Insights into the synthesis, secretion and curing of barnacle cyprid adhesive via transcriptomic and proteomic analyses of the cement gland

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**Supplementary informations**

**Figure S1.** All-unigenes classification. A. Functional classification of GO-annotated unigenes. B. Functional classification of COG-annotated unigenes.

**Figure S2.** Sequence alignment of cp100k homologues from different species.Mvcp113k (MK336236) and Mvcp130k (MK336237) from *Megabalanus volcano*, Aacp100k (AGS19349.1) and Aacp114k (AKZ20818.1) from *Amphibalanus amphitrite*, Mrcp100k (BAB12269.1) from *Megabalanus rosa*, and Tjcp100k from *Tetraclita japonica formosana*. The homology level of the sequences =100%, ≥75% and ≥50% are shaded in black, pink and blue, and conserved domains are boxed in red rectangle.

**Figure S3.** CDD analysis of the lipid-binding proteins. A. CDD analysis of Mv-FABP1 (Unigene13631\_All). B. CDD analysis of Mv-FABP2 (Unigene3904\_All).

**Table S1.** List of predicted transcription factor-coding unigenes that were upregulated in the cement gland transcriptome.

**Table S2.** List ofpotential novel cement proteins.

**Table S3.** Amino acid composition of cp100k homologues from different species.

**Table S4.** Classification of all the enzyme-coding unigenes in the cement gland transcriptome.

**Table S5.** List of enzymes involve in chitin synthesis and degradation.

**Table S6.** List oflipid-binding proteins identified in the cement gland proteome