

Supplemental Table 1 Haplotype frequencies by sampling location for Gulf Killifish (*F. grandis*), Daggerblade grass shrimp (*P. pugio*), and Phloem-feeding planthoppers (*P. marginata*). Haplotype data for Gulf Killifish is shown for 366 bp of Control Region 1 (CR1), 344 bp of Nitrogen Dehydrogenase Subunit 2 (ND-2), 397 bp of Nitrogen Dehydrogenase Subunit 5 (ND-5) and 1077 bp of Concatenated sequence. Haplotype data for grass shrimp and planthoppers is shown for 466 bp of 16s RNA, and for 372 bp of Cytochrome Oxidase Subunit I (COI), respectively.

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Control Region 1							
CR1 – 01	5	0	0	0	0	0	MT622370
CR1 – 02	2	3	0	0	0	0	MT622371
CR1 – 03	9	0	0	0	0	0	MT622372
CR1 – 04	2	0	0	0	0	0	MT622373
CR1 – 05	1	0	0	0	0	0	MT622374
CR1 – 06	1	0	3	1	0	0	MT622375
CR1 – 07	1	0	0	0	0	0	MT622376
CR1 – 08	2	0	0	0	0	0	MT622377
CR1 – 09	1	0	0	0	0	0	MT622378
CR1 – 10	1	1	0	2	0	0	MT622379
CR1 – 11	1	3	2	0	0	0	MT622380
CR1 – 12	0	1	2	3	0	0	MT622381
CR1 – 13	0	1	0	0	0	0	MT622382
CR1 – 14	0	1	0	0	0	0	MT622383
CR1 – 15	0	1	0	1	0	0	MT622384
CR1 – 16	0	2	1	1	0	0	MT622385
CR1 – 17	0	1	0	0	0	0	MT622386
CR1 – 18	0	1	2	1	0	0	MT622387
CR1 – 19	0	1	0	0	0	0	MT622388
CR1 – 20	0	1	5	2	0	0	MT622389
CR1 – 21	0	1	0	0	0	0	MT622390
CR1 – 22	0	0	0	0	17	13	MT622391
CR1 – 23	0	0	0	0	0	1	MT622392
CR1 – 24	0	0	0	0	0	2	MT622393
CR1 – 25	0	0	0	0	0	2	MT622394
CR1 – 26	0	0	0	0	6	3	MT622395
CR1 – 27	0	0	0	0	2	1	MT622396
CR1 – 28	0	0	0	0	0	1	MT622397
CR1 – 29	0	0	0	0	0	1	MT622398
CR1 – 30	0	0	0	0	0	1	MT622399
CR1 – 31	0	0	0	0	0	1	MT622400
CR1 – 32	0	0	0	0	0	1	MT622401

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Control Region 1 – Cont'd							
CR1 – 33	0	0	0	0	0	1	MT622402
CR1 – 34	0	0	0	0	0	1	MT622403
CR1 – 35	0	0	0	0	0	1	MT622404
CR1 – 36	0	0	0	0	0	1	MT622405
CR1 – 37	0	0	0	0	0	1	MT622406
CR1 – 38	0	0	0	0	0	1	MT622407
CR1 – 39	0	0	1	0	0	0	MT622408
CR1 – 40	0	0	1	0	0	0	MT622409
CR1 – 41	0	0	1	0	0	0	MT622410
CR1 – 42	0	0	2	0	0	0	MT622411
CR1 – 43	0	0	1	0	0	0	MT622412
CR1 – 44	0	0	1	1	0	0	MT622413
CR1 – 45	0	0	1	0	0	0	MT622414
CR1 – 46	0	0	2	1	0	0	MT622415
CR1 – 47	0	0	1	0	0	0	MT622416
CR1 – 48	0	0	1	0	0	0	MT622417
CR1 – 49	0	0	1	0	0	0	MT622418
CR1 – 50	0	0	1	0	0	0	MT622419
CR1 – 51	0	0	0	3	0	0	MT622420
CR1 – 52	0	0	0	1	0	0	MT622421
CR1 – 53	0	0	0	1	0	0	MT622422
CR1 – 54	0	0	0	1	0	0	MT622423
CR1 – 55	0	0	0	1	0	0	MT622424
CR1 – 56	0	0	0	1	0	0	MT622425
CR1 – 57	0	0	0	1	0	0	MT622426
CR1 – 58	0	0	0	1	0	0	MT622427
CR1 – 59	0	0	0	1	0	0	MT622428
CR1 – 60	0	0	0	1	0	0	MT622429
CR1 – 61	0	0	0	1	0	0	MT622430
CR1 – 62	0	0	0	1	0	0	MT622431
CR1 – 63	0	0	0	0	2	0	MT622432
CR1 – 64	0	0	0	0	1	0	MT622433
CR1 – 65	0	0	0	0	1	0	MT622434
CR1 – 66	0	0	0	0	1	0	MT622435
CR1 – 67	0	0	0	0	1	0	MT622436
CR1 – 68	0	0	0	0	1	0	MT622437
CR1 – 69	0	0	0	0	1	0	MT622438
CR1 – 70	0	0	0	0	1	0	MT622439
CR1 – 71	0	0	0	0	1	0	MT622440
CR1 – 72	0	0	0	0	1	0	MT622441
<i>F. grandis</i> Nitrogen Dehydrogenase Subunit 2							
ND2 – 01	5	3	5	1	0	0	MT622442
ND2 – 02	2	2	0	0	0	0	MT622443
ND2 – 03	4	0	0	0	0	0	MT622444

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Nitrogen Dehydrogenase Subunit 2 – Cont'd							
ND2 – 04	6	0	0	0	0	0	MT622445
ND2 – 05	2	0	0	0	0	0	MT622446
ND2 – 06	1	1	0	0	0	0	MT622447
ND2 – 07	1	0	3	0	0	0	MT622448
ND2 – 08	1	0	1	0	0	0	MT622449
ND2 – 09	1	0	0	0	0	0	MT622450
ND2 – 10	2	0	0	0	0	0	MT622451
ND2 – 11	1	3	5	3	1	5	MT622452
ND2 – 12	0	1	0	0	0	0	MT622453
ND2 – 13	0	1	0	0	0	0	MT622454
ND2 – 14	0	1	0	1	0	0	MT622455
ND2 – 15	0	1	0	0	0	0	MT622456
ND2 – 16	0	1	3	2	0	0	MT622457
ND2 – 17	0	1	0	0	0	0	MT622458
ND2 – 18	0	1	0	0	0	0	MT622459
ND2 – 19	0	1	0	0	0	0	MT622460
ND2 – 20	0	1	1	1	0	0	MT622461
ND2 – 21	0	0	0	0	13	4	MT622462
ND2 – 22	0	0	0	0	0	1	MT622463
ND2 – 23	0	0	0	0	0	6	MT622464
ND2 – 24	0	0	0	0	0	1	MT622465
ND2 – 25	0	0	0	0	0	2	MT622466
ND2 – 26	0	0	0	0	0	1	MT622467
ND2 – 27	0	0	0	0	0	1	MT622468
ND2 – 28	0	0	0	0	11	4	MT622469
ND2 – 29	0	0	0	0	0	1	MT622470
ND2 – 30	0	0	0	0	0	1	MT622471
ND2 – 31	0	0	0	0	0	1	MT622472
ND2 – 32	0	0	0	0	0	1	MT622473
ND2 – 33	0	0	0	0	5	1	MT622474
ND2 – 34	0	0	0	0	0	1	MT622475
ND2 – 35	0	0	0	0	0	1	MT622476
ND2 – 36	0	0	0	0	0	1	MT622477
ND2 – 37	0	0	1	0	0	0	MT622478
ND2 – 38	0	0	2	3	0	0	MT622479
ND2 – 39	0	0	2	1	0	0	MT622480
ND2 – 40	0	0	2	1	0	0	MT622481
ND2 – 41	0	0	1	0	0	0	MT622482
ND2 – 42	0	0	1	0	0	0	MT622483
ND2 – 43	0	0	1	1	0	0	MT622484
ND2 – 44	0	0	1	1	0	0	MT622485
ND2 – 45	0	0	0	3	0	0	MT622486
ND2 – 46	0	0	0	1	0	0	MT622487
ND2 – 47	0	0	0	3	0	0	MT622488

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<i>F. grandis</i> Nitrogen Dehydrogenase Subunit 2 – Cont'd							
ND2 – 48	0	0	0	2	0	0	MT622489
ND2 – 49	0	0	0	1	0	0	MT622490
ND2 – 50	0	0	0	1	0	0	MT622491
ND2 – 51	0	0	0	1	0	0	MT622492
ND2 – 52	0	0	0	0	3	0	MT622493
ND2 – 53	0	0	0	0	1	0	MT622494
ND2 – 54	0	0	0	0	1	0	MT622495
ND2 – 55	0	0	0	0	1	0	MT622496
<i>F. grandis</i> Nitrogen Dehydrogenase Subunit 5							
ND5 – 01	10	5	8	5	0	0	MT635859
ND5 – 02	2	0	0	0	0	0	MT635860
ND5 – 03	8	0	0	0	0	0	MT635861
ND5 – 04	2	0	0	0	0	0	MT635862
ND5 – 05	1	1	1	2	0	0	MT635863
ND5 – 06	1	0	4	1	0	0	MT635864
ND5 – 07	1	1	1	1	0	0	MT635865
ND5 – 08	1	0	0	0	0	0	MT635866
ND5 – 09	0	1	0	2	0	0	MT635867
ND5 – 10	0	1	0	0	0	0	MT635868
ND5 – 11	0	1	0	0	0	0	MT635869
ND5 – 12	0	1	0	0	0	0	MT635870
ND5 – 13	0	1	0	0	0	0	MT635871
ND5 – 14	0	1	2	1	0	0	MT635872
ND5 – 15	0	1	1	1	0	0	MT635873
ND5 – 16	0	1	0	0	0	0	MT635874
ND5 – 17	0	1	0	0	0	0	MT635875
ND5 – 18	0	1	0	0	0	0	MT635876
ND5 – 19	0	1	0	2	0	0	MT635877
ND5 – 20	0	0	0	0	22	17	MT635878
ND5 – 21	0	0	0	0	0	1	MT635879
ND5 – 22	0	0	0	0	2	5	MT635880
ND5 – 23	0	0	0	0	0	1	MT635881
ND5 – 24	0	0	0	0	0	1	MT635882
ND5 – 25	0	0	0	0	0	1	MT635883
ND5 – 26	0	0	0	0	7	2	MT635884
ND5 – 27	0	0	0	0	0	1	MT635885
ND5 – 28	0	0	0	0	0	1	MT635886
ND5 – 29	0	0	0	0	0	1	MT635887
ND5 – 30	0	0	0	0	0	1	MT635888
ND5 – 31	0	0	0	0	1	1	MT635889
ND5 – 32	0	0	1	0	0	0	MT635890
ND5 – 33	0	0	1	0	0	0	MT635891
ND5 – 34	0	0	2	3	0	0	MT635892
ND5 – 35	0	0	1	0	0	0	MT635893

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<i>F. grandis</i> Nitrogen Dehydrogenase Subunit 5 – Cont'd							
ND5 – 36	0	0	1	0	0	0	MT635894
ND5 – 37	0	0	1	0	0	0	MT635895
ND5 – 38	0	0	1	1	0	0	MT635896
ND5 – 39	0	0	1	0	0	0	MT635897
ND5 – 40	0	0	2	0	0	0	MT635898
ND5 – 41	0	0	1	2	0	0	MT635899
ND5 – 42	0	0	0	2	0	0	MT635900
ND5 – 43	0	0	0	1	0	0	MT635901
ND5 – 44	0	0	0	1	0	0	MT635902
ND5 – 45	0	0	0	1	0	0	MT635903
ND5 – 46	0	0	0	1	0	0	MT635904
ND5 – 47	0	0	0	0	1	0	MT635905
ND5 – 48	0	0	0	0	1	0	MT635906
ND5 – 49	0	0	0	0	1	0	MT635907
ND5 – 50	0	0	0	0	1	0	MT635908
<i>F. grandis</i> Concatenated Sequences							
Con – 001	4	0	0	0	0	0	MT622370, MT622442, MT635859
Con – 002	2	0	0	0	0	0	MT622371, MT622443, MT635860
Con – 003	4	0	0	0	0	0	MT622372, MT622444, MT635861
Con – 004	2	0	0	0	0	0	MT622372, MT622445, MT635862
Con – 005	2	0	0	0	0	0	MT622373, MT622445, MT635862
Con – 006	1	0	0	0	0	0	MT622374, MT622447, MT635863
Con – 007	3	0	0	0	0	0	MT622372, MT622445, MT635861
Con – 008	1	0	2	0	0	0	MT622375, MT622448, MT635864
Con – 009	1	0	0	0	0	0	MT622370, MT622449, MT635859
Con – 010	1	0	0	0	0	0	MT622376, MT622450, MT635859
Con – 011	1	0	0	0	0	0	MT622377, MT622451, MT635859

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Concatenated Sequences – Cont'd							
Con – 012	1	0	0	0	0	0	MT622378, MT622445, MT635861
Con – 013	1	0	0	0	0	0	MT622379, MT622452, MT635865
Con – 014	1	3	1	0	0	0	MT622380, MT622442, MT635859
Con – 015	1	0	0	0	0	0	MT622377, MT622451, MT635866
Con – 016	0	0	1	0	0	0	MT622408, MT622478, MT635890
Con – 017	0	0	1	0	0	0	MT622409, MT622461, MT635859
Con – 018	0	0	1	0	0	0	MT622410, MT622452, MT635891
Con – 019	0	0	2	0	0	0	MT622411, MT622442, MT635859
Con – 020	0	0	2	3	0	0	MT622381, MT622479, MT635892
Con – 021	0	0	1	0	0	0	MT622412, MT622452, MT635893
Con – 022	0	0	1	0	0	0	MT622375, MT622442, MT635864
Con – 023	0	0	1	1	0	0	MT622413, MT622480, MT635859
Con – 024	0	0	1	1	0	0	MT622389, MT622452, MT635865
Con – 025	0	0	1	0	0	0	MT622414, MT622480, MT635859
Con – 026	0	0	2	1	0	0	MT622415, MT622481, MT635859
Con – 027	0	0	1	0	0	0	MT622389, MT622452, MT635863
Con – 028	0	0	1	0	0	0	MT622385, MT622482, MT635894

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Concatenated Sequences – Cont'd							
Con – 029	0	0	1	0	0	0	MT622416, MT622449, MT635873
Con – 030	0	0	1	0	0	0	MT622417, MT622483, MT635859
Con – 031	0	1	2	1	0	0	MT622387, MT622457, MT635873
Con – 032	0	0	1	0	0	0	MT622418, MT622448, MT635895
Con – 033	0	0	1	1	0	0	MT622389, MT622484, MT635896
Con – 034	0	0	1	0	0	0	MT622419, MT622452, MT635897
Con – 035	0	0	1	0	0	0	MT622389, MT622457, MT635898
Con – 036	0	0	1	0	0	0	MT622389, MT622485, MT635898
Con – 037	0	0	1	0	0	0	MT622380, MT622442, MT635864
Con – 038	0	0	0	1	0	0	MT622420, MT622485, MT635899
Con – 039	0	0	0	1	0	0	MT622421, MT622486, MT635900
Con – 040	0	0	0	1	0	0	MT622375, MT622487, MT635864
Con – 041	0	1	0	0	0	0	MT622381, MT622452, MT635859
Con – 042	0	1	0	0	0	0	MT622371, MT622443, MT635867
Con – 043	0	0	0	0	1	0	MT622432, MT622493, MT635880
Con – 044	0	0	0	0	4	0	MT622395, MT622474, MT635884
Con – 045	0	0	0	0	10	2	MT622391, MT622462, MT635878

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Concatenated Sequences – Cont'd							
Con – 046	0	0	0	0	1	0	MT622433, MT622493, MT635880
Con – 047	0	0	0	0	1	0	MT622396, MT622494, MT635905
Con – 048	0	0	0	0	1	0	MT622432, MT622493, MT635884
Con – 049	0	0	0	0	7	3	MT622391, MT622469, MT635878
Con – 050	0	0	0	0	1	0	MT622396, MT622495, MT635878
Con – 051	0	0	0	0	1	0	MT622434, MT622469, MT635878
Con – 052	0	0	0	0	1	0	MT622435, MT622452, MT635906
Con – 053	0	0	0	0	1	0	MT622436, MT622474, MT635884
Con – 054	0	0	0	0	1	0	MT622437, MT622469, MT635878
Con – 055	0	0	0	0	1	0	MT622395, MT622462, MT635889
Con – 056	0	0	0	0	1	0	MT622438, MT622469, MT635907
Con – 057	0	0	0	0	1	0	MT622439, MT622462, MT635878
Con – 058	0	0	0	0	1	0	MT622440, MT622469, MT635908
Con – 059	0	0	0	0	1	0	MT622395, MT622496, MT635884
Con – 060	0	0	0	0	1	0	MT622441, MT622462, MT635878
Con – 061	0	0	0	0	0	1	MT622392, MT622463, MT635879
Con – 062	0	0	0	0	0	3	MT622391, MT622464, MT635878

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Concatenated Sequences – Cont'd							
Con – 063	0	0	0	0	0	1	MT622393, MT622465, MT635880
Con – 064	0	0	0	0	0	2	MT622394, MT622452, MT635880
Con – 065	0	0	0	0	0	2	MT622395, MT622466, MT635878
Con – 066	0	0	0	0	0	1	MT622396, MT622452, MT635881
Con – 067	0	0	0	0	0	1	MT622397, MT622467, MT635878
Con – 068	0	0	0	0	0	1	MT622398, MT622468, MT635880
Con – 069	0	0	0	0	0	1	MT622399, MT622469, MT635882
Con – 070	0	0	0	0	0	1	MT622400, MT622470, MT635878
Con – 071	0	0	0	0	0	1	MT622401, MT622471, MT635878
Con – 072	0	0	0	0	0	1	MT622402, MT622464, MT635878
Con – 073	0	0	0	0	0	1	MT622403, MT622452, MT635883
Con – 074	0	0	0	0	0	1	MT622404, MT622464, MT635878
Con – 075	0	0	0	0	0	1	MT622405, MT622464, MT635884
Con – 076	0	0	0	0	0	1	MT622393, MT622452, MT635880
Con – 077	0	0	0	0	0	1	MT622391, MT622472, MT635885
Con – 078	0	0	0	0	0	1	MT622391, MT622473, MT635886
Con – 079	0	0	0	0	0	1	MT622391, MT622474, MT635887

Haplotype	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Venice	Ocean Springs	Accession
<i>F. grandis</i> Concatenated Sequences – Cont'd							
Con – 080	0	0	0	0	0	1	MT622406, MT622475, MT635888
Con – 081	0	0	0	0	0	1	MT622391, MT622462, MT635889
Con – 082	0	0	0	0	0	1	MT622407, MT622462, MT635878
Con – 083	0	0	0	0	0	1	MT622391, MT622476, MT635878
Con – 084	0	0	0	0	0	1	MT622395, MT622477, MT635884
Con – 085	0	1	0	0	0	0	MT622382, MT622453, MT635868
Con – 086	0	1	0	0	0	0	MT622383, MT622454, MT635869
Con – 087	0	1	0	0	0	0	MT622384, MT622455, MT635870
Con – 088	0	1	0	0	0	0	MT622385, MT622452, MT635871
Con – 089	0	1	0	0	0	0	MT622379, MT622456, MT635865
Con – 090	0	1	0	0	0	0	MT622386, MT622447, MT635872
Con – 091	0	1	0	0	0	0	MT622388, MT622458, MT635873
Con – 092	0	1	0	0	0	0	MT622389, MT622459, MT635874
Con – 093	0	1	0	0	0	0	MT622371, MT622443, MT635875
Con – 094	0	1	0	0	0	0	MT622371, MT622460, MT635876
Con – 095	0	1	0	1	0	0	MT622385, MT622452, MT635877
Con – 096	0	1	0	0	0	0	MT622390, MT622461, MT635859

Con – 097	0	0	0	1	0	0	MT622422, MT622488, MT635867
Con – 098	0	0	0	2	0	0	MT622420, MT622486, MT635899
Con – 099	0	0	0	2	0	0	MT622379, MT622489, MT635863
Con – 100	0	0	0	1	0	0	MT622423, MT622490, MT635859
Con – 101	0	0	0	1	0	0	MT622424, MT622457, MT635873
Con – 102	0	0	0	1	0	0	MT622425, MT622491, MT635901
Con – 103	0	0	0	1	0	0	MT622426, MT622488, MT635902
Con – 104	0	0	0	1	0	0	MT622427, MT622442, MT635859
Con – 105	0	0	0	1	0	0	MT622428, MT622461, MT635903
Con – 106	0	0	0	1	0	0	MT622429, MT622452, MT635877
Con – 107	0	0	0	1	0	0	MT622430, MT622488, MT635867
Con – 108	0	0	0	1	0	0	MT622431, MT622492, MT635900
Con – 109	0	0	0	1	0	0	MT622384, MT622455, MT635904

Haplotype	Pt. Mansfield	Matagorda	Sportsman's	Pt. Arthur	Venice	Ocean Springs	Accession
<i>P. pugio</i> 16sRNA							
Ppug – 01	0	0	20	0	0	0	MT629892
Ppug – 02	20	0	0	0	5	6	MT629893
Ppug – 03	0	17	0	19	0	5	MT629894
Ppug – 04	0	1	0	0	0	0	MT629895
Ppug – 05	0	1	0	0	0	0	MT629896
Ppug – 06	0	1	0	0	0	0	MT629897
Ppug – 07	0	0	0	1	0	0	MT629898
Ppug – 08	0	0	0	0	2	0	MT629899
Ppug – 09	0	0	0	0	10	2	MT629900
Ppug – 10	0	0	0	0	2	0	MT629901
Ppug – 11	0	0	0	0	0	5	MT629902
Ppug – 12	0	0	0	0	0	1	MT629903
Ppug – 13	0	0	0	0	0	1	MT629904
Haplotype	South Padre Isle.	Corpus Christi	Matagorda	Reitan Marsh	Sportsman's	Pt. Arthur	Accession
<i>P. marginata</i> COI							
Pmar – 01	20	14	14	24	18	17	MT602510
Pmar – 02	0	5	6	0	0	0	MT602511
Pmar – 03	0	0	0	0	2	2	MT602512
Pmar – 04	0	0	0	0	1	1	MT602513