



Smarter dog care powered by DNA

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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 <sup>b</sup> k <sup>y</sup> )
Intensity Loci <small>LINKAGE</small>	Any pigmented hair likely yellow or tan (Intermediate Red Pigmentation)
A Locus (ASIP)	Not expressed (a <sup>1</sup> a <sup>1</sup> )
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 solid colored, but may have small amounts of white (Ssp)
M Locus (PMEL)	No merle alleles (mm)
R Locus (USH2A) <small>LINKAGE</small>	Likely roan patterned (RR)
H Locus (Harlequin)	No harlequin alleles (hh)

### Other Coat Traits

Furnishings (RSPO2) <small>LINKAGE</small>	Likely furnished (mustache, beard, and/or eyebrows) (FF)
Coat Length (FGF5)	Likely long coat (TT)
Shedding (MC5R)	Likely light shedding (TT)
Hairlessness (FOXI3) <small>LINKAGE</small>	Very unlikely to be hairless (NN)
Hairlessness (SGK3)	Very unlikely to be hairless (NN)
Oculocutaneous Albinism Type 2 (SLC45A2) <small>LINKAGE</small>	Likely not albino (NN)
Coat Texture (KRT71)	Likely wavy coat (CT)

### 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) <small>LINKAGE</small>	Less likely to have blue eyes (NN)
Back Muscling & Bulk, Large Breed (ACSL4)	Likely normal muscling (CC)

### Body Size

Body Size (IGF1)	Smaller (II)
Body Size (IGFR1)	Larger (GG)
Body Size (STC2)	Intermediate (TA)
Body Size (GHR - E191K)	Smaller (AA)
Body Size (GHR - P177L)	Larger (CC)

### Performance

Altitude Adaptation (EPAS1)	Normal altitude tolerance (GG)
Appetite (POMC) <small>LINKAGE</small>	Normal food motivation (NN)

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OTHER  
Brachycephaly (BMP3)  
Hind Dewclaws (LMBR1)  
Bobtail (T)  
CCAA  
E Locus (Maack/Grizzle)  
K Locus (Dominant Black)  
A Locus (Agouti)  
D Locus (Dilute)  
B Locus (Brown/Chocolate/Liver)

Long Hair  
Shedding  
Curly Co  
BODY  
IGF1  
STC2  
GHR