

# Bark about it!

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**"BANANA"**

**M 8006**

Golden Retriever

SUMMARY

TRAITS

MATERNAL HAPLOTYPE

PATERNAL HAPLOTYPE

Explore the genetics behind your dog's appearance and size.



## Coat Color

**E Locus (MC1R)**

No dark hairs anywhere (ee)

**K Locus (CBD103)**

Not expressed ( $K^B k^Y$ )

**Intensity Loci LINKAGE**

Any pigmented hair likely yellow or tan  
(Intermediate Red Pigmentation)

**A Locus (ASIP)**

Not expressed ( $a^t a$ )

**D Locus (MLPH)**

Not expressed (DD)

**Cocoa (HPS3)**

No co alleles, not expressed (NN)

**B Locus (TYRP1)**

Likely black colored nose/feet (BB)

**Saddle Tan (RALY)**

Not expressed (NI)

**S Locus (MITF)**

Likely to have little to no white in coat (SS)

**M Locus (PMEL)**

No merle alleles (mm)

R Locus (USH2A) LINKAGE

Likely no impact on coat pattern (rr)

H Locus (Harlequin)

No harlequin alleles (hh)



## Other Coat Traits

Furnishings (RSPO2) LINKAGE

Likely unfurnished (no mustache, beard, and/or eyebrows) (ll)

Coat Length (FGF5)

Likely long coat (TT)

Shedding (MC5R)

Likely heavy/seasonal shedding (CT)

Hairlessness (FOXI3) LINKAGE

Very unlikely to be hairless (NN)

Hairlessness (SGK3)

Very unlikely to be hairless (NN)

Oculocutaneous Albinism Type 2  
(SLC45A2) LINKAGE

Likely not albino (NN)

Coat Texture (KRT71)

Likely straight coat (CC)



## Other Body Features

Muzzle Length (BMP3)

Likely medium or long muzzle (CC)

Tail Length (T)

Likely normal-length tail (CC)

Hind Dewclaws (LMBR1)

Unlikely to have hind dew claws (CC)

Blue Eye Color (ALX4) LINKAGE

Less likely to have blue eyes (NN)

Back Muscling & Bulk, Large Breed  
(ACSL4)

Likely normal muscling (CC)



## Body Size

Body Size (IGF1)

Larger (NN)

Body Size (IGFR1)

Larger (GG)

Body Size (STC2)

Larger (TT)

Body Size (GHR - E191K)

Larger (GG)

Body Size (GHR - P177L)

Larger (CC)



## Performance

Altitude Adaptation (EPAS1)

Normal altitude tolerance (GG)

Appetite (POMC) LINKAGE

Normal food motivation (NN)

## Explore



Maternal Line



Paternal Line



The resource for canine genetic testing and discovery

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[\(HTTPS://EMBARKVET.COM/BREEDER/\)](https://embarkvet.com/breeder/)



## Breed-Relevant Genetic Health Conditions

The reports on this page are for genetic health conditions that are relevant to BANANA's breed.

Research studies indicate that, based on your dog's breed, these results may influence your dog's chances of developing certain health conditions.

## Results

### **Progressive Retinal Atrophy, prcd (PRCD Exon 1)**

Identified in Golden Retrievers

Variant not detected



### **Golden Retriever Progressive Retinal Atrophy 1, GR-PRA1 (SLC4A3)**

Identified in Golden Retrievers

Variant not detected



### **Golden Retriever Progressive Retinal Atrophy 2, GR-PRA2 (TTC8)**

Identified in Golden Retrievers

Variant not detected



### **Neuronal Ceroid Lipofuscinosis (CLN5 Golden Retriever Variant)**

Identified in Golden Retrievers

Variant not detected



### **Degenerative Myelopathy, DM (SOD1A)**

Identified in Golden Retrievers

Variant not detected



### **Muscular Dystrophy (DMD Golden Retriever Variant)**

Identified in Golden Retrievers

Variant not detected



### **Congenital Myasthenic Syndrome (COLQ)**

Identified in Golden Retrievers

Variant not detected



### **Dystrophic Epidermolysis Bullosa (COL7A1)**

Identified in Golden Retrievers  
Variant not detected



**Ichthyosis (PNPLA1)**

Identified in Golden Retrievers  
Variant not detected



**Osteogenesis Imperfecta (COL1A1)**

Identified in Golden Retrievers  
Variant not detected



 **Send to Your Veterinarian**

Provide your vet with the information they need to understand how your dog's genetics could impact their health.

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**REPORT)**