

Table S1. Unigenes from the 3 SSH libraries with homology to biomineralization related genes.

Table S1. A. The unigenes with homology to biomineralization related genes in the D-T library.

Unigene name	cDNA length (bp)	Homologous genes No.	E-value	Homologous genes
DT_Cluster10	281	gi 157114029	3.00E-16	Fibrinogen and Fibronectin [<i>Aedes aegypti</i>]
DT_Cluster160	540	gi 152205944	2.00E-15	Chitin synthase [<i>Pinctada fucata</i>]
DT_Cluster236	154	gi 31790121	2.00E-10	Nicotinic acetylcholine receptor alpha 9d subunit [<i>Takifugu rubripes</i>]
DT_Cluster279	286	gi 241726688	1.00E-14	peritrophic membrane Chitin Binding Protein putative [<i>Ixodes scapularis</i>]
DT_Cluster527. seq.Contig1	344			
DT_Cluster281	269	gi 241818165	3E-16	cysteine-rich motor neuron, putative [<i>Ixodes scapularis</i>]
DT_Cluster32	320	gi 194669778	8E-13	Collagen, type XII , alpha 1 isoform 1 [<i>Bos taurus</i>]
DT_Cluster512. seq.Contig1				
DT_Cluster520. seq.Contig1	716	gi 198420236	3.00E-16	Collagen type VI alpha 6 [<i>Ciona intestinalis</i>]
DT_Cluster343	293	gi 193999217	2.00E-47	Heat shock protein 70 [<i>Pinctada fucata</i>]
DT_Cluster398	261	gi 93139010	4.00E-12	Ferritin [<i>Crassostrea ariakensis</i>]
DT_Cluster447	307	gi 126697410	2.00E-26	sialic acid binding lectin [<i>Haliotis discus discus</i>]
DT_Cluster550. seq.Contig1	291	gi 154816107	7.00E-28	C-type lectin-1 [<i>Crassostrea gigas</i>]

Table S1. B. The unigenes with homology to biomineralization related genes in the U-D library.

Unigene name	cDNA length (bp)	Homologous genes No.	E-value	Homologous genes
UD_Cluster193. seq.Contig1	476	gi 32563747	2.00E-06	Collagen family member (col-17) [<i>Caenorhabditis elegans</i>]
UD_Cluster81. seq.Singlet1	466	gi 4519619	4.00E-09	Collagen pro alpha-chain [<i>Haliotis discus</i>]
UD_Cluster67. seq.Singlet1	291	gi 154816107	1.00E-27	C-type lectin-1 [<i>Crassostrea gigas</i>]
UD_Cluster109. seq.Singlet1	324	gi 33333949	3.00E-50	Ferritin-like protein [<i>Pinctada fucata</i>]
UD_Cluster121. seq.Singlet1	461	gi 156399584	1E-40	Calmodulin [<i>Metridium senile</i>]
UD_Cluster160. seq.Contig1	216	gi 126697410	3.00E-14	sialic acid binding lectin [<i>Haliotis discus discus</i>]
UD_Cluster167. seq.Singlet1	374	gi 194217502	2.00E-06	calcium/calmodulin-dependent protein kinase kinase 1, alpha [<i>Equus caballus</i>]
UD_Cluster187. seq.Contig1	300	gi 33325246	5.00E-06	glycine-rich shell matrix protein (MSI7) [<i>Pinctada fucata</i>]
UD_Cluster80. seq.Singlet1	472	gi 196049300	5.00E-49	BMP5-8 [<i>Saccostrea kegaki</i>]

Table S1. C. The unigenes with homology to biomineralization related genes in the J-U library.

Unigene name	cDNA length (bp)	Homologous genes No.	E-value	Homologous genes
IU_Cluster13	216	gi 126697410	3E-14	sialic acid binding lectin [<i>Haliotis discus discus</i>]
IU_Cluster16	228	gi 93139010	2.00E-06	ferritin [<i>Crassostrea ariakensis</i>]
IU_Cluster36	269	gi 94471616	9.00E-41	soma ferritin [<i>Aplysia californica</i>]
IU_Cluster64. seq.Contig1	219	gi 33325246	1E-110	glycine-rich shell matrix protein (MSI7) [<i>Pinctada fucata</i>]
IU_Cluster7	218	gi 2204080	1.00E-111	mRNA for insoluble protein (MSI60) [<i>Pinctada fucata</i>]