

Widespread detection of circular replication initiator protein (*rep*)-encoding ssDNA viral genomes in estuarine, coastal and open ocean net plankton

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Marine Ecology Progress Series 494: 65–72 (2013)

Supplement.

Table S1. Primer, probe, and oligonucleotide sequences used in study of eukaryotic circular ssDNA viral distribution in net plankton

Target	Source environment or organism	Approx. salinity of habitat	Ref.	Primers	Sequence data (5'–3')	Oligonucleotide standard
FGL_c7	Water column environmental metagenome	0	1	F: CCATCCCACCATTTAT TTGC R: GGGTCCATCTGGAAC TGGTA	GGCATTGGGAAA AAGCTCTCTTGC	ATCCATCCCACCATTTATT TGCTAACTGAAATAGGCA TTGGGAAAAAGCTCTCTTG CTGATCGGGATTTACCAGT TCCAGATGGACCCC
CL_c937	Soil environmental metagenome	0	1	F: GGAAGTCAAGGGTTC GTCAA R: TACCATTCTCGGGGA TCAAG	GCCGAGGTTATC TGGATCACCAGC	GTGGAAGTCAAGGGTTCGT CAAGACCTTTGGTTGCCGA GGTTATCTGGATCACCAGC AATCTTGATCCCCGAGAAT GGTACTC
LM29173	<i>Diporeia</i> spp. (Amphipoda)	0	2	F: CGAGGTAGGGGAGTG TGGTA R: TGCCTCTGCTTCTTGT CCTT	CCCCACACATCC AGGCC	AACGAGTTAGGGGAGTGTG GTACCCACACATCCAGGC CTACGTTGCCTTGCTAAAGG ACAAGAAGCAGAGGCAGGC GCGGTAGTGTCCCTCCTTC ACCTCCACGGAGCAGGGGT ACTGTCCAACCAGCGTAGT AGATGGGTGATGTTGATGAG GGAGTCGA
Circovirus-like genome CB-B	Water column environmental metagenome	22	3	F: CGGTAGTGTCCCTCCT TTCA R: CGACTCCCTCATCAA CATCA	GAGCAGGGGTAC TTGTCCAACCAGC	

Circovirus-like genome CB-A	Water column environmental metagenome	22	3	F: CCAGATCAAGAAATT GGTGTTTTAC R: CGTAGCCGTACGTTA AATACTTCAT	CGATTCGAGCCCAC GTATACAAAAGTG	CCAGATCAAGAAATTGGTG TTTTACTTATAATAATTACG ATTCGAGCCCACGTATACA AAAGTGTATGAAGTATTTAA CGTACGGCTACG GTCACAAAACAAATCCCGTC AACGCCACCGTAGTCTTGCGT GGACATTAACAATTATACTG CAGCGGAGCTTCAGCATATTA TAGCAGGAGCCGATGC CATCGGAGTCAACGTTCTCA GAGCCCAACAAAGTAACTTG GGTCTATTAACGTGAAGTAA CCCTGCGGTAGGAACAG
DMClHV+	<i>Daphnia mendotae</i> (Cladocera)	0	4	F: TCACAAAACAAATCC CGTCA R: GCATCGGCTCCTGCT ATAAT	CGCCACCGTAG TGTTGCGTG	GTCACAAAACAAATCCCGTC AACGCCACCGTAGTCTTGCGT GGACATTAACAATTATACTG CAGCGGAGCTTCAGCATATTA TAGCAGGAGCCGATGC CATCGGAGTCAACGTTCTCA GAGCCCAACAAAGTAACTTG GGTCTATTAACGTGAAGTAA CCCTGCGGTAGGAACAG
DMClHV-	<i>Daphnia mendotae</i> (Cladocera)	0	4	F: CATCGGAGTCAACGT TCTCA R: TGTTCTACCGCAGG GTTAC	GAGCCCAACAAA GTAACCTGGGTGG	GTCACAAAACAAATCCCGTC AACGCCACCGTAGTCTTGCGT GGACATTAACAATTATACTG CAGCGGAGCTTCAGCATATTA TAGCAGGAGCCGATGC CATCGGAGTCAACGTTCTCA GAGCCCAACAAAGTAACTTG GGTCTATTAACGTGAAGTAA CCCTGCGGTAGGAACAG
LACopCV	<i>Labidocera aestiva</i> (Copepoda)	35	5	F: CTTCCGCAGGAGAA AGTCAG R: GCATGGTACCAGGA CGAGTT	CACCAAAGAGGA GGGCACGTGG	GCTTCCGCAGGAGAAAGTCA GCACCAAAGAGGAGGGCAGC TGGGCGCAAGGCCCGTGCTC GACGTTACCGTTCAACTCGT CCTGGTACCATGCA ATCTACGGCCCTACAGGCAG TGGCAAGTCTCGATTGCGAT CAACTCTACGCGATGAATGT TACTGGAAACCCCTGGCAA ATGGTTTGATGGTTACGACC AGGAG
ATCopCV	<i>Acartia tonsa</i> (Copepoda)	35	5	F: GCAGTGGCAAGTCTC GATTC R: TGGTCGTAACCATCA AACCA	TGTTACTGGAAA CCCCCTGGCA	GTCACAAAACAAATCCCGTC AACGCCACCGTAGTCTTGCGT GGACATTAACAATTATACTG CAGCGGAGCTTCAGCATATTA TAGCAGGAGCCGATGC CATCGGAGTCAACGTTCTCA GAGCCCAACAAAGTAACTTG GGTCTATTAACGTGAAGTAA CCCTGCGGTAGGAACAG

[1] Hewson et al. 2012, [2] Hewson et al. 2013a, [3] Rosario et al. 2009, [4] Hewson et al. 2013b, [5] Dunlap et al. 2013

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