

Supplementary Table S1: A summary of all microsatellite markers used in this study. Markers were obtained from (Nguyen, et al. 2011).

<i>Primer name</i>	<i>Primer sequence 5' -3'</i>	<i>Amplicon size</i>	<i>Optimal ann. temp.</i>
<i>MgU2-HEX F</i>	GGGATCGTTCAATAAGTTC	80-100 bp	45°C
<i>MgU2-HEX R</i>	AAATTTTACTGAATAAATAAATCG		
<i>MT203-HEX F</i>	GTTTTCCGAATGGCGAGAT	170-190 bp	45°C
<i>MT203-HEX R</i>	ACAACCAGTTCAATAGCGACA		
<i>MGE005-FAM F</i>	CGTTGCCATCGTTTATTTT	240-250 bp	45°C
<i>MGE005-FAM R</i>	GTTGTAAGTCGTGTTGGTTCA		
<i>Med744-HEX F</i>	TTTTTTCATCGTGTTTGGTTG	190-250 bp	45°C
<i>Med744-HEX R</i>	CGCCATGGAATAGCCAATAG		
<i>My048-FAM F</i>	ACGCACCAAGACTGTAACAA	170-230 bp	50°C
<i>My048-FAM R</i>	TCCCACATAGACAACAACCA		
<i>MgU3-HEX F</i>	AAACTAAAACTTCATCTAATCCC	130-140 bp	45°C
<i>MgU3-HEX R</i>	AAGCAATCCAAAGTGAGAGG		

Nguyen T, Hayes B, Guthridge K, Ab Rahim E, Ingram B. 2011. Use of a microsatellite-based pedigree in estimation of heritabilities for economic traits in Australian blue mussel, *Mytilus galloprovincialis*. *Journal of Animal Breeding and Genetics* 128:482-490.