



Figure S2. Mw of PpBGal42A determined by SDS-PAGE: M, Mw marker Blue Plus Protein Ladder, TransGen Biotech).

A.

- (1) culture lysate before IPTG induction;
- (2) 0.2 mmol concentration of IPTG after induction;
- (3) 0.5 mmol concentration of IPTG after induction;
- (4) 0.8 mmol concentration of IPTG after induction;
- (5) 1.1 mmol concentration of IPTG after induction.
- (6) Supernatant after crushing was induced by IPTG at 0.2 mmol concentration;
- (7) Supernatant after crushing was induced by IPTG at 0.5 mmol concentration;
- (8) Supernatant after crushing was induced by IPTG at 0.8 mmol concentration;
- (9) Supernatant after crushing was induced by IPTG at 1.1 mmol concentration.

B. (1).culture lysate before IPTG induction;

- (2) culture lysate after IPTG induction;
- (3) Supernatant after crushing
- (4) 5 mmol concentration of imidazole after elution of pure enzyme
- (5) 10 mmol concentration of imidazole after elution of pure enzyme
- (6) 20mmol concentration of imidazole after elution of pure enzyme
- (7) 25 mmol concentration of imidazole after elution of pure enzyme