

TITLE: Multiple drivers of interannual oyster settlement and recruitment in the lower Chesapeake Bay
 JOURNAL: Conservation Genetics
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Electronic Supplementary Materials 2: Single nucleotide markers and primer sequences used.

Marker name	Putative Gene	SNP	Reference	Genebank	ASP1_primer
arp_133	Agrin precursor	A/G	Guo unpublished	CV088502	CTCGTTGCTGTAGGTGTGTCT
ba_83	beta-actin	C/G	Guo unpublished	CV087853	AGAGTTATTGCACATGAAGATTGTTCAC
bt_558	beta-tubulin	C/T	Guo unpublished	CD649126	CAGCCATCATGTTCTTGGCG
bty_288	beta thymosin	A/G	Guo unpublished	BG624734	ACATTCTTAATCCATACATAAAGAGAAAATAAAT
cm4_346	Calmodulin 4	C/T	Guo unpublished	CV088142	CCATATGATGCATGCCCAGG
dap_330	death-associated protein	C/T	Guo unpublished	CV088244	CATGTGTTGGAAGAGGTTTCTCG
fab_160	fatty acid binding protein 7, brain, a	C/T	Guo unpublished	CV088529	TCCATGTTGGGCTGGTTTTTG
fad_185	fatty acid desaturase	C/T	Zhang & Guo 2010	CV088676	CCATAACCGGAAATTGTACCAC
glup_354	glucose transport protein	C/T	Zhang & Guo 2010	CD650160	GCCTGGAACTTTGAAAGTTCCTC
hsp27_122	heat shock protein 27	G/T	Zhang & Guo 2010	CD648461	ACCTACTGGCGTACATGCTG
hsp6_205	heat shock protein 6	C/T	Zhang & Guo 2010	CV089090	CAGTTCATGGGAAGCCAG
hsp70_237	heat shock protein 70	C/T	Zhang & Guo 2010	CD649237	GTCAATACCCTCATACAGAGAGTCCG
hsp70_450	heat shock protein 70	C/T	Zhang & Guo 2010	CD649237	GATGGATTTGTTTCAGTTCCTTCCG
idh_313	isocitrate dehydrogenase	A/G	Guo unpublished	CD647562	GTGATTGTTGCGCACTTGACT
ldl_185	LDL receptor	G/T	Guo unpublished	BG624806	GTGTATGTCGACGGTCCAGG
mac_449	methyl-accepting chemotaxis sensory transducer	A/T	Guo unpublished	CV089079	GGAGCTGACTCATCTTCTGCAT
mt_iii_465	metallothionein	C/G	Zhang & Guo 2010	DQ354066	GTTTCCACAGGTTATGTTGTCTTG
myc_80	Myc homolog	G/T	Guo unpublished	CV087098	GCCTAGCCTGCCGTCG
myc1_194	Myc homolog	A/C	Zhang & Guo 2010	CV087464	CATCTCTCCAGCTACACAGACATA
myc7_373	Myc homolog	C/T	Zhang & Guo 2010	CV087426	CAAATGTCCAATCTACCCACCG
mych_289	Myc homolog	A/T	Guo unpublished	CV088537	AGTAGGCTTGCAATTTCTGTGT
not1_322	not characterized	G/T	Zhang & Guo 2010	CV089070	GAAGTAGTGCAAACCACGGG
nss_417	No significant similarity found	C/T	Guo unpublished	CD647187	AAGCTGAAAGACAAGTTACTAAACACTTG
nss1_228	No significant similarity found	A/G	Zhang & Guo 2010	CV087231	TCAGAGTTTTCTATCTCATTAGGAGGA
nss2_198	No significant similarity found	A/T	Guo unpublished	CD647833	GGTGTGCCCTTCACAGCT
pl_514	pancreatic lipase precursor	A/G	Guo unpublished	CV088499	GATCGAAGAGTTGTCGTCCGTA
prp_198	prolactin-related protein 3	A/G	Guo unpublished	CV088332	GGAAATACAAGTCATGTCCCGCT
pt_473	putative alpha-tubulin	C/T	Zhang & Guo 2010	CD648182	CTGGAGACCGGTACTACTGG
rpl_176	ribosomal protein L17A	A/C	Guo unpublished	CV088434	GTCGCTTGAACAGAATGCCA
rpl13a_183	ribosomal protein L13a	G/T	Zhang & Guo 2010	CD648271	GAAGGTCTTAAAGTACCTGAGACTG
rpl19_537	ribosomal protein L19	A/C	Zhang & Guo 2010	CD648717	TGCTTGATGCGCTCTTCTCT
rpl7_234	ribosomal protein L7a	A/C	Zhang & Guo 2010	CD647971	GATGCAGAGACTGAAGTTCCA
rpl9_451	ribosomal protein Lp	C/T	Guo unpublished	CV088640	CAATGTCATTGCCCTCCAAGATGAG
rpo_422	ribosomal protein P0	C/T	Guo unpublished	CD649901	GCTCCCCTGGATGTCCAC
rpp2_171	ribosomal protein P2-like	C/T	Zhang & Guo 2010	CD649790	AATGTTCTTTCCTTTCAGTTCACCG
rps15_301	ribosomal protein S15	A/T	Zhang & Guo 2010	CD646628	ATCATTGTCCCAGAAATGATCGGA
rps23_327	Ribosomal protein S23	C/T	Zhang & Guo 2010	CD647577	GATTTGGTAGAAAAGGTCACGCC
stp_470	outer dense fiber of sperm tail protein 3	C/T	Guo unpublished	CD650129	CCACCCTGCCTACAGCTTC
tf_393	Transcription Factor AP-1	A/T	Zhang & Guo 2010	BG624651	AGTGGTGGTTACCATTCGGTTT
unk_399	No significant similarity found	A/T	Guo unpublished	CD646719	TTGACCGCTGGATGTTCTTAA
upp_263	unnamed protein product	A/G	Zhang & Guo 2010	CV087497	GTGTCACGAACTTCTTATGTTTGGA

Marker name	ASP2_primer	LSP_primer	STA_primer
arp_133	TCGTTGCTGTAGGTGTGCC	GCCTGTCCGATGACCTGGA	TGGTGACCTGGAGTTACA
ba_83	AGAGTTATTGCACATGAAGATTTGTTCCAG	CCCATCCATCGTCCACAGGA	GTATTCCGCTCTCAAACAGTCA
bt_558	CAGCCATCATGTTCTTGGCA	GAGCCCTCACAGTCCCAGA	CGTGACGTGGGTCGCA
bty_288	ACATTCTAATCCATACATAAAGAGAAAATAAAC	GGCTATAACAATGGTCTCTATTTTTGCT	ACCATTCAATTGAACAACATATGCTCT
cm4_346	GCCATATGATGCATGCCAGA	ACATCACGTCTGACGGGTGT	GTTGTCATGGTCAGTGTCCATC
dap_330	TCATGTGTTGGAAGAGGTTTCTCA	CCCCAGCAGCTGTAAGAG	CTTTGTTAGGAGGAGTCTATTGTC
fab_160	TCTCCATGTTGGGCTGGTTTTTA	GGTCCCAGAAAACCTGCGAG	CCACGAGTACCAGGAT
fad_185	CCATAACCGGAAATTGTCACCAT	TGGCCGTGTTACAGCCCA	GCCCCGAAAAGAAAATTTATTTTGGGA
glup_354	GCCTGGAACTTTGAAAAGTTCCTT	CTTCGGAATGGCTTGCCGTC	CCCAGTAGCGAGGAACGATA
hsp27_122	GACCTACTGGCGTACATGCTT	GGTTGCCAGCTCGTCC	CGTACCAGACCATGCCTATG
hsp6_205	GCAGTTCATGGGAAGCCAA	GACTGTGTCAGTGCACAGGC	GCTCCGGCAGACATAGC
hsp70_237	AGTCAATACCCTCATAAGAGAGTCA	TGTCCTCCAGCTCTCAGGC	GCCCTAGTGATGCTAGTGTAAAAG
hsp70_450	GATGGATTGTTCAAGTTCCTTTCCA	GGGTCCACAGTATCCCCA	CAACAGCTCATCAGGGTT
idh_313	TGATTGTTGCGCACTTGACC	CATTGATGCAGCTTTGGCCAC	TGACACGTTCTCATCAGGAG
ldl_185	GTGTATGTCCGACGGTCACT	GGGTTACCCTGACATTTCCA	CGGATGAGGACGACTTCATG
mac_449	GGAGCTGACTCATCTTCTGCAA	CGCTCTTGACAAAAGTCGTGCA	GGTTCCTCTTTCTGGAGTGC
mt_iii_465	GTTTCCACAGGGTATTGTTGTCTTC	TGCCGTGTGCAAAAAGTGGAA	GCGTTACTCAACATTTCAATTAECTG
myc_80	GCCTAGCCTGCCGTCT	CACTTTGGTTGAGGACAGCACA	CCCAAGTGTCTGAGCTGG
myc1_194	ATCTCTCCAGCTACACAGACATC	CCCATCATGTGAACACCTCC	GGTTTGATCCAGTCGCATC
myc7_373	CCAAATGTCCAATCTACCCACCA	GGAAATGGCAACCTTGCGACA	GATGGGAGAATACAAATGTGTATCCA
mych_289	AGTAGGCTCTGCAATTCTGTGA	GGCATCTATGCTCCATGGGC	GGTCAACACTTGGCAATATCCA
not1_322	GGAAGTAGTGCAAAACCAGGT	GGTTCGAAAAGAACTGGGCC	CTGCTGTAAAACGTCAGGAGC
nss_417	CAAAGCTGAAAGACAAGTTACTAAACACTTA	GGGTTTATAGTGCCACAAAATTTATAATTCAGTTGA	AGTTGATTGAACAATTTTACTGAGCTCT
nss1_228	CAGAGTTTTCTATCTCATTAGGAGGG	CTAGATAACCTAAAAATCAATGTGTATTGTTGTAGAAAA	GGCAAAGTGATTATATGCGCAGT
nss2_198	GGTGTGCCCTTCACAGCA	AAACCCCTGATTTTTATCTATGGAGACCT	ACTTCGTAACATGGAGGTTAGTGT
pl_514	TCGAAGAGTTGTCGTCCGTG	CCCAAGCTGTGCCCCAATGA	GGGCTTATCTGCGCAAACT
prp_198	GAATACAAGTCATGTCCCGCC	TGGGCTGGAAGAGCATCCT	CCTCCTCTCTGAGGATTCA
pt_473	CCTGGAGACCGGTACTACTGA	GTCGACCTCGCTCGGACA	CTGTGGAAGATGAGGAATCCC
rpl_176	GTCGCTTGAACAGAATGCC	TGGCAACAACATGTCCCCAG	GTCATTGCTGTGAGCGGATATA
rpl13a_183	GAAGGTCCTAAAGTACCTGAGACTT	ACCTCTGGAGGGTTTACGCTT	GGGAAACTTCTACAGGAACAACT
rpl19_537	GCTTGATGCGCTCTTCTCG	CCGAGTCCAGAAGACAGAGAGT	GAGCATCTCTCTCTTCTTCTGC
rpl7_234	ATGCAGAGACTGAAGGTTCCC	TGTCAAGAGTTTGCATCCACTGA	CGCCAACGAGCTGTGTT
rpl9_451	CAATGTCAATGCCTTCCAAGATGAA	AGCATCAAGGCCTCACACA	AGCTGATGTAGACACAGCCTC
rpo_422	GCTCCCCTGGATGTCCAT	AAGAGGTTTTCTCAGGCCCA	CAAGGCCGGTGTCTCT
rpp2_171	CAATGTTCTTTCTTTCAGTTCACCA	TGACTGTGAGGCTGATAAAATCACCA	CTTGACCTTTAGTGATGAGTCTTCA
rps15_301	TCATTGTCCAGAAATGATCGGT	CCTGGTTGAAAAGTCTTGCCGT	GACACACCTGCGTAACATGA
rps23_327	GATTTGGTAGAAAAGGTCACGCT	TTGAAGCGGACCCGGGA	ACGATGAAGTTTTGGTCTGCTG
stp_470	CCACCCTGCCTACAGCTTT	CTGTTTCTGTGCGGGTCC	ACCCACCGCTCACTCC
tf_393	GAGTGGTGGTTACCATTCCGTTA	GCTCAAATTTGGCTTACCAGAACT	ACTGGGTGGTGTGGA
unk_399	TTGACCCTGGATGTTCTTAT	CTGCGTTGGCAGTAACAGCA	CCTGGATATCCAGGGAGATTGT
upp_263	GTGTCACGAACTCTTATGTTTGGG	CCACTGATGCGGTTAGTAGCT	ACTCAAACTTTATGCTTGGTGTCA

Literature cited:

Zhang L, Guo X (2010) Development and validation of single nucleotide polymorphism markers in the eastern oyster *Crassostrea virginica* Gmelin by mining ESTs and resequencing. *Aquaculture* 302 (1–2):124–129. <https://doi.org/10.1016/j.aquaculture.2010.02.012>