

Table S1. Isolate code, specimen_voucher numbers and GENBANK accession numbers of *Ulva stenophylloides*, *Ulva uncialis*, *Ulva compressa* and *Ulva aragoensis* from Algarrobo beach, Valparaíso, Chile, sequenced (*ITS1*, and *tufA* markers) during this work.

Isolate code	Species	Specimen_voucher number	GENBANK accession number	
			<i>ITS</i>	<i>tufA</i>
Sample1	<i>Ulva stenophylloides</i>	SGO171638	OR514517	-
Sample2	<i>Ulva stenophylloides</i>	-	OR514518	-
Sample5	<i>Ulva uncialis</i>	-	OR514519	-
Sample7	<i>Ulva uncialis</i>	-	OR514520	-
Sample8	<i>Ulva uncialis</i>	-	OR514521	-
Sample9	<i>Ulva uncialis</i>	SGO171642	OR514522	-
Sample10	<i>Ulva uncialis</i>	-	OR514523	.
Sample2E	<i>Ulva stenophylloides</i>	SGO171636	OR514524	OR526355
Sample2I	<i>Ulva stenophylloides</i>	SGO171637	OR514525	-
Sample2J	<i>Ulva stenophylloides</i>	-	OR514526	OR526358
Sample2XI	<i>Ulva uncialis</i>	SGO171645	OR514527	-
Sample2XII	<i>Ulva uncialis</i>	-	OR514528	-
Sample3D	<i>Ulva stenophylloides</i>	-	OR514529	-
Sample3E	<i>Ulva stenophylloides</i>	SGO171639	OR514530	-
Sample3G	<i>Ulva stenophylloides</i>	-	OR514531	-
Sample3XI	<i>Ulva uncialis</i>	SGO171648	OR514532	-
Sample3XII	<i>Ulva uncialis</i>	SGO171644	OR514533	-
Sample4A	<i>Ulva uncialis</i>	-	OR514534	-
Sample4C	<i>Ulva uncialis</i>	-	OR514535	-
Sample4D	<i>Ulva uncialis</i>	-	OR514536	OR526362
Sample4E	<i>Ulva uncialis</i>	-	OR514537	-
Sample4G	<i>Ulva uncialis</i>	-	OR514538	OR526364

Sample4M	<i>Ulva uncialis</i>	-	OR514539	-
Sample4X	<i>Ulva uncialis</i>	-	OR514540	-
Sample4XII	<i>Ulva uncialis</i>	-	OR514541	-
Sample8AM	<i>Ulva uncialis</i>	-	OR514542	OR526367
Sample100X	<i>Ulva compressa</i>	-	OR514543	-
Sample100XII	<i>Ulva compressa</i>	-	OR514544	-
Sample100XIII	<i>Ulva compressa</i>	SGO171649	OR514545	-
Sample100XIV	<i>Ulva compressa</i>	-	OR514546	-
Sample200X	<i>Ulva aragoensis</i>	-	OR514547	-
Sample200XI	<i>Ulva aragoensis</i>	-	OR514548	-
Sample200XII	<i>Ulva aragoensis</i>	SGO171650	OR514549	-
Sample300XI	<i>Ulva aragoensis</i>	-	OR514550	-
Sample300XII	<i>Ulva aragoensis</i>	SGO171651	OR514551	-
Sample300XIV	<i>Ulva compressa</i>	-	OR514552	-
Sample4AM	<i>Ulva australis</i>	SGO171635	OR514553	OR526361
SampleFCMM	<i>Ulva uncialis</i>	-	OR514554	-
Sample6	<i>Ulva uncialis</i>	SGO171640	OR514555	OR526366
Sample1X	<i>Ulva uncialis</i>	SGO171641	OR514556	-
Sample2X	<i>Ulva uncialis</i>	SGO171643	OR514557	-
Sample3X	<i>Ulva uncialis</i>	SGO171647	OR514558	-
Sample2G	<i>Ulva stenophylloides</i>	-	-	OR526356
Sample2H	<i>Ulva stenophylloides</i>	-	-	OR526357
Sample3H	<i>Ulva stenophylloides</i>	-	-	OR526359
Sample3K	<i>Ulva stenophylloides</i>	-	-	OR526360
Sample4F	<i>Ulva uncialis</i>	-	-	OR526363
Sample4H	<i>Ulva uncialis</i>	-	-	OR526365