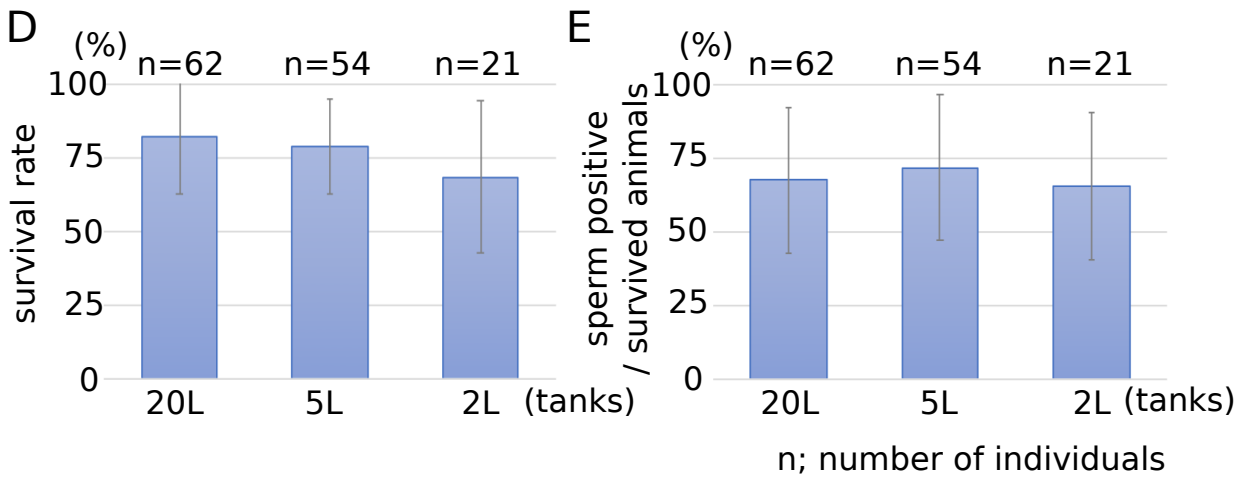
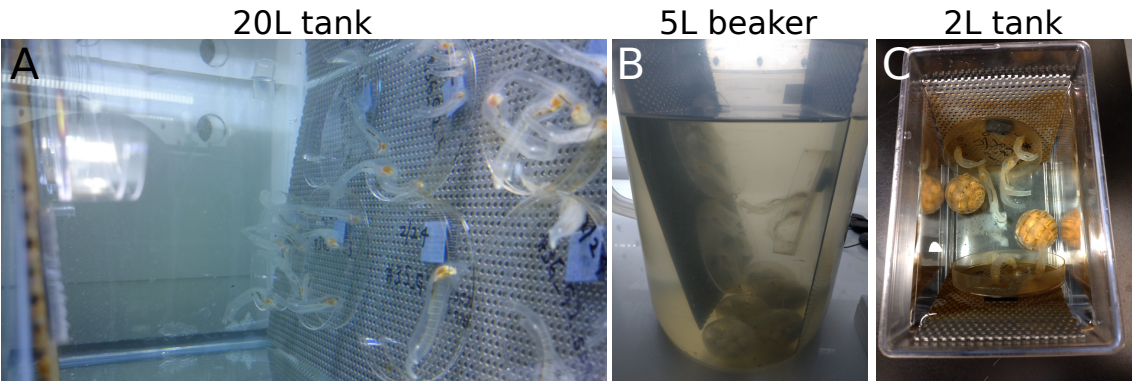
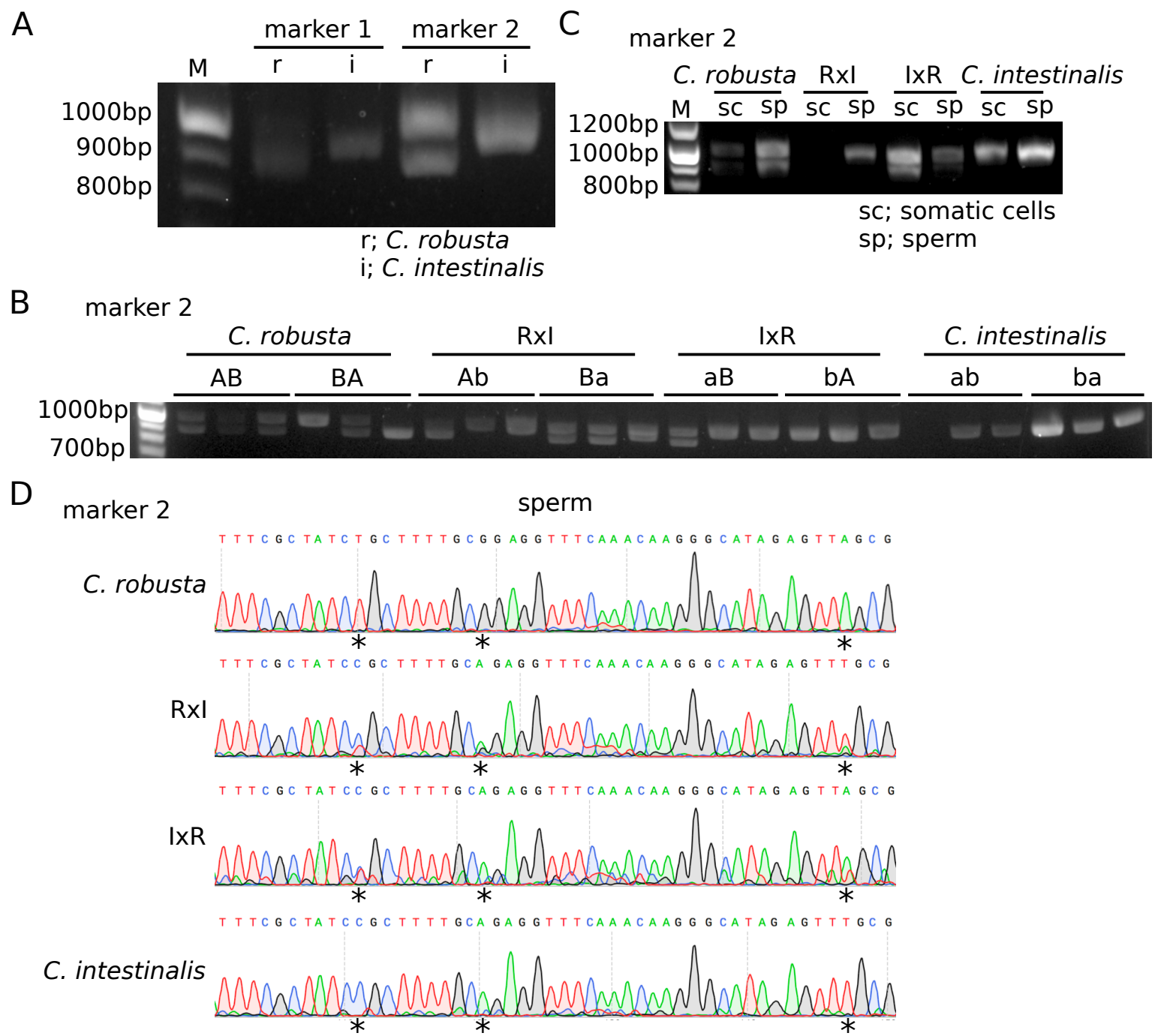


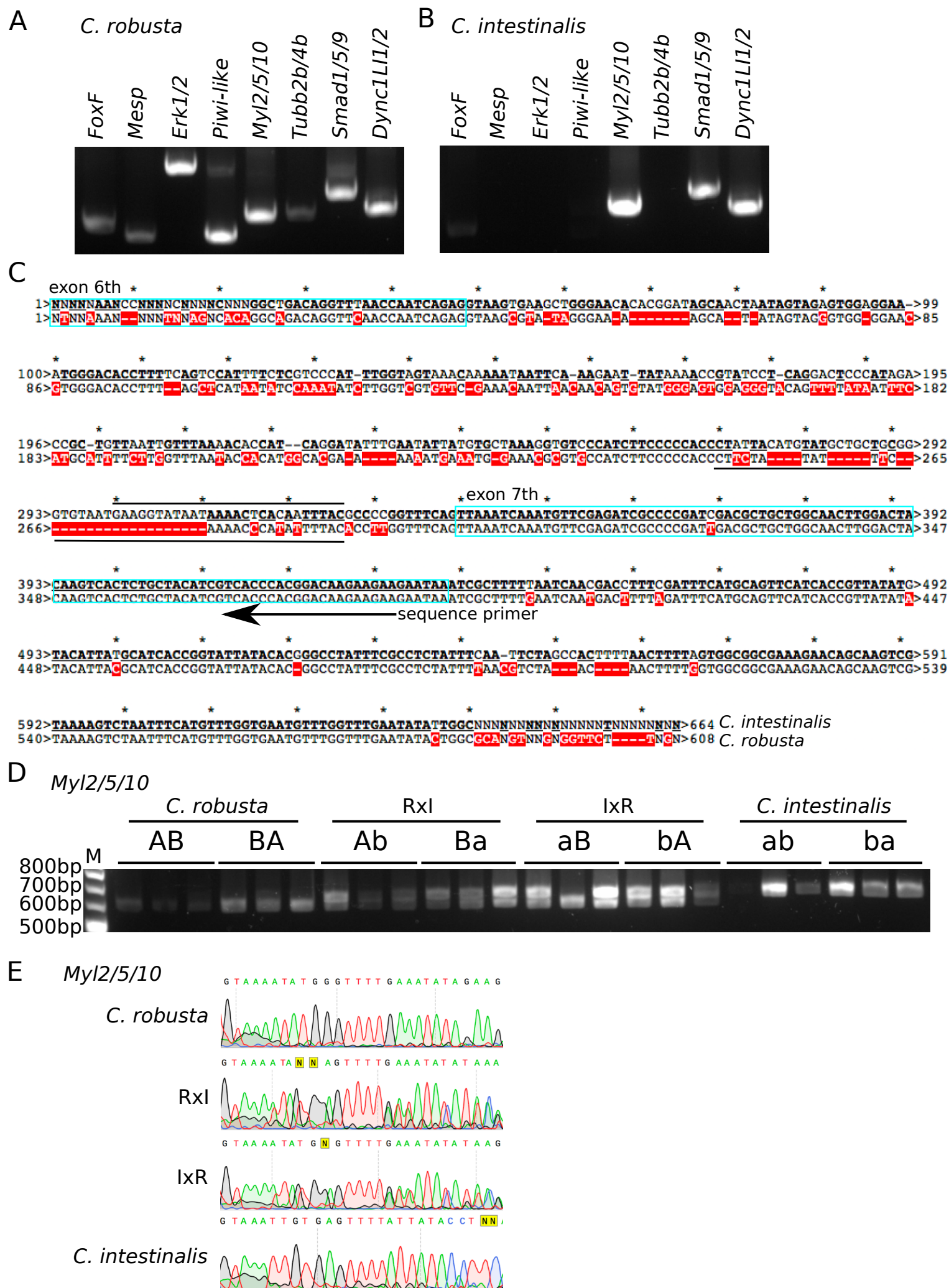
Supplemental Figure.1 Inland culture System



Supplemental Figure.2 M2 locus



# Supplemental Figure.3 F1 genotypingMYL



# Supplemental Table.S1 Primers

gene name	primers sequence	
<i>FoxF</i>	Forward	5'-GAATTCGTCGCGCCACAATC-3'
	Reverse	5'-AGTGGAACCTCAGCACAGT-3'
<i>Mesp</i>	Forward	5'-TGTTTTGGGGATAAATGGGGA-3'
	Reverse	5'-GACACACATTGGTTAACGGGT-3'
<i>Erk1/2</i>	Forward	5'-CCGTTACTACACTTGTTCGCGC-3'
	Reverse	5'-ACTCATGGGCGCTTGATTT-3'
<i>Piwi-like</i>	Forward	5'-GGAACCATTCGTGTACCAGC-3'
	Reverse	5'-GTTTCTATTGCCACCCACGG-3'
<i>Myl2/5/10</i>	Forward	5'-GAAATCCTCACGACACAGGC-3'
	Reverse	5'-CAAGAACACAAAACCTGCGC-3'
	Sequence	5'-TTCTTCTGTCCGTGGGTGA-3'
<i>Tubb2b/4b</i>	Forward	5'-TTGGCGAGATTTTCAGGTGC-3'
	Reverse	5'-CCTGTGTGCATATTCCTTGGT-3'
<i>Smad1/5/9</i>	Forward	5'-GTCGATCATTTTGCCAGCT-3'
	Reverse	5'-GGATCGGCGTGTCAAATCA-3'
<i>Dync1L1/2</i>	Forward	5'-CACCAGGAAACATGTGCAAGA-3'
	Reverse	5'-GCGATGGACTGAAACACACA-3'
Marker 1 (Suzuki et al., 2005, J. Mol. Evol.)	Forward	5'-TGATTTACTATTTTCAACG-3'
	Reverse	5'-CTCCACTGCTAGCAACTGC-3'
Marker 2 (Suzuki et al., 2005, J. Mol. Evol.)	Forward	5'-GTGTCTTAGAAGAGGAGAAT-3'
	Reverse	5'-CTTTGTCCACTGAGAGCACT-3'



Supplemental Table.S2 Sumary BC2

BC1 type	father	mother	fertilization rate	hatched larvae	survival rate (28dpf)	(28dpf/5dpf)	size at 28dpf (mm)
(RxI)xR	(R2I1)2xR10	R28	25%	1000<	66.7%	(2/3)	1.5,7
		R29	100%	1000<	66.7%	(4/6)	1.5,3,4,5
		R30	94.90%	1000<	100%	(3/3)	2.5,4,5
(IxR)xR	(I1R2)2xR11	R28	100%	1000<	91.7%	(11/12)	2.5,5,5,5.5,6,7,2.5,3.5,6,1.5,3
		R29	100%	1000<	83.3%	(10/12)	2,5.5,5,5,7,5,4.5,2,5,6.5
		R30	97.30%	500<	83.3%	(5/6)	2,1.5,7,4,1.5