

**N Rodríguez-Ezpeleta *et al.* – Supporting Information**

**WebTable 1. Samples processed with RAD-seq**

<i>Sample</i>	<i>Area</i>	<i>Dev stage</i>	<i>Catch date</i>	<i>Lat</i>	<i>Long</i>	<i>Length (cm)</i>	<i>Weight (g)</i>
AZTI-GM-V-51	Gulf of Mexico	Larvae	14/05/2010	28.08	-90.49	n/a	n/a
AZTI-GM-V-78	Gulf of Mexico	Larvae	17/05/2010	26.76	-96.01	n/a	n/a
TAMU-GM-V-53	Gulf of Mexico	Larvae	15/06/2007	28	-89.8	n/a	n/a
TAMU-GM-V-54	Gulf of Mexico	Larvae	15/06/2007	28	-89.8	n/a	n/a
TAMU-GM-V-56	Gulf of Mexico	Larvae	15/06/2007	27	-90.47	n/a	n/a
TAMU-GM-V-58	Gulf of Mexico	Larvae	15/06/2007	27	-90.47	n/a	n/a
TAMU-GM-V-59	Gulf of Mexico	Larvae	15/06/2007	27	-90.47	n/a	n/a
TAMU-GM-V-60	Gulf of Mexico	Larvae	15/06/2007	27	-90.47	n/a	n/a
TAMU-GM-V-63	Gulf of Mexico	Larvae	15/06/2008	27	-87.5	n/a	n/a
TAMU-GM-V-64	Gulf of Mexico	Larvae	15/06/2008	28	-89.07	n/a	n/a
TAMU-GM-V-68	Gulf of Mexico	Larvae	15/06/2008	28	-89.07	n/a	n/a
TAMU-GM-V-72	Gulf of Mexico	Larvae	15/06/2008	28	-90.4	n/a	n/a
TAMU-GM-V-73	Gulf of Mexico	Larvae	15/06/2008	28	-91.53	n/a	n/a
TAMU-GM-V-74	Gulf of Mexico	Larvae	15/06/2008	28	-91.53	n/a	n/a
TAMU-GM-V-78	Gulf of Mexico	Larvae	15/06/2008	28	-89.07	n/a	n/a
TAMU-GM-V-80	Gulf of Mexico	Larvae	15/06/2009	26	-88.93	n/a	n/a
TAMU-GM-V-81	Gulf of Mexico	Larvae	15/06/2009	26	-88.93	n/a	n/a
TAMU-GM-V-82	Gulf of Mexico	Larvae	15/06/2009	26	-88.93	n/a	n/a
TAMU-GM-V-83	Gulf of Mexico	Larvae	15/06/2008	26	-88.93	n/a	n/a
TAMU-GM-V-84	Gulf of Mexico	Larvae	15/06/2009	26	-88.93	n/a	n/a
TAMU-GM-V-85	Gulf of Mexico	Larvae	15/06/2009	27.5	-91.07	n/a	n/a
TAMU-GM-V-86	Gulf of Mexico	Larvae	15/06/2009	27.5	-91.07	n/a	n/a
TAMU-GM-V-87	Gulf of Mexico	Larvae	15/06/2009	26	-91.07	n/a	n/a
AZTI-GM-V-77	Gulf of Mexico	Larvae	17/05/2010	26.76	-96.01	n/a	n/a
AZTI-GM-V-80	Gulf of Mexico	Larvae	17/05/2010	26.76	-96.01	n/a	n/a
AZTI-GM-V-81	Gulf of Mexico	Larvae	17/05/2010	26.76	-96.01	n/a	n/a
AZTI-GM-0-29	Slope Sea	YoY	13/09/2008	36.41	-74.83	28	0.34
AZTI-GM-0-30	Slope Sea	YoY	13/09/2008	36.41	-74.83	32	0.51
AZTI-GM-0-32	Slope Sea	YoY	13/09/2008	36.41	-74.83	28	0.4
AZTI-GM-0-33	Slope Sea	YoY	13/09/2008	36.41	-74.83	31	0.5
AZTI-GM-0-41	Slope Sea	YoY	13/09/2008	36.41	-74.83	35	0.76
AZTI-GM-0-42	Slope Sea	YoY	13/09/2008	36.41	-74.83	28	NA
AZTI-GM-0-43	Slope Sea	YoY	13/09/2008	36.41	-74.83	28	0.33
AZTI-GM-0-5	Slope Sea	YoY	13/09/2008	36.41	-74.83	28	0.3
AZTI-GM-0-20	Slope Sea	YoY	13/09/2008	36.41	-74.83	36	0.84
AZTI-GM-0-24	Slope Sea	YoY	13/09/2008	36.41	-74.83	31	0.47
AZTI-GM-0-25	Slope Sea	YoY	13/09/2008	36.41	-74.83	26	0.24
AZTI-GM-0-45	Slope Sea	YoY	13/09/2008	36.41	-74.83	29	0.41
AZTI-GM-0-6	Slope Sea	YoY	13/09/2008	36.41	-74.83	37	0.92
IEO-BA-V-1	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-11	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a

IEO-BA-V-14	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-2	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-23	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-24	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-25	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-26	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-27	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-28	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-3	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-31	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-32	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-4	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-43	Western Med	Larvae	01/07/2013	38.82	2.96	n/a	n/a
IEO-BA-V-46	Western Med	Larvae	01/07/2013	38.82	2.96	n/a	n/a
IEO-BA-V-58	Western Med	Larvae	13/07/2013	38.75	4.26	n/a	n/a
IEO-BA-V-62	Western Med	Larvae	13/07/2013	38.75	4.26	n/a	n/a
IEO-BA-V-7	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-73	Western Med	Larvae	13/07/2013	38.75	4.26	n/a	n/a
IEO-BA-V-74	Western Med	Larvae	07/07/2013	38.82	0.68	n/a	n/a
IEO-BA-V-75	Western Med	Larvae	07/07/2013	38.82	0.68	n/a	n/a
IEO-BA-V-76	Western Med	Larvae	07/07/2013	38.82	0.68	n/a	n/a
IEO-BA-V-77	Western Med	Larvae	07/07/2013	38.82	0.68	n/a	n/a
IEO-BA-V-9	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-10	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
IEO-BA-V-22	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-29	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-30	Western Med	Larvae	13/07/2012	38.83	2.63	n/a	n/a
IEO-BA-V-5	Western Med	Larvae	26/06/2012	38.67	1.21	n/a	n/a
AZTI-BA-0-52	Western Med	YoY	07/10/2012	40.9	1.07	36	0.76
AZTI-BA-0-54	Western Med	YoY	07/10/2012	40.9	1.07	35.6	0.85
AZTI-BA-0-56	Western Med	YoY	07/10/2012	40.9	1.07	39.7	1.2
AZTI-BA-0-68	Western Med	YoY	07/10/2012	40.85	1.03	37.8	1.04
AZTI-BA-0-69	Western Med	YoY	07/10/2012	40.85	1.05	34.6	0.78
AZTI-BA-0-70	Western Med	YoY	07/10/2012	40.83	1.05	38	1.11
AZTI-BA-0-71	Western Med	YoY	07/10/2012	40.83	1.05	37	1.05
AZTI-BA-0-72	Western Med	YoY	07/10/2012	40.85	1.03	37.5	1.02
IEO-BA-0-101	Western Med	YoY	21/09/2013	39.28	-0.04	25.5	0.32
IEO-BA-0-102	Western Med	YoY	21/09/2013	39.28	-0.04	28.5	0.49
IEO-BA-0-103	Western Med	YoY	22/09/2013	39.28	-0.04	27.6	0.4
IEO-BA-0-104	Western Med	YoY	22/09/2013	39.28	-0.04	29.6	0.48
IEO-BA-0-106	Western Med	YoY	12/10/2013	39.28	-0.04	32.8	0.71
IEO-BA-0-109	Western Med	YoY	13/10/2013	39.28	-0.04	32.7	0.76
IEO-BA-0-110	Western Med	YoY	17/10/2013	39.28	-0.04	29.3	0.42
IEO-BA-0-120	Western Med	YoY	28/10/2013	39.28	-0.04	30.2	0.53
IEO-BA-0-142	Western Med	YoY	15/09/2013	39.28	-0.04	27.5	0.41
IEO-BA-0-143	Western Med	YoY	15/09/2013	39.28	-0.04	28.7	0.48

IEO-BA-0-59	Western Med	YoY	05/05/2012	39.71	3.86	48	2.58
IEO-BA-0-60	Western Med	YoY	15/09/2012	39.28	-0.04	26	0.31
IEO-BA-0-61	Western Med	YoY	15/09/2012	39.28	-0.04	26.4	0.32
IEO-BA-0-63	Western Med	YoY	15/09/2012	39.28	-0.04	26	0.32
IEO-BA-0-64	Western Med	YoY	15/09/2012	39.28	-0.04	27.1	0.33
IEO-BA-0-65	Western Med	YoY	15/09/2012	39.28	-0.04	27.2	0.38
IEO-BA-0-66	Western Med	YoY	16/09/2012	39.28	-0.04	28.1	0.42
IEO-BA-0-67	Western Med	YoY	16/09/2012	39.28	-0.04	25.7	0.29
IEO-BA-0-69	Western Med	YoY	16/09/2012	39.28	-0.04	28.5	0.44
IEO-BA-0-71	Western Med	YoY	16/09/2012	39.28	-0.04	23.8	0.22
IEO-BA-0-75	Western Med	YoY	16/09/2012	39.28	-0.04	36.1	1
IEO-BA-0-76	Western Med	YoY	16/09/2012	39.28	-0.04	35.2	0.94
IEO-BA-0-77	Western Med	YoY	16/09/2012	39.28	-0.04	25.1	0.28
IEO-BA-0-79	Western Med	YoY	16/09/2012	39.28	-0.04	27.5	0.37
IEO-BA-0-91	Western Med	YoY	15/09/2013	39.28	-0.04	28	0.44
IEO-BA-0-99	Western Med	YoY	21/09/2013	39.28	-0.04	29.4	0.46
IEO-BA-0-100	Western Med	YoY	21/09/2013	39.28	-0.04	27.6	0.41
IEO-BA-0-107	Western Med	YoY	12/10/2013	39.28	-0.04	31.7	0.6
IEO-BA-0-92	Western Med	YoY	15/09/2013	39.28	-0.04	30	0.54
IEO-BA-0-93	Western Med	YoY	15/09/2013	39.28	-0.04	28.9	0.49
IEO-SI-V-42	Central Med	Larvae	15/07/2008	36.71	15.29	0.07	n/a
IEO-SI-V-47	Central Med	Larvae	15/07/2008	36.71	15.29	0.07	n/a
IEO-SI-V-54	Central Med	Larvae	15/07/2008	36.71	15.29	0.07	n/a
IEO-SI-V-61	Central Med	Larvae	15/07/2008	36.71	15.29	0.06	n/a
IEO-SI-V-71	Central Med	Larvae	15/07/2008	36.71	15.29	0.06	n/a
IEO-SI-V-70	Central Med	Larvae	15/07/2008	36.71	15.29	0.06	n/a
IEO-SI-V-76	Central Med	Larvae	15/07/2008	36.71	15.29	0.06	n/a
IEO-SI-V-78	Central Med	Larvae	15/07/2008	36.71	15.29	0.06	n/a
FMAP-MA-0-10	Central Med	YoY	23/09/2013	35.5	14	26.4	0.34
FMAP-MA-0-11	Central Med	YoY	23/09/2013	35.5	14	26.6	0.33
FMAP-MA-0-13	Central Med	YoY	23/09/2013	35.5	14	27.2	0.35
FMAP-MA-0-15	Central Med	YoY	23/09/2013	35.5	14	23.3	0.21
FMAP-MA-0-17	Central Med	YoY	23/09/2013	35.5	14	23.9	0.22
FMAP-MA-0-23	Central Med	YoY	23/09/2013	35.5	14	21.6	0.18
FMAP-MA-0-29	Central Med	YoY	23/09/2013	35.5	14	22.5	0.2
FMAP-MA-0-31	Central Med	YoY	23/09/2013	35.5	14	26.5	0.35
FMAP-MA-0-33	Central Med	YoY	23/09/2013	35.5	14	22.8	0.19
FMAP-MA-0-34	Central Med	YoY	23/09/2013	35.5	14	20.9	0.14
FMAP-MA-0-35	Central Med	YoY	23/09/2013	35.5	14	23.5	0.22
FMAP-MA-0-36	Central Med	YoY	23/09/2013	35.5	14	25.8	0.32
FMAP-MA-0-37	Central Med	YoY	23/09/2013	35.5	14	26.1	0.32
FMAP-MA-0-38	Central Med	YoY	23/09/2013	35.5	14	26.7	0.38
FMAP-MA-0-8	Central Med	YoY	16/09/2013	35.5	14	22.1	0.2
FMAP-MA-0-9	Central Med	YoY	16/09/2013	35.5	14	23.1	0.24
UNIB-SI-0-1	Central Med	YoY	23/09/2012	37.7	15.27	29	0.46
UNIB-SI-0-10	Central Med	YoY	23/09/2012	37.7	15.27	30	0.5

UNIB-SI-0-11	Central Med	YoY	23/09/2012	37.7	15.27	30	0.47
UNIB-SI-0-12	Central Med	YoY	23/09/2012	37.7	15.27	28	0.37
UNIB-SI-0-13	Central Med	YoY	03/10/2012	37.85	15.33	31	0.34
UNIB-SI-0-15	Central Med	YoY	05/10/2012	37.63	15.22	40	1.48
UNIB-SI-0-26	Central Med	YoY	05/10/2012	37.63	15.22	39	1.27
UNIB-SI-0-27	Central Med	YoY	05/10/2012	37.63	15.22	38	1.24
UNIB-SI-0-29	Central Med	YoY	05/10/2012	37.63	15.22	37	1.14
UNIB-SI-0-3	Central Med	YoY	23/09/2012	37.7	15.27	34	0.65
UNIB-SI-0-30	Central Med	YoY	05/10/2012	37.63	15.22	36	1.16
UNIB-SI-0-31	Central Med	YoY	05/10/2012	37.63	15.22	38	1.25
UNIB-SI-0-33	Central Med	YoY	05/10/2012	37.63	15.22	36	1.14
UNIB-SI-0-35	Central Med	YoY	05/10/2012	37.63	15.22	37	1.16
UNIB-SI-0-36	Central Med	YoY	05/10/2012	37.63	15.22	38	1.25
UNIB-SI-0-4	Central Med	YoY	23/09/2012	37.7	15.27	31	0.49
UNIB-SI-0-5	Central Med	YoY	23/09/2012	37.7	15.27	31	0.52
UNIB-SI-0-6	Central Med	YoY	23/09/2012	37.7	15.27	32	0.59
UNIB-SI-0-8	Central Med	YoY	23/09/2012	37.7	15.27	28	0.36
UNIB-SI-0-9	Central Med	YoY	23/09/2012	37.7	15.27	31	0.5
FMAP-MA-0-1	Central Med	YoY	10/09/2013	35.5	14	25.2	0.3
FMAP-MA-0-3	Central Med	YoY	10/09/2013	35.5	14	19.4	0.12
FMAP-MA-0-4	Central Med	YoY	16/09/2013	35.5	14	23.1	0.22
FMAP-MA-0-5	Central Med	YoY	16/09/2013	35.5	14	21.8	0.2
CYPR-LS-V-1	Eastern Med	Larvae	22/06/2011	36.13	33.75	0.58	n/a
CYPR-LS-V-46	Eastern Med	Larvae	24/06/2011	36.08	33.69	1.2	n/a
CYPR-LS-V-49	Eastern Med	Larvae	24/06/2011	36.08	33.69	1.2	n/a
CYPR-LS-V-55	Eastern Med	Larvae	24/06/2011	36.08	33.69	1.25	n/a
CYPR-LS-V-62	Eastern Med	Larvae	24/06/2011	36.09	33.72	0.58	n/a
CYPR-LS-V-71	Eastern Med	Larvae	24/06/2011	36.09	33.74	1.18	n/a
CYPR-LS-V-19	Eastern Med	Larvae	23/06/2011	36.11	33.56	1.04	n/a
CYPR-LS-V-26	Eastern Med	Larvae	23/06/2011	36.11	33.57	0.95	n/a
CYPR-LS-V-45	Eastern Med	Larvae	24/06/2011	36.08	33.69	1.26	n/a
CYPR-LS-V-52	Eastern Med	Larvae	24/06/2011	36.08	33.69	1.03	n/a
CYPR-LS-0-110	Eastern Med	YoY	03/09/2012	35.34	33.32	28.7	0.44
CYPR-LS-0-111	Eastern Med	YoY	03/09/2012	35.34	33.32	30.4	0.54
CYPR-LS-0-112	Eastern Med	YoY	29/07/2012	35.34	33.32	23.8	0.28
CYPR-LS-0-113	Eastern Med	YoY	29/07/2012	35.34	33.32	26.1	0.38
CYPR-LS-0-114	Eastern Med	YoY	29/07/2012	35.34	33.32	23.1	0.24
CYPR-LS-0-321	Eastern Med	YoY	16/08/2013	36.17	33.85	24.3	0.27
CYPR-LS-0-322	Eastern Med	YoY	16/08/2013	36.17	33.85	24.8	0.27
CYPR-LS-0-323	Eastern Med	YoY	16/08/2013	36.17	33.85	24.4	0.29
CYPR-LS-0-325	Eastern Med	YoY	16/08/2013	36.17	33.85	24.6	0.28
CYPR-LS-0-327	Eastern Med	YoY	16/08/2013	36.17	33.85	23.9	0.25
CYPR-LS-0-334	Eastern Med	YoY	17/08/2013	36.17	33.85	23.4	0.24
CYPR-LS-0-336	Eastern Med	YoY	17/08/2013	36.17	33.85	24.5	0.28
CYPR-LS-0-337	Eastern Med	YoY	17/08/2013	36.17	33.85	24.7	0.29
CYPR-LS-0-369	Eastern Med	YoY	19/08/2013	36.17	33.85	22.9	0.23

CYPR-LS-0-37	Eastern Med	YoY	24/07/2012	36.14	33.87	22.1	0.2
CYPR-LS-0-371	Eastern Med	YoY	19/08/2013	36.17	33.85	22.9	0.22
CYPR-LS-0-372	Eastern Med	YoY	14/08/2013	36.17	33.85	22.7	0.2
CYPR-LS-0-373	Eastern Med	YoY	14/08/2013	36.17	33.85	21.4	0.18
CYPR-LS-0-374	Eastern Med	YoY	14/08/2013	36.17	33.85	20.4	0.17
CYPR-LS-0-375	Eastern Med	YoY	06/08/2013	36.17	33.85	22.8	0.21
CYPR-LS-0-376	Eastern Med	YoY	06/08/2013	36.17	33.85	21.5	0.17
CYPR-LS-0-377	Eastern Med	YoY	27/07/2013	36.17	33.85	18.2	0.1
CYPR-LS-0-379	Eastern Med	YoY	03/08/2013	36.17	33.85	20.4	0.16
CYPR-LS-0-39	Eastern Med	YoY	24/07/2012	36.14	33.87	24.9	0.3
CYPR-LS-0-393	Eastern Med	YoY	16/08/2013	35.34	33.32	26.7	0.4
CYPR-LS-0-394	Eastern Med	YoY	16/08/2013	35.34	33.32	28.5	0.39
CYPR-LS-0-395	Eastern Med	YoY	13/08/2013	35.34	33.32	26	0.37
CYPR-LS-0-396	Eastern Med	YoY	13/08/2013	35.34	33.32	27.1	0.39
CYPR-LS-0-397	Eastern Med	YoY	13/08/2013	35.34	33.32	26.2	0.36
CYPR-LS-0-398	Eastern Med	YoY	13/08/2013	35.34	33.32	27.1	0.4
CYPR-LS-0-43	Eastern Med	YoY	24/07/2012	36.14	33.87	24.5	0.29
CYPR-LS-0-52	Eastern Med	YoY	25/07/2012	36.14	33.87	21.7	0.19
CYPR-LS-0-56	Eastern Med	YoY	25/07/2012	36.14	33.87	24.5	0.3
CYPR-LS-0-60	Eastern Med	YoY	25/07/2012	36.14	33.87	23.2	0.24
CYPR-LS-0-68	Eastern Med	YoY	25/07/2012	36.14	33.87	24.2	0.29
CYPR-LS-0-315	Eastern Med	YoY	15/08/2013	36.17	33.85	21.6	0.19
CYPR-LS-0-317	Eastern Med	YoY	15/08/2013	36.17	33.85	21.1	0.18
CYPR-LS-0-318	Eastern Med	YoY	16/08/2013	36.17	33.85	23.3	0.25
CYPR-LS-0-320	Eastern Med	YoY	16/08/2013	36.17	33.85	22.4	0.21

**Notes:** Only the 204 samples from the 240 original samples that passed quality filters and were used in subsequent analyses are shown. Dev stage = developmental stage; Lat = latitude; Long = longitude; Med = Mediterranean; YoY = young of the year. Weight and Length are totals.