

The following supplement accompanies the article

## Fluorescent proteins in dominant mesophotic reef-building corals

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Table S1. *Leptoseris* spp. GenBank accession numbers.

Sample	Coral species	<i>Symbiodinium COI</i> mtDNA	Coral <i>cox1-l</i> mtDNA	GenBank accession #
L27	<i>L. scabra</i>	COI_2	Clade VII	HG942462
L28	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942463
L29	<i>L. sp. 1</i>	COI_2	Clade Ia	HG942464
L30	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942465
L31	<i>L. scabra</i>	COI_2	Clade VII	HG942466
L32	<i>L. scabra</i>	COI_2	Clade VII	HG942467
L33	<i>L. sp. 1</i>	COI_2	Clade Ia	HG942468
L34	<i>L. sp. 1</i>	COI_2	Clade Ia	HG942469
L35	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942470
L36	<i>L. sp. 1</i>	COI_2	Clade Ia	HG942471
L37	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942472
L38	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942473
L39	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942474
L40	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942475
L41	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942476
L42	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942477
L43	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942478
L44	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942479
L45	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942480
L46	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942481

L48	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942482
L49	<i>L. scabra</i>	COI_2	Clade VII	HG942483
L50	<i>L. scabra</i>	COI_2	Clade VII	HG942484
L51	<i>L. sp. 1</i>	COI_2	Clade Ia	HG942485
L52	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942486
L53	<i>L. scabra</i>	COI_2	Clade VII	HG942487
L54	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942488
L55	<i>L. scabra</i>	COI_2	Clade VII	HG942489
L56	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942490
L57	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942491
L58	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942492
L59	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942493
L60	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942494
L61	<i>L. scabra</i>	COI_2	Clade VII	HG942495
L62	<i>L. scabra</i>	COI_3	Clade VII	HG942496
L63	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942497
L64	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942498
L65	<i>L. sp. 1</i>	COI_3	Clade Ia	HG942499
L66	<i>L. tubulifera</i>	COI_2	Clade Ia'	HG942500
L67	<i>L. scabra</i>	COI_2	Clade VII	HG942501
L69	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942503
L70	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942504
L71	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942505
L72	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942506
L73	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942507
L74	<i>L. hawaiiensis</i>	COI_1	Clade Ib	HG942508
L75	<i>L. scabra</i>	COI_2	Clade VII	HG942509
L76	not available	COI_2	not available	

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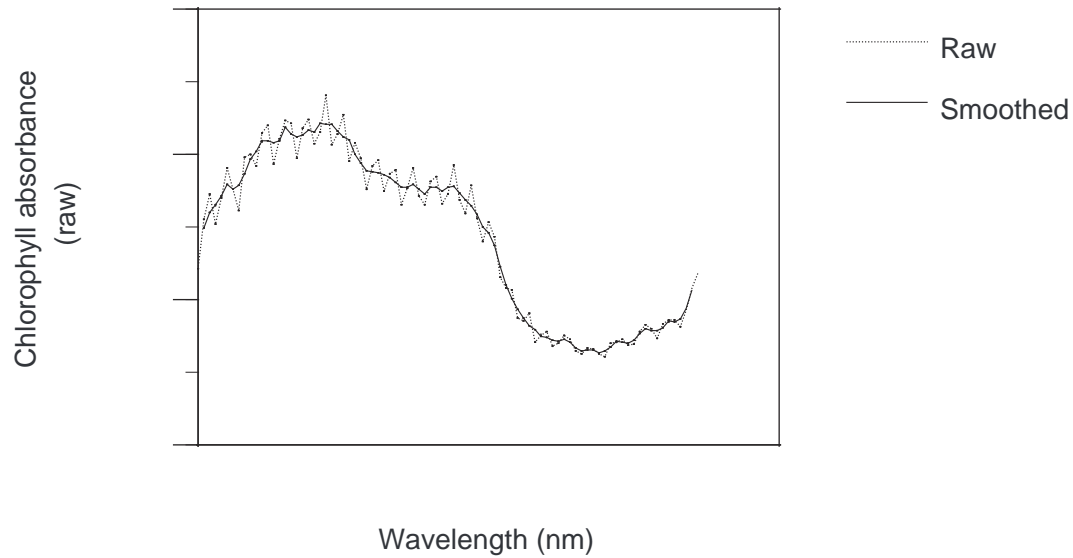


Fig. S1. *Symbiodinium* fraction chlorophyll absorbance of excessively noisy sample (L76) raw data (dotted line) and smoothed (solid line). The excessively noisy sample is episodic suggesting it was caused by the instrument or perhaps by a piece of coral skeleton in the sample.

Fig. S2. Rare fluorescence phenotypes in mesophotic corals. Brighter spots in coenosarc in random patterns (a) or striations (b). *Leptoseris* spp. were imaged using a camera (Olympus C-5050) with a blue excitation light (Inon Z-240 strobe with NightSea blue filter (~450 nm)) and barrier filter ( 500 nm longpass, NightSea) on the lens of the camera for fluorescence.