Supplemental Table S1. List of *Cladocopium* samples with corresponding species names, ITS2 designations, host *Pocillopora* species, country of origin, collection site, and approximate latitude/longitude coordinates.

Species	ITS2 Type	Host species	ORF	Location	Site	Coordinates	Sample
C. latusorum	C1c	P. acuta	5	Aquarium trade	n/a	n/a	Davies_Poc2_aquarium
C. latusorum	C1c	P. 'verrucosa'	·	Australia	Back reef north, GBR	11/4	Aust03_347
C. latusorum	C1c	P. 'verrucosa'		Australia	Feather reef north. GBR	-17.517889; 146.375117	Aust03_41
C. latusorum	C1j	P. acuta	5	Australia	Feather reef north, GBR	-17.517889; 146.375117	Aust03_124
C. latusorum	o.,	P. damicornis	4	Australia	Shag Rock, GBR	-27.412778; 153.525	Aust Pd SR30
C. latusorum	C1b-c-42a	P. damicornis	4	Australia	4th point, GBR	-23.43185; 151.98883	Pd_4P25
C. latusorum	C1b-c-j- 42a C1b-c-j-	P. damicornis	4	Australia	Amity, GBR	-27.399444; 153.4375	Aust_Pd_A30
C. latusorum	42a	P. damicornis	4	Australia	Llewellyn, GBR	-23.676933; 152.193867	Aust_Pd_L2
C. latusorum	C1c	P. damicornis	4	Australia	Lady Musgrave, GBR	-23.882133; 152.403933	Aust_Pd_LM26
C. latusorum	C1c-42a	P. damicornis	4	Australia	Boult, GBR	-23.7456; 152.2757	Aust_Pd_U4
C. latusorum	C1j	P. damicornis	4	Australia	Feather reef north, GBR	-17.517889; 146.375117	Aust03_15
C. latusorum	C1j	P. damicornis	4	Australia	Feather reef north, GBR	-17.517889; 146.375117	Aust03_77
C. latusorum	C1c	P. damicornis		Australia	Heron Island, GBR	-23.441756; 151.910422	Aust02_139
C. latusorum	C1c	P. damicornis		Australia	Heron Island, GBR	-23.441756; 151.910422	Aust02_140
C. latusorum	C1c_ff	P. damicornis		Australia	Rottnest Island	-31.999872; 115.550372	WAust_189
C. latusorum	C1c_ff	P. damicornis		Australia	Rottnest Island	-31.999872; 115.550372	WAust_204
C. latusorum	C1j	P. grandis	1	Australia	Rib reef north, GBR	-18.470853; 146.871867	Aust03_253
C. latusorum	C1c	P. grandis		Australia	Feather reef north, GBR	-17.517889; 146.375117	Aust03_107
C. latusorum	C1c-42	P. sp.		Australia	One Tree-I, GBR	-23.488183; 152.058383	OneTreeIsland_1_18
C. latusorum	C1c-42	P. sp.		Australia	One Tree-I, GBR	-23.488183; 152.058383	OneTreeIsland_1_8
C. latusorum	C1c	P. verrucosa		Australia	Feather reef north, GBR	-17.517889; 146.375117	Aust03_84
C. latusorum	C1c	P. grandis	1	Ecuador	Darwin, Galapagos	01.67603; -091.99481	Gal_471
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu, Kaneohe Bay	21.436125; -157.786503	Haw02_114
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.458556; -157.781061	Haw08_11
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.458556; -157.781061	Haw08_12
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.458556; -157.781061	Haw08_13
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.458556; -157.781061	Haw08_14

C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.458556; -157.781061	Haw08_15
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_015
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_016
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_017
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_018
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_019
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_020
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_021
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_023
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_024
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_087
C. latusorum	C1c	P. grandis	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_091
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.590011; -158.139636	Haw02_035
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_010
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_011
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_012
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_014
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_106
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_107
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_108
C. latusorum	C1c	P. meandrina	1	Hawaii	O'ahu	21.436125; -157.786503	Haw09_109
C. latusorum	C1c	P. damicornis		Japan	Zamami Island	26.223375; 127.292836	Zam03_59
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_147
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_150
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_151
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_152
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_153
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_160
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_161
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_167
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_168

C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_173
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_174
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_175
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_179
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_193
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_194
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_195
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_199
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_203
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_205
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_211
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_214
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_215
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_216
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_224
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_301
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_302
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP08_68
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP09_66
C. latusorum	C1b-c	P. grandis	1	Mexico	Punta Galeras, La Paz	24.354203; -110.284225	LaP09_67
C. latusorum	C42	P. grandis	1	Moorea	North Shore	-17.482027, -149.857694	MVP_POC33_0819
C. latusorum	C1c-42	P. acuta	5	New Caledonia	Bouraké, R1	-22.201111; 165.9025	NewCal_31
C. latusorum	C1c-42	P. sp.		New Caledonia	Pelotas	-18.39; 163.11	NewCal_31a
C. latusorum	C1c	P. grandis	1	Palau	Rebotel	7.15133; 134.13272	Pal13_ORT1_52
C. latusorum	C1c	P. grandis	1	Palau	Rebotel	7.15133; 134.13272	Pal13_ORT2_30
C. latusorum	C1c	P. grandis	1	Palau	East outer reef	7.262653; 134.519233	Pal09_313
C. latusorum	C1c	P. grandis	1	Palau	Rebotel	7.250997; 134.224761	Pal09_550
C. latusorum	C1c	P. grandis	1	Palau	Rebotel	7.250997; 134.224761	Pal09_620
C. latusorum	C1c	P. meandrina	8	Palau	Rebotel	7.15133; 134.13272	Pal13_ORT3_13
C. latusorum	C1b-c	P. grandis	1	Panama	Taboga	9.133889; -79.559444	Pan09_27
C. latusorum	C1b-c	P. grandis	1	Panama	Uraba	11.445833; -79.914444	Pan09_28

C. latusorum	C1b-c	P. grandis	1	Panama	Uraba	11.445833; -79.914444	Pan09_48
C. latusorum	C1b-c	P. grandis	1	Panama	Taboga	9.133889; -79.559444	Pan09_62
C. latusorum	C1b-c	P. grandis	1	Panama	Taboga	9.133889; -79.559444	Pan09_64
C. latusorum	C1c	P. grandis	1	Panama	Uraba	11.445833; -79.914444	Pan09_15
C. latusorum	C1c	P. sp.		Republic of Kiribati	Kanton, Satellite Beech	-2.763047; -171.703658	Phoenix09_220
C. latusorum	C1c	P. damicornis	4	Taiwan	Bitou	121.91560, 25.12577	TW_72
C. latusorum	C1c	P. damicornis	4	Taiwan	Yeilu	121.69437, 25.20767	TW_117
C. latusorum	C1c	P. damicornis	4	Taiwan	Yeilu	121.69437, 25.20767	TW_125
C. latusorum	C1c	P. damicornis	4	Taiwan	Yeilu	121.69437, 25.20767	TW_131
C. latusorum	C1c	P. grandis	1	Tanzania	Zanzibar, Windward	-5.720667; 39.319086	Zanzibar07_287
C. latusorum	C1c	P. grandis	1	Tanzania	Zanzibar, Changu	-6.1201; 39.161347	Zanzibar07_36
C. latusorum	C1c-42	P. grandis	1	Tanzania	Zanzibar, Changu	-6.1201; 39.161347	Zanzibar07_18
C. latusorum	C42a	P. grandis		Thailand	Similan Islands, Thialand	8.651736; 97.638019	SML07_60
C. pacificum	C1d	P. acuta	5	Aquarium trade	South Carolina, USA	n/a	SPA48
C. pacificum	C1d	P. verrucosa	3	Aquarium trade	n/a	n/a	Davies_Poc1_aquarium
C. pacificum	C1d	P. sp.		Aquarium trade	Sea World, Florida, USA	n/a	SPA74
C. pacificum	C1d	P. verrucosa	3	Ecuador	Isabela, ConchaYPerla	-00.96294; -90.95600	Gal_12_1287
C. pacificum	C1d	P. verrucosa	3	Ecuador	Isabela, ConchaYPerla	-00.96294; -90.95600	Gal_12_1302
C. pacificum	C1d	P. acuta	5	Hawaii	Kaneohe Bay	21.436125; -157.786503	Haw02_003
C. pacificum	C1d	P. acuta	5	Hawaii	Kaneohe Bay	21.436125; -157.786503	Haw02_008
C. pacificum	C1d	P. acuta	5	Hawaii	Kaneohe Bay	21.436125; -157.786503	Haw02_015
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_092
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_093
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_094
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_096
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_116
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_118
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_120
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_122
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_123
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_124

C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_126
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_127
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_128
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_129
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_130
C. pacificum	C1d	P. acuta	5	Hawaii	O'ahu	21.436125; -157.786503	Haw09_97
C. pacificum	C1d	P. verrucosa	3	Moorea	North shore	-17.478379, -149.841743	MVP_POC60_0819
C. pacificum	C1d	P. verrucosa	3	Moorea	North shore	-17.470622, -149.805714	MVP_POC149_0819
C. pacificum	C1d	P. acuta	5	New Caledonia	Bouraké R2	-22.019167; 165.971667	NewCal_55
C. pacificum	C1d	P. sp.		New Caledonia	Bouraké R2	-22.019167; 165.971667	NewCal_10
C. pacificum	C1d	P. sp.		New Caledonia	Bouraké R1	-22.201111; 165.9025	NewCal_28
C. pacificum	C1d	P. sp.		New Caledonia	Bouraké L1	-22.1875; 166.143611	NewCal_6
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.15133; 134.13272	Pal_ORT2_21
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.15133; 134.13272	Pal_ORT2_43
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.15133; 134.13272	Pal_ORT2_46
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal09_471
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal09_507
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal09_520
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal09_526
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal09_608
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal18_O5
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal18_O8
C. pacificum	C1d	P. verrucosa	3	Palau	Nikko	7.19.561; 134.29668	Pal18_PvN8
C. pacificum	C1d	P. verrucosa	3	Palau	Rebotel	7.250997; 134.224761	Pal18_PvO3
C. pacificum	C1d	P. verrucosa	3	Panama	Taboga	9.133889; -79.559444	Pan09_09_13
C. pacificum	C1d	P. verrucosa	3	Panama	Uraba	11.445833; -79.914444	Pan09_09_17
C. pacificum	C1d	P. verrucosa	3	Panama	Uraba	11.445833; -79.914444	Pan09_23
C. pacificum	C1d	P. verrucosa	3	Panama	Taboga	9.133889; -79.559444	Pan09_24
C. pacificum	C1d	P. verrucosa	3	Panama	Taboga	9.133889; -79.559444	Pan09_25
C. pacificum	C1d	P. verrucosa	3	Panama	Taboga	9.133889; -79.559444	Pan09_26
C. pacificum	C1d	P. verrucosa	3	Panama	Taboga	9.133889; -79.559444	Pan09_46

Pan09_71
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Pan09_82
Pan09_86
TW_167
TW_173
TW_30
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TW_56
TW_59
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Phuket07_238
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SML07_61