Table S1. Primers used in this study.

Primers	Sequences(5′-3′)
bgp-F	ccgaattcgagctccgtcgacATGGAACCGCAGATGACCAA
bgp-R	gtggtggtggtggtgctcgagTTAGGCAAAAACTGCTGCATTC
YiaT-F	atgggtcgcggatccgaattcATGTTAATTAATCGCAATATTGTGGC
YiaT-R	catctgcggttccatgtcgacACGATCAATCATCGGGCTGT

Figure S1. Agarose electrophoresis diagram: (a) Lane M: Trans2K Plus II DNA Marker; Lane 1: plasmid pET28a-*bgp3* digested with *Xho* I and *Bgl* II; (b) Lane 2: plasmid pET28a-*yiaT-bgp3* digested with *Xho* I and *Bgl* II; Lane M: Trans2K Plus II DNA Marker.

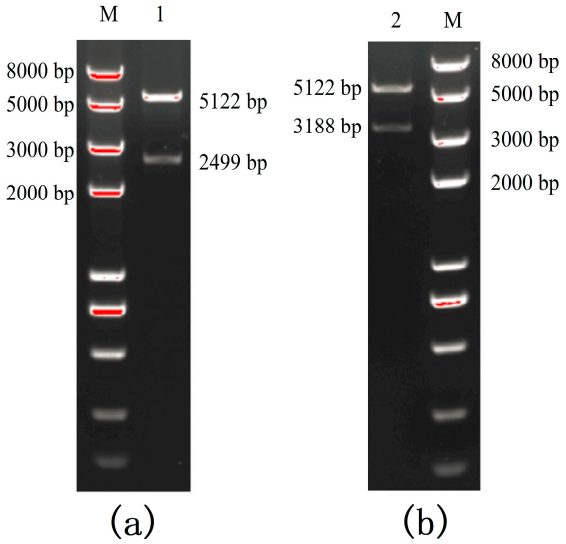

Figure S2. The effect of IPTG concentration on specific enzyme activity.

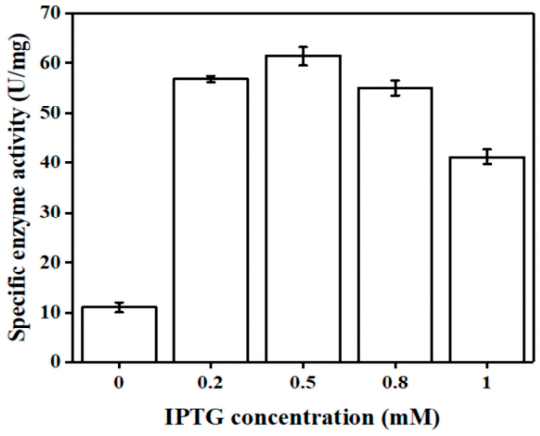

Figure S3. HPLC analysis: (a) Standard; (b) Sample (IPTG concentration: 0.5 mM; induction temperature: 16℃; ginsenoside substrate concentration: 15 mg/mL; catalytic temperature: 30℃; reaction time: 24 h).