

Table 2. Maximal variable fluorescence (F_v/F_m) and electron-transfer rates (τ) from the primary electron acceptor in photosystem II, Q_A , to the secondary quinone, Q_B

Clone name	Temperature, °C	n	F_v/F_m	Electron turnover time, μ s	τ
CCMP no. 828	26	3	0.60 ± 0.02	311 ± 17	
CCMP no. 828	32	3	0.62 ± 0.01	330 ± 17	
CCMP no. 830	26	3	0.58 ± 0.01	331 ± 37	
CCMP no. 830	32	3	0.53 ± 0.01	352 ± 11	
CCMP no. 421	26	5	0.49 ± 0.01	287 ± 27	
CCMP no. 421	32	3	0.44 ± 0.06	338 ± 37	
EIL2	26	3	0.59 ± 0.01	344 ± 15	
EIL2	32	5	0.62 ± 0.01	347 ± 14	
CCMP no. 1633	26	3	0.49 ± 0.01	290 ± 6	
CCMP no. 1633	32	3	0.38 ± 0.01	246 ± 33	
CCMP no. 827	26	5	0.48 ± 0.04	279 ± 12	
CCMP no. 827	32	3	0.30 ± 0.01	141 ± 19	
CCMP no. 831	26	3	0.52 ± 0.01	344 ± 8	
CCMP no. 831	32	3	0.24 ± 0.01	214 ± 16	
Averages					
Tolerant	26		0.57 ± 0.05		318 ± 24
Tolerant	32		0.55 ± 0.01		341 ± 9
Sensitive	26		0.50 ± 0.07		304 ± 54
Sensitive	32		0.31 ± 0.03		200 ± 46

The data were obtained with a custom-built tabletop fast repetition-rate fluorometer, and the data were analyzed as described [Kolber, Z. S., Prasil, O. & Falkowski, P. G. (1998) *Biochim. Biophys. Acta* **1367**, 88–106]. All cultures were grown in F/2 medium; cultures were incubated for 168 h under a 10/14-h light/dark cycle at 26 and 32°C for each species tested. The average variable fluorescence (F_v/F_m) and electron-transfer rates (τ) from both tolerant and sensitive species are summed under “Averages.” CCMP, Provasoli-Guillard National Center for Culture of Marine Phytoplankton West Boothbay Harbor, ME); EIL, Elat clone 2.