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SUPPLEMENTARY DATA**Table S1.** Vessel and private company information

Vessel name	FB PRINCE JIAN
Owner/Operator	Joy P. Paje
Address	Baranggay Dinahican, Infanta, Quezon, Philippines
Gear used	Hook and Line
Make	mitsubishi 16102, 59.66 KW, 4 Cylinders, 4 Cycle
Builder	Erven Rocacorba
Place built	Infanta, Quezon, Philippines
Year built	2013
Homeport	Manila
Official number	00-0002524
Hull materials	Wood
Gross tonnage	5.62
Vessel length	15.13 meters
Depth	1.15 meters
Breadth	1.53 meters

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10 **Table S2.** General information on bluefin tuna catch

Date caught	May 16, 2015
Catch coordinates	15°23.570 N, 121°59.868 E
Bait used	Squid
Type of hook used	Junior Chicago (medium sized)
Hook number	2
Nylon type and number	Primary line 150; Secondary line (Doghead) 110 lbs test
Nylon depth when the sample was caught	45 meters
Boat captain	John Jay P. Paje Jr.
Who caught the sample	Rojon Gian
Total number of crew on board	8
Hauling	24 hours with the help of other fishing vessel
Total days at sea during fishing	4 days
Number of bluefin tuna caught	1 piece
Depth	1.15 meters
Breadth	1.53 meters
Weighed and measured by	Edwin Diolata
Delivered the sample to	Malabon fish port

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16 **Table S3.** Genetic Distances of D-loop sequences from Philippine bluefin tuna and reference sequences from GENBANK.

Philippine Bluefin Tuna	0.008	0.007	0.007	0.007	0.008	0.008	0.010	0.021	0.022	0.022	0.025	0.021	0.021	0.021	0.023	0.022	0.021	0.025	0.025	0.024	0.023	0.023	0.023	0.021	0.023	0.042
<i>T. orientalis</i> AB933622.1 GENBANK	0.016	0.009	0.009	0.009	0.000	0.010	0.008	0.020	0.018	0.019	0.022	0.020	0.022	0.020	0.022	0.021	0.020	0.025	0.025	0.026	0.024	0.025	0.022	0.024	0.026	0.042
<i>T. orientalis</i> AB933605.1 GENBANK	0.012	0.021	0.000	0.000	0.009	0.009	0.009	0.022	0.021	0.022	0.024	0.022	0.022	0.022	0.024	0.023	0.022	0.026	0.026	0.025	0.023	0.023	0.021	0.022	0.024	0.042
<i>T. orientalis</i> JN631191.1 GENBANK	0.012	0.021	0.000	0.000	0.009	0.009	0.009	0.022	0.021	0.022	0.024	0.022	0.022	0.022	0.024	0.023	0.022	0.026	0.026	0.025	0.023	0.023	0.021	0.022	0.024	0.042
<i>T. orientalis</i> JN631218.1 GENBANK	0.012	0.021	0.000	0.000	0.009	0.009	0.009	0.022	0.021	0.022	0.024	0.022	0.022	0.022	0.024	0.023	0.022	0.026	0.026	0.025	0.023	0.023	0.021	0.022	0.024	0.042
<i>T. orientalis</i> AB933586.1 GENBANK	0.016	0.000	0.021	0.021	0.021	0.010	0.008	0.020	0.018	0.019	0.022	0.020	0.022	0.020	0.022	0.021	0.020	0.025	0.025	0.026	0.024	0.025	0.022	0.024	0.026	0.042
<i>T. orientalis</i> AB933620.1 GENBANK	0.016	0.025	0.021	0.021	0.021	0.025	0.010	0.021	0.022	0.021	0.025	0.021	0.021	0.021	0.023	0.022	0.021	0.025	0.025	0.024	0.023	0.023	0.022	0.021	0.024	0.041
<i>T. orientalis</i> AB933595.1 GENBANK	0.025	0.016	0.021	0.021	0.021	0.016	0.025	0.020	0.019	0.019	0.022	0.020	0.023	0.021	0.023	0.022	0.021	0.026	0.026	0.026	0.024	0.025	0.022	0.024	0.026	0.043
<i>T. alalunga</i> AY571774.1 GENBANK	0.097	0.088	0.102	0.102	0.102	0.088	0.097	0.097	0.012	0.013	0.015	0.009	0.022	0.021	0.022	0.021	0.021	0.026	0.025	0.026	0.022	0.025	0.023	0.025	0.026	0.045
<i>T. alalunga</i> AY571773.1 GENBANK	0.107	0.088	0.102	0.102	0.102	0.088	0.107	0.097	0.038	0.007	0.014	0.010	0.022	0.020	0.022	0.021	0.020	0.027	0.026	0.026	0.023	0.026	0.023	0.024	0.026	0.043
<i>T. alalunga</i> AY571772.1 GENBANK	0.112	0.092	0.107	0.107	0.107	0.092	0.102	0.092	0.042	0.012	0.015	0.011	0.022	0.020	0.022	0.021	0.020	0.028	0.026	0.026	0.024	0.025	0.023	0.024	0.026	0.044
<i>T. alalunga</i> AY571771.1 GENBANK	0.126	0.106	0.121	0.121	0.121	0.106	0.126	0.116	0.055	0.051	0.055	0.014	0.025	0.024	0.025	0.024	0.024	0.029	0.028	0.027	0.025	0.027	0.025	0.027	0.029	0.044
<i>T. alalunga</i> AY571770.1 GENBANK	0.097	0.087	0.101	0.101	0.101	0.087	0.097	0.096	0.020	0.025	0.029	0.050	0.020	0.019	0.020	0.019	0.019	0.025	0.024	0.024	0.022	0.024	0.024	0.023	0.024	0.044
<i>T. thynnus</i> AB106310.1 GENBANK	0.105	0.105	0.110	0.110	0.110	0.105	0.105	0.114	0.114	0.105	0.105	0.139	0.095	0.007	0.009	0.007	0.007	0.022	0.021	0.021	0.019	0.021	0.022	0.020	0.019	0.042
<i>T. thynnus</i> AB106311.1 GENBANK	0.105	0.095	0.110	0.110	0.110	0.095	0.105	0.105	0.110	0.090	0.090	0.134	0.090	0.012	0.008	0.006	0.000	0.021	0.020	0.021	0.020	0.021	0.020	0.020	0.020	0.041
<i>T. thynnus</i> AB106309.1 GENBANK	0.119	0.110	0.124	0.124	0.124	0.110	0.119	0.119	0.119	0.110	0.110	0.144	0.100	0.021	0.016	0.008	0.008	0.021	0.021	0.020	0.021	0.022	0.021	0.021	0.021	0.042
<i>T. thynnus</i> AB106308.1 GENBANK	0.110	0.100	0.114	0.114	0.114	0.100	0.110	0.110	0.110	0.100	0.100	0.134	0.090	0.012	0.008	0.016	0.006	0.021	0.020	0.021	0.020	0.022	0.021	0.021	0.021	0.041
<i>T. thynnus</i> AB106307.1 GENBANK	0.105	0.095	0.110	0.110	0.110	0.095	0.105	0.105	0.110	0.090	0.090	0.134	0.090	0.012	0.000	0.016	0.008	0.021	0.020	0.021	0.020	0.021	0.020	0.020	0.020	0.041
<i>T. maccoyii</i> AB536519.1 GENBANK	0.135	0.135	0.140	0.140	0.140	0.135	0.135	0.145	0.135	0.145	0.145	0.171	0.135	0.098	0.093	0.093	0.093	0.093	0.056	0.060	0.020	0.017	0.021	0.018	0.018	0.038
<i>T. maccoyii</i> AB536518.1 GENBANK	0.140	0.140	0.145	0.145	0.145	0.140	0.140	0.150	0.140	0.140	0.140	0.165	0.129	0.093	0.088	0.097	0.088	0.088	0.029	0.016	0.017	0.017	0.019	0.018	0.017	0.041
<i>T. maccoyii</i> AB536517.1 GENBANK	0.120	0.130	0.125	0.125	0.125	0.130	0.120	0.140	0.140	0.140	0.140	0.144	0.125	0.088	0.093	0.093	0.093	0.093	0.056	0.060	0.020	0.017	0.021	0.018	0.018	0.038
<i>T. obesus</i> JN572738.1 GENBANK	0.119	0.119	0.124	0.124	0.124	0.119	0.119	0.129	0.119	0.124	0.124	0.154	0.119	0.082	0.082	0.097	0.087	0.082	0.078	0.068	0.083	0.014	0.015	0.014	0.016	0.040
<i>T. obesus</i> JN572737.1 GENBANK	0.119	0.129	0.124	0.124	0.124	0.129	0.119	0.140	0.139	0.134	0.134	0.154	0.134	0.097	0.097	0.102	0.102	0.097	0.073	0.073	0.069	0.047	0.012	0.010	0.010	0.039
<i>T. obesus</i> JN572736.1 GENBANK	0.119	0.109	0.114	0.114	0.114	0.109	0.119	0.119	0.128	0.123	0.123	0.143	0.133	0.111	0.101	0.106	0.106	0.101	0.087	0.087	0.092	0.055	0.033	0.010	0.015	0.039
<i>T. obesus</i> JN572735.1 GENBANK	0.114	0.124	0.119	0.119	0.119	0.124	0.114	0.134	0.144	0.128	0.129	0.158	0.129	0.096	0.096	0.101	0.101	0.096	0.082	0.082	0.078	0.046	0.025	0.025	0.013	0.039
<i>T. obesus</i> JN572734.1 GENBANK	0.129	0.140	0.135	0.135	0.135	0.140	0.129	0.150	0.149	0.144	0.144	0.175	0.134	0.082	0.092	0.097	0.097	0.092	0.068	0.068	0.073	0.056	0.025	0.051	0.042	0.040
<i>K. pelamis</i> AB907555.1 GENBANK	0.314	0.314	0.314	0.314	0.314	0.308	0.327	0.347	0.327	0.333	0.345	0.327	0.304	0.297	0.310	0.297	0.297	0.284	0.290	0.272	0.290	0.278	0.289	0.290	0.284	

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27 **Table S4.** Genetic Distances of CO1 sequences from Philippine bluefin tuna and reference sequences from GENBANK.

Philippine Bluefin Tuna	0.000	0.000	0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. orientalis</i> KF906721.1 GENBANK	0.000		0.000	0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. orientalis</i> GU256524.1 GENBANK	0.000	0.000		0.000	0.000	0.002	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. orientalis</i> GQ414570.1 GENBANK	0.000	0.000	0.000		0.000	0.000	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. orientalis</i> DQ107590.1 GENBANK	0.000	0.000	0.000	0.000		0.000	0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. orientalis</i> DQ107581.1 GENBANK	0.000	0.000	0.000	0.000	0.000		0.002	0.002	0.002	0.002	0.005	0.006	0.005	0.005	0.005	0.006	0.005	0.006	0.005	0.006	0.006	0.006	0.008	
<i>T. alalunga</i> KT003908.1 GENBANK	0.002	0.002	0.002	0.002	0.002	0.002		0.000	0.000	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.008
<i>T. alalunga</i> KT003907.1 GENBANK	0.002	0.002	0.002	0.002	0.002	0.002	0.000		0.000	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.008
<i>T. alalunga</i> KT074102.1 GENBANK	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000		0.000	0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.008
<i>T. alalunga</i> KT074096.1 GENBANK	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000		0.000	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.008
<i>T. alalunga</i> KP975847.1 GENBANK	0.002	0.002	0.002	0.002	0.002	0.002	0.000	0.000	0.000	0.000		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.006	0.005	0.008
<i>T. thynnus</i> KT003922.1 GENBANK	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.013		0.002	0.000	0.000	0.000	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.007
<i>T. thynnus</i> KT003921.1 GENBANK	0.017	0.017	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.002		0.002	0.002	0.002	0.005	0.004	0.005	0.005	0.005	0.005	0.005	0.007
<i>T. thynnus</i> KT003920.1 GENBANK	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.013	0.000	0.002		0.000	0.000	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.007
<i>T. thynnus</i> KT003923.1 GENBANK	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.013	0.000	0.002	0.000		0.000	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.007
<i>T. thynnus</i> KT003919.1 GENBANK	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.013	0.000	0.002	0.000	0.000		0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.007
<i>T. maccoyii</i> DQ107641.1 GENBANK	0.017	0.017	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.009	0.011	0.009	0.009	0.009		0.002	0.003	0.003	0.005	0.006	0.005	0.007
<i>T. maccoyii</i> DQ107640.1 GENBANK	0.015	0.015	0.015	0.015	0.015	0.015	0.013	0.013	0.013	0.013	0.013	0.008	0.009	0.008	0.008	0.008	0.002		0.002	0.002	0.004	0.005	0.004	0.007
<i>T. maccoyii</i> DQ107637.1 GENBANK	0.017	0.017	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.009	0.011	0.009	0.009	0.009	0.004	0.002		0.003	0.005	0.006	0.005	0.007
<i>T. maccoyii</i> FJ605794.1 GENBANK	0.013	0.013	0.013	0.013	0.013	0.013	0.011	0.011	0.011	0.011	0.011	0.009	0.011	0.009	0.009	0.009	0.004	0.002	0.004		0.005	0.006	0.005	0.007
<i>T. obesus</i> KP975909.1 GENBANK	0.017	0.017	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.009	0.011	0.009	0.009	0.009	0.011	0.009	0.011	0.011		0.004	0.000	0.007
<i>T. obesus</i> KC015959.1 GENBANK	0.023	0.023	0.023	0.023	0.023	0.023	0.021	0.021	0.021	0.021	0.021	0.015	0.013	0.015	0.015	0.015	0.017	0.015	0.017	0.017	0.011		0.004	0.008
<i>T. obesus</i> KF528370.1 GENBANK	0.017	0.017	0.017	0.017	0.017	0.017	0.015	0.015	0.015	0.015	0.015	0.009	0.011	0.009	0.009	0.009	0.011	0.009	0.011	0.011	0.000	0.011		0.007
<i>T. tonggol</i> GU190378.1 GENBANK	0.036	0.036	0.036	0.036	0.036	0.036	0.034	0.034	0.034	0.034	0.034	0.029	0.030	0.029	0.029	0.029	0.030	0.029	0.030	0.030	0.027	0.032	0.027	

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Figure S1. Fin sample of bluefin tuna.

Philippine Bluefin Tuna	1	CCATTTCAT	ATGTCAACA-TACCATGAAGACTTACATAAAGCATGACAATTATCTTT-CAACATCCCAATTACAT-CAC	75
<i>T. orientalis</i> AB933622.1 GENBANK	1	.....	.....-..T.....TC.....T.G.....	75
<i>T. orientalis</i> AB933605.1 GENBANK	1	.....	.....T.....TC.....T.G.....	75
<i>T. orientalis</i> JN631191.1 GENBANK	1	.....	.....T.....TC.....T.G.....	75
<i>T. orientalis</i> JN631218.1 GENBANK	1	.....	.....T.....TC.....T.G.....	75
<i>T. orientalis</i> AB933586.1 GENBANK	1	.....	.....T.....TC..A.....T.G.....	76
<i>T. orientalis</i> AB933620.1 GENBANK	1	.....	.....TC.....T.CC.....	75
<i>T. orientalis</i> AB933595.1 GENBANK	1	.....	.....TC.....T.GC.....	75
<i>T. alalunga</i> AY571774.1 GENBANK	1	.....	.....A...A..G.C...TCCC-...C.TT.C...T...T	75
<i>T. alalunga</i> AY571773.1 GENBANK	1	.....	.....G...A...A...CC.C.CCC-...CTT...T...T...T	75
<i>T. alalunga</i> AY571772.1 GENBANK	1	.....	.....A...A.T..CC...CCC-...CTTT.TC..T...T	75
<i>T. alalunga</i> AY571771.1 GENBANK	1	.....	.....GA...A...CC.?CCC-...CTTT.C..?T...T	75
<i>T. alalunga</i> AY571770.1 GENBANK	1	.....	.....A...A..T.CC...CCC-...CTTT.T...T...T	75
<i>T. thynnus</i> AB106310.1 GENBANK	1	.....	.....T.-A.TA.....T.....C...ACA...A.-A.C.-...G...T.GTC..GA..T..G	75
<i>T. thynnus</i> AB106311.1 GENBANK	1	.....	.....T.-A.TA.....T.....C...ACA...A.-ACC-...T...-...GA..T..G	75
<i>T. thynnus</i> AB106309.1 GENBANK	1	.....	.....C...T.-A.TA.....T.....C...ACA...A.-ACC-...T.ATC..GA..T..G	75
<i>T. thynnus</i> AB106308.1 GENBANK	1	.....	.....T.-A.TA.....T.....C...ACA.G.A.-ACC-...T.ACC..GA..T..G	75
<i>T. thynnus</i> AB106307.1 GENBANK	1	.....	.....T.-A.TA.....T.....C...ACA...A.-ACC-...T.ATC..GA..T..G	75
<i>T. maccoyii</i> AB536519.1 GENBANK	1	-----	-----A..A.C...T.....C...CAG..A.-AC.C-...T.-TC...A..T..A	65
<i>T. maccoyii</i> AB536518.1 GENBANK	1	-----	-----A..A.C...T.....C...ACAG..A.-GC.C-...T.-TC...A..T..A	65
<i>T. maccoyii</i> AB536517.1 GENBANK	1	-----	-----A..A...T.....C...ACA...A..A.C-T...T.-TC.C.A..T..A	65
<i>T. obesus</i> JN572738.1 GENBANK	1	.....	.....-A.TA.....T.....C...ACGG..-..A..C-...T.AC...AG...A	74
<i>T. obesus</i> JN572737.1 GENBANK	1	.....	.....A.....-A..A.....C...ACA...A.-A.C-...T.A.G...AG...A	74
<i>T. obesus</i> JN572736.1 GENBANK	1	.....	.....-A..A.....C...ACG...-..AC.C-...T.AG...AG...A	74
<i>T. obesus</i> JN572735.1 GENBANK	1	.....	.....-A..A.....C...ACG...-..A..C-...T.AG...AG...A	74
<i>T. obesus</i> JN572734.1 GENBANK	1	.....	.....A.....-A..A.....T.....C...ACAG..-..A..C-...G...T.A.G...AG...G	74
<i>K. pelamis</i> AB907555.1 GENBANK	1	A..	..CAG..C..TA..A.CT...GG.....C...AC..T.AC.AA.C-GG...ATA--..TA..AT..G	74
Philippine Bluefin Tuna	76	GTAATTAA	ACGAGATTTAAGACCTACCATAAAAC-CTAAATCGTCC-AAGCCATACCAAGTCCCT-CATCTCTGAAAT	150
<i>T. orientalis</i> AB933622.1 GENBANK	76	.....	.....-.....T.....-.....	150
<i>T. orientalis</i> AB933605.1 GENBANK	76	.....	.....T.....-.....	150
<i>T. orientalis</i> JN631191.1 GENBANK	76	.....	.....T.....-.....	150
<i>T. orientalis</i> JN631218.1 GENBANK	76	.....	.....T.....-.....	150
<i>T. orientalis</i> AB933586.1 GENBANK	77	.....	.....-.....	151
<i>T. orientalis</i> AB933620.1 GENBANK	76	.....	.....T.....-.....C.....	150
<i>T. orientalis</i> AB933595.1 GENBANK	76	.....	.....T.....C.....	150
<i>T. alalunga</i> AY571774.1 GENBANK	76	.....	.....A.....T.G.....C.....A.....	151
<i>T. alalunga</i> AY571773.1 GENBANK	76	.....	.....G.....T.G.....T.....A.....	151
<i>T. alalunga</i> AY571772.1 GENBANK	76	.....	.....G.....T.G.....T.....A.....	151
<i>T. alalunga</i> AY571771.1 GENBANK	76	.....	.....A.....T.G.....C.....A.....	150
<i>T. alalunga</i> AY571770.1 GENBANK	76	.....	.....A.....T.....-.....A.....	150
<i>T. thynnus</i> AB106310.1 GENBANK	76	.CG.....	A.....T.....T.....T.....C.....	150
<i>T. thynnus</i> AB106311.1 GENBANK	76	.CG.....	G.....T.....T.....T.....C.....	150
<i>T. thynnus</i> AB106309.1 GENBANK	76	.CG.....	A.....T.....T.....T.....C.....	150
<i>T. thynnus</i> AB106308.1 GENBANK	76	.CG.....	A.....T.....T.....T.....C.....	150
<i>T. thynnus</i> AB106307.1 GENBANK	76	.CG.....	G.....T.....T.....T.....C.....	150
<i>T. maccoyii</i> AB536519.1 GENBANK	66	...C...	A..C.....-.....T.....T.....C...GG.	140
<i>T. maccoyii</i> AB536518.1 GENBANK	66	.....	.....A..C.....-.....A..T.....T.....C...GG.	140
<i>T. maccoyii</i> AB536517.1 GENBANK	66	.....	.....A..C.....T.....T.....-.....C...G.	140
<i>T. obesus</i> JN572738.1 GENBANK	75	.....	.....C...A.....T.....T.....T.....C...G.	150
<i>T. obesus</i> JN572737.1 GENBANK	75	.....	.....C...A.....T.....T.....T.....C...G.	150
<i>T. obesus</i> JN572736.1 GENBANK	75	.....	.....C...A.....T.....T.....T.....C...G.	150
<i>T. obesus</i> JN572735.1 GENBANK	75	.....	.....A.....C...A.....T.....T.....T.....C...G.	150
<i>T. obesus</i> JN572734.1 GENBANK	75	.....	.....C...A.....T.....T.....T.....C...G.	150
<i>K. pelamis</i> AB907555.1 GENBANK	75	-G.C..G	G.....C...GAA..C.CG...T...TAT.....ATT.AA...C.ATC..C	150

Figure S2. Multiple alignment using ClustalW of D-loop sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	151	CTA-GTAA	ACTTAAGCGCAGTAAGAGCCTACCATCCAGCTCATTCTTAAATGCATACGGTTATTGAAGGTGAGGGACA	227
<i>T. orientalis</i> AB933622.1 GENBANK	151			227
<i>T. orientalis</i> AB933605.1 GENBANK	151			227
<i>T. orientalis</i> JN631191.1 GENBANK	151	. . G . .		227
<i>T. orientalis</i> JN631218.1 GENBANK	151	. . G . .		227
<i>T. orientalis</i> AB933586.1 GENBANK	152			228
<i>T. orientalis</i> AB933620.1 GENBANK	151			227
<i>T. orientalis</i> AB933595.1 GENBANK	151			227
<i>T. alalunga</i> AY571774.1 GENBANK	152		. . . C . T T C	228
<i>T. alalunga</i> AY571773.1 GENBANK	152		 T T C	228
<i>T. alalunga</i> AY571772.1 GENBANK	152		 T T C	228
<i>T. alalunga</i> AY571771.1 GENBANK	151		 G C C T C . C	227
<i>T. alalunga</i> AY571770.1 GENBANK	151		 T T C	226
<i>T. thynnus</i> AB106310.1 GENBANK	151	. . - C . . .	 T C	227
<i>T. thynnus</i> AB106311.1 GENBANK	151	. . . C . . .	 T C	228
<i>T. thynnus</i> AB106309.1 GENBANK	151	. . - C . . .	 T C	227
<i>T. thynnus</i> AB106308.1 GENBANK	151	. . - C . . .	 T C	227
<i>T. thynnus</i> AB106307.1 GENBANK	151	. . . C . . .	 T C	228
<i>T. maccoyii</i> AB536519.1 GENBANK	141	. . G	. . T . C A T C C	217
<i>T. maccoyii</i> AB536518.1 GENBANK	141	. C . A . . .	. . T T C C G	218
<i>T. maccoyii</i> AB536517.1 GENBANK	141		. . T A T C C	217
<i>T. obesus</i> JN572738.1 GENBANK	151	. A	. . T T C A	227
<i>T. obesus</i> JN572737.1 GENBANK	151	. A	. . T A T C A	227
<i>T. obesus</i> JN572736.1 GENBANK	151	. G	. . T A T C A	227
<i>T. obesus</i> JN572735.1 GENBANK	151	. A	. . T A T C A	227
<i>T. obesus</i> JN572734.1 GENBANK	151	. G	. . T A T C A	227
<i>K. pelamis</i> AB907555.1 GENBANK	151	T . . G A C . .	G T - A . C A T C C	227
Philippine Bluefin Tuna	228	ATGATTGT	GGGGGTAACACTTAGTGAACCTATTCTGGCATTGTGGTTCCTACTTCAGGGCCATGGCTTGGTAACATTCC	305
<i>T. orientalis</i> AB933622.1 GENBANK	228	. C A		305
<i>T. orientalis</i> AB933605.1 GENBANK	228	. C	 C	305
<i>T. orientalis</i> JN631191.1 GENBANK	228	. C	 C	305
<i>T. orientalis</i> JN631218.1 GENBANK	228	. C	 C	305
<i>T. orientalis</i> AB933586.1 GENBANK	229	. C A		306
<i>T. orientalis</i> AB933620.1 GENBANK	228	. . A	 A	305
<i>T. orientalis</i> AB933595.1 GENBANK	228	. C		305
<i>T. alalunga</i> AY571774.1 GENBANK	229	. . A . . C .	 T C	285
<i>T. alalunga</i> AY571773.1 GENBANK	229	. C A . . C .	 T C	285
<i>T. alalunga</i> AY571772.1 GENBANK	229	. C A . . C .	 T C	285
<i>T. alalunga</i> AY571771.1 GENBANK	228	. C A . . C C	 C G . T	284
<i>T. alalunga</i> AY571770.1 GENBANK	227	. . A . . C .	 T C	283
<i>T. thynnus</i> AB106310.1 GENBANK	228	. . A	 T C	305
<i>T. thynnus</i> AB106311.1 GENBANK	229	. . A	 T A	306
<i>T. thynnus</i> AB106309.1 GENBANK	228	. . A	 C T A A C	305
<i>T. thynnus</i> AB106308.1 GENBANK	228	. . A	 T C A A C	305
<i>T. thynnus</i> AB106307.1 GENBANK	229	. . A	 T A T	306
<i>T. maccoyii</i> AB536519.1 GENBANK	218	. . A	 C T C A	295
<i>T. maccoyii</i> AB536518.1 GENBANK	219	. . A	 C T C A	296
<i>T. maccoyii</i> AB536517.1 GENBANK	218	. . A . . C .	 C T C A	295
<i>T. obesus</i> JN572738.1 GENBANK	228	. . A	 T C C A A	283
<i>T. obesus</i> JN572737.1 GENBANK	228	. . A	 G C T C	270
<i>T. obesus</i> JN572736.1 GENBANK	228	. C A	 G . T T C	270
<i>T. obesus</i> JN572735.1 GENBANK	228	. . A	 G . T T C	270
<i>T. obesus</i> JN572734.1 GENBANK	228	. . A	 G C T C	270
<i>K. pelamis</i> AB907555.1 GENBANK	228	. G A . . C .	 T T	277

Figure S2 continued. Multiple alignment using ClustalW of D-loop sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	306	CCATTCTT	TCATCGACGCTTGCATAAGTTATTGGTGGAGTACATAAACCTCATTAAAGCCACATGCCGAGCGTTCTTTC	383
<i>T. orientalis</i> AB933622.1 GENBANK	306	.....	.....	383
<i>T. orientalis</i> AB933605.1 GENBANK	306	.....	.....	383
<i>T. orientalis</i> JN631191.1 GENBANK	306	.....	.....G.....	383
<i>T. orientalis</i> JN631218.1 GENBANK	306	.....	.....G.....	383
<i>T. orientalis</i> AB933586.1 GENBANK	307	.....	.....	384
<i>T. orientalis</i> AB933620.1 GENBANK	306	.....	.....T.....	383
<i>T. orientalis</i> AB933595.1 GENBANK	306	.....	.....	383
<i>T. alalunga</i> AY571774.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571773.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571772.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571771.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571770.1 GENBANK	-	-----	-----	-
<i>T. thynnus</i> AB106310.1 GENBANK	306	.....	.....G.....G.GAT.....G.....C.....	383
<i>T. thynnus</i> AB106311.1 GENBANK	307	.....	.....T.....G.GAT.....G.....C.....	384
<i>T. thynnus</i> AB106309.1 GENBANK	306	.....	.....G.GAT.....G.....C.....	383
<i>T. thynnus</i> AB106308.1 GENBANK	306	.....	.....G.GAT.....G.....C.....	383
<i>T. thynnus</i> AB106307.1 GENBANK	307	.....	.....T.....G.GAT.....G.....C.....	384
<i>T. maccoyii</i> AB536519.1 GENBANK	296	..C.....	G.....G.A.....C.....	373
<i>T. maccoyii</i> AB536518.1 GENBANK	297	.....	.....A.....A.....G.....C.....	374
<i>T. maccoyii</i> AB536517.1 GENBANK	296	.....	.....G.....GAT.....C.....	373
<i>T. obesus</i> JN572738.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572737.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572736.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572735.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572734.1 GENBANK	-	-----	-----	-
<i>K. pelamis</i> AB907555.1 GENBANK	-	-----	-----	-
Philippine Bluefin Tuna	384	TA-GAGGG	TCAGGTTATTTTTTCTCTCCTTCCTTTCACTTGGCATTTCACAGTGCAAATACAATAATGATCAGCAAG	460
<i>T. orientalis</i> AB933622.1 GENBANK	384	..-GAGGG	.....	460
<i>T. orientalis</i> AB933605.1 GENBANK	384	..-GAGGG	G.....	460
<i>T. orientalis</i> JN631191.1 GENBANK	384	..-GAGGG	G.....	460
<i>T. orientalis</i> JN631218.1 GENBANK	384	..-GAGGG	G.....	460
<i>T. orientalis</i> AB933586.1 GENBANK	385	..C.....	G.....	462
<i>T. orientalis</i> AB933620.1 GENBANK	384	..-G.....	.....	460
<i>T. orientalis</i> AB933595.1 GENBANK	384	..-G.....	.....	460
<i>T. alalunga</i> AY571774.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571773.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571772.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571771.1 GENBANK	-	-----	-----	-
<i>T. alalunga</i> AY571770.1 GENBANK	-	-----	-----	-
<i>T. thynnus</i> AB106310.1 GENBANK	384	..-G.....	C.A.....C.....G.....C.....A.....	460
<i>T. thynnus</i> AB106311.1 GENBANK	385	..-G.....	A.....C.....G.....C.....A.....	461
<i>T. thynnus</i> AB106309.1 GENBANK	384	..-G.....	A.....C.....G.....C.....A.....	460
<i>T. thynnus</i> AB106308.1 GENBANK	384	..-G.....	A.....C.....G.....C.....A.....	460
<i>T. thynnus</i> AB106307.1 GENBANK	385	..-G.....	A.....C.....G.....C.....A.....	461
<i>T. maccoyii</i> AB536519.1 GENBANK	374	..-G.....	T.....C.....G.....C.....A.....	450
<i>T. maccoyii</i> AB536518.1 GENBANK	375	..-G.....	T.....C.....G.....C.....A.....	451
<i>T. maccoyii</i> AB536517.1 GENBANK	374	..-G.....	G.....C.....G.....C.....	450
<i>T. obesus</i> JN572738.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572737.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572736.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572735.1 GENBANK	-	-----	-----	-
<i>T. obesus</i> JN572734.1 GENBANK	-	-----	-----	-
<i>K. pelamis</i> AB907555.1 GENBANK	-	-----	-----	-

Figure S2 continued. Multiple alignment using ClustalW of D-loop sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	461	G T A G A A C A	T T T T C T T G C C T G C A G G G T A A T G G T T A T T C A T G G T T T A A A T C C T A T - A T T A A A A T A A C C A C A T A C T T G G A T	537
<i>T. orientalis</i> AB933622.1 GENBANK	461	.....	.....	537
<i>T. orientalis</i> AB933605.1 GENBANK	461	.....	.....	537
<i>T. orientalis</i> JN631191.1 GENBANK	461	.....	.....	537
<i>T. orientalis</i> JN631218.1 GENBANK	461	.....	.....	537
<i>T. orientalis</i> AB933586.1 GENBANK	463	.....	.....	539
<i>T. orientalis</i> AB933620.1 GENBANK	461	.....	.....	537
<i>T. orientalis</i> AB933595.1 GENBANK	461	.....	.....	537
<i>T. alalunga</i> AY571774.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571773.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571772.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571771.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571770.1 GENBANK		-----	-----	
<i>T. thynnus</i> AB106310.1 GENBANK	461	.....	..... T A T A G . C . G C T T . C C T A G A 538	538
<i>T. thynnus</i> AB106311.1 GENBANK	462	.....	..... T A T A G . C . G C T T . C C T A G A 539	539
<i>T. thynnus</i> AB106309.1 GENBANK	461	.....	..... T A T A G . C . G C T T . C C T A G A 538	538
<i>T. thynnus</i> AB106308.1 GENBANK	461	.....	..... T A T A G . C . G C T T . C C T A G A 538	538
<i>T. thynnus</i> AB106307.1 GENBANK	462	.....	..... T A T A G . C . G C T T . C C T A G A 539	539
<i>T. maccoyii</i> AB536519.1 GENBANK	451	.....	..... T A - A T A G . C . G T T G C . T G A A G 527	527
<i>T. maccoyii</i> AB536518.1 GENBANK	452	.....	..... T A - A T A G . C . G T T . C . T A A A 528	528
<i>T. maccoyii</i> AB536517.1 GENBANK	451	.....	..... C . T A - A T A G . C . G T T . C C T A A A 527	527
<i>T. obesus</i> JN572738.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572737.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572736.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572735.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572734.1 GENBANK		-----	-----	
<i>K. pelamis</i> AB907555.1 GENBANK		-----	-----	
Philippine Bluefin Tuna	538	A T C A T G A G	C A T A A T G A T A A T T T T A C C C G T A A A A T A T C T A A G A C A C C C C C T C T C G G C T T T T G - - - - -	598
<i>T. orientalis</i> AB933622.1 GENBANK	538	.....	.....	598
<i>T. orientalis</i> AB933605.1 GENBANK	538	.....	.....	598
<i>T. orientalis</i> JN631191.1 GENBANK	538	.....	.....	598
<i>T. orientalis</i> JN631218.1 GENBANK	538	.....	.....	598
<i>T. orientalis</i> AB933586.1 GENBANK	540	.....	.....	600
<i>T. orientalis</i> AB933620.1 GENBANK	538	.....	.....	598
<i>T. orientalis</i> AB933595.1 GENBANK	538	.....	.....	598
<i>T. alalunga</i> AY571774.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571773.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571772.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571771.1 GENBANK		-----	-----	
<i>T. alalunga</i> AY571770.1 GENBANK		-----	-----	
<i>T. thynnus</i> AB106310.1 GENBANK	539	 C	 A C G C G T T A A A C C C C C C T A	616
<i>T. thynnus</i> AB106311.1 GENBANK	540	 C	 A C G C G T T A A A C C C C C C T A	617
<i>T. thynnus</i> AB106309.1 GENBANK	539	 C	 A C G C G T T A A A C C C C C C T A	616
<i>T. thynnus</i> AB106308.1 GENBANK	539	 C C	 A C G C G T T A A A C C C C C C T A	616
<i>T. thynnus</i> AB106307.1 GENBANK	540	 C	 A C G C G T T A A A C C C C C C T A	617
<i>T. maccoyii</i> AB536519.1 GENBANK	528	 C	 A 558	558
<i>T. maccoyii</i> AB536518.1 GENBANK	529	 C	 A 559	559
<i>T. maccoyii</i> AB536517.1 GENBANK	528	 C	 A 558	558
<i>T. obesus</i> JN572738.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572737.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572736.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572735.1 GENBANK		-----	-----	
<i>T. obesus</i> JN572734.1 GENBANK		-----	-----	
<i>K. pelamis</i> AB907555.1 GENBANK		-----	-----	

Figure S2 continued. Multiple alignment using ClustalW of D-loop sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	- - - - -
<i>T. orientalis</i> AB933622.1 GENBANK	- - - - -
<i>T. orientalis</i> AB933605.1 GENBANK	- - - - -
<i>T. orientalis</i> JN631191.1 GENBANK	- - - - -
<i>T. orientalis</i> JN631218.1 GENBANK	- - - - -
<i>T. orientalis</i> AB933586.1 GENBANK	- - - - -
<i>T. orientalis</i> AB933620.1 GENBANK	- - - - -
<i>T. orientalis</i> AB933595.1 GENBANK	- - - - -
<i>T. alalunga</i> AY571774.1 GENBANK	- - - - -
<i>T. alalunga</i> AY571773.1 GENBANK	- - - - -
<i>T. alalunga</i> AY571772.1 GENBANK	- - - - -
<i>T. alalunga</i> AY571771.1 GENBANK	- - - - -
<i>T. alalunga</i> AY571770.1 GENBANK	- - - - -
<i>T. thynnus</i> AB106310.1 GENBANK	617 C C C C C C T 623
<i>T. thynnus</i> AB106311.1 GENBANK	618 C C C C C C T 624
<i>T. thynnus</i> AB106309.1 GENBANK	617 C C C C C C T 623
<i>T. thynnus</i> AB106308.1 GENBANK	617 C C C C C C T 623
<i>T. thynnus</i> AB106307.1 GENBANK	618 C C C C C C T 624
<i>T. maccoyii</i> AB536519.1 GENBANK	- - - - -
<i>T. maccoyii</i> AB536518.1 GENBANK	- - - - -
<i>T. maccoyii</i> AB536517.1 GENBANK	- - - - -
<i>T. obesus</i> JN572738.1 GENBANK	- - - - -
<i>T. obesus</i> JN572737.1 GENBANK	- - - - -
<i>T. obesus</i> JN572736.1 GENBANK	- - - - -
<i>T. obesus</i> JN572735.1 GENBANK	- - - - -
<i>T. obesus</i> JN572734.1 GENBANK	- - - - -
<i>K. pelamis</i> AB907555.1 GENBANK	- - - - -

Figure S2 continued. Multiple alignment using ClustalW of D-loop sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	1	C T T A A G C T T G C T C A T C C G A G C T G A A C T A A G C	C A A C C A G G T G C C C T T C T T G G G G A C G A C C A G A T C T A C A A T G T A A T C G T	78
<i>T. orientalis</i> KF906721.1 GENBANK	1	.....	.....	78
<i>T. orientalis</i> GU256524.1 GENBANK	1	.....	.....	78
<i>T. orientalis</i> GQ414570.1 GENBANK	1	.....	.....	78
<i>T. orientalis</i> DQ107590.1 GENBANK	1	.....	.....	78
<i>T. orientalis</i> DQ107581.1 GENBANK	1	.....	.....	78
<i>T. alalunga</i> KT003908.1 GENBANK	1	- - - .....	.....	75
<i>T. alalunga</i> KT003907.1 GENBANK	1	- - - .....	.....	75
<i>T. alalunga</i> KT074102.1 GENBANK	1	- - - .....	.....	75
<i>T. alalunga</i> KT074096.1 GENBANK	1	.....	.....	78
<i>T. alalunga</i> KP975847.1 GENBANK	1	.....	.....	78
<i>T. thynnus</i> KT003922.1 GENBANK	1	.....	.....	78
<i>T. thynnus</i> KT003921.1 GENBANK	1	.....	.....	78
<i>T. thynnus</i> KT003920.1 GENBANK	1	.....	.....	78
<i>T. thynnus</i> KT003923.1 GENBANK	1	.....	.....	78
<i>T. thynnus</i> KT003919.1 GENBANK	1	.....	.....	78
<i>T. maccoyii</i> DQ107641.1 GENBANK	1	.....	.....	78
<i>T. maccoyii</i> DQ107640.1 GENBANK	1	.....	.....	78
<i>T. maccoyii</i> DQ107637.1 GENBANK	1	.....	.....	78
<i>T. maccoyii</i> FJ605794.1 GENBANK	1	.....	.....	78
<i>T. obesus</i> KP975909.1 GENBANK	1	.....	.....	78
<i>T. obesus</i> KC015959.1 GENBANK	1	 A .....	.....	78
<i>T. obesus</i> KF528370.1 GENBANK	1	.....	.....	78
<i>T. tonggol</i> GU190378.1 GENBANK	1	 C	 A A	78
Philippine Bluefin Tuna	79	T A C G G C C C A T G C C T T C G T A A T G A T T T T C T T T	A T A G T A A T A C C A A T T A T G A T T G G A G G A T T T G G A A A C T G A C T T A T T C C	156
<i>T. orientalis</i> KF906721.1 GENBANK	79	.....	.....	156
<i>T. orientalis</i> GU256524.1 GENBANK	79	.....	.....	156
<i>T. orientalis</i> GQ414570.1 GENBANK	79	.....	.....	156
<i>T. orientalis</i> DQ107590.1 GENBANK	79	.....	.....	156
<i>T. orientalis</i> DQ107581.1 GENBANK	79	.....	.....	156
<i>T. alalunga</i> KT003908.1 GENBANK	76	.....	.....	153
<i>T. alalunga</i> KT003907.1 GENBANK	76	.....	.....	153
<i>T. alalunga</i> KT074102.1 GENBANK	76	.....	.....	153
<i>T. alalunga</i> KT074096.1 GENBANK	79	.....	.....	156
<i>T. alalunga</i> KP975847.1 GENBANK	79	.....	.....	156
<i>T. thynnus</i> KT003922.1 GENBANK	79	.....	.....	156
<i>T. thynnus</i> KT003921.1 GENBANK	79	.....	.....	156
<i>T. thynnus</i> KT003920.1 GENBANK	79	.....	.....	156
<i>T. thynnus</i> KT003923.1 GENBANK	79	.....	.....	156
<i>T. thynnus</i> KT003919.1 GENBANK	79	.....	.....	156
<i>T. maccoyii</i> DQ107641.1 GENBANK	79	.....	.....	156
<i>T. maccoyii</i> DQ107640.1 GENBANK	79	.....	.....	156
<i>T. maccoyii</i> DQ107637.1 GENBANK	79	.....	.....	156
<i>T. maccoyii</i> FJ605794.1 GENBANK	79	.....	.....	156
<i>T. obesus</i> KP975909.1 GENBANK	79	.....	.....	156
<i>T. obesus</i> KC015959.1 GENBANK	79	.....	..... C ..	156
<i>T. obesus</i> KF528370.1 GENBANK	79	.....	.....	156
<i>T. tonggol</i> GU190378.1 GENBANK	79	.....	.....	156

Figure S3. Multiple alignment using ClustaW of CO1 sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	157	TCTAATGATCGGAGCCCCCGACATGGCATTCT	CCACGAATGAACAACATGAGCTTCTGACTCCTTCCTCCCTCTTTCCT	234
<i>T. orientalis</i> KF906721.1 GENBANK	157	.....	.....	234
<i>T. orientalis</i> GU256524.1 GENBANK	157	.....	.....	234
<i>T. orientalis</i> GQ414570.1 GENBANK	157	.....	.....	234
<i>T. orientalis</i> DQ107590.1 GENBANK	157	.....	.....	234
<i>T. orientalis</i> DQ107581.1 GENBANK	157	.....	.....	234
<i>T. alalunga</i> KT003908.1 GENBANK	154	.....	.....	231
<i>T. alalunga</i> KT003907.1 GENBANK	154	.....	.....	231
<i>T. alalunga</i> KT074102.1 GENBANK	154	.....	.....	231
<i>T. alalunga</i> KT074096.1 GENBANK	157	.....	.....	234
<i>T. alalunga</i> KP975847.1 GENBANK	157	.....	.....	234
<i>T. thynnus</i> KT003922.1 GENBANK	157	.....	.....C.....T.....	234
<i>T. thynnus</i> KT003921.1 GENBANK	157	G.....	C.....T.....	234
<i>T. thynnus</i> KT003920.1 GENBANK	157	.....	.....C.....T.....	234
<i>T. thynnus</i> KT003923.1 GENBANK	157	.....	.....C.....T.....	234
<i>T. thynnus</i> KT003919.1 GENBANK	157	.....	.....C.....T.....	234
<i>T. maccoyii</i> DQ107641.1 GENBANK	157	.....	.....C.....	234
<i>T. maccoyii</i> DQ107640.1 GENBANK	157	.....	.....C.....	234
<i>T. maccoyii</i> DQ107637.1 GENBANK	157	.....	.....C.....	234
<i>T. maccoyii</i> FJ605794.1 GENBANK	157	.....	.....C.....	234
<i>T. obesus</i> KP975909.1 GENBANK	157	.....	.....C.....	234
<i>T. obesus</i> KC015959.1 GENBANK	157	G.....	C.....	234
<i>T. obesus</i> KF528370.1 GENBANK	157	.....	.....C.....	234
<i>T. tonggol</i> GU190378.1 GENBANK	157	A.....	A.....T.....C.....	234
Philippine Bluefin Tuna	235	TCTGCTCCTAGCTTCTTTCAGGAGTTGAGGCT	GGGGCCCGGAACCGGTTGAACAGTCTACCCTCCCCCTTGCCGGCAACCT	312
<i>T. orientalis</i> KF906721.1 GENBANK	235	.....	.....	312
<i>T. orientalis</i> GU256524.1 GENBANK	235	.....	.....	312
<i>T. orientalis</i> GQ414570.1 GENBANK	235	.....	.....	312
<i>T. orientalis</i> DQ107590.1 GENBANK	235	.....	.....	312
<i>T. orientalis</i> DQ107581.1 GENBANK	235	.....	.....	312
<i>T. alalunga</i> KT003908.1 GENBANK	232	.....	.....	309
<i>T. alalunga</i> KT003907.1 GENBANK	232	.....	.....	309
<i>T. alalunga</i> KT074102.1 GENBANK	232	.....	.....	309
<i>T. alalunga</i> KT074096.1 GENBANK	235	.....	.....	312
<i>T. alalunga</i> KP975847.1 GENBANK	235	.....	.....	312
<i>T. thynnus</i> KT003922.1 GENBANK	235	A.....	.....	312
<i>T. thynnus</i> KT003921.1 GENBANK	235	A.....	.....	312
<i>T. thynnus</i> KT003920.1 GENBANK	235	A.....	.....	312
<i>T. thynnus</i> KT003923.1 GENBANK	235	A.....	.....	312
<i>T. thynnus</i> KT003919.1 GENBANK	235	A.....	.....	312
<i>T. maccoyii</i> DQ107641.1 GENBANK	235	A.....T.....	.....	312
<i>T. maccoyii</i> DQ107640.1 GENBANK	235	A.....T.....	.....	312
<i>T. maccoyii</i> DQ107637.1 GENBANK	235	A.....T.....	.....	312
<i>T. maccoyii</i> FJ605794.1 GENBANK	235	T.....	.....	312
<i>T. obesus</i> KP975909.1 GENBANK	235	T.....	.....	312
<i>T. obesus</i> KC015959.1 GENBANK	235	.....	.....A.....	312
<i>T. obesus</i> KF528370.1 GENBANK	235	T.....	A.....	312
<i>T. tonggol</i> GU190378.1 GENBANK	235	.....	.....A.....	312

Figure S3 continued. Multiple alignment using ClustalW of CO1 sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	313	A G C C C A C G C A G G G G C A T C A G T T G A C C T A A C T	A T T T T C T C A C T T C A C T T A G C A G G G G T T T C C T C A A T T C T T - G G G G C A A	389
<i>T. orientalis</i> KF906721.1 GENBANK	313	.	.	389
<i>T. orientalis</i> GU256524.1 GENBANK	313	.	.	389
<i>T. orientalis</i> GQ414570.1 GENBANK	313	.	.	389
<i>T. orientalis</i> DQ107590.1 GENBANK	313	.	.	389
<i>T. orientalis</i> DQ107581.1 GENBANK	313	.	.	389
<i>T. alalunga</i> KT003908.1 GENBANK	310	.	.	386
<i>T. alalunga</i> KT003907.1 GENBANK	310	.	.	386
<i>T. alalunga</i> KT074102.1 GENBANK	310	.	.	386
<i>T. alalunga</i> KT074096.1 GENBANK	313	.	.	389
<i>T. alalunga</i> KP975847.1 GENBANK	313	.	.	389
<i>T. thynnus</i> KT003922.1 GENBANK	313	.	G	389
<i>T. thynnus</i> KT003921.1 GENBANK	313	.	G	389
<i>T. thynnus</i> KT003920.1 GENBANK	313	.	G	389
<i>T. thynnus</i> KT003923.1 GENBANK	313	.	G	389
<i>T. thynnus</i> KT003919.1 GENBANK	313	.	G	389
<i>T. maccoyii</i> DQ107641.1 GENBANK	313	.	.	389
<i>T. maccoyii</i> DQ107640.1 GENBANK	313	.	.	389
<i>T. maccoyii</i> DQ107637.1 GENBANK	313	.	.	389
<i>T. maccoyii</i> FJ605794.1 GENBANK	313	.	.	389
<i>T. obesus</i> KP975909.1 GENBANK	313	G	G	389
<i>T. obesus</i> KC015959.1 GENBANK	313	G	C	389
<i>T. obesus</i> KF528370.1 GENBANK	313	G	G	389
<i>T. tonggol</i> GU190378.1 GENBANK	313	G	G A	390
Philippine Bluefin Tuna	390	T T A A C T T C A T C A C A A C A A T T A T C A A T A T G A A	A C C T G C A G C C A T C T C T C A A T A T C A A A C A C C A C T G T T T G T A T G A G C T G	467
<i>T. orientalis</i> KF906721.1 GENBANK	390	.	.	467
<i>T. orientalis</i> GU256524.1 GENBANK	390	.	.	467
<i>T. orientalis</i> GQ414570.1 GENBANK	390	.	.	467
<i>T. orientalis</i> DQ107590.1 GENBANK	390	.	.	467
<i>T. orientalis</i> DQ107581.1 GENBANK	390	.	.	467
<i>T. alalunga</i> KT003908.1 GENBANK	387	.	T	464
<i>T. alalunga</i> KT003907.1 GENBANK	387	.	T	464
<i>T. alalunga</i> KT074102.1 GENBANK	387	.	T	464
<i>T. alalunga</i> KT074096.1 GENBANK	390	.	T	467
<i>T. alalunga</i> KP975847.1 GENBANK	390	.	T	467
<i>T. thynnus</i> KT003922.1 GENBANK	390	.	T . T . . . G	467
<i>T. thynnus</i> KT003921.1 GENBANK	390	.	T . T . . . G	467
<i>T. thynnus</i> KT003920.1 GENBANK	390	.	T . T . . . G	467
<i>T. thynnus</i> KT003923.1 GENBANK	390	.	T . T . . . G	467
<i>T. thynnus</i> KT003919.1 GENBANK	390	.	T . T . . . G	467
<i>T. maccoyii</i> DQ107641.1 GENBANK	390	.	T . T . . . G	467
<i>T. maccoyii</i> DQ107640.1 GENBANK	390	.	T . T . . . G	467
<i>T. maccoyii</i> DQ107637.1 GENBANK	390	.	T . T . . . G	467
<i>T. maccoyii</i> FJ605794.1 GENBANK	390	.	T . T . . . G	467
<i>T. obesus</i> KP975909.1 GENBANK	390	.	T . T . . . G	467
<i>T. obesus</i> KC015959.1 GENBANK	390	.	T . T . . . G	467
<i>T. obesus</i> KF528370.1 GENBANK	390	.	T . T . . . G	467
<i>T. tonggol</i> GU190378.1 GENBANK	391	.	T . T . . . G	468

Figure S3 continued. Multiple alignment using ClustalW of CO1 sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

Philippine Bluefin Tuna	468	T A C T A A T T A C A G C T G T T C T T - C T T C T A C T T	T	C C C T T C C A G T C C T T - G C C G C T G G T A T T A C A A T G C T C C T T A C A G A C C G	543
<i>T. orientalis</i> KF906721.1 GENBANK	468		.		543
<i>T. orientalis</i> GU256524.1 GENBANK	468		.		543
<i>T. orientalis</i> GQ414570.1 GENBANK	468		.		543
<i>T. orientalis</i> DQ107590.1 GENBANK	468		.		543
<i>T. orientalis</i> DQ107581.1 GENBANK	468		.		543
<i>T. alalunga</i> KT003908.1 GENBANK	465		.		539
<i>T. alalunga</i> KT003907.1 GENBANK	465		.		539
<i>T. alalunga</i> KT074102.1 GENBANK	465		.		539
<i>T. alalunga</i> KT074096.1 GENBANK	468		.		543
<i>T. alalunga</i> KP975847.1 GENBANK	468		.		543
<i>T. thynnus</i> KT003922.1 GENBANK	468		C		543
<i>T. thynnus</i> KT003921.1 GENBANK	468		C		543
<i>T. thynnus</i> KT003920.1 GENBANK	468		C		543
<i>T. thynnus</i> KT003923.1 GENBANK	468		C		543
<i>T. thynnus</i> KT003919.1 GENBANK	468		C		543
<i>T. maccoyii</i> DQ107641.1 GENBANK	468		C		543
<i>T. maccoyii</i> DQ107640.1 GENBANK	468		C		543
<i>T. maccoyii</i> DQ107637.1 GENBANK	468		C		543
<i>T. maccoyii</i> FJ605794.1 GENBANK	468		C		543
<i>T. obesus</i> KP975909.1 GENBANK	468		C		543
<i>T. obesus</i> KC015959.1 GENBANK	468		C		543
<i>T. obesus</i> KF528370.1 GENBANK	468		C		543
<i>T. tonggol</i> GU190378.1 GENBANK	469		T . C		546
Philippine Bluefin Tuna	544	A A A C C T A A A T A C A A C C T T C T T C G A C C C T G C			572
<i>T. orientalis</i> KF906721.1 GENBANK	544				572
<i>T. orientalis</i> GU256524.1 GENBANK	544				572
<i>T. orientalis</i> GQ414570.1 GENBANK	544				572
<i>T. orientalis</i> DQ107590.1 GENBANK	544				572
<i>T. orientalis</i> DQ107581.1 GENBANK	544				572
<i>T. alalunga</i> KT003908.1 GENBANK		- - - - -			
<i>T. alalunga</i> KT003907.1 GENBANK		- - - - -			
<i>T. alalunga</i> KT074102.1 GENBANK		- - - - -			
<i>T. alalunga</i> KT074096.1 GENBANK	544				572
<i>T. alalunga</i> KP975847.1 GENBANK	544				572
<i>T. thynnus</i> KT003922.1 GENBANK	544				572
<i>T. thynnus</i> KT003921.1 GENBANK	544				572
<i>T. thynnus</i> KT003920.1 GENBANK	544				572
<i>T. thynnus</i> KT003923.1 GENBANK	544				572
<i>T. thynnus</i> KT003919.1 GENBANK	544				572
<i>T. maccoyii</i> DQ107641.1 GENBANK	544				572
<i>T. maccoyii</i> DQ107640.1 GENBANK	544				572
<i>T. maccoyii</i> DQ107637.1 GENBANK	544				572
<i>T. maccoyii</i> FJ605794.1 GENBANK	544				572
<i>T. obesus</i> KP975909.1 GENBANK	544				572
<i>T. obesus</i> KC015959.1 GENBANK	544				572
<i>T. obesus</i> KF528370.1 GENBANK	544				572
<i>T. tonggol</i> GU190378.1 GENBANK	547		T .		559

Figure S3 continued. Multiple alignment using ClustalW of CO1 sequence of Philippine bluefin tuna with reference sequences obtained from GENBANK.

