

# Cloning of cold-adapted dextranase and preparation of high degree polymerization isomaltooligosaccharide

Huanyu Wang <sup>1,2</sup>, Qianru Lin <sup>1,2</sup>, Dongxue Dong <sup>1,2</sup>, Yingying Xu <sup>1,2</sup>, Mingwang Liu <sup>1,2</sup>, Jing Lu <sup>1,2,\*</sup>, Mingsheng Lyu <sup>1,2</sup>, and Shujun Wang <sup>1,2,\*</sup>

<sup>1</sup>Jiangsu Key Laboratory of Marine Bioresources and Environment/Jiangsu Key Laboratory of Marine Biotechnology, Jiangsu Ocean University, Lianyungang 222005, China

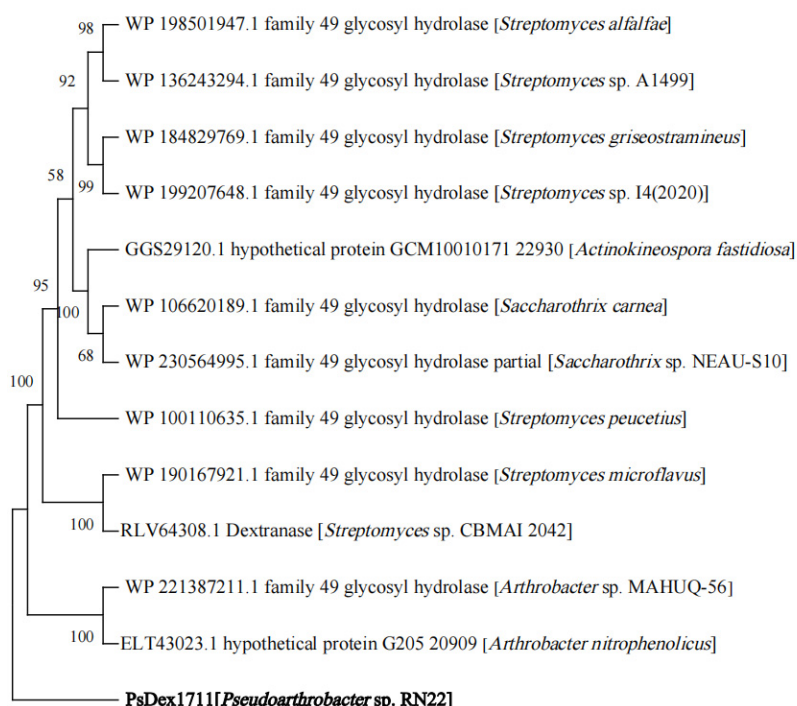
<sup>2</sup>Co-Innovation Center of Jiangsu Marine Bio-industry Technology, Jiangsu Ocean University, Lianyungang 222005, China

**\*Corresponding author.** Jing Lu and Shujun Wang, Jiangsu. Key Laboratory of Marine Bioresources and Environment, Jiangsu Ocean University, Lianyungang, 222005, PR China.

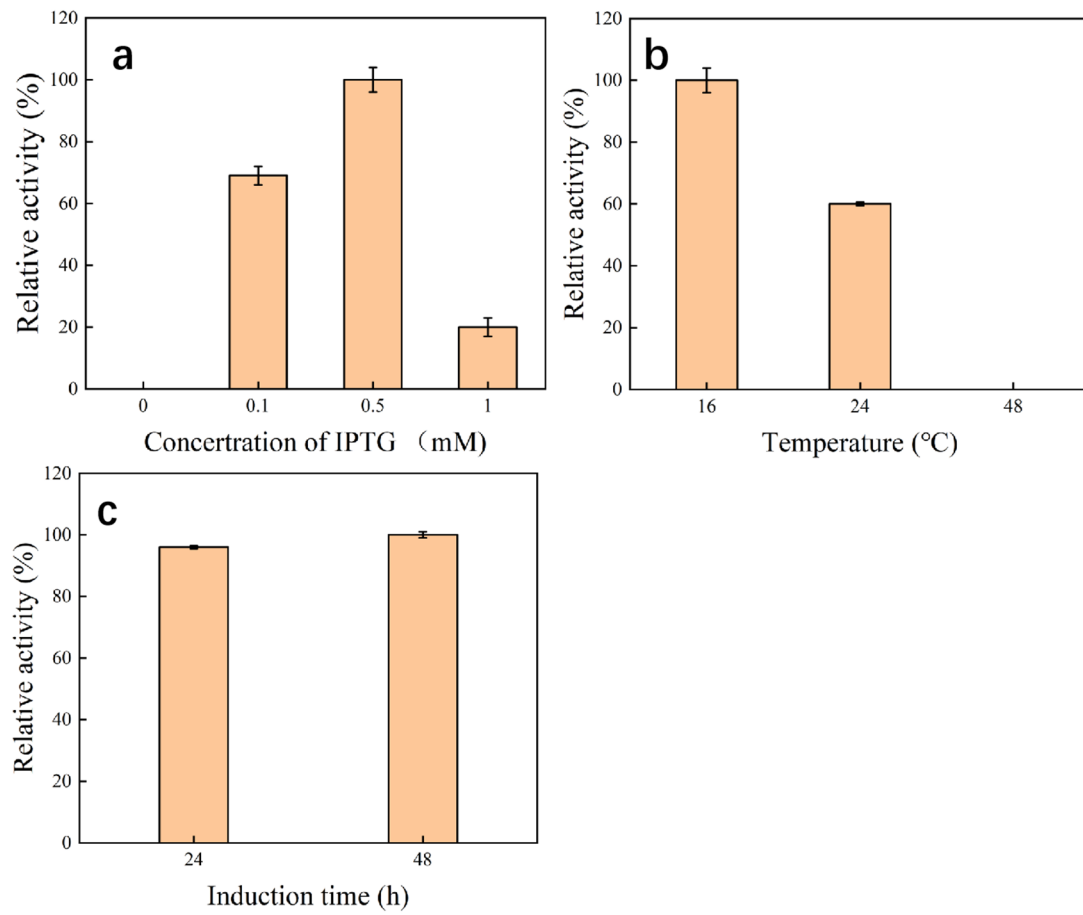
**E-mail addresses:** sjwang@jou.edu.cn ( S. Wang)

**Table S1.** Analysis of different components in commercial isomaltose.

	G	IMO2	IMO3	IMO4	IMO5	Impurities
CIMO-Zhejiang	9.11%	20.12%	19.53%	9.97%	12.15%	27.38%
CIMO-Shandong	5.32%	25.75%	25.72%	13.11%	11.68%	16.39%



**Figure S1.** Evolutionary tree analysis of PsDex1711.



**Figure S2.** Expression conditions of PsDex1711. (a) The effect of IPTG concentration on PsDex1711 expression; (b) The effect of temperature on PsDex1711 expression; (c) The effect of time on PsDex1711 expression.