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mtHap version 0.19b (2015-05-11); haplogroup data version PhyloTree Build 17 (2016-02-18) +mods  
 raw data source SNP\_raw\_v4\_Full\_20170514175358.txt (14MB)

Found 3270 markers at 3268 positions covering 19.7% of mtDNA.

### Markers found (shown as differences to rCRS):

HVR2: 152C 263G  
 CR: 750G 1438G 4769G 8860G  
 HVR1:

**IMPORTANT NOTE:** The above marker list is almost certainly incomplete due to limitations of genotyping technology and is not comparable to mtDNA sequencing results. It should not be used with services or tools that expect sequencing results, such as Mitosearch.

### Best mtDNA Haplogroup Matches:

#### 1) H(T152C)

Defining Markers for haplogroup H(T152C):

HVR2: 152C 263G  
 CR: 750G 1438G 4769G 8860G 15326G  
 HVR1:

Marker path from rCRS to haplogroup H(T152C):

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C ⇒ H(T152C)

**Imperfect Match.** Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G  
 Untested(1): 15326

#### 2) H1(T152C)

Defining Markers for haplogroup H1(T152C):

HVR2: 152C 263G  
 CR: 750G 1438G 3010A 4769G 8860G 15326G  
 HVR1:

Marker path from rCRS to haplogroup H1(T152C):

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 3010A ⇒ H1 ⇒ 152C ⇒ H1(T152C)

**Imperfect Match.** Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G  
 No-Calls(1): 3010A  
 Untested(1): 15326

#### 3) H

Defining Markers for haplogroup H:

HVR2: 263G  
 CR: 750G 1438G 4769G 8860G 15326G  
 HVR1:

Marker path from rCRS to haplogroup H (plus extra markers):

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C

**Imperfect Match.** Your results contained differences with this haplogroup:

Matches(5): 263G 750G 1438G 4769G 8860G  
 Extras(1): 152C  
 Untested(1): 15326

#### 3) H9

Defining Markers for haplogroup H9:

HVR2: 152C 263G  
 CR: 750G 1438G 4769G 8860G 13020C 15326G  
 HVR1:

Marker path from rCRS to haplogroup H9:

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C ⇒ H(T152C) ⇒ 13020C ⇒ H9

**Imperfect Match.** Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G  
 Mismatches(1): 13020T  
 Untested(1): 15326

#### 3) H52

Defining Markers for haplogroup H52:

HVR2: 152C 263G

CR: 750G 1438G 4769G 8860G 14220G 15326G  
HVR1:

Marker path from rCRS to haplogroup H52:

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C ⇒ H(T152C) ⇒ 14220G ⇒ H52

Imperfect Match. Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G

Mismatches(1): 14220A

Untested(1): 15326

### 3) H69

Defining Markers for haplogroup H69:

HVR2: 152C 263G

CR: 750G 1438G 4646C 4769G 8860G 15326G

HVR1:

Marker path from rCRS to haplogroup H69:

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C ⇒ H(T152C) ⇒ 4646C ⇒ H69

Imperfect Match. Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G

Mismatches(1): 4646T

Untested(1): 15326

### 3) H16(T152C)

Defining Markers for haplogroup H16(T152C):

HVR2: 152C 263G

CR: 750G 1438G 4769G 8860G 10394T 15326G

HVR1:

Marker path from rCRS to haplogroup H16(T152C):

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 10394T ⇒ H16 ⇒ 152C ⇒ H16(T152C)

Imperfect Match. Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G

Mismatches(1): 10394C

Untested(1): 15326

### 3) H3(T152C)

Defining Markers for haplogroup H3(T152C):

HVR2: 152C 263G

CR: 750G 1438G 4769G 6776C 8860G 15326G

HVR1:

Marker path from rCRS to haplogroup H3(T152C):

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 6776C ⇒ H3 ⇒ 152C ⇒ H3(T152C)

Imperfect Match. Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G

Mismatches(1): 6776T

Untested(1): 15326

### 3) H46

Defining Markers for haplogroup H46:

HVR2: 152C 263G

CR: 750G 1438G 2772T 4769G 8860G 15326G

HVR1:

Marker path from rCRS to haplogroup H46:

H2a2a1(rCRS) ⇒ 263G ⇒ H2a2a ⇒ 8860G 15326G ⇒ H2a2 ⇒ 750G ⇒ H2a ⇒ 4769G ⇒ H2 ⇒ 1438G ⇒ H ⇒ 152C ⇒ H(T152C) ⇒ 2772T ⇒ H46

Imperfect Match. Your results contained differences with this haplogroup:

Matches(6): 152C 263G 750G 1438G 4769G 8860G

Mismatches(1): 2772C

Untested(1): 15326

### Need help?

First, please check the [Frequently Asked Questions](#) for guidance on how to read this report. If you still have questions, there is a [discussion about mthap on eng.molgen.org](#). You can also email your questions to me at [james.lick@jameslick.com](mailto:james.lick@jameslick.com). So that I can best help you, please include a copy of the complete mthap report and/or your mtDNA data file in your email.