

This is an electronic appendix to the paper by van Oppen *et al* 2001 (Patterns of coral–dinoflagellate associations in *Acropora*: significance of local availability and physiology of *Symbiodinium* strains and host–symbiont selectivity). *Proc. R. Soc. Lond. B* **268**, 1759–1767.

Electronic appendices are refereed with the text. However, no attempt has been made to impose a uniform editorial style on the electronic appendices.

Appendix A:

Host species, sample code, sampling site, year of collection and *Symbiodinium* strain as identified by sequence and SSCP analysis of the rDNA ITS1 region. A question mark after the species name indicates that the identification was not unequivocal. If no details are given as to which part of the colony was sampled, this had not been recorded. The methods of data acquisition (SSCP or sequencing (Seq)) is also indicated. Sample numbers followed by a dot and a number (e.g. M215.2) refer to sequences from cloned material (M215, clone 2). Cases of double peaks in the ITS1 sequence chromatogram (i.e. possibly a mix of zooxanthella strains) are indicated as follows: • = Y (C or T) at alignment position 127, ♠ = W (A or T) at alignment position 163, ◆ = M (A or C) at alignment position 249, ♣ = R (A or G) at alignment position 284. i.s. = irradiated side, s.s. = shaded side, WA = Western Australia.

Zoox strain C2						
species	sample code	sample from same colony	method	accession number	collection site	year
A. aspera	M84		Seq		Bundegi WA	1998
A. aspera	M85		SSCP		Bundegi WA	1998
A. aspera	M86		SSCP		Bundegi WA	1998
A. aspera	M87		SSCP		Bundegi WA	1998
A. aspera	M88		Seq		Bundegi WA	1998
A. aspera	M92		SSCP		Pelorus	1997
A. aspera	M93		SSCP		Pelorus	1997
A. aspera	M94		SSCP		Pelorus	1997
A. aspera	M95		SSCP		Pelorus	1997
A. aspera	M96		SSCP		Pelorus	1997
A. cerealis	J113		SSCP		Trunk	1998
A. cerealis	J114		SSCP		Trunk	1998
A. cerealis	J115		SSCP		Trunk	1998
A. cerealis	J116		SSCP		Trunk	1998
A. cerealis	J117		SSCP		Trunk	1998
A. cuneata • ♣	J48		Seq		Britomart	1998
A. cuneata • ♣	J50		Seq		Britomart	1998
A. cuneata	J51		SSCP		Britomart	1998
A. florida	J104		SSCP		Trunk	1998
A. florida ▲	J105		Seq		Trunk	1998
A. gemmifera •	J93		Seq		Trunk	1998
A. gemmifera ♣	J94		Seq		Trunk	1998

A. gemmifera	J95		SSCP	Trunk	1998
A. gemmifera	J96		SSCP	Trunk	1998
A. humilis	J188		SSCP	Trunk	1998
A. humilis	J189		Seq	Trunk	1998
A. intermedia	M213		SSCP	Pelorus	2000
A. intermedia	M218		Seq	Pelorus	2000
A. intermedia (s.s.)	M247	M246	SSCP	Pioneer Bay	2000
A. intermedia (i.s.)	M246	M247	SSCP	Pioneer Bay	2000
A. longicyathus •	J84		Seq	Trunk	1998
A. longicyathus ♠ ♦	J85		Seq	Trunk	1998
A. longicyathus ♣	J89		Seq	Trunk	1998
A. longicyathus • ♣	J90		Seq	Trunk	1998
A. longicyathus ♠ ♦	J91		Seq	Trunk	1998
A. longicyathus	J92		SSCP	Trunk	1998
A. longicyathus	M221		SSCP	Pelorus	2000
A. loripes	J144		SSCP	Trunk	1998
A. loripes	J146		SSCP	Trunk	1998
A. loripes	J147		SSCP	Trunk	1998
A. millepora	A5		Seq	Pelorus	1997
A. millepora	A7		Seq	Pelorus	1997
A. millepora	M12		Seq	Orpheus	1997
A. millepora	M2		SSCP	Orpheus	1997
A. millepora	M29		SSCP	Heron	1997
A. millepora	M5		SSCP	Lizard	1997
A. millepora (s.s.)	M249	M248	SSCP	Pioneer Bay	2000
A. millepora (s.s.)	M25		SSCP	Heron	1997
A. millepora (i.s.)	M248	M249	SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M269		SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M270		SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M272		SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M275		SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M276		SSCP	Pioneer Bay, reef flat	2000
A. millepora (i.s.)	M280		Seq	Pioneer Bay, reef flat	2000
A. muricata	J239		SSCP	Trunk	1998
A. muricata	J240		SSCP	Trunk	1998
A. nasuta	J124		SSCP	Trunk	1998
A. nasuta	J125		SSCP	Trunk	1998
A. nasuta	J126		SSCP	Trunk	1998
A. nasuta	J136		SSCP	Trunk	1998
A. pulchra	M82		SSCP	Bundegi WA	1998
A. pulchra	M83		SSCP	Bundegi WA	1998
A. sarmentosa	J153		SSCP	Trunk	1998
A. sarmentosa	J156		SSCP	Trunk	1998
A. spathulata	A2		Seq	Pelorus	1997
A. spathulata	A3		Seq	Pelorus	1997
A. spathulata	M20		SSCP	Heron	1997
A. tenuis (i.s.)	M201	M202	Seq	Pioneer Bay	2000
A. tenuis (i.s.)	M203	M204	Seq	Pioneer Bay	2000
A. tenuis (i.s.)	M205	M206	Seq	Pioneer Bay	2000
A. tenuis vertical side	M206	M205	SSCP	Pioneer Bay	2000
A. tenuis (i.s.)	M207	M208	SSCP	Pioneer Bay	2000
A. tenuis (i.s.)	M254	M255	SSCP	Pioneer Bay	2000
A. tenuis (i.s.)	M256	M257	SSCP	Pioneer Bay	2000
A. tenuis (i.s.)	M258	M259	SSCP	Pioneer Bay	2000

<i>A. tenuis</i> (i.s.)	M262	M263	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (i.s.)	M264	M265	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (i.s.)	M271		SSCP	Pioneer Bay, reef flat	2000
<i>A. valida</i> (s.s.)	M251	M250	SSCP	Pioneer Bay	2000
<i>A. valida</i> (s.s.)	M253	M252	SSCP	Pioneer Bay	2000
<i>A. valida</i> vertical side	M267.2	M266, M267.1	Seq	Pioneer Bay	2000
<i>A. valida</i> (i.s.)	M250	M251	SSCP	Pioneer Bay	2000
<i>A. valida</i> (i.s.)	M252	M253	SSCP	Pioneer Bay	2000
<i>A. valida</i> (i.s.)	M260	M261	SSCP	Pioneer Bay	2000
<i>A. valida</i> (i.s.)	M266	M267.1, M267.2	SSCP	Pioneer Bay	2000
<i>A. valida</i> (i.s.)	M277		Seq	Pioneer Bay, reef flat	2000
Zoox strain C1					
<i>A. divaricata</i>	J135		Seq	Trunk	1998
<i>A. florida</i>	J103		SSCP	Trunk	1998
<i>A. florida</i>	J107		SSCP	Trunk	1998
<i>A. humilis</i>	J190		Seq	Trunk	1998
<i>A. hyacinthus?</i> (s.s.)	M233	M232	SSCP	Geoffrey Bay	2000
<i>A. hyacinthus?</i> (i.s.)	M232	M233	SSCP	Geoffrey Bay	2000
<i>A. hyacinthus?</i> (s.s.)	M311	M310	SSCP	Nelly Bay	2000
<i>A. hyacinthus</i> (i.s.)	M310	M311	Seq	Nelly Bay	2000
<i>A. longicyathus</i>	J83		Seq	Trunk	1998
<i>A. longicyathus</i>	J88		SSCP	Trunk	1998
<i>A. longicyathus</i>	M222		SSCP	Pelorus	2000
<i>A. millepora</i> (i.s.)	M278		SSCP	Pioneer Bay, reef flat	2000
<i>A. sarmentosa</i>	J157		Seq	Trunk	1998
<i>A. tenuis</i> (s.s.)	M202	M201	Seq	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M204	M203	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M206	M205	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M208	M207	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M255	M254	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M257	M256	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M259	M258	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M263	M262	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M265	M264	SSCP	Pioneer Bay	2000
<i>A. tenuis</i> (s.s.)	M299	M298	SSCP	Nelly Bay	2000
<i>A. tenuis</i> (s.s.)	M303	M302	SSCP	Nelly Bay	2000
<i>A. tenuis</i> (i.s.)	M273		SSCP	Pioneer Bay, reef flat	2000
<i>A. tenuis</i> (i.s.)	M298	M299	SSCP	Nelly Bay	2000
<i>A. tenuis</i> (i.s.)	M302	M303	SSCP	Nelly Bay	2000
<i>A. tenuis</i> (s.s.)	M235	M234	Seq	Geoffrey Bay	2000
<i>A. tenuis?</i> (s.s.)	M239	M238	SSCP	Geoffrey Bay	2000
<i>A. tenuis</i> (s.s.)	M241	M240	SSCP	Geoffrey Bay	2000
<i>A. tenuis?</i> (s.s.)	M243	M242	SSCP	Geoffrey Bay	2000
<i>A. tenuis</i> (i.s.)	M234	M235	SSCP	Geoffrey Bay	2000
<i>A. tenuis?</i> (i.s.)	M238	M239	SSCP	Geoffrey Bay	2000
<i>A. tenuis</i> (i.s.)	M240	M241	SSCP	Geoffrey Bay	2000
<i>A. tenuis?</i> (i.s.)	M242	M243	SSCP	Geoffrey Bay	2000
<i>A. valida</i> (i.s.)	M274		SSCP	Pioneer Bay, reef flat	2000
<i>Acropora</i> sp. (s.s.)	M292	M293	SSCP	Nelly Bay	2000
<i>Acropora</i> sp. (i.s.)	M293	M292	SSCP	Nelly Bay	2000

Zoox strain C3					
A. aculeus?	M215.2, M215.3		Seq	Pelorus	2000
A. aculeus?	M216		SSCP	Pelorus	2000
A. millepora	M73.3		Seq	Coral Bay, WA	1998
A. millepora	M75.2		Seq	Bundegi, WA	1998
A. millepora	M76		SSCP	Bundegi, WA	1998
Zoox strain A					
A. longicyathus	J86		SSCP	Trunk	1998
Zoox strain E					
Acropora sp. (s.s.)	M227	M226	SSCP	Geoffrey Bay	2000
Acropora sp. (i.s.)	M226	M227	SSCP	Geoffrey Bay	2000
A. millepora (s.s.)	M229	M228	Seq	Geoffrey Bay	2000
A. millepora (s.s.)	M231	M230	SSCP	Geoffrey Bay	2000
A. millepora (s.s.)	M237	M236	Seq	Geoffrey Bay	2000
A. millepora (s.s.)	M245	M244	SSCP	Geoffrey Bay	2000
A. millepora (s.s.)	M287	M286	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M289	M288	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M291	M290	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M295	M294	SSCP	Nelly Bay	2000
A. pulchra (s.s.)	M297	M296	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M301	M300	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M307	M306	SSCP	Nelly Bay	2000
A. millepora (s.s.)	M309	M308	SSCP	Nelly Bay	2000
A. millepora	M330		SSCP	Geoffrey Bay	2000
A. millepora	M378		Seq	Nelly Bay	2000
A. millepora	M380		Seq	Nelly Bay	2000
A. millepora (i.s.)	M228	M229	SSCP	Geoffrey Bay	2000
A. millepora (i.s.)	M230	M231	SSCP	Geoffrey Bay	2000
A. millepora (i.s.)	M236	M237	SSCP	Geoffrey Bay	2000
A. millepora (i.s.)	M244	M245	SSCP	Geoffrey Bay	2000
A. millepora (i.s.)	M286	M287	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M288	M289	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M290	M291	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M294	M295	SSCP	Nelly Bay	2000
A. pulchra (i.s.)	M296	M297	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M300	M301	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M306	M307	SSCP	Nelly Bay	2000
A. millepora (i.s.)	M308	M309	SSCP	Nelly Bay	2000
A. valida (s.s.)	M251	M250	SSCP	Pioneer Bay	2000
A. valida (s.s.)	M253	M252	SSCP	Pioneer Bay	2000
A. valida (s.s.)	M261	M260	Seq	Pioneer Bay	2000
A. valida (s.s.)	M267.1	M267.2, M266	Seq	Pioneer Bay	2000
A. valida, (i.s.)	M250	M251	SSCP	Pioneer Bay	2000
A. valida, (i.s.)	M252	M253	SSCP	Pioneer Bay	2000
A. valida, (i.s.)	M260	M261	SSCP	Pioneer Bay	2000
A. valida, (i.s.)	M266	M267.1, M267.2	SSCP	Pioneer Bay	2000
Acropora sp. (i.s.)	M312		SSCP	Nelly Bay	2000