

PROTOCOLS FOR FORENSIC MITOCHONDRIAL DNA ANALYSIS

APPENDIX C REVISED CAMBRIDGE REFERENCE SEQUENCE

DATE EFFECTIVE 06-20-2016	APPROVED BY MITOCHONDRIAL DNA TECHNICAL LEADER	PAGE 1 OF 2
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Appendix C- Revised Cambridge Reference Sequence

Hypervariable Region I (HVI)

16024- TTCTTTCATG GGGAAGCAGA TTTGGGTACC ACCCAAGTAT
16064- TGA CTCACCC ATCAACAACC GCTATGTATT TCGTACATTA
16104- CTGCCAGCCA CCATGAATAT TGTACGGTAC CATAAATACT
16144- TGACCACCTG TAGTACATAA AAACCCAATC CACATCAAAA
16184- CCCCCTCCCC ATGCTTACAA GCAAGTACAG CAATCAACCC
16224- TCAACTATCA CACATCAACT GCAACTCCAA AGCCACCCCT
16264- CACCCACTAG GATACCAACA AACCTACCCA CCCTTAACAG
16304- TACATAGTAC ATAAAGCCAT TTACCGTACA TAGCACATTA
16344- CAGTCAAATC CCTTCTCGTC CC -**16365(end)**

Hypervariable Region II (HVII)

73- ATGCACGCGA TAGCATTGCG AGACGCTGGA GCCGGAGCAC
113- CCTATGTCGC AGTATCTGTC TTTGATTCCT GCCTCATCCT
153- ATTATTTATC GCACCTACGT TCAATATTAC AGGCGAACAT
193- ACTTACTAAA GTGTGTTAAT TAATTAATGC TTGTAGGACA
233- TAATAATAAC AATTGAATGT CTGCACAGCC ACTTTCCACA
273- CAGACATCAT AACAAAAAAT TTCCACCAAA CCCCCCTCC
313- CCCGCTTCTG GCCACAGCAC TTAAACAC- **340(end)**

Human Mitochondrial DNA Revised Cambridge Reference Sequence,

LOCUS NC_012920 16569 bp DNA circular PRI 30-APR-2010
DEFINITION Homo sapiens mitochondrion, complete genome.
ACCESSION NC_012920 AC_000021
VERSION NC_012920.1 GI: 251831106
SOURCE mitochondrion Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Euarchontoglires;
Primates; Haplorrhini; Catarrhini; Hominidae; Homo.

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DATE EFFECTIVE 06-20-2016	APPROVED BY MITOCHONDRIAL DNA TECHNICAL LEADER	PAGE 2 OF 2
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Anderson S, Bankier AT, Barrell BG, de Bruijn MH, Coulson AR, Drouin J, Eperon IC, Nierlich DP, Roe BA, Sanger F, Schreier PH, Smith AJ, Staden R, Young IG. Sequence and organization of the human mitochondrial genome Nature 1981; 290: 457-465. MEDLINE- 81173052 PUBMED-7219534

Andrews RM, Kubacka I, Chinnery PF, Lightowlers RN, Turnbull DM, Howell N. Reanalysis and revision of the Cambridge reference sequence for human mitochondrial DNA. Nat. Genet. 1999; 23 (2): 147. MEDLINE- 99438386 PUBMED- 10508508