Title

A novel outer membrane protein involved in cellulose and cellooligosaccharide degradation by *Cytophaga hutchinsonii*

Running title

Cellulose degradation by *Cytophaga hutchinsonii*

Authors

Xiaofei Ji[1,2], Ying Wang[1], Cong Zhang[1], Xinfeng Bai[1], Weican Zhang[1] and Xuemei Lu[1]*

Authors' affiliation

[1] State Key Laboratory of Microbial Technology, School of Life Science, Shandong University, Jinan 250100, China

[2] Department of Pathogenic Biology, Binzhou Medical University, Shandong Province, Yantai 264003, China

*Corresponding author. Address: State Key Laboratory of Microbial Technology, School of Life Science, Shandong University, Jinan 250100, China.

Tel: +86-531-88369495.

Fax: +86-531-88565610.

E-mail: luxuemei@sdu.edu.cn

Fig. S1. Growth curve and the changes of cellobiose and glucose in the cellobiose culture. A, Growth curve of the wild type of *C. hutchinsonii* (WT) and changes of cellobiose and glucose in the cellobiose culture; B, Growth curve of the *CHU_1277* disrupted mutant (Δ*1277*) and changes of cellobiose and glucose in the cellobiose culture. Symbol indication: ●, wild type; ■, mutant; ○, glucose; □, cellobiose.

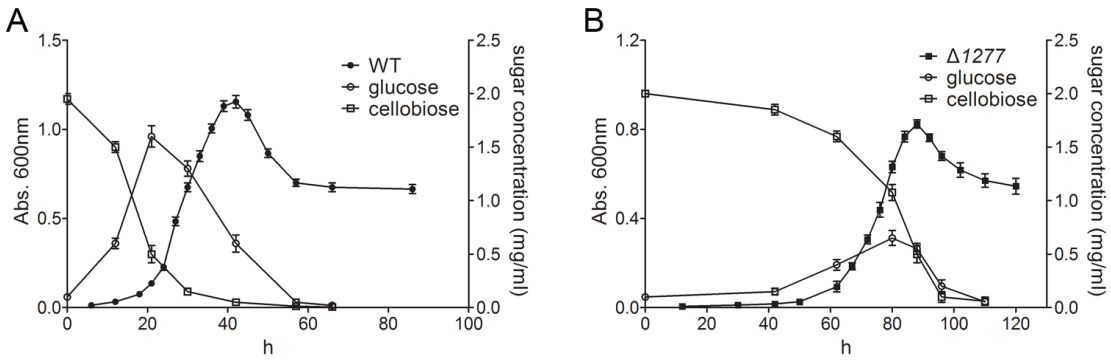

Fig. S2. Map of plasmid pCH.