

Description of Additional Supplementary Data

Supplementary Data 1: Sample information and environmental parameters

Supplementary Data 2: Sequencing statistics of 42 metagenomic libraries.

Supplementary Data 3: Sequencing statistics of 53 metatranscriptomic libraries.

Supplementary Data 4: Occurrence of predicted total and secretory peptidases and CAZymes in the metagenome.

Supplementary Data 5: Occurrence of predicted total and secretory peptidases and CAZymes in the metatranscriptome.

Supplementary Data 6: Random forest prediction of prptidase families.

Supplementary Data 7: Random forest prediction of CAZyme families.