



Figure S1. The occurrence of *Pinctada fucata* in Mischief Reef.

Table S1. Information of the downloaded ITS2 sequences from NCBI.

Sample Site	GenBank Accession no.
Beibu Bay	AY877583.1
Beibu Bay	AY877590.1
Beibu Bay	AY877594.1
Beibu Bay	AY877595.1
Beibu Bay	AY877598.1
Beibu Bay	AY877601.1
Beibu Bay	AY877604.1
Daya Bay	AY877581.1
Daya Bay	AY877584.1
Daya Bay	AY877585.1
Daya Bay	AY877586.1
Daya Bay	AY877589.1
Daya Bay	AY877600.1
Daya Bay	AY877602.1
Daya Bay	AY877603.1
Sanya Bay	AY877582.1
Sanya Bay	AY877587.1
Sanya Bay	AY877588.1
Sanya Bay	AY877591.1
Sanya Bay	AY877592.1
Sanya Bay	AY877593.1
Sanya Bay	AY877596.1
Sanya Bay	AY877597.1
Sanya Bay	AY877599.1
Sanya Bay	AY877605.1

The downloaded sequences were first reported in study of Yu and Zhu (2006) (Yu DH; Zhu JH. Species status of Chinese *Pinctada fucata*, Japanese *P. fucata martensii* and Australian *P. imbricata* using ITS and AFLP markers. South China Fisheries Science 2006, 2(5): 36-44)

Table S2 Haplotypes of the four *P. fucata* populations

Population	Zhanjiang	Lingshui	Mischief	Haiphong
Hap_1	0	1	0	0
Hap_2	0	0	0	1
Hap_3	1	0	0	2
Hap_4	0	0	1	0
Hap_5	1	0	0	1
Hap_6	0	1	1	1
Hap_7	3	1	0	0
Hap_8	0	1	1	0
Hap_9	1	0	0	0
Hap_10	0	0	1	0
Hap_11	0	1	0	0
Hap_12	0	1	0	0
Hap_13	0	0	1	0
Hap_14	0	0	1	0
Hap_15	0	0	0	1
Hap_16	0	0	0	1
Hap_17	1	0	0	0
Hap_18	1	0	0	0
Hap_19	0	1	0	0
Hap_20	0	0	1	0
Hap_21	0	1	0	0
Hap_22	1	0	0	0
Hap_23	0	0	0	1
Hap_24	0	0	0	1
Hap_25	0	0	0	1
Hap_26	1	0	0	0
Hap_27	0	1	0	0
Hap_28	0	0	1	0
Hap_29	0	0	1	0
Hap_30	0	0	1	0
Hap_31	0	1	0	0