

**Nucleotide sequences of 5S ribosomal RNAs of *Protomonas extorquens*, *Rhodopseudomonas palustris*, *Rhodobacter capsulatus*, and *Erythrobacter longus***

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Nucleotide sequences of 5S ribosomal RNAs isolated from four gram-negative bacteria with bacteriochlorophyll a and carotenoids, *Protomonas extorquens* TK 0001 (1), *Rhodopseudomonas palustris* ATCC 17001, *Rhodobacter capsulatus* NCIB 8254, and *Erythrobacter longus* IFO 14126, were determined by the chemical method of Peattie (2) and the enzymatic method of Donis-Keller (3). Their nucleotide sequences are as follows:

	10	20	30	40	50		
<i>P. extorquens</i> TK 0001	.....CUGGUGGCCUGAGCGGUGUGCCAGAACCCGAUCCCAUCUCGAAACUC						
<i>R. palustris</i> ATCC 17001	CGGCCUGGUGGUUCUAGCGAGGAGCC-UGAACCCGUUCCCAUCCCGAACAC						
<i>R. capsulatus</i> NCIB 8254	--GUUUGGUGGUCAUAGCGACGGCUA-AACUCCGAUCCCUUCCCGAACUC						
<i>E. longus</i> IFO 14126	UUGCUUGGUGGUCCUAGCGACUGUGA-CCACCCGAUCCCAUCUCGAAACUC						
	60	70	80	90	100	110	120
	.....GGCCGUUAAACACACCAGCGCCCAUGGUACUGUGUCUCAAGACACGGGAGAGUCGGU-GCCGCCAGGCCU						
	GGCCGUUAAACUCCUCAGCGCCAAUGGUACUCCGUCUCAAGACGCGGGAGAGUAGGU-GCCGCCAGGCCU						
	GGCCGUUAAAGGGCCGUCACGCCAAUGGUACUGCGUCUCAAGACGUGGGAGAGUAGGUCACCGCCAAACC-						
	GGCCGUUAAAGGGCCGUCACGCCAAUGGUACUUGUCUUAAGGCAUGGAAGAGUAGGU-GCCGCCAGGCAU						

The secondary structural models of their 5S rRNAs deduced from their sequences showed characteristics of gram-negative bacterial 5S rRNA (i.e. 120-N type (4)).

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