

Electronic supplementary material

Table S1. PCR primers and amplification. The PCR cocktail was as follows: 12.5 ul Lucigen MasterMix 2x, 0.5 ul of forward primer (10 uM), 0.5 ul of reverse primer (10 uM), 1 ul of DNA (2 ng/ul), 10.5 ul water. Primers for nuclear markers (first two rows) were developed by the authors from previously sequenced transcriptome contigs, see Methods for details. The *mt COI* primers are published in Roman and Palumbi (2004).

Gene	Primers	Sequence	PCR product length (bp)	PCR profile
<i>SMC</i>	SMC_F SMC_R	Forward: AGCACAGGAAGGCTGTGG Reverse: ACGAAATCATAAGCCTCTTCACG	126	3 min. 94°C; 17 cycles (30 sec. at 94°C, 30 sec. at 65°C [-1°C per cycle], 1.5 min. at 72°C). 20 cycles (30 sec. at 94°C, 30 sec. at 48°C. 1.5 min. at 72°C). 10 min. at 72°C.
<i>UBE2H</i>	GC3546-6283F GC3546-6283R	Forward: GCCATGAGCATTCTTTGAGTGG Reverse: CGCAGTGGTGGAGTTTGAA	156	3 min. 95°C; 35 cycles (1 min. at 95°C, 1 min. at 53°C, 1 min. at 72°C). 5 min. at 72°C
<i>mt-COI</i>	GC-CO1-F GC-CO1-R	Forward: GCTTGAGCTGGCATAGTAGG Reverse: GAATGAGGTGTTTAGATTTTCG	493	3 min. 94°C; 30 cycles (1 min. at 94°C, 1 min. at 50°C, 1 min. at 72°C). 5 min. at 72°C.

Roman, J. and Palumbi, S. R. (2004). A global invader at home: population structure of the green crab, *Carcinus maenas*, in Europe. *Molecular Ecology* **13**, 2891-2898.

Table S2. Tests of Hardy-Weinberg expectations and linkage in nuclear markers. Cells with “nv” indicate that there was insufficient variation for the test.

A. Tests of Hardy-Weinberg expectations by site.

Site	<i>UBE2H</i>		<i>SMC</i>	
	F_{IS}	P	F_{IS}	P
Isle of Shoals	nv	nv	-0.077	1.000
Harpwell	0.179	0.226	-0.004	1.000
Kent Island	0.256	0.117	-0.042	1.000
Halifax	0.250	0.575	nv	nv
Pomquet	0.187	0.123	-0.012	1.000

B. Tests for linkage between *UBE2H* and *SMC* by site

Site	P
Isle of Shoals	nv
Harpwell	0.722
Kent Island	0.570
Halifax	1.000
Pomquet	1.000