among Papillons, Samoyeds and Jack Russell Terriers. Considering its occurrence in breeds as diverse as Afghan Hounds and Samoyeds, some of this is likely ancient variation. But because of its presence in many modern European breeds, much of its diversity likely can be attributed to much more recent breeding.

HAPLOTYPE: A341

Part of the large A1d haplogroup, this haplotype has been detected in Miniature Poodles and village dogs from the Democratic Republic of the Congo.

PATERNAL LINE



Through Snoopy's Y chromosome we can trace his father's ancestry back to where dogs and people first became friends. This map helps you visualize the routes that his ancestors took to your home. Their story is described below the map.

HAPLOGROUP: A1b

For most of dog history, this haplogroup was probably quite rare. However, a couple hundred years ago it seems to have found its way into a prized male guard dog in Europe who had many offspring, including the ancestors of many European guard breeds such as Doberman Pinchers, St. Bernards, and Great Danes. Despite being rare, many of the most imposing dogs on Earth have it; strangely, so do many Pomeranians! Perhaps this explains why some Poms are so tough, acting like they're ten times their actual size! This lineage is most commonly found in working dogs, in particular guard dogs. With origins in Europe, it spread widely across other regions as Europeans took their dogs across the world.

HAPLOTYPE: Ha.7

Part of the A1b haplogroup, this haplotype is found in village dogs from Lebanon and Indonesia. Among breeds, it is also found in Miniature Schnauzer and Toy Poodle.

TRAITS: COAT COLOR

TRAIT	RESULT
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E Locus (MC1R)

The E Locus determines if and where a dog can produce dark (black or brown) hair. Dogs with two copies of the recessive **e** allele do not produce dark hairs at all, and will be "red" over their entire body. The shade of red, which can range from a deep copper to yellow/gold to cream, is dependent on other genetic factors including the Intensity loci. In addition to determining if a dog can develop dark hairs at all, the E Locus can give a dog a black "mask" or "widow's peak," unless the dog has overriding coat color genetic factors.

Dogs with one or two copies of the **Em** allele usually have a melanistic mask (dark facial hair as commonly seen in the German Shepherd and Pug). Dogs with no copies of **Em** but one or two copies of the **Eg** allele usually have a melanistic "widow's peak" (dark forehead hair as commonly seen in the Afghan Hound and Borzoi, where it is called either "grizzle" or "domino").

No dark hairs
anywhere (ee)

K Locus (CBD103)

The K Locus **K^B** allele "overrides" the A Locus, meaning that it prevents the A Locus genotype from affecting coat color. For this reason, the **K^B** allele is referred to as the "dominant black" allele. As a result, dogs with at least one **K^B** allele will usually have solid black or brown coats (or red/cream coats if they are **ee** at the E Locus) regardless of their genotype at the A Locus, although several other genes could impact the dog's coat and cause other patterns, such as white spotting. Dogs with the **k^Yk^Y** genotype will show a coat color pattern based on the genotype they have at the A Locus. Dogs who test as **K^Bk^Y** may be brindle rather than black or brown.

Not expressed (K^BK^B)

TRAITS: COAT COLOR (CONTINUED)

TRAIT	RESULT
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Intensity Loci LINKAGE

Areas of a dog's coat where dark (black or brown) pigment is not expressed either contain red/yellow pigment, or no pigment at all. Five locations across five chromosomes explain approximately 70% of red pigmentation "intensity" variation across all dogs. Dogs with a result of **Intense Red Pigmentation** will likely have deep red hair like an Irish Setter or "apricot" hair like some Poodles, dogs with a result of **Intermediate Red Pigmentation** will likely have tan or yellow hair like a Soft-Coated Wheaten Terrier, and dogs with **Dilute Red Pigmentation** will likely have cream or white hair like a Samoyed. Because the mutations we test may not directly cause differences in red pigmentation intensity, we consider this to be a linkage test.

Any pigmented hair likely apricot or red (Intense Red Pigmentation)

A Locus (ASIP)

The A Locus controls switching between black and red pigment in hair cells, but it will only be expressed in dogs that are not **ee** at the E Locus and are **k^yk^y** at the K Locus. Sable (also called "Fawn") dogs have a mostly or entirely red coat with some interspersed black hairs. Agouti (also called "Wolf Sable") dogs have red hairs with black tips, mostly on their head and back. Black and tan dogs are mostly black or brown with lighter patches on their cheeks, eyebrows, chest, and legs. Recessive black dogs have solid-colored black or brown coats.

Not expressed (a^ta^t)

D Locus (MLPH)

The D locus result that we report is determined by two different genetic variants that can work together to cause diluted pigmentation. These are the common **d** allele, also known as "**d1**", and a less common allele known as "**d2**". Dogs with two **d** alleles, regardless of which variant, will have all black pigment lightened ("diluted") to gray, or brown pigment lightened to lighter brown in their hair, skin, and sometimes eyes. There are many breed-specific names for these dilute colors, such as "blue", "charcoal", "fawn", "silver", and "Isabella". Note that in certain breeds, dilute dogs have a higher incidence of Color Dilution Alopecia. Dogs with one **d** allele will not be dilute, but can pass the **d** allele on to their puppies. To view your dog's **d1** and **d2** test results, click the "SEE DETAILS" link in the upper right hand corner of the "Base Coat Color" section of the Traits page, and then click the "VIEW SUBLOCUS RESULTS" link at the bottom of the page.

Not expressed (DD)

TRAITS: COAT COLOR (CONTINUED)

TRAIT	RESULT
<p>Cocoa (HPS3)</p> <p>Dogs with the coco genotype will produce dark brown pigment instead of black in both their hair and skin. Dogs with the Nco genotype will produce black pigment, but can pass the co allele on to their puppies. Dogs that have the coco genotype as well as the bb genotype at the B locus are generally a lighter brown than dogs that have the Bb or BB genotypes at the B locus.</p>	<p>No co alleles, not expressed (NN)</p>
<p>B Locus (TYRP1)</p> <p>Dogs with two copies of the b allele produce brown pigment instead of black in both their hair and skin. Dogs with one copy of the b allele will produce black pigment, but can pass the b allele on to their puppies. E Locus ee dogs that carry two b alleles will have red or cream coats, but have brown noses, eye rims, and footpads (sometimes referred to as "Dudley Nose" in Labrador Retrievers). "Liver" or "chocolate" is the preferred color term for brown in most breeds; in the Doberman Pinscher it is referred to as "red".</p>	<p>Likely black colored nose/feet (BB)</p>
<p>Saddle Tan (RALY)</p> <p>The "Saddle Tan" pattern causes the black hairs to recede into a "saddle" shape on the back, leaving a tan face, legs, and belly, as a dog ages. The Saddle Tan pattern is characteristic of breeds like the Corgi, Beagle, and German Shepherd. Dogs that have the ll genotype at this locus are more likely to be mostly black with tan points on the eyebrows, muzzle, and legs as commonly seen in the Doberman Pinscher and the Rottweiler. This gene modifies the A Locus a^t allele, so dogs that do not express a^t are not influenced by this gene.</p>	<p>Not expressed (ll)</p>
<p>S Locus (MITF)</p> <p>The S Locus determines white spotting and pigment distribution. MITF controls where pigment is produced, and an insertion in the MITF gene causes a loss of pigment in the coat and skin, resulting in white hair and/or pink skin. Dogs with two copies of this variant will likely have breed-dependent white patterning, with a nearly white, parti, or piebald coat. Dogs with one copy of this variant will have more limited white spotting and may be considered flash, parti or piebald. This MITF variant does not explain all white spotting patterns in dogs and other variants are currently being researched. Some dogs may have small amounts of white on the paws, chest, face, or tail regardless of their S Locus genotype.</p>	<p>Likely to have little to no white in coat (SS)</p>

TRAITS: COAT COLOR (CONTINUED)

TRAIT	RESULT
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M Locus (PMEL)

Merle coat patterning is common to several dog breeds including the Australian Shepherd, Catahoula Leopard Dog, and Shetland Sheepdog, among many others. Merle arises from an unstable SINE insertion (which we term the "M*" allele) that disrupts activity of the pigmentary gene PMEL, leading to mottled or patchy coat color. Dogs with an **M*m** result are likely to be phenotypically merle or could be "non-expressing" merle, meaning that the merle pattern is very subtle or not at all evident in their coat. Dogs with an **M*M*** result are likely to be phenotypically merle or double merle. Dogs with an **mm** result have no merle alleles and are unlikely to have a merle coat pattern.

No merle alleles (mm)

Note that Embark does not currently distinguish between the recently described cryptic, atypical, atypical+, classic, and harlequin merle alleles. Our merle test only detects the presence, but not the length of the SINE insertion. We do not recommend making breeding decisions on this result alone. Please pursue further testing for allelic distinction prior to breeding decisions.

R Locus (USH2A) LINKAGE

The R Locus regulates the presence or absence of the roan coat color pattern. Partial duplication of the USH2A gene is strongly associated with this coat pattern. Dogs with at least one **R** allele will likely have roaning on otherwise uniformly unpigmented white areas. Roan appears in white areas controlled by the S Locus but not in other white or cream areas created by other loci, such as the E Locus with **ee** along with Dilute Red Pigmentation by I Locus (for example, in Samoyeds). Mechanisms for controlling the extent of roaning are currently unknown, and roaning can appear in a uniform or non-uniform pattern. Further, non-uniform roaning may appear as ticked, and not obviously roan. The roan pattern can appear with or without ticking.

Likely no impact on coat pattern (rr)

H Locus (Harlequin)

This pattern is recognized in Great Danes and causes dogs to have a white coat with patches of darker pigment. A dog with an **Hh** result will be harlequin if they are also **M*m** or **M*M*** at the M Locus and are not **ee** at the E locus. Dogs with a result of **hh** will not be harlequin. This trait is thought to be homozygous lethal; a living dog with an **HH** genotype has never been found.

No harlequin alleles (hh)

TRAITS: OTHER COAT TRAITS

TRAIT	RESULT
<p>Furnishings (RSPO2) LINKAGE</p> <p>Dogs with one or two copies of the F allele have "furnishings": the mustache, beard, and eyebrows characteristic of breeds like the Schnauzer, Scottish Terrier, and Wire Haired Dachshund. A dog with two I alleles will not have furnishings, which is sometimes called an "improper coat" in breeds where furnishings are part of the breed standard. The mutation is a genetic insertion which we measure indirectly using a linkage test highly correlated with the insertion.</p>	<p>Likely furnished (mustache, beard, and/or eyebrows) (FF)</p>
<p>Coat Length (FGF5)</p> <p>The FGF5 gene is known to affect hair length in many different species, including cats, dogs, mice, and humans. In dogs, the T allele confers a long, silky haircoat as observed in the Yorkshire Terrier and the Long Haired Whippet. The ancestral G allele causes a shorter coat as seen in the Boxer or the American Staffordshire Terrier. In certain breeds (such as Corgi), the long haircoat is described as "fluff."</p>	<p>Likely long coat (TT)</p>
<p>Shedding (MC5R)</p> <p>Dogs with at least one copy of the ancestral C allele, like many Labradors and German Shepherd Dogs, are heavy or seasonal shedders, while those with two copies of the T allele, including many Boxers, Shih Tzus and Chihuahuas, tend to be lighter shedders. Dogs with furnished/wire-haired coats caused by RSPO2 (the furnishings gene) tend to be low shedders regardless of their genotype at this gene.</p>	<p>Likely light shedding (CT)</p>
<p>Hairlessness (FOXI3) LINKAGE</p> <p>A duplication in the FOXI3 gene causes hairlessness over most of the body as well as changes in tooth shape and number. This mutation occurs in Peruvian Inca Orchid, Xoloitzcuintli (Mexican Hairless), and Chinese Crested (other hairless breeds have different mutations). Dogs with the NDup genotype are likely to be hairless while dogs with the NN genotype are likely to have a normal coat. The DupDup genotype has never been observed, suggesting that dogs with that genotype cannot survive to birth. Please note that this is a linkage test, so it may not be as predictive as direct tests of the mutation in some lines.</p>	<p>Very unlikely to be hairless (NN)</p>
<p>Hairlessness (SGK3)</p> <p>Hairlessness in the American Hairless Terrier arises from a mutation in the SGK3 gene. Dogs with the DD result are likely to be hairless. Dogs with the ND genotype will have a normal coat, but can pass the D</p>	<p>Very unlikely to be hairless (NN)</p>

TRAITS: OTHER COAT TRAITS (CONTINUED)

TRAIT	RESULT
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Oculocutaneous Albinism Type 2 (SLC45A2) LINKAGE

Dogs with two copies **DD** of this deletion in the SLC45A2 gene have oculocutaneous albinism (OCA), also known as Doberman Z Factor Albinism, a recessive condition characterized by severely reduced or absent pigment in the eyes, skin, and hair. Affected dogs sometimes suffer from vision problems due to lack of eye pigment (which helps direct and absorb ambient light) and are prone to sunburn. Dogs with a single copy of the deletion **ND** will not be affected but can pass the mutation on to their offspring. This particular mutation can be traced back to a single white Doberman Pinscher born in 1976, and it has only been observed in dogs descended from this individual. Please note that this is a linkage test, so it may not be as predictive as direct tests of the mutation in some lines.

Likely not albino (NN)

Coat Texture (KRT71)

Dogs with a long coat and at least one copy of the **T** allele have a wavy or curly coat characteristic of Poodles and Bichon Frises. Dogs with two copies of the ancestral **C** allele are likely to have a straight coat, but there are other factors that can cause a curly coat, for example if they at least one **F** allele for the Furnishings (RSPO2) gene then they are likely to have a curly coat. Dogs with short coats may carry one or two copies of the **T** allele but still have straight coats.

Likely curly coat (TT)

TRAITS: OTHER BODY FEATURES

TRAIT	RESULT
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Muzzle Length (BMP3)

Dogs in medium-length muzzle (mesocephalic) breeds like Staffordshire Terriers and Labradors, and long muzzle (dolichocephalic) breeds like Whippet and Collie have one, or more commonly two, copies of the ancestral **C** allele. Dogs in many short-length muzzle (brachycephalic) breeds such as the English Bulldog, Pug, and Pekingese have two copies of the derived **A** allele. At least five different genes affect muzzle length in dogs, with BMP3 being the only one with a known causal mutation. For example, the skull shape of some breeds, including the dolichocephalic Scottish Terrier or the brachycephalic Japanese Chin, appear to be caused by other genes. Thus, dogs may have short or long muzzles due to other genetic factors that are not yet known to science.

Likely medium or long muzzle (AC)

Tail Length (T)

Whereas most dogs have two **C** alleles and a long tail, dogs with one **G** allele are likely to have a bobtail, which is an unusually short or absent tail. This mutation causes natural bobtail in many breeds including the Pembroke Welsh Corgi, the Australian Shepherd, and the Brittany Spaniel. Dogs with **GG** genotypes have not been observed, suggesting that dogs with the **GG** genotype do not survive to birth. Please note that this mutation does not explain every natural bobtail! While certain lineages of Boston Terrier, English Bulldog, Rottweiler, Miniature Schnauzer, Cavalier King Charles Spaniel, and Parson Russell Terrier, and Dobermans are born with a natural bobtail, these breeds do not have this mutation. This suggests that other unknown genetic mutations can also lead to a natural bobtail.

Likely normal-length tail (CC)

Hind Dewclaws (LMBR1)

Common in certain breeds such as the Saint Bernard, hind dewclaws are extra, nonfunctional digits located midway between a dog's paw and hock. Dogs with at least one copy of the **T** allele have about a 50% chance of having hind dewclaws. Note that other (currently unknown to science) mutations can also cause hind dewclaws, so some **CC** or **TC** dogs will have hind dewclaws.

Unlikely to have hind dew claws (CC)

TRAITS: OTHER BODY FEATURES (CONTINUED)

TRAIT	RESULT
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Blue Eye Color (ALX4) LINKAGE

Embark researchers discovered this large duplication associated with blue eyes in Arctic breeds like Siberian Husky as well as tri-colored (non-merle) Australian Shepherds. Dogs with at least one copy of the duplication (**Dup**) are more likely to have at least one blue eye. Some dogs with the duplication may have only one blue eye (complete heterochromia) or may not have blue eyes at all; nevertheless, they can still pass the duplication and the trait to their offspring. **NN** dogs do not carry this duplication, but may have blue eyes due to other factors, such as merle. Please note that this is a linkage test, so it may not be as predictive as direct tests of the mutation in some lines.

Less likely to have blue eyes (NN)

Back Muscling & Bulk, Large Breed (ACSL4)

The **T** allele is associated with heavy muscling along the back and trunk in characteristically "bulky" large-breed dogs including the Saint Bernard, Bernese Mountain Dog, Greater Swiss Mountain Dog, and Rottweiler. The "bulky" **T** allele is absent from leaner shaped large breed dogs like the Great Dane, Irish Wolfhound, and Scottish Deerhound, which are fixed for the ancestral **C** allele. Note that this mutation does not seem to affect muscling in small or even mid-sized dog breeds with notable back muscling, including the American Staffordshire Terrier, Boston Terrier, and the English Bulldog.

Likely normal muscling (CC)

TRAITS: BODY SIZE

TRAIT	RESULT
Body Size (IGF1) The I allele is associated with smaller body size.	Smaller (II)
Body Size (IGFR1) The A allele is associated with smaller body size.	Intermediate (GA)
Body Size (STC2) The A allele is associated with smaller body size.	Larger (TT)
Body Size (GHR - E191K) The A allele is associated with smaller body size.	Smaller (AA)
Body Size (GHR - P177L) The T allele is associated with smaller body size.	Larger (CC)

TRAITS: PERFORMANCE

TRAIT

RESULT

Altitude Adaptation (EPAS1)

This mutation causes dogs to be especially tolerant of low oxygen environments (hypoxia), such as those found at high elevations. Dogs with at least one **A** allele are less susceptible to "altitude sickness." This mutation was originally identified in breeds from high altitude areas such as the Tibetan Mastiff.

Normal altitude tolerance (GG)

Appetite (POMC) LINKAGE

This mutation in the POMC gene is found primarily in Labrador and Flat Coated Retrievers. Compared to dogs with no copies of the mutation (**NN**), dogs with one (**ND**) or two (**DD**) copies of the mutation are more likely to have high food motivation, which can cause them to eat excessively, have higher body fat percentage, and be more prone to obesity. Read more about the genetics of POMC, and learn how you can contribute to research, in our blog post (<https://embarkvet.com/resources/blog/pomc-dogs/>). We measure this result using a linkage test.

Normal food motivation (NN)

CLINICAL TOOLS

These clinical genetic tools can inform clinical decisions and diagnoses. These tools do not predict increased risk for disease.

Alanine Aminotransferase Activity (GPT)

 Snoopy's baseline ALT level may be Low Normal

Why is this important to your vet?

Snoopy has one copy of a variant associated with reduced ALT activity as measured on veterinary blood chemistry panels. Please inform your veterinarian that Snoopy has this genotype, as ALT is often used as an indicator of liver health and Snoopy is likely to have a lower than average resting ALT activity. As such, an increase in Snoopy's ALT activity could be evidence of liver damage, even if it is within normal limits by standard ALT reference ranges.

What is Alanine Aminotransferase Activity?

Alanine aminotransferase (ALT) is a clinical tool that can be used by veterinarians to better monitor liver health. This result is not associated with liver disease. ALT is one of several values veterinarians measure on routine blood work to evaluate the liver. It is a naturally occurring enzyme located in liver cells that helps break down protein. When the liver is damaged or inflamed, ALT is released into the bloodstream.

How vets diagnose this condition

Genetic testing is the only way to provide your veterinarian with this clinical tool.

How this condition is treated

Veterinarians may recommend blood work to establish a baseline ALT value for healthy dogs with one or two copies of this variant.

HEALTH REPORT

How to interpret Snoopy's genetic health results:

If Snoopy inherited any of the variants that we tested, they will be listed at the top of the Health Report section, along with a description of how to interpret this result. We also include all of the variants that we tested Snoopy for that we did not detect the risk variant for.

A genetic test is not a diagnosis

This genetic test does not diagnose a disease. Please talk to your vet about your dog's genetic results, or if you think that your pet may have a health condition or disease.



Good news!

Snoopy is not at increased risk for the genetic health conditions that Embark tests.

Breed-Relevant Genetic Conditions

6 variants not detected



Additional Genetic Conditions

213 variants not detected



BREED-RELEVANT CONDITIONS TESTED



Snoopy did not have the variants that we tested for, that are relevant to his breed:

- ✔ Von Willebrand Disease Type I, Type I vWD (VWF)
- ✔ Progressive Retinal Atrophy, prcd (PRCD Exon 1)
- ✔ GM2 Gangliosidosis (HEXB, Poodle Variant)
- ✔ Neonatal Encephalopathy with Seizures, NEWS (ATF2)
- ✔ Osteochondrodysplasia, Skeletal Dwarfism (SLC13A1, Poodle Variant)
- ✔ Chondrodystrophy and Intervertebral Disc Disease, CDDY/IVDD, Type I IVDD (FGF4 retrogene - CFA12)

ADDITIONAL CONDITIONS TESTED



Snoopy did not have the variants that we tested for, in the following conditions that the potential effect on dogs with Snoopy's breed may not yet be known.

- ✔ MDR1 Drug Sensitivity (ABCB1)
- ✔ P2Y12 Receptor Platelet Disorder (P2Y12)
- ✔ Factor IX Deficiency, Hemophilia B (F9 Exon 7, Terrier Variant)
- ✔ Factor IX Deficiency, Hemophilia B (F9 Exon 7, Rhodesian Ridgeback Variant)
- ✔ Factor VII Deficiency (F7 Exon 5)
- ✔ Factor VIII Deficiency, Hemophilia A (F8 Exon 10, Boxer Variant)
- ✔ Factor VIII Deficiency, Hemophilia A (F8 Exon 11, German Shepherd Variant 1)
- ✔ Factor VIII Deficiency, Hemophilia A (F8 Exon 1, German Shepherd Variant 2)
- ✔ Thrombopathia (RASGRP1 Exon 5, Basset Hound Variant)
- ✔ Thrombopathia (RASGRP1 Exon 8, Landseer Variant)
- ✔ Thrombopathia (RASGRP1 Exon 5, American Eskimo Dog Variant)
- ✔ Von Willebrand Disease Type III, Type III vWD (VWF Exon 4, Terrier Variant)
- ✔ Von Willebrand Disease Type III, Type III vWD (VWF Exon 7, Shetland Sheepdog Variant)
- ✔ Von Willebrand Disease Type II, Type II vWD (VWF, Pointer Variant)
- ✔ Canine Leukocyte Adhesion Deficiency Type I, CLAD I (ITGB2, Setter Variant)
- ✔ Canine Leukocyte Adhesion Deficiency Type III, CLAD III (FERMT3, German Shepherd Variant)
- ✔ Congenital Macrothrombocytopenia (TUBB1 Exon 1, Cairn and Norfolk Terrier Variant)
- ✔ Canine Elliptocytosis (SPTB Exon 30)
- ✔ Glanzmann's Thrombasthenia Type I (ITGA2B Exon 13, Great Pyrenees Variant)
- ✔ Glanzmann's Thrombasthenia Type I (ITGA2B Exon 12, Otterhound Variant)
- ✔ May-Hegglin Anomaly (MYH9)
- ✔ Prekallikrein Deficiency (KLKB1 Exon 8)
- ✔ Pyruvate Kinase Deficiency (PKLR Exon 5, Basenji Variant)

ADDITIONAL CONDITIONS TESTED

- ✔ Pyruvate Kinase Deficiency (PKLR Exon 7, Beagle Variant)
- ✔ Pyruvate Kinase Deficiency (PKLR Exon 10, Terrier Variant)
- ✔ Trapped Neutrophil Syndrome, TNS (VPS13B)
- ✔ Ligneous Membranitis, LM (PLG)
- ✔ Platelet Factor X Receptor Deficiency, Scott Syndrome (TMEM16F)
- ✔ Methemoglobinemia (CYB5R3)
- ✔ Bernard-Soulier Syndrome, BSS (GP9, Cocker Spaniel Variant)
- ✔ Congenital Hypothyroidism (TPO, Tenterfield Terrier Variant)
- ✔ Congenital Hypothyroidism (TPO, Rat, Toy, Hairless Terrier Variant)
- ✔ Congenital Dyshormonogenic Hypothyroidism with Goiter (SLC5A5, Shih Tzu Variant)
- ✔ Complement 3 Deficiency, C3 Deficiency (C3)
- ✔ Severe Combined Immunodeficiency, SCID (PRKDC, Terrier Variant)
- ✔ Severe Combined Immunodeficiency, SCID (RAG1, Wetterhoun Variant)
- ✔ X-linked Severe Combined Immunodeficiency, X-SCID (IL2RG Exon 1, Basset Hound Variant)
- ✔ X-linked Severe Combined Immunodeficiency, X-SCID (IL2RG, Corgi Variant)
- ✔ Progressive Retinal Atrophy, rcd1 (PDE6B Exon 21, Irish Setter Variant)
- ✔ Progressive Retinal Atrophy, rcd3 (PDE6A)
- ✔ Progressive Retinal Atrophy, CNGA (CNGA1 Exon 9)
- ✔ Progressive Retinal Atrophy, PRA1 (CNGB1)
- ✔ Progressive Retinal Atrophy (SAG)
- ✔ Golden Retriever Progressive Retinal Atrophy 1, GR-PRA1 (SLC4A3)
- ✔ Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2 (TTC8)
- ✔ Progressive Retinal Atrophy, crd1 (PDE6B, American Staffordshire Terrier Variant)
- ✔ Progressive Retinal Atrophy, crd4/cord1 (RPGRIP1)
- ✔ X-Linked Progressive Retinal Atrophy 1, XL-PRA1 (RPGR)

ADDITIONAL CONDITIONS TESTED

- ✔ Progressive Retinal Atrophy, PRA3 (FAM161A)
- ✔ Collie Eye Anomaly, Choroidal Hypoplasia, CEA (NHEJ1)
- ✔ Day Blindness, Cone Degeneration, Achromatopsia (CNGB3 Deletion, Alaskan Malamute Variant)
- ✔ Day Blindness, Cone Degeneration, Achromatopsia (CNGB3 Exon 6, German Shorthaired Pointer Variant)
- ✔ Achromatopsia (CNGA3 Exon 7, German Shepherd Variant)
- ✔ Achromatopsia (CNGA3 Exon 7, Labrador Retriever Variant)
- ✔ Autosomal Dominant Progressive Retinal Atrophy (RHO)
- ✔ Canine Multifocal Retinopathy, cmr1 (BEST1 Exon 2)
- ✔ Canine Multifocal Retinopathy, cmr2 (BEST1 Exon 5, Coton de Tulear Variant)
- ✔ Canine Multifocal Retinopathy, cmr3 (BEST1 Exon 10 Deletion, Finnish and Swedish Lapphund, Lapponian Herder Variant)
- ✔ Primary Open Angle Glaucoma (ADAMTS10 Exon 9, Norwegian Elkhound Variant)
- ✔ Primary Open Angle Glaucoma (ADAMTS10 Exon 17, Beagle Variant)
- ✔ Primary Open Angle Glaucoma (ADAMTS17 Exon 11, Basset Fauve de Bretagne Variant)
- ✔ Primary Open Angle Glaucoma and Primary Lens Luxation (ADAMTS17 Exon 2, Chinese Shar-Pei Variant)
- ✔ Goniodysgenesis and Glaucoma, Pectinate Ligament Dysplasia, PLD (OLFM3)
- ✔ Hereditary Cataracts, Early-Onset Cataracts, Juvenile Cataracts (HSF4 Exon 9, Australian Shepherd Variant)
- ✔ Primary Lens Luxation (ADAMTS17)
- ✔ Congenital Stationary Night Blindness (RPE65, Briard Variant)
- ✔ Congenital Stationary Night Blindness (LRIT3, Beagle Variant)
- ✔ Macular Corneal Dystrophy, MCD (CHST6)
- ✔ 2,8-Dihydroxyadenine Urolithiasis, 2,8-DHA Urolithiasis (APRT)
- ✔ Cystinuria Type I-A (SLC3A1, Newfoundland Variant)
- ✔ Cystinuria Type II-A (SLC3A1, Australian Cattle Dog Variant)
- ✔ Cystinuria Type II-B (SLC7A9, Miniature Pinscher Variant)
- ✔ Hyperuricosuria and Hyperuricemia or Urolithiasis, HUU (SLC2A9)

ADDITIONAL CONDITIONS TESTED

- ✔ Polycystic Kidney Disease, PKD (PKD1)
- ✔ Primary Hyperoxaluria (AGXT)
- ✔ Protein Losing Nephropathy, PLN (NPHS1)
- ✔ X-Linked Hereditary Nephropathy, XLHN (COL4A5 Exon 35, Samoyed Variant 2)
- ✔ Autosomal Recessive Hereditary Nephropathy, Familial Nephropathy, ARHN (COL4A4 Exon 30, English Springer Spaniel Variant)
- ✔ Autosomal Recessive Hereditary Nephropathy, Familial Nephropathy, ARHN (COL4A4 Exon 3, Cocker Spaniel Variant)
- ✔ Fanconi Syndrome (FAN1, Basenji Variant)
- ✔ Primary Ciliary Dyskinesia, PCD (CCDC39 Exon 3, Old English Sheepdog Variant)
- ✔ Primary Ciliary Dyskinesia, PCD (NME5, Alaskan Malamute Variant)
- ✔ Congenital Keratoconjunctivitis Sicca and Ichthyosiform Dermatitis, Dry Eye Curly Coat Syndrome, CKCSID (FAM83H Exon 5)
- ✔ X-linked Ectodermal Dysplasia, Anhidrotic Ectodermal Dysplasia, XHED (EDA Intron 8)
- ✔ Renal Cystadenocarcinoma and Nodular Dermatofibrosis, RCND (FLCN Exon 7)
- ✔ Canine Fucosidosis (FUCA1)
- ✔ Glycogen Storage Disease Type II, Pompe's Disease, GSD II (GAA, Finnish and Swedish Lapphund, Lapponian Herder Variant)
- ✔ Glycogen Storage Disease Type IA, Von Gierke Disease, GSD IA (G6PC, Maltese Variant)
- ✔ Glycogen Storage Disease Type IIIA, GSD IIIA (AGL, Curly Coated Retriever Variant)
- ✔ Mucopolysaccharidosis Type IIIA, Sanfilippo Syndrome Type A, MPS IIIA (SGSH Exon 6, Dachshund Variant)
- ✔ Mucopolysaccharidosis Type IIIA, Sanfilippo Syndrome Type A, MPS IIIA (SGSH Exon 6, New Zealand Huntaway Variant)
- ✔ Mucopolysaccharidosis Type VII, Sly Syndrome, MPS VII (GUSB Exon 5, Terrier Brasileiro Variant)
- ✔ Mucopolysaccharidosis Type VII, Sly Syndrome, MPS VII (GUSB Exon 3, German Shepherd Variant)
- ✔ Glycogen storage disease Type VII, Phosphofructokinase Deficiency, PFK Deficiency (PFKM, Whippet and English Springer Spaniel Variant)
- ✔ Glycogen storage disease Type VII, Phosphofructokinase Deficiency, PFK Deficiency (PFKM, Wachtelhund Variant)
- ✔ Lagotto Storage Disease (ATG4D)
- ✔ Neuronal Ceroid Lipofuscinosis 1, NCL 1 (PPT1 Exon 8, Dachshund Variant 1)
- ✔ Neuronal Ceroid Lipofuscinosis 2, NCL 2 (TPP1 Exon 4, Dachshund Variant 2)

ADDITIONAL CONDITIONS TESTED

- ✓ Neuronal Ceroid Lipofuscinosis, Cerebellar Ataxia, NCL4A (ARSG Exon 2, American Staffordshire Terrier Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 5, NCL 5 (CLN5 Exon 4 SNP, Border Collie Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 6, NCL 6 (CLN6 Exon 7, Australian Shepherd Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 8, NCL 8 (CLN8 Exon 2, English Setter Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 7, NCL 7 (MFSD8, Chihuahua and Chinese Crested Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 8, NCL 8 (CLN8, Australian Shepherd Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 10, NCL 10 (CTSD Exon 5, American Bulldog Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 5, NCL 5 (CLN5 Exon 4 Deletion, Golden Retriever Variant)
- ✓ Neuronal Ceroid Lipofuscinosis 8, NCL 8 (CLN8 Insertion, Saluki Variant)
- ✓ Late-Onset Neuronal Ceroid Lipofuscinosis, NCL 12 (ATP13A2, Australian Cattle Dog Variant)
- ✓ GM1 Gangliosidosis (GLB1 Exon 15, Shiba Inu Variant)
- ✓ GM1 Gangliosidosis (GLB1 Exon 15, Alaskan Husky Variant)
- ✓ GM1 Gangliosidosis (GLB1 Exon 2, Portuguese Water Dog Variant)
- ✓ GM2 Gangliosidosis (HEXA, Japanese Chin Variant)
- ✓ Globoid Cell Leukodystrophy, Krabbe disease (GALC Exon 5, Terrier Variant)
- ✓ Autosomal Recessive Amelogenesis Imperfecta, Familial Enamel Hypoplasia (ENAM Deletion, Italian Greyhound Variant)
- ✓ Autosomal Recessive Amelogenesis Imperfecta, Familial Enamel Hypoplasia (ENAM SNP, Parson Russell Terrier Variant)
- ✓ Persistent Mullerian Duct Syndrome, PMDS (AMHR2)
- ✓ Deafness and Vestibular Syndrome of Dobermans, DVDob, DINGS (MYO7A)
- ✓ Shar-Pei Autoinflammatory Disease, SPAID, Shar-Pei Fever (MTBP)
- ✓ Neonatal Interstitial Lung Disease (LAMP3)
- ✓ Recurrent Inflammatory Pulmonary Disease, RIPD (AKNA, Rough Collie Variant)
- ✓ Alaskan Husky Encephalopathy, Subacute Necrotizing Encephalomyelopathy (SLC19A3)
- ✓ Alexander Disease (GFAP)
- ✓ Cerebellar Abiotrophy, Neonatal Cerebellar Cortical Degeneration, NCCD (SPTBN2, Beagle Variant)

ADDITIONAL CONDITIONS TESTED

- ✓ Cerebellar Ataxia, Progressive Early-Onset Cerebellar Ataxia (SEL1L, Finnish Hound Variant)
- ✓ Cerebellar Hypoplasia (VLDLR, Eurasier Variant)
- ✓ Spinocerebellar Ataxia, Late-Onset Ataxia, LoSCA (CAPN1)
- ✓ Spinocerebellar Ataxia with Myokymia and/or Seizures (KCNJ10)
- ✓ Hereditary Ataxia, Cerebellar Degeneration (RAB24, Old English Sheepdog and Gordon Setter Variant)
- ✓ Benign Familial Juvenile Epilepsy, Remitting Focal Epilepsy (LGI2)
- ✓ Degenerative Myelopathy, DM (SOD1A)
- ✓ Fetal-Onset Neonatal Neuroaxonal Dystrophy (MFN2, Giant Schnauzer Variant)
- ✓ Hypomyelination and Tremors (FNIP2, Weimaraner Variant)
- ✓ Shaking Puppy Syndrome, X-linked Generalized Tremor Syndrome (PLP1, English Springer Spaniel Variant)
- ✓ Neuroaxonal Dystrophy, NAD (TECPR2, Spanish Water Dog Variant)
- ✓ Neuroaxonal Dystrophy, NAD (VPS11, Rottweiler Variant)
- ✓ L-2-Hydroxyglutaricaciduria, L2HGA (L2HGDH, Staffordshire Bull Terrier Variant)
- ✓ Alaskan Malamute Polyneuropathy, AMPN (NDRG1 SNP)
- ✓ Narcolepsy (HCRTR2 Intron 4, Doberman Pinscher Variant)
- ✓ Narcolepsy (HCRTR2 Intron 6, Labrador Retriever Variant)
- ✓ Narcolepsy (HCRTR2 Exon 1, Dachshund Variant)
- ✓ Progressive Neuronal Abiotrophy, Canine Multiple System Degeneration, CMSD (SERAC1 Exon 15, Kerry Blue Terrier Variant)
- ✓ Progressive Neuronal Abiotrophy, Canine Multiple System Degeneration, CMSD (SERAC1 Exon 4, Chinese Crested Variant)
- ✓ Juvenile Laryngeal Paralysis and Polyneuropathy, Polyneuropathy with Ocular Abnormalities and Neuronal Vacuolation, POANV (RAB3GAP1, Rottweiler Variant)
- ✓ Hereditary Sensory Autonomic Neuropathy, Acral Mutilation Syndrome, AMS (GDNF-AS, Spaniel and Pointer Variant)
- ✓ Sensory Neuropathy (FAM134B, Border Collie Variant)
- ✓ Juvenile-Onset Polyneuropathy, Leonberger Polyneuropathy 1, LPN1 (LPN1, ARHGEF10)
- ✓ Juvenile Myoclonic Epilepsy (DIRAS1)
- ✓ Juvenile-Onset Polyneuropathy, Leonberger Polyneuropathy 2, LPN2 (GJA9)

ADDITIONAL CONDITIONS TESTED

- ✔ Spongy Degeneration with Cerebellar Ataxia 1, SDCA1, SeSAME/EAST Syndrome (KCNJ10)
- ✔ Spongy Degeneration with Cerebellar Ataxia 2, SDCA2 (ATP1B2)
- ✔ Dilated Cardiomyopathy, DCM1 (PDK4, Doberman Pinscher Variant 1)
- ✔ Dilated Cardiomyopathy, DCM2 (TTN, Doberman Pinscher Variant 2)
- ✔ Long QT Syndrome (KCNQ1)
- ✔ Cardiomyopathy and Juvenile Mortality (YARS2)
- ✔ Muscular Dystrophy (DMD, Cavalier King Charles Spaniel Variant 1)
- ✔ Muscular Dystrophy (DMD, Golden Retriever Variant)
- ✔ Limb Girdle Muscular Dystrophy (SGCD, Boston Terrier Variant)
- ✔ Ullrich-like Congenital Muscular Dystrophy (COL6A3 Exon 10, Labrador Retriever Variant)
- ✔ Centronuclear Myopathy, CNM (PTPLA)
- ✔ Exercise-Induced Collapse, EIC (DNM1)
- ✔ Inherited Myopathy of Great Danes (BIN1)
- ✔ Myostatin Deficiency, Bully Whippet Syndrome (MSTN)
- ✔ Myotonia Congenita (CLCN1 Exon 7, Miniature Schnauzer Variant)
- ✔ Myotonia Congenita (CLCN1 Exon 23, Australian Cattle Dog Variant)
- ✔ Nemaline Myopathy (NEB, American Bulldog Variant)
- ✔ Myotubular Myopathy 1, X-linked Myotubular Myopathy, XL-MTM (MTM1, Labrador Retriever Variant)
- ✔ Inflammatory Myopathy (SLC25A12)
- ✔ Hypocatalasia, Acatlasemia (CAT)
- ✔ Pyruvate Dehydrogenase Deficiency (PDP1, Spaniel Variant)
- ✔ Malignant Hyperthermia (RYR1)
- ✔ Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption (CUBN Exon 53, Border Collie Variant)
- ✔ Imerslund-Grasbeck Syndrome, Selective Cobalamin Malabsorption (CUBN Exon 8, Beagle Variant)
- ✔ Inherited Selected Cobalamin Malabsorption with Proteinuria (CUBN, Komondor Variant)

ADDITIONAL CONDITIONS TESTED

- ✔ Lundehund Syndrome (LEPREL1)
- ✔ Congenital Myasthenic Syndrome, CMS (CHAT, Old Danish Pointing Dog Variant)
- ✔ Congenital Myasthenic Syndrome, CMS (COLQ, Labrador Retriever Variant)
- ✔ Congenital Myasthenic Syndrome, CMS (CHRNE, Jack Russell Terrier Variant)
- ✔ Congenital Myasthenic Syndrome, CMS (COLQ, Golden Retriever Variant)
- ✔ Myasthenia Gravis-Like Syndrome (CHRNE, Heideterrier Variant)
- ✔ Episodic Falling Syndrome (BCAN)
- ✔ Paroxysmal Dyskinesia, PxD (PIGN)
- ✔ Demyelinating Polyneuropathy (SBF2/MTRM13)
- ✔ Laryngeal Paralysis (RAPGEF6, Miniature Bull Terrier Variant)
- ✔ Dystrophic Epidermolysis Bullosa (COL7A1, Golden Retriever Variant)
- ✔ Dystrophic Epidermolysis Bullosa (COL7A1, Central Asian Shepherd Dog Variant)
- ✔ Ectodermal Dysplasia, Skin Fragility Syndrome (PKP1, Chesapeake Bay Retriever Variant)
- ✔ Ichthyosis, Epidermolytic Hyperkeratosis (KRT10, Terrier Variant)
- ✔ Ichthyosis, ICH1 (PNPLA1, Golden Retriever Variant)
- ✔ Ichthyosis (SLC27A4, Great Dane Variant)
- ✔ Ichthyosis (NIPAL4, American Bulldog Variant)
- ✔ Focal Non-Epidermolytic Palmoplantar Keratoderma, Pachyonychia Congenita (KRT16, Dogue de Bordeaux Variant)
- ✔ Hereditary Footpad Hyperkeratosis (FAM83G, Terrier and Kromfohrlander Variant)
- ✔ Hereditary Footpad Hyperkeratosis (DSG1, Rottweiler Variant)
- ✔ Hereditary Nasal Parakeratosis, HNPk (SUV39H2)
- ✔ Musladin-Lueke Syndrome, MLS (ADAMTSL2)
- ✔ Oculocutaneous Albinism, OCA (SLC45A2, Small Breed Variant)
- ✔ Bald Thigh Syndrome (IGFBP5)
- ✔ Lethal Acrodermatitis, LAD (MKLN1)

ADDITIONAL CONDITIONS TESTED

- ✔ Ehlers Danlos (ADAMTS2, Doberman Pinscher Variant)
- ✔ Cleft Lip and/or Cleft Palate (ADAMTS20, Nova Scotia Duck Tolling Retriever Variant)
- ✔ Hereditary Vitamin D-Resistant Rickets (VDR)
- ✔ Oculoskeletal Dysplasia 2, Dwarfism-Retinal Dysplasia 2, drd2, OSD2 (COL9A2, Samoyed Variant)
- ✔ Osteogenesis Imperfecta, Brittle Bone Disease (COL1A2, Beagle Variant)
- ✔ Osteogenesis Imperfecta, Brittle Bone Disease (SERPINH1, Dachshund Variant)
- ✔ Osteogenesis Imperfecta, Brittle Bone Disease (COL1A1, Golden Retriever Variant)
- ✔ Skeletal Dysplasia 2, SD2 (COL11A2, Labrador Retriever Variant)
- ✔ Craniomandibular Osteopathy, CMO (SLC37A2)
- ✔ Raine Syndrome, Canine Dental Hypomineralization Syndrome (FAM20C)
- ✔ Chondrodystrophy (ITGA10, Norwegian Elkhound and Karelian Bear Dog Variant)
- ✔ Mucopolysaccharidosis IIIB, Sanfilippo Syndrome Type B, MPS IIIB (NAGLU, Schipperke Variant)
- ✔ Early Onset Adult Deafness, EOAD (EPS8L2 Deletion, Rhodesian Ridgeback Variant)

INBREEDING AND DIVERSITY

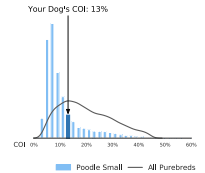
CATEGORY

RESULT

Coefficient Of Inbreeding

Our genetic COI measures the proportion of your dog's genome where the genes on the mother's side are identical by descent to those on the father's side.

13%

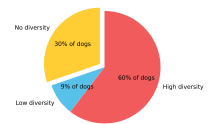


MHC Class II - DLA DRB1

A Dog Leukocyte Antigen (DLA) gene, DRB1 encodes a major histocompatibility complex (MHC) protein involved in the immune response. Some studies have shown associations between certain DRB1 haplotypes and autoimmune diseases such as Addison's disease (hypoadrenocorticism) in certain dog breeds, but these findings have yet to be scientifically validated.

No Diversity

How common is this amount of diversity in purebreds:



MHC Class II - DLA DQA1 and DQB1

DQA1 and DQB1 are two tightly linked DLA genes that code for MHC proteins involved in the immune response. A number of studies have shown correlations of DQA-DQB1 haplotypes and certain autoimmune diseases; however, these have not yet been scientifically validated.

No Diversity

How common is this amount of diversity in purebreds:

