Description of Additional Supplementary Files

Supplementary Data 1

Description: Transposable element content in the Hippocampus erectus genome.

Supplementary Data 2

Description: Summary of seahorse accessions.

Supplementary Data 3

Description: The 37 genes potentially under positive selection with accelerated nonsynonymous/synonymous rate ratio (dN/dS) on the branches of spiny seahorse lineages compared to non-spiny lineages using CODEML program in PAML.

Supplementary Data 4

Description: McDonald and Kreitman test (MKT) for three pairwise spiny and non-spiny sister seahorse species.

Supplementary Data 5

Description: Sampling probability of genus within Syngnathidae.