

Table 1 Strains and plasmids used in this research

Strains and plasmids	Characterization	Origin	References
pMD18-T	AmpR	This lab	
pQE30	AmpR, T5 expression vector	This lab	
<i>E. coli</i> M15	AmpR , Nals, Strs, Rifs, Thi-,Lac-, Ara+, Gal+, Mtl-, F-, RecA+, Uvr+, Lon+ with KanaR	This lab	
<i>E. coli</i> JM109	<i>E. coli</i> recA1, supE44, endA1, hsdR17, gyr A96, relA1 thi $\Delta$ (lac-proAB)	This lab	
<i>Bt</i> W015-1	Wild strain of <i>B. thuringiensis</i>	This lab	Xie et al., 2010