

Figure S1. Maximum likelihood tree based on mitochondrial cytochrome oxidase I COI gene sequences of species of *Donax* using the Atlantic surf clam *Spisula solidissima* as an outgroup. Numbers in internal nodes, reported as percentages, indicate maximum-likelihood bootstrap support values (500 replicates).

Donax trunculus (Praia América 44)



Figure S2. Compatibility between the expected restriction fragment patterns for *Donax trunculus* and *Donax vittatus* mitochondrial cytochrome oxidase I COI gene sequences obtained in this work and those described by Nanton et al. [14]. The sequences display both the primers used in this work (red) and those used in [14] (bold, underlined) and the restriction targets for *Alu*I (yellow), *Hae*III (green) and *Msp*I (blue). The combination of restriction fragment sizes expected from our 706 bp sequences and those described in [14] (596-bp sequences) for each restriction enzyme is displayed in the corresponding colors.