



**Joan Doe**

## **Native American DNA Ancestry Test**

D505x: DP11-27xxxx

Two [autosomal markers](#) in a person's forensic profile or [DNA fingerprint](#) are linked to ethnic American Indian ancestry. The results of your Native American DNA Ancestry Test are shown below and on your certificate.

Your DNA was obtained from a [cheek-swab](#) sample analyzed in a certified and secure genomics laboratory, [Chromosomal Laboratories](#), by state-of-the-art procedures. The markers Native American I and II are located on two different chromosomes. They are only a tiny part of the three billion nucleotides that make up the package of information found in every cell of your body.

Marker	Parent	Parent
<b>NATIVE AMERICAN I</b>		
<b>NATIVE AMERICAN II</b>	✓	

Note that since you receive one gene from one parent and one from the other in the process of conception, you can potentially have two markers, one or none at any given locus. It is not possible on the face of your results to say which parent you inherit your Native American marker from. This is up to you to judge from what you know of your genealogy. Because of how DNA recombines from generation to generation, you might receive a marker and a sibling might not. But if you have a checkmark for a marker in your chart it is reasonable to conclude that it reflects at least one line in your family tree that was predominantly Native American in recent times (200-500 years ago).

Current research on Native American DNA repeatedly stresses both the genetic similarity and wide diversity of Native Americans. Your results prove that you belong to this distinctive world population by ancestry, although they do not specify to what degree. More information on your overall ancestry can be obtained by upgrading to the complete [DNA Fingerprint Plus](#).

**NATIVE AMERICAN I.** This marker is inherited by an individual who has some degree of Native American ancestry. Often it comes from only one parent. As with other markers, if you didn't get it, that does not mean

you don't have any Native American ancestry. Pairs of markers (**alleles**) are reshuffled from generation to generation, and it could have been lost. You may have it, but a sibling might not. By "Native American" is meant any of the indigenous groups who lived in either North or South America before Columbus. It is the same designation as **American Indian**. Native American DNA is so distinctive that this test can detect even small amounts of it. Despite what you may have heard, no DNA test can definitively tell you what percentage of admixture you have.

**NATIVE AMERICAN II.** Similar to Native American I but found typically in people who are half or less Native American and about half Iberian with sometimes a lesser amount of Sub-Saharan African, i.e., Hispanic or Latino.

### References and Suggestions for Further Reading

1. Butler, John M. (2010). *Fundamentals of Forensic DNA Typing*. Amsterdam: Elsevier. Authoritative treatment endorsed by the National Institute of Standards and Technology.
2. Cavalli-Sforza, Luigi Luca and Francesco Cavalli-Sforza (1995). *The Great Human Diasporas* (New York: Basic). Wonderful, readable classic on human genetics and prehistory by father and son.
3. Schurr, Theodore G. (2000). "Mitochondrial DNA and the Peopling of the New World." *American Scientist* 88/3:246-53. Describes the common lineages A, B, C, D and X of American Indians, to which now anomalous lineages H, I, J, T, K, N, U and others previously restricted to European origin must be added.
4. Wang, S. et al. (2007). "Genetic Variation and Population Structure in Native Americans." *PLoS Genetics* 3/11 (with good bibliog.): <http://www.plosgenetics.org/article/info:doi/10.1371/journal.pgen.0030185>.
5. Yates, Donald N. (2009). "Anomalous Mitochondrial DNA Lineages in the Cherokee." *DNA Consultants Blog*. Groundbreaking study suggesting Middle Eastern lineages in addition to Asian in certain Indian nations.

### Frequently Asked Questions about Your Report:

<http://dnaconsultants.com/understandingfingerprintplus.html>

**Statement on Ethnicity.** Allelic population analysis is a science still in the early stages of development. As our understanding of human history and prehistory improves and more specific markers are discovered for distinct populations we can expect the accuracy of prediction of the ethnic constituents in our ancestry to increase.

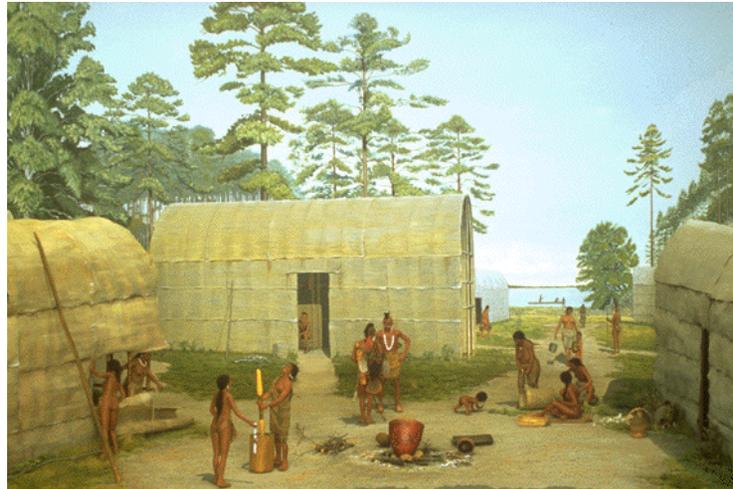
**Reliability.** While the laboratory methods used to determine your DNA markers are completely accurate and their statistical analysis is reliable, interpretation of the data is subjective. Conclusions will vary. To form more confident opinions, we suggest that you combine the findings in this report with other testimony, such as genealogical records and family history and tradition.

**Confidentiality.** Your testing, results and this report are 100% confidential.



THIS DOCUMENT CERTIFIES THAT

*Joan Doe*



Ordered a DNA Fingerprint Ancestry Test from Our Laboratories  
Showing One or More Ancestral American Indian Ethnicity Markers

*Donald N. Yates*

Donald N. Yates, Ph.D.

DNA Testing Powered By:



DNA Consultants, 26438 N. 42<sup>nd</sup> Way, Phoenix, AZ 85050

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