

# yourDNA Portal – Native American Ancestry Analysis of Each Chromosome for DKF

The following results from “yourDNAportal.com” purport to provide a detailed fine grained exploration of the ancestral results for each chromosome using different algorithms and reference samples. The author’s assessment of this data will be provided at the end of the Results section below.

## CHROMOSOME ANALYSIS

### A) MODERN NATIVE AMERICAN REFERENCE GROUPS - RESULTS:

## Chromosynthesis

### Native American Modern Chromosynthesis

Explore your DNA  
via the power of Chromosynthesis!

By utilising chromosomal analysis, you can dig deeper into the more obscure areas of your ancestry. The fine detail of a chromosomal test, looks at each chromosome individually, allowing you to capture ancestry that may be missed by other tests.

Chromosynthesis is an excellent tool for capturing even the most distant ancestry. Each chromosome contains unique information and can have a very different autosomal profile. Usually the first 10 chromosomes are the most relevant, while the last 2 are less informative. A small percentage (1% of a chromosome) equals approximately 0.045% of the entire autosome. By analysing each chromosome, we can reveal both a deeper and more detailed ancestry than other tests.

## Chromosome 6

### Speculative results

Population	Value
● Basque 🦋	50%
● North-Western European 🦋	37.5%
● Central Mediterranean 🦋	6.25%
● Chipewyan Saskatchewan Canada 🦋	6.25%

### Conservative results

Population	Value
● Basque 🦋	75%
● North-Western European 🦋	25%

## Chromosome 18

### Speculative results

Population	Value
● Basque 🦋	75%
● South Asian 🦋	18.75%
● Shipibo Peru 🦋	6.25%

### Conservative results

Population	Value
● Basque 🦋	75%
● South Asian 🦋	25%

## Chromosome 22

### Speculative results

Population	Value
● East-Central European 🦋	68.75%
● Central European 🦋	18.75%
● Huambisa Peru 🦋	6.25%
● Uros Titicaca Peru 🦋	6.25%

### Conservative results

Population	Value
● East-Central European 🦋	50%
● Balkan 🦋	25%
● Central European 🦋	25%

B) GENOMEWIDE ANALYSIS USING MODERN NA REFERENCE SAMPLES:

## Chromosynthesis

### Native American Genomewide Chromosynthesis

Explore your DNA  
via the power of Chromosynthesis!

By utilising chromosomal analysis, you can dig deeper into the more obscure areas of your ancestry. The fine detail of a chromosomal test, looks at each chromosome individually, allowing you to capture ancestry that may be missed by other tests.

Chromosynthesis is an excellent tool for capturing even the most distant ancestry. Each chromosome contains unique information and can have a very different autosomal profile. Usually the first 10 chromosomes are the most relevant, while the last 2 are less informative. A small percentage (1% of a chromosome) equals approximately 0.045% of the entire autosome. By analysing each chromosome, we can reveal both a deeper and more detailed ancestry than other tests.

## Chromosome 6

### Speculative results

Population	Value
● Basque 🐾	50%
● North-Western European 🐾	37.5%
● Central Mediterranean 🐾	6.25%
● Native American 🐾	6.25%

### Conservative results

Population	Value
● Basque 🐾	75%
● North-Western European 🐾	25%

## Chromosome 18

### Speculative results

Population	Value
● Basque 🦋	75%
● South Asian 🦋	18.75%
● Native American 🦋	6.25%

### Conservative results

Population	Value
● Basque 🦋	75%
● South Asian 🦋	25%

## Chromosome 22

### Speculative results

Population	Value
● East-Central European 🦋	81.25%
● Native American 🦋	12.5%
● South-Central Asian 🦋	6.25%

### Conservative results

Population	Value
● East-Central European 🦋	50%
● Balkan 🦋	25%
● Central European 🦋	25%

C) ANCIENT NA REFERENCE GROUPS - RESULTS:

## Chromosynthesis

### Native American Ancient Chromosynthesis





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via the power of Chromosynthesis!

By utilising chromosomal analysis, you can dig deeper into the more obscure areas of your ancestry. The fine detail of a chromosomal test, looks at each chromosome individually, allowing you to capture ancestry that may be missed by other tests.




Chromosynthesis is an excellent tool for capturing even the most distant ancestry. Each chromosome contains unique information and can have a very different autosomal profile. Usually the first 10 chromosomes are the most relevant, while the last 2 are less informative. A small percentage (1% of a chromosome) equals approximately 0.045% of the entire autosome. By analysing each chromosome, we can reveal both a deeper and more detailed ancestry than other tests.

## Chromosome 1

### Speculative results

Population	Value
● Insular Celtic 	62.5%
● Ancient Caucasus 	18.75%
● Ancient West Finnic 	12.5%
● Ancient Central American 	6.25%

### Conservative results

Population	Value
● Insular Celtic 	50%
● Ancient Caucasus 	25%
● Ancient West Finnic 	25%

## Chromosome 6

### Speculative results

Population	Value
● Ancient West Mediterranean 🦁	75%
● Insular Celtic 🦁	18.75%
● Ancient North American 🦁	6.25%

### Conservative results

Population	Value
● Ancient West Mediterranean 🦁	75%
● Insular Celtic 🦁	25%

## Chromosome 7

### Speculative results

Population	Value
● Insular Celtic 🦁	37.5%
● Mediterranean Neolithic Farmer 🦁	37.5%
● Ancient Caucasus 🦁	12.5%
● Ancient Patagonian 🦁	6.25%
● Ancient West Mediterranean 🦁	6.25%

### Conservative results

Population	Value
● Ancient Caucasus 🦁	25%
● Ancient West Mediterranean 🦁	25%
● Insular Celtic 🦁	25%
● Mediterranean Neolithic Farmer 🦁	25%

## Chromosome 14

### Speculative results

Population	Value
● Mediterranean Neolithic Farmer 🦁	50%
● Ancient Central American 🦁	12.5%
● Ancient East Mediterranean 🦁	12.5%
● Ancient West Mediterranean 🦁	12.5%
● Ancient Oceanian 🦁	6.25%
● Sub-Saharan African 🦁	6.25%

### Conservative results

Population	Value
● Mediterranean Neolithic Farmer 🦁	50%
● Ancient Central American 🦁	25%
● Ancient West Mediterranean 🦁	25%

## Chromosome 16

### Speculative results

Population	Value
● Ancient West Finnic 🦁	50%
● Ancient East Mediterranean 🦁	37.5%
● Ancient North American 🦁	6.25%
● Ancient South-Central Asian 🦁	6.25%

### Conservative results

Population	Value
● Ancient East Mediterranean 🦁	50%
● Ancient West Finnic 🦁	50%

## Chromosome 17

### Speculative results

Population	Value
● Ancient West Mediterranean 🦋	56.25%
● Ancient Caucasus 🦋	37.5%
● Ancient North American 🦋	6.25%

### Conservative results

Population	Value
● Ancient Caucasus 🦋	50%
● Ancient West Mediterranean 🦋	50%

## Chromosome 18

### Speculative results

Population	Value
● Ancient West Mediterranean 🦋	75%
● Ancient South Asian 🦋	18.75%
● Ancient West Amazonian 🦋	6.25%

### Conservative results

Population	Value
● Ancient West Mediterranean 🦋	75%
● Ancient South Asian 🦋	25%

## Chromosome 22

### Speculative results

Population	Value
● Balto-Slavic 🦋	81.25%
● Ancient Andean 🦋	6.25%
● Ancient Central American 🦋	6.25%
● Ancient South-Central Asian 🦋	6.25%

### Conservative results

Population	Value
● Balto-Slavic 🦋	75%
● Ancient Central American 🦋	25%



## D) LANIAKEA ANALYSIS:



MODERN

### Laniakea Global Chromosynthesis

This test utilises Laniakea Global to give you a chromosome by chromosome analysis of your genetic identity. For each chromosome, you will get:

1. Admixture results
2. The populations most genetically similar
3. An estimation of ethnicity

## Chromosome 1

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Northatlantic	30.69%
● European Fennoscandian	27.94%
● Mediterranean East	21.2%
● European Germanic	12.64%
● Asian Far-East	3.2%
● Eurasian Alanic	1.67%
● Native American South	1.54%
● Native American Central	0.84%
● European Atlantic	0.29%

### Asian Far-East : 3.2%

The Asian Far-East component has its peak frequency in Japan, Korea and in eastern and north-eastern China. The component is fairly widespread and common throughout East Asia from the Philippines to Mongolia.















## Native American South : 1.54%

The American South component has its frequency peak among the indigenous peoples of the Andes but is widespread and common throughout South America and more generally all the Americas.

## Native American Central : 0.84%

The Native American Central component has its frequency peak in the descendants of the Mayan and Aztec peoples, however it is widespread and common in all the Americas.

### In-depth Origins results

Population	Value
 Northern Celtogermanic 	54%
 Continental Celtogermanic 	22.5%
 Finnish 	19%
 Eastern North African 	2%
 Arabic 	1.5%
 Japanese 	0.5%
 Polynesian 	0.5%

## Chromosome 6

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Fennoscandian	44.69%
● European Atlantic	25.02%
● European Northatlantic	16.82%
● Mediterranean West	9.67%
● Native American North	2.0%
● African Rainforest	1.81%

#### Native American North : 2.0%

The Native American North component has its peak of frequency among the indigenous populations of Canada and the USA, but it is widespread and common in all the Americas, to a lesser extent also in Greenland and Siberia.

## Chromosome 7

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
European Fennoscandian	27.33%
European Central	25.34%
Mediterranean West	25.16%
Mediterranean East	6.46%
European Atlantic	5.56%
MENA Maghrebi	3.59%
MENA Mesopotamian	3.46%
European Northatlantic	1.59%
Asian Miao-Yi-Dai	1.52%

#### Asian Miao-Yi-Dai : 1.52%

The Miao-Yi-Dai component has its frequency peak in southern China but is widespread and common also in northern and western China, Taiwan and Japan, a good part of the Austronesian spectrum.

## Chromosome 10

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Northatlantic	37.67%
● European Germanic	28.52%
● European Central	14.33%
● European Eastern	10.17%
● Eurasian Alanic	5.09%
● Native American North	3.32%
● African Khoisan	0.52%
● Oceanian	0.38%

### In-depth Origins results

Population	Value
● Northern Celtogermanic 🖱	99.5%
● Northern Amerindian 🖱	0.5%

## Chromosome 12

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Germanic	42.7%
● European Central	17.66%
● European Fennoscandian	12.91%
● European Atlantic	9.62%
● European Northatlantic	6.8%
● Native American South	5.48%
● Mediterranean East	2.46%
● Asian Gedrosia	2.36%

Population	Value
● Scandinavian 🐭	57%
● Continental Celtogermanic 🐭	34.5%
● Central Mediterranean 🐭	8%
● Central Amerindian 🐭	0.5%

## Chromosome 15

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Central	49.75%
● European Northatlantic	20.09%
● European Atlantic	13.52%
● European Fennoscandian	6.19%
● Oceanian	3.46%
● Asian Miao-Yi-Dai	3.07%
● MENA Armenian	2.91%
● European Germanic	1.01%

# Chromosome 16









## Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Northatlantic	28.59%
● European Central	12.78%
● European Atlantic	12.38%
● European Fennoscandian	10.43%
● MENA Mesopotamian	10.26%
● Mediterranean East	9.74%
● Native American North	6.99%
● Eurasian Alanic	3.45%
● Asian Miao-Yi-Dai	2.15%
● Asian Tuvan	1.39%
● Asian Siberian	1.34%
● African Khoisan	0.48%



## In-depth Origins results

Population	Value
<span style="color: cyan;">●</span> Northern Celtogermanic 	73.5%
<span style="color: blue;">●</span> Southern Italian 	21%
<span style="color: lightgreen;">●</span> Arctic 	2.5%
<span style="color: green;">●</span> Northern Amerindian 	1%
<span style="color: purple;">●</span> Levantine 	0.5%
<span style="color: yellow;">●</span> Mongolian 	0.5%
<span style="color: yellow;">●</span> Northern Chinese 	0.5%
<span style="color: yellow;">●</span> Southern Chinese 	0.5%

● Arctic 



2.5%

### Arctic

The Arctic group represents the genetic admixture of the Inuit people.

## Chromosome 17

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Atlantic	27.08%
● European Germanic	23.77%
● MENA Mesopotamian	19.18%
● MENA Armenian	13.31%
● European Northatlantic	10.85%
● Native American North	5.81%

#### In-depth Origins results

Population	Value
● Northern Celtogermanic 🦋	43%
● Iberian 🦋	17.5%
● Central Mediterranean 🦋	14%
● Levantine 🦋	10%
● Northern Italian 🦋	9.5%
● Arctic 🦋	2%
● Iranian 🦋	1.5%
● Northern Amerindian 🦋	1.5%
● Eastern North African 🦋	1%

## Chromosome 18

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Atlantic	37.2%
● European Germanic	21.56%
● Mediterranean East	12.14%
● Asian Dravidian	9.37%
● Oceanian	7.33%
● Native American South	4.66%
● European Northatlantic	3.41%
● Asian Miao-Yi-Dai	2.23%
● European Fennoscandian	2.11%

#### In-depth Origins results

Population	Value
● Iberian 🦋	76.5%
● Northern Celtogermanic 🦋	8%
● Northeastern Indian & Bangladeshi 🦋	5%
● Australian 🦋	3%
● Southern Indian 🦋	2.5%
● Continental Celtogermanic 🦋	2%
● Melanesian 🦋	1.5%
● Polynesian 🦋	1%
● Central Amerindian 🦋	0.5%

## Chromosome 22

### Admixture Results

Your admixture results are derived directly from the SNPs present in your file. They reveal the percentages that you share with the principal components of the populations present in the calculator, based on the frequency of alleles.

Admixture Population	Percentage
● European Germanic	34.94%
● European Fennoscandian	29.82%
● European Northatlantic	17.25%
● MENA Armenian	12.29%
● Native American Central	3.14%
● Mediterranean West	2.46%
● MENA Arabian	0.09%

**Analysis:** The present author is unsure of how to interpret these results such that they make a valid and trustworthy contribution to the study of the ancestral composition of each chromosome (recalling that both the maternal and the paternal chromosomes are being combined here). Consistency (internal and external) is critical for arriving at a conclusion as to the merits of the data above. Clearly the results are somewhat “scattered” and vary from test procedure to test procedure, and are difficult to reconcile with data from other calculators (e.g., 23andMe, Gedmatch). For example, the array of ancestries (e.g., various Siberian groups, Southeast Asian) on chromosome 16 with the Laniakea calculator does not seem to be duplicated elsewhere. If those results were associated with chromosome 18, the results would make a lot more sense based on testing using different methodologies. It would seem that there is some tweaking of the components of their test procedures that are needed before any of the above results can be “taken to the bank”.

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