

Green Turtle mtDNA Long Sequences (~800 bp)

Green turtle (*Chelonia mydas*) mitochondrial DNA control region sequences: Atlantic and Mediterranean

The ACCSTR collaborates with **Brian Shamblin** (University of Georgia; email: brian.shamblin@gmail.com) to maintain this website.

New mtDNA D-Loop primers have been developed for marine turtles that yield sequences of ~800bp (Abreu-Grobois et al. 2006. 26th Annual Symposium on Sea Turtle Biology and Conservation, Crete, Greece.). The sequences are available below. The protocol for naming these longer sequences follows:

1. All longer (~800bp) sequence names will be based on the original ~400 bp foundation sequence as currently presented on the ACCSTR website [<http://accstr.ufl.edu/accstr-resources/cmmtdna.pdf>]. New ~400 bp sequences will continue to be named in the order that they are reported.
2. The most common variant or the first variant of the longer sequence for a ~400 bp foundation sequence will be given the suffix “.1” following the foundation sequence name. For example, the most common long sequence for the foundation sequence CM-A1 will be given the designation CM-A1.1. Additional long-sequence variants for the foundation sequence will be designated with the suffix “.2”, “.3”, etc. yielding, for example, sequence designations CM-A1.2 and CM-A1.3.
3. If we have only one longer sequence for a ~400 bp foundation sequence, that sequence will be given the suffix “.1”.

To facilitate haplotype designations and to avoid confusion among ocean basins, we are using the nomenclature of CM-A# (prefix A before the number is used to designate that it is from the Atlantic basin; P will be used for the Pacific).

If you have a new sequence, please email the new sequence to [ACCSTR](mailto:accstr@ufl.edu) (accstr@ufl.edu), and we will confirm the status of the sequence and assign a

sequence designation number. **It is the responsibility of the author of the new sequence to submit the sequence to GenBank (<http://ncbi.nlm.nih.gov>).** The data in GenBank are simultaneously made available to EMBL in Europe and the DNA Data Bank of Japan.

Click [HERE](#) to access a text file of the current green turtle long mtDNA sequences.

The table below presents the metadata for the named haplotypes for Atlantic green turtle.

Updated 31 March 2016

Haplotype	Genbank	Reference or Contact Information
CM-A1.1	JF308465	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A1.2	JF308466	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A1.3		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A1.4		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A2.1	JX306006	Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A3.1	JN632497	Shamblin <i>et al.</i> 2012. Molecular Ecology 21:2330-2340.
CM-A3.2	HM365068	Julia Azanza (A deletion in the original sequence is corrected here.)
CM-A3.3		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A3.4		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A3.5		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A3.6		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A3.7		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A5.1	JN632498	Shamblin <i>et al.</i> 2012. Molecular Ecology 21:2330-2340.
CM-A5.2	JN632499	Shamblin <i>et al.</i> 2012. Molecular Ecology 21:2330-2340.
CM-A5.3	JF308470	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A5.4	HM365075	Julia Azanza CMA20. This haplotype was assigned as CM-A20 but matches CM-A5, so has been renamed to conform to ACCSTR nomenclature. A deletion in the original sequence is corrected here.
CM-A6.1	JQ366073	Shamblin <i>et al.</i> 2012. Molecular Ecology 21:2330-2340.
CM-A8.1	JF308472	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A8.2	JF308473	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A8.3	JF308474	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A9.1	JF308475	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A10.1	JF308476	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A12.1	JF308282	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A13.1	JX306007	Brian Shamblin, unpublished (brian.shamblin@gmail.com)

CM-A14.1		Angela Mastrogiacomo, unpublished (mastrogiacomo.angela@libero.it)
CM-A15.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A16.1	JN632500	Shamblin <i>et al.</i> 2012. <i>Molecular Ecology</i> 21:2330-2340.
CM-A16.2		Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A17.1	JQ420802	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A18.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx)
CM-A18.2	JX306008	Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A20.1	JN632501	Shamblin <i>et al.</i> 2012. <i>Molecular Ecology</i> 21:2330-2340.
CM-A21.1	JN632502	Shamblin <i>et al.</i> 2012. <i>Molecular Ecology</i> 21:2330-2340.
CM-A22.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A23.1	JF308478	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A24.1	JF308479	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A25.1	JF308483	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A26.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A27.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A28.1	JX306009	Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A29.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A32.1	JF308480	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A34.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A42.1	JF308481	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A47.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A48.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A48.2		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A48.3		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A50.1		Juliana Jordão, unpublished (jujordao@yahoo.com.br). Originally named CM-A70.1.
CM-A52.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A53.1	JX306010	Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A58.1		Alberto Abreu-Grobois, unpublished (alberto.abreu@ola.icmyl.unam.mx); Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A60.1		Angela Mastrogiacomo, unpublished (mastrogiacomo.angela@libero.it)

CM-A61.1	JQ034602	Bagda <i>et al.</i> 2012. <i>Biochemical Systematics and Ecology</i> 43:192-199
CM-A62.1	JQ034603	Bagda <i>et al.</i> 2012. <i>Biochemical Systematics and Ecology</i> 43:192-199
CM-A63.1	JQ034604	Bagda <i>et al.</i> 2012. <i>Biochemical Systematics and Ecology</i> 43:192-199
CM-A64.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A65.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A66.1	JF308464	Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A67.1	HM365069	Julia Azanza CMA12 (did not match ACCSTR CM-A12 and was assigned a new name to conform to existing nomenclature). A deletion in the original sequence is corrected here.
CM-A68.1		Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A69.1		Juliana Jordão, unpublished (jujordao@yahoo.com.br)
CM-A70.1		Haplotype CM-A70.1 has been withdrawn because of a naming error and will not be used again to avoid confusion. CM-A70.1 is the same sequence as CM-A50.1.
CM-A71.1		Brian Shamblin, unpublished (brian.shamblin@gmail.com)
CM-A72.1		Formia and Natali, unpublished (aformia@wcs.org)
CM-A73.1		Eugenia Naro-Maciel, unpublished (enaromaciel@gmail.com)
CM-A74.1		Jérôme Bourjea, unpublished (jerome.bourjea@ifremer.fr)

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