(BACK)

mthap version 0.19b (2015-05-11); haplogroup data version PhyloTree Build 17 (2016-02-18) +mods raw data source snps_clean.vcf (22MB)

WARNING: Can't understand this line: X 178624 rs6644972

WARNING: Can't understand this line: X 182276 rs28475515

WARNING: Can't understand this line: X 191998 rs28463388

WARNING: Can't understand this line: X 200928 i6033542

WARNING: Can't understand this line: X 202458 rs7890186 WARNING: Can't understand this line: X 209741 i6033543

WARNING: Can't understand this line: X 195014 rs28669107

WARNING: Can't understand this line: X 201935 rs6655397

WARNING: Can't understand this line: X 215805 i6033544

WARNING: Can't understand this line: X 220770 rs28736870 rCRSdiff format was uploaded. Based on the markers found, assuming the following regions were completely sequenced: HVR1 (16001~16569) HVR2 (1~574) CR (575~16000).

G

0/0

0/0

0/0

0/1

0/0

0/0

0/1

0/0

0/0

0/0

PR

GT

Found 2708394 markers at 2137144 positions covering 100.0% of mtDNA.

Markers found (shown as differences to rCRS):

HVR2: 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C CR: 1389A 3104C 11149A 12344C 13905T 14417G 15463G

HVR1:

Best mtDNA Haplogroup Matches:

1) H2a2a1

Defining Markers for haplogroup H2a2a1: HVR2:

CR: HVR1:

 $H2a2a1(rCRS) \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$

Marker path from rCRS to haplogroup H2a2a1 (plus extra markers):

Good Match! Your results also had extra markers for this haplogroup:

Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

CR: HVR1:

2) H2a2a1f

HVR2: 93G

2) H2a2a1e

HVR2:

Marker path from rCRS to haplogroup H2a2a1f (plus extra markers):

Defining Markers for haplogroup H2a2a1f:

 $H2a2a1(rCRS) \Rightarrow 93G \Rightarrow H2a2a1f \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$

Mismatches(1): 93A Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

Imperfect Match. Your results contained differences with this haplogroup:

CR: 8182T HVR1:

Defining Markers for haplogroup H2a2a1e:

Marker path from rCRS to haplogroup H2a2a1e (plus extra markers):

 $H2a2a1(rCRS) \Rightarrow 8182T \Rightarrow H2a2a1e \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$

Imperfect Match. Your results contained differences with this haplogroup:

Mismatches(1): 8182C Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

Defining Markers for haplogroup H2a2a1a:

HVR1:

2) H2a2a1a

HVR2: CR: 15314A

Marker path from rCRS to haplogroup H2a2a1a (plus extra markers):

H2a2a1(rCRS) ⇒ 15314A ⇒ H2a2a1a ⇒ 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

Imperfect Match. Your results contained differences with this haplogroup: **Mismatches(1): 15314G** Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

2) H2a2a1h

Defining Markers for haplogroup H2a2a1h: HVR2: CR:

HVR1: 16320T Marker path from rCRS to haplogroup H2a2a1h (plus extra markers):

 $H2a2a1(rCRS) \Rightarrow 16320T \Rightarrow H2a2a1h \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$

Imperfect Match. Your results contained differences with this haplogroup:

Mismatches(1): 16320C Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

2) H2a2a1d **Defining Markers for haplogroup H2a2a1d:**

HVR2: CR:

HVR1: 16172C Marker path from rCRS to haplogroup H2a2a1d (plus extra markers):

H2a2a1(rCRS) ⇒ 16172C ⇒ **H2a2a1d** ⇒ 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G **Imperfect Match.** Your results contained differences with this haplogroup:

Mismatches(1): 16172T Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

2) H2a2a1b **Defining Markers for haplogroup H2a2a1b:**

CR: 9299G

Mismatches(1): 9299A

HVR2:

HVR1:

Marker path from rCRS to haplogroup H2a2a1b (plus extra markers):

 $H2a2a1(rCRS) \Rightarrow 9299G \Rightarrow H2a2a1b \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$

Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

Imperfect Match. Your results contained differences with this haplogroup:

2) H2a2a **Defining Markers for haplogroup H2a2a:**

CR:

HVR2: 263G

HVR1: Marker path from rCRS to haplogroup H2a2a (plus extra markers):

 $H2a2a1(rCRS) \Rightarrow {\color{red} 263G} \Rightarrow H2a2a \Rightarrow {\color{red} 1A} \ {\color{red} 2G} \ {\color{red} 3C} \ {\color{red} 4T} \ {\color{red} 5G} \ {\color{red} 6T} \ {\color{red} 7G} \ {\color{red} 8A} \ {\color{red} 9A} \ {\color{red} 10C} \ {\color{red} 11T} \ {\color{red} 12C} \ {\color{red} 13G} \ {\color{red} 14C} \ {\color{red} 15T} \ {\color{red} 16G} \ {\color{red} 17T} \ {\color{red} 18T} \ {\color{red} 19T} \ {\color{red} 20C} \ {\color{red} 21G} \ {\color{red} 22C} \ {\color{red} 1389A} \ {\color{red} 3104C} \ {\color{red} 11149A} \ {\color{red} 12344C} \ {\color{red} 13905T} \ {\color{red} 14417G} \ {\color{red} 15463G} \ {\color{red} 15463G} \ {\color{red} 14417G} \ {\color{red} 15463G} \ {\color{red} 15463G} \ {\color{red} 14417G} \ {\color{red} 1441$ Imperfect Match. Your results contained differences with this haplogroup:

Mismatches(1): 263A Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

Defining Markers for haplogroup H2a2a1g: HVR2: CR:

HVR2:

CR: 6632C

Need help?

2) H2a2a1g

HVR1: 16189C Marker path from rCRS to haplogroup H2a2a1g (plus extra markers):

 $H2a2a1(rCRS) \Rightarrow 16189C \Rightarrow H2a2a1g \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$ Imperfect Match. Your results contained differences with this haplogroup:

Mismatches(1): 16189T Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

3) H2a2a1c

HVR1: 16051G Marker path from rCRS to haplogroup H2a2a1c (plus extra markers):

Defining Markers for haplogroup H2a2a1c:

 $H2a2a1(rCRS) \Rightarrow 6632C\ 16051G \Rightarrow H2a2a1c \Rightarrow 1A\ 2G\ 3C\ 4T\ 5G\ 6T\ 7G\ 8A\ 9A\ 10C\ 11T\ 12C\ 13G\ 14C\ 15T\ 16G\ 17T\ 18T\ 19T\ 20C\ 21G\ 22C\ 1389A\ 3104C\ 11149A\ 12344C\ 13905T\ 14417G\ 15463G$ Imperfect Match. Your results contained differences with this haplogroup:

Mismatches(2): 6632T 16051A Extras(29): 1A 2G 3C 4T 5G 6T 7G 8A 9A 10C 11T 12C 13G 14C 15T 16G 17T 18T 19T 20C 21G 22C 1389A 3104C 11149A 12344C 13905T 14417G 15463G

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