

**Supplementary information**

**Title of the manuscript:**

**Relationship of the orange tissue morphotype with shell and pearl colouration in the mollusc *Pinctada margaritifera***

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**Supplementary table S1.** Set of forward and reverse primers used for gene expression analysis by quantitative RT-PCR in graft and pearl sac tissues of *Pinctada margaritifera*.

GenBank			
Primer name	Accession numbers	Forward primer (5'-3')	Reverse primers (3'-5')
pdz	JZ845584	TGAGCTTCAGAGAGGTGACG	AACATTTGGTGAGGGTTTGG
shem4	JZ845594	GCTTCCCATCGGTTTATGG	TGCCAACATTTCCGTATCC
serp	JZ845608	AGGTGTGTACCATTCTTCTACGG	GCAAACATCTCCTCCATCTCC
zinc	JZ845609	CAGAGATGGTTTTGTGTTACTTACG	GCTTTGAGGCATTCATGTCC
krmp7	JZ845792	GCCTTCACCACAGAAGGAAG	GCCGAATTTCTTCAGACACC
tyr2A	JZ845579	GCGGCTCTACTGTCAAATGG	CTGGACCTTTCAGGGACTGG

**Supplementary table S2.** Candidate gene ontology informations through Uniprot database search. First line for each gene correspond to accession number, second line to name, third line to ontology and fourth line to synonyms.

Gene	Ontology information		
tyr2A	GO:0005576 extracellular region cellular_component extracellular	GO:0046872 metal ion binding molecular_function metal binding, heavy metal binding	GO:0016491 oxidoreductase activity molecular_function redox activity, oxidoreductase activity, acting on other substrates
serp	GO:0005576 extracellular region cellular_component extracellular	GO:0004867 serine-type endopeptidase inhibitor activity molecular_function serine protease inhibitor activity, serpin	
zinc	GO:0005576 extracellular region cellular_component extracellular	GO:0004222 metalloendopeptidase activity molecular_function metalloendoprotease activity	GO:0008270 zinc ion binding molecular_function zinc binding