

# SHAKSPER TAMORA QUEEN OF THE GOTHS



DNA Test Report

Test Date: December 1st, 2017

[embk.me/shakspertamoraqueenofthegoths](http://embk.me/shakspertamoraqueenofthegoths)

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## GENETIC STATS

Wolfiness: 0.6 % **LOW**

Predicted adult weight: **9 lbs**

Genetic age: **33 human years**

## TEST DETAILS

Kit number: EM-2387883

Swab number:

# SHAKSPER TAMORA QUEEN OF THE GOTHES

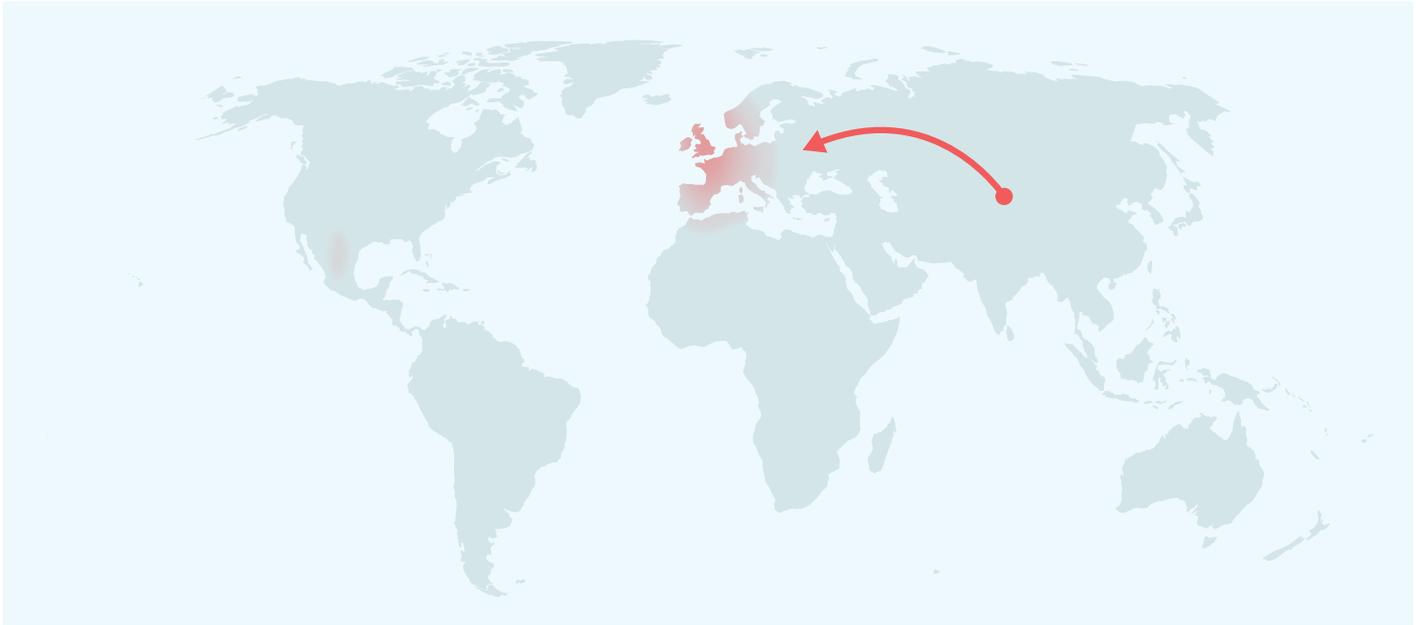


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## MATERNAL LINE



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

### HAPLOGROUP: C2

C2 is a very old female lineage found more commonly among English Setters, English Bulldogs, and American Eskimo Dogs. We also see C2 in village dogs in South Asia. Rather than having a few characteristic breeds representing this lineage particularly well, it is present in a few uncommon individuals of many different breeds. Unlike some European breed lineages that have seen skyrocketing popularity along the path to the modern dogs we see today, C2 tends to reflect the deep history of man's best friend.

### HAPLOTYPE: C3/14

Part of the C2 haplogroup, this common haplotype occurs most often in English Setters, Cairn Terriers, Labrador Retrievers, and village dogs in Peru, Fiji, and across Africa.

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## TRAITS

### Coat Color

E Locus (Mask/Grizzle/Red)	<b>E<sup>m</sup>E<sup>m</sup></b>
K Locus (Dominant Black)	<b>k<sup>Y</sup>k<sup>Y</sup></b>
A Locus (Agouti)	<b>a<sup>Y</sup>a<sup>Y</sup></b>
D Locus (Dilute)	<b>DD</b>
B Locus (Brown/Chocolate/Liver)	<b>BB</b>

### Other Coat Traits

Furnishings / Improper Coat (RSP02)	<b>FF</b>
Long Haircoat (FGF5)	<b>GT</b>
Shedding (MC5R)	<b>CC</b>
Curly Coat (KRT71)	<b>CC</b>

### Body Size

Body Size - IGF1	<b>II</b>
Body Size - IGF1R	<b>GG</b>
Body Size - STC2	<b>TT</b>
Body Size - GHR (E195K)	<b>AA</b>
Body Size - GHR (P177L)	<b>CC</b>

### Other Body Features

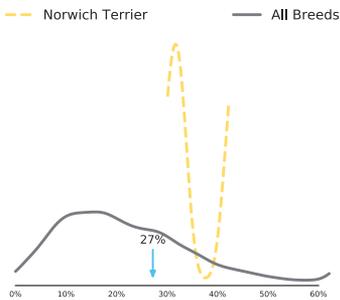
Brachycephaly (BMP3)	<b>AC</b>
Natural Bobtail (T)	<b>CC</b>
Hind Dewclaws (LMBR1)	<b>CC</b>

### Performance

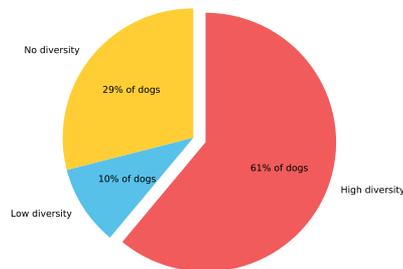
Altitude Adaptation (EPAS1)	<b>GG</b>
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## Genetic Diversity

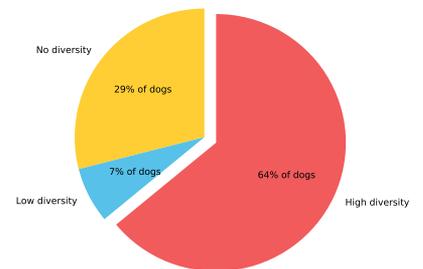
Inbreeding Coefficient **27%**



MHC Class II - DLA DRB1  
**High Diversity**



MHC Class II - DLA DQA1 and DQB1  
**High Diversity**



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## CLINICAL TRAITS

These clinical genetic traits can inform clinical decisions and diagnoses. These traits do not predict a disease state or increased risk for disease. We currently assess one clinical trait: Alanine Aminotransferase Activity.

### **Alanine Aminotransferase Activity result: Normal**

Shaksper Tamora Queen Of The Goths has two normal alleles at ALT.

More information on Alanine Aminotransferase Activity:

Known to be highly expressed in liver cells, activity levels of alanine aminotransferase, or ALT, is a common value on most blood chemistry panels and is known to be a sensitive measure of liver health. Dogs with two ancestral G alleles show "normal" activity. Dogs that have one or two copies of the derived A allele may have lower resting levels of ALT activity, known as "low normal". If your dog's result is "low normal" then when a blood chemistry panel is being interpreted the values that you and your veterinarian consider "normal" may need to be adjusted. Please note that neither a "normal" nor a "low normal" result for this predicts a disease state or increased risk for liver disease. Moreover, this mutation does not associate with increased levels of ALT: If your dog has high ALT levels, please consult your veterinarian.

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## HEALTH

Good news! Shaksper Tamora Queen Of The Goths did not test positive for any of the genetic diseases that Embark screens for.

0  
AT RISK

0  
CARRIER

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## OTHER CONDITIONS

Good news! Shaksper Tamora Queen Of The Goths tested clear for 8 other common genetic diseases that Embark tests for.

- Multidrug Sensitivity (MDR1)
- Progressive Retinal Atrophy (PRA)  
Progressive rod-cone degeneration (PRCD Exon 1)
- Hyperuricosuria and Hyperuricemia or Urolithiasis (SLC2A9)
- Dilated Cardiomyopathy (PDK4)
- Von Willebrand Disease Type II (VWF Exon 28)
- Primary Lens Luxation (ADAMTS17)
- Degenerative Myelopathy (SOD1A)
- Exercise-Induced Collapse (DNM1)

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## FULL TEST PANEL

To help ensure healthy breeds, every test includes analysis of our full panel of over 160 genetic diseases.

Shaksper Tamora Queen Of The Goths is also clear of 155 other genetic diseases that Embark tests for.