

表 1 供试菌株和质粒

Table 1 Strains and plasmids used in this research

菌株和质粒 Strains and plasmids	特征 Characterization	来源 Origin
<i>B. thuringiensis</i>		
<i>Bt</i> W015-1	Wild strain of <i>B. thuringiensis</i>	This study
<i>Bt</i> HD73	Model strain of <i>B. thuringiensis</i> subsp. <i>Kurstaki</i> harbor <i>cryIAc1</i> gene	This lab
<i>Bt</i> HD1	Model strain of <i>B. thuringiensis</i> subsp. <i>Kurstaki</i>	This lab
<i>Bti</i> AND508	Mutant <i>B. thuringiensis</i> subsp. <i>Israelensis</i> is a derivative of AND406 cured of pTX14-2 and pTX14-3	This lab
<i>Escherichia coli</i>		
<i>E. coli</i> JM110	Dam, dcm, supE44, hsdR17, thi, leu, rpsL1, lacY galK, galT, aratonA thr, tsx, D (lac-proAB) (F0, traD36, proAB, lacI q ZDM15)	Novagen
<i>E. coli</i> M15	Nal ^s , Str ^s , Rif ^s , Thi ⁻ , Lac ⁻ , Ara ⁺ , Gal ⁺ , Mtl ⁻ , F ⁻ , RecA ⁺ , Uvr ⁺ , Lon ⁺ with KanaR	QIAGEN
Plasmids		
pMD18-T	Amp ^R , AT-easy clone vector	Takara
pMDK2	Amp ^R pMD18-T vector harboring PCR fragment by primer pairs of K5un2/K3un2	This study
pMDK3	Amp ^R pMD18-T vector harboring PCR fragment by primer pairs of K5un3/K3un3	This study
pMDIS	Amp ^R pMD18-T vector harboring PCR fragment by primer pairs of <i>cry1I5/cry1I3</i>	This study
pQE-30	Amp ^R , T5 promotor, expression vector	QIAGEN
pQE1Ac22	Amp ^R , pQE-30 vector carrying <i>cryIAc22</i> gene	This study