

Table S1. Proteins sequences used in phylogenetic analysis

Proteins	Species	GenBank accession number
C-type lectin	<i>Arabidopsis thaliana</i>	NP_175641.1
	<i>Arabidopsis thaliana</i>	OAP12328.1
	<i>Oryza sativa</i>	XP_015617554.1
	<i>Oryza sativa</i>	XP_015617555.1
	<i>Nannoshloropsis gaditana</i>	EWM26794.1
	<i>Nannoshloropsis gaditana</i>	EWM26828.1
	<i>Chlamydomonas reinhardtii</i>	PNW77785.1
	<i>Chlamydomonas reinhardtii</i>	PNW73414.1
	<i>Chlamydomonas reinhardtii</i>	PNW75982.1
	<i>Porphyra umbilicalis</i>	OSX81057.1
	<i>Porphyra umbilicalis</i>	OSX70860.1
	<i>Porphyra umbilicalis</i>	OSX80033.1
L-type lectin	<i>Arabidopsis thaliana</i>	NC_003076.8
	<i>Arabidopsis thaliana</i>	NC_003074.8
	<i>Oryza sativa</i>	NC_029264.1
	<i>Oryza sativa</i>	NC_029263.1
	<i>Chondrus crispus</i>	XP_005718310.1
	<i>Porphyra umbilicalis</i>	OSX69288.1
	<i>Porphyra umbilicalis</i>	OSX69364.1
	<i>Ectocarpus siliculosus</i>	Esi0227_0052.1
	<i>Ectocarpus siliculosus</i>	Esi0225_0050.1
	<i>Ectocarpus siliculosus</i>	Esi0000_0111.1
R proteins	<i>Arabidopsis thaliana</i>	NP_193428.2
	<i>Arabidopsis thaliana</i>	NP_001031652.1
	<i>Chromochloris zofingiensis</i>	UNPLg00039.t1
	<i>Chromochloris zofingiensis</i>	UNPLg00131.t1
	<i>Chromochloris zofingiensis</i>	UNPLg00134.t1
	<i>Chromochloris zofingiensis</i>	UNPLg00127.t1
	<i>Porphyra umbilicalis</i>	OSX80423.1
	<i>Ectocarpus siliculosus</i>	Esi0015_0171.1
	<i>Ectocarpus siliculosus</i>	Esi0104_0065.1
	<i>Porphyra umbilicalis</i>	OSX80000.1
	<i>Ectocarpus siliculosus</i>	Esi0000_0412.1
	<i>Porphyra umbilicalis</i>	OSX80299.1
	<i>Porphyra umbilicalis</i>	OSX79821.1
	<i>Ectocarpus siliculosus</i>	Esi0000_0090.1
	<i>Porphyra umbilicalis</i>	OSX80057.1
	<i>Porphyra umbilicalis</i>	OSX77688.1
RBOH	<i>Arabidopsis thaliana</i>	NC_003076.8

	<i>Arabidopsis thaliana</i>	NC_003070.9
	<i>Zea mays</i>	NC_024461.2
	<i>Oryza sativa</i>	NC_029259.1
	<i>Chlamydomonas reinhardtii</i>	XM_001691803.1
	<i>Chlamydomonas reinhardtii</i>	XM_001691804.1
	<i>Chondrus crispus</i>	XP_005718545.1
	<i>Porphyra umbilicalis</i>	OSX69091.1
	<i>Porphyra umbilicalis</i>	OSX73467.1
	<i>Phaeodactylum tricornutum</i>	XP_002179812.1
Cellulase	<i>Arabidopsis thaliana</i>	NM_001036005.2
	<i>Arabidopsis thaliana</i>	NC_003076.8
	<i>Oryza sativa</i>	KF214526.1
	<i>Zea mays</i>	NM_001138649.1
	<i>Zea mays</i>	XM_008680545.2
	<i>Monoraphidium neglectum</i>	XM_014049505.1
	<i>Micromonas commoda</i>	XM_002501438.1
	<i>Chondrus crispus</i>	XP_005717153.1
	<i>Gracilariopsis chorda</i>	PXF45766.1
Protease inhibitor	<i>Arabidopsis thaliana</i>	NC_003070.9
	<i>Oryza sativa</i>	NC_029257.1
	<i>Oryza sativa</i>	NC_029261.1
	<i>Chromochloris zofingiensis</i>	NW_001843709.1
	<i>Arabidopsis thaliana</i>	NC_003076.8
	<i>Chlorella variabilis</i>	NW_005435085.1
	<i>Volvox carteri</i>	NW0033077870.1
	<i>Chondrus crispus</i>	XP_005717409.1
	<i>Porphyra umbilicalis</i>	OSX79466.1
	<i>Porphyra umbilicalis</i>	OSX71446.1