

**Table S3. *Pocillopora* Raman FWHM (cm<sup>-1</sup>), *n* spectra,  $\Omega_{Ar}$ ,  $\delta^{11}B$  (‰), B/Ca ( $\mu\text{mol mol}^{-1}$ ), and  $[\text{Ca}^{2+}]_{cf}/[\text{Ca}^{2+}]_{sw}$ .**

pH <sub>sw</sub>	FWHM	<i>n</i>	$\Omega_{Ar}$	$\delta^{11}B$	B/Ca	$[\text{Ca}^{2+}]_{cf}/[\text{Ca}^{2+}]_{sw}$
8.09	3.41 ± 0.01	16	10.2 ± 0.2	22.73	725.1	1.00 ± 0.04
8.09	3.51 ± 0.01	11	12.0 ± 0.3	22.14	666.7	1.16 ± 0.04
8.09	3.43 ± 0.01	20	10.6 ± 0.2	22.79	692.6	0.98 ± 0.03
8.09	3.52 ± 0.01	24	12.4 ± 0.2	23.01	694.8	1.13 ± 0.04
8.09	3.53 ± 0.01	22	12.5 ± 0.3	23.18	681.1	1.10 ± 0.04
8.09	3.47 ± 0.02	21	11.3 ± 0.3	24.40	651.8	0.85 ± 0.03
8.09	3.50 ± 0.01	20	11.9 ± 0.3	23.67	710.9	1.04 ± 0.04
8.09	3.54 ± 0.01	29	12.8 ± 0.3	23.59	731.2	1.16 ± 0.04
8.09	3.44 ± 0.01	22	10.8 ± 0.2	24.72	745.1	0.90 ± 0.03
8.09	3.56 ± 0.01	24	13.1 ± 0.2	21.99	628.5	1.21 ± 0.05
8.09	3.47 ± 0.01	15	11.3 ± 0.2	23.08	667.0	0.98 ± 0.04
8.09	3.52 ± 0.02	17	12.4 ± 0.4	22.93	660.5	1.08 ± 0.05
8.09	3.48 ± 0.01	25	11.6 ± 0.2	24.21	702.7	0.95 ± 0.03
8.09	3.56 ± 0.02	18	13.2 ± 0.4	24.04	745.7	1.17 ± 0.05
7.81	3.51 ± 0.03	11	12.1 ± 0.6	22.41	689.2	1.17 ± 0.07
7.81	3.49 ± 0.02	17	11.7 ± 0.3	21.07	630.3	1.20 ± 0.05
7.81	3.47 ± 0.01	19	11.3 ± 0.2	21.09	629.1	1.15 ± 0.05
7.81	3.46 ± 0.01	17	11.1 ± 0.2	22.19	654.8	1.04 ± 0.04
7.81	3.49 ± 0.02	22	11.8 ± 0.3	21.31	656.3	1.22 ± 0.06
7.81	3.46 ± 0.01	23	11.1 ± 0.2	21.47	657.4	1.13 ± 0.04
7.81	3.53 ± 0.01	20	12.6 ± 0.3	22.28	708.0	1.26 ± 0.05
7.81	3.58 ± 0.02	16	13.9 ± 0.6	23.23	726.0	1.30 ± 0.07
7.81	3.57 ± 0.02	22	13.5 ± 0.5	22.91	685.0	1.23 ± 0.06
7.81	3.46 ± 0.01	26	11.1 ± 0.2	23.06	683.3	0.99 ± 0.04
7.81	3.52 ± 0.02	28	12.3 ± 0.3	20.76	605.2	1.26 ± 0.06
7.81	3.57 ± 0.02	29	13.6 ± 0.4	22.24	661.4	1.28 ± 0.06
7.81	3.49 ± 0.01	25	11.7 ± 0.3	21.42	637.1	1.16 ± 0.05
7.81	3.56 ± 0.02	20	13.2 ± 0.4	22.77	722.1	1.29 ± 0.05
7.81	3.48 ± 0.02	21	11.5 ± 0.3	21.45	635.5	1.14 ± 0.05
7.63	3.54 ± 0.02	11	12.9 ± 0.4	20.76	619.5	1.35 ± 0.07
7.63	3.54 ± 0.05	8	13.0 ± 1.2	20.64	617.5	1.39 ± 0.14
7.63	3.47 ± 0.02	11	11.2 ± 0.3	21.02	695.7	1.28 ± 0.06
7.63	3.50 ± 0.01	25	11.9 ± 0.2	21.57	673.8	1.23 ± 0.05
7.63	3.46 ± 0.01	22	11.1 ± 0.2	21.10	663.5	1.20 ± 0.05
7.63	3.50 ± 0.01	28	12.0 ± 0.3	20.44	634.7	1.35 ± 0.06
7.63	3.40 ± 0.03	9	10.2 ± 0.5	21.88	642.3	0.96 ± 0.06
7.63	3.39 ± 0.01	26	9.9 ± 0.2	22.65	713.8	0.96 ± 0.04
7.63	3.46 ± 0.01	30	11.1 ± 0.2	22.16	689.9	1.09 ± 0.04
7.63	3.55 ± 0.01	21	12.9 ± 0.2	21.37	618.8	1.25 ± 0.05
7.63	3.56 ± 0.01	22	13.3 ± 0.4	20.69	620.2	1.41 ± 0.06
7.63	3.47 ± 0.02	21	11.3 ± 0.3	19.98	617.3	1.32 ± 0.06
7.63	3.56 ± 0.02	20	13.3 ± 0.5	21.37	646.2	1.35 ± 0.07

Notes: Uncertainties are reported as standard errors, and *n* is the number of Raman spectra used.