

# Haplogroup K (mtDNA)

**Haplogroup K** is a human mitochondrial DNA (mtDNA) haplogroup. It is defined by the HVR1 mutations 16224C and 16311C.

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<i>Haplogroup K</i>	
<b>Possible time of origin</b>	26,700 ± 4,300 years ago <sup>[1]</sup>
<b>Possible place of origin</b>	Possibly West Asia
<b>Ancestor</b>	U8b'K
<b>Descendants</b>	K1, K2
<b>Defining mutations</b>	3480 10550 11299 14798 16224 16311 <sup>[2]</sup>

## Origin

Haplogroup K is believed to have originated in the mid-Upper Paleolithic, between about 30,000 and 22,000 years ago. It is the most common subclade of haplogroup U8b.<sup>[3]</sup> with an estimated age of c. 12,000 years BP.<sup>[4]</sup>

## Distribution

Haplogroup K appears in Central Europe, Southern Europe, Northern Europe, North Africa, the Horn of Africa, South Asia and West Asia and in populations with such an ancestry.

Haplogroup K is found in approximately 10% of native Europeans.<sup>[5][6]</sup>

Overall the mtDNA haplogroup K is found in about 6% of the population of Europe and the Near East, but it is more common in certain of these populations. Approximately 16% of the Druze of Syria, Lebanon, Israel, and Jordan, belong to haplogroup K.<sup>[7]</sup> It is also found among 8% of Palestinians.<sup>[8]</sup> Additionally, K reaches a level of 17% in Kurdistan.<sup>[9]</sup>

Approximately 32% of people with Ashkenazi Jewish ancestry are in haplogroup K. This high percentage points to a genetic bottleneck occurring some 100 generations ago.<sup>[7]</sup> Ashkenazi mtDNA K clusters into three subclades seldom found in non-Jews: K1a1b1a, K1a9, and K2a2a. Thus it is possible



Projected spatial frequency distribution for haplogroup K.

to detect three individual female ancestors, who were thought to be from a Hebrew/Levantine mtDNA pool, whose descendants lived in Europe.<sup>[10]</sup> A 2013 study however suggests these clades to instead originate from Western Europe.<sup>[11]</sup>

K appears to be highest in the Morbihan (17.5%) and Périgord-Limousin (15.3%) regions of France, and in Norway and Bulgaria (13.3%).<sup>[12]</sup> The level is 12.5% in Belgium, 11% in Georgia and 10% in Austria and Great Britain.<sup>[9]</sup>

Haplogroup K is also found among Gurage (10%),<sup>[8]</sup> Syrians (9.1%),<sup>[8]</sup> Afar (6.3%),<sup>[8]</sup> Zenata Berbers (4.11%),<sup>[13]</sup> Reguibate Sahrawi (3.70%),<sup>[13]</sup> Oromo (3.3%),<sup>[8]</sup> Iraqis (2.4%),<sup>[8]</sup> Saudis (0%-10.5%),<sup>[8]</sup> Yemenis (0%-9.8%),<sup>[8]</sup> and Algerians (0%-4.3%).<sup>[13]</sup>

Mtdna K was found in 0.9% of Beijing Han in a group of sampling.<sup>[14]</sup>

## Ancient DNA

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Haplogroup K has been found in the remains of three individuals from the Pre-Pottery Neolithic B site of Tell Ramad, Syria, dating from c. 6000 BC.<sup>[15]</sup> The clade was also discovered in skeletons of early farmers in Central Europe dated to around 5500-5300 BC, at percentages that were nearly double the percentage present in modern Europe. Some techniques of farming, together with associated plant and animal breeds, spread into Europe from the Near East. The evidence from ancient DNA suggests that the Neolithic culture spread by human migration.<sup>[16]</sup>

Analysis of the mtDNA of Ötzi, the frozen mummy from 3300 BC found on the Austrian-Italian border, has shown that Ötzi belongs to the K1 subclade. It cannot be categorized into any of the three modern branches of that subclade (K1a, K1b or K1c). The new subclade has provisionally been named *K1ö* for *Ötzi*.<sup>[17]</sup> Multiplex assay study was able to confirm that the Iceman's mtDNA belongs to a new European mtDNA clade with a very limited distribution amongst modern data sets.<sup>[18]</sup>

A woman buried some time between 2650 and 2450 BC in a presumed Amorite tomb at Terqa (Tell Ashara), Middle Euphrates Valley, Syria carried Haplogroup K.<sup>[19]</sup>

A lock of hair kept at a reliquary at Saint-Maximin-la-Sainte Baume basilica, France, which local tradition holds belonged to the biblical figure Mary Magdalene, was also assigned to haplogroup K. Ancient DNA sequencing of a capillary bulb bore the K1a1b1a subclade, indicating that she was likely of Pharisian maternal origin.<sup>[20]</sup>

Haplogroup K1 has likewise been observed among specimens at the mainland cemetery in Kulubnarti, Sudan, which date from the Early Christian period (AD 550-800).<sup>[21]</sup>

In 2016, researchers extracted the DNA from the tibia of two individuals separately dated to 7288-6771 BCE and 7605-7529 BCE buried in Theopetra cave, Greece, the oldest known human-made structure, and both individuals were found to belong to mtDNA Haplogroup K1c.<sup>[22]</sup>

Haplogroup K has also been observed among ancient Egyptian mummies excavated at the Abusir el-Meleq archaeological site in Middle Egypt, which date from the Pre-Ptolemaic/late New Kingdom and Roman periods.<sup>[23]</sup> Fossils excavated at the Late Neolithic site of Kelif el Boroud in Morocco, which have been dated to around 3,000 BCE, have likewise been observed to carry the K1 subclade.<sup>[24]</sup>

## Subclades

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### Tree

This phylogenetic tree of haplogroup K subclades is based on the paper by Mannis van Oven and Manfred Kayser *Updated comprehensive phylogenetic tree of global human mitochondrial DNA variation*<sup>[2]</sup> and subsequent published research.

### mtDNA HG "K" p-tree

- U8b'K
  - U8b
  - K
    - K1
      - K1a
        - K1a1
          - K1a1a
            - K1a1a1
          - K1a1b
            - K1a1b1
              - K1a1b1a
              - K1a1b1b
            - K1a1b2
              - K1a1b2a
      - K1a2
        - K1a2a
        - K1a2b
      - K1a3
        - K1a3a
          - K1a3a1
          - K1a3a1a
      - K1a4
        - K1a4a
          - K1a4a1
            - K1a4a1a
            - K1a4a1b
            - K1a4a1c
            - K1a4a1d
            - K1a4a1e
            - K1a4a1f
            - K1a4a1g
        - K1a4b
          - K1a4b1
        - K1a4c
        - K1a4d

- **K1a5**
- **K1a6**
- **K1a7'8**
  - **K1a7**
  - **K1a8**
    - **K1a8a**
- **K1a9**
- **K1a10**
- **K1a11**
- **K1a12**
  - **K1a12a**
- **K1b**
  - **K1b1**
    - **K1b1a**
      - **K1b1a1**
    - **K1b1b**
    - **K1b1c**
  - **K1b2**
    - **K1b2a**
    - **K1b2b**
- **K1c**
  - **K1c1**
    - **K1c1a**
    - **K1c1b**
  - **K1c2**
- **K1ö**
- **K2**
  - **K2a**
    - **K2a1**
      - **K2a1a**
    - **K2a2**
      - **K2a2a**
    - **K2a3**
    - **K2a4**
    - **K2a5**
    - **K2a6**
  - **K2b**
    - **K2b1**
      - **K2b1a**
  - **K2c**

## Genetic traits

A study involving Caucasian patients showed that individuals classified as haplogroup J or K demonstrated a significant decrease in risk of Parkinson's disease versus individuals carrying the most common haplogroup, H.<sup>[25]</sup>

## In popular culture

In his popular book *The Seven Daughters of Eve*, Bryan Sykes named the originator of this mtDNA haplogroup *Katrine*.

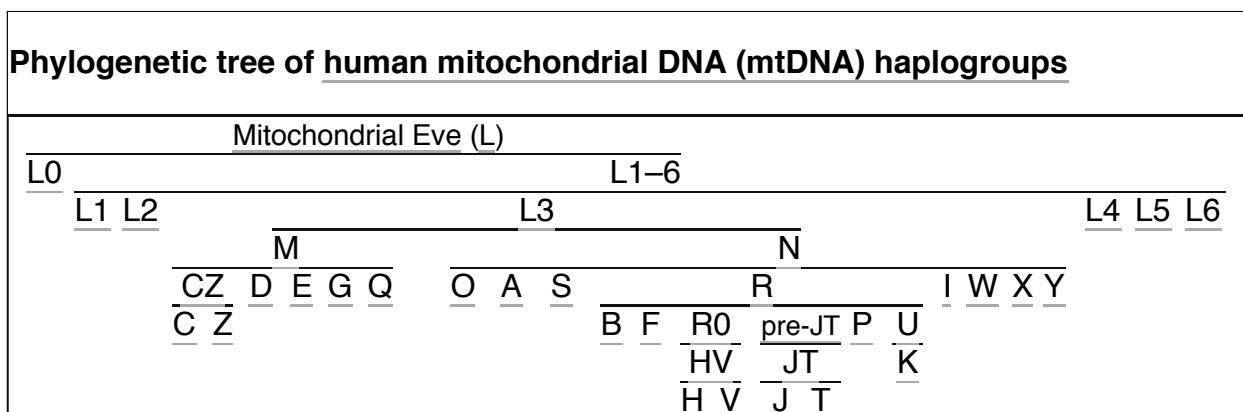
On an 18 November 2005 broadcast of the *Today Show*, during an interview with Dr. Spencer Wells of The National Geographic Genographic Project, host Katie Couric was revealed to belong to haplogroup K. [1] (<https://www.today.com/news/family-tree-project-helps-trace-deep-history-wbna10095659>)

On 14 August 2007, Stephen Colbert was told by geneticist Spencer Wells that he is a member of this haplogroup during a segment on *The Colbert Report*.

Henry Louis Gates Jr. states that Meryl Streep belongs to Haplogroup K in his book "Faces of America".<sup>[26]</sup>

## See also

- Genealogical DNA test
- Genetic genealogy
- Haplogroup K1a1b1a (mtDNA)
- Human mitochondrial genetics
- Population genetics
- Human mitochondrial DNA haplogroup



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## External links

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- General
    - Mannis van Oven's *Phylotree* (<http://www.phylotree.org>)
  - Haplogroup K
    - Spread of Haplogroup K (<https://web.archive.org/web/20060320195815/https://www3.nationalgeographic.com/genographic/atlas.html?card=mm021>), from *National Geographic*
    - mtDNA Haplogroup K Project ([http://www.familytreedna.com/public/mtDNA\\_K/](http://www.familytreedna.com/public/mtDNA_K/)) at *Family Tree DNA*
    - Danish Demes Regional DNA Project: mtDNA Haplogroup K (<http://dgmweb.net/genealogy/DNA/DK/DanishDemes-mtDNA-results-HgK.shtml>)
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