

The complete plastid genome and phylogenetic analysis of *Gracilaria chilensis*

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Abstract	<p><i>Gracilaria chilensis</i> is an economically important species of macroalgae. The plastid genome sequence of <i>G. chilensis</i> is 185,640 bp with a GC content of 29.34%. A total of 236 genes were determined, containing 203 protein-encoding genes, three rRNA genes, 30 tRNA genes, and one intron (with intronic ORF) inserted into the <i>trnM</i> gene. The gene content and structure of Gracilariaceae species were relatively well conserved. The phylogenetic analysis, based on the red algal plastid genomes, suggested that <i>G. chilensis</i> had a closer relationship with <i>Gracilaria tenuistipitata</i> var. <i>liui</i> in <i>Gracilaria</i>.</p>
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