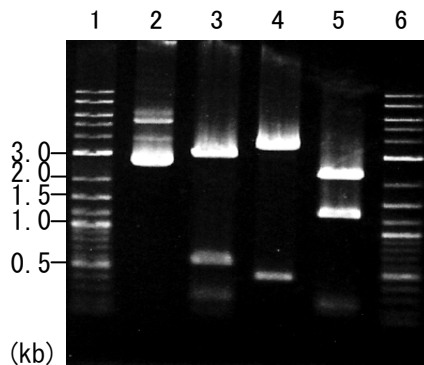


Plasmid name: pBSII_Tr-cip1 (RDB No. 8145)
Alternative name: pBSII_Tr017
Backbone plasmid: pBluescript II SK (+)
Selection: ampicillin
Plasmid size: 3918 bp
CDS size: 951 bp

1. Restriction enzyme digestion

Working #: BM0075

reaction volume: 10 ul
DNA: 300 ng of plasmid DNA
restriction enzyme: 10 to 15 units



Lane

1: Size marker
2: uncut plasmid DNA
3: plasmid DNA with *Sa*I digestion
(2961, 567, 262 and 128 bp)
4: plasmid DNA with *Sma*I digestion
(3464 and 454 bp)
5: plasmid DNA with *Bg*II digestion
(2241, 1167, 238 and 172 bp)
6: Size marker

Electrophoresis: 1% agarose gel, 1x TAE buffer
Size marker: 2-Log DNA Ladder (250 ng/lane; Cat.# N3200L, NEB)

2. PCR Amplification of inserted CDS

Working #: BM0118

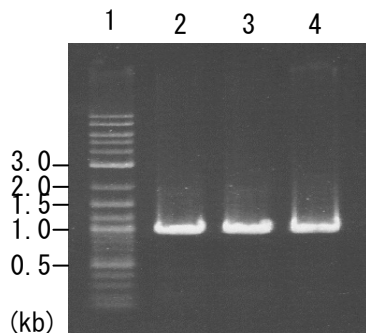
PCR conditons

Template: 1 ng of plasmid DNA
Enzyme: KOD Plus (Cat.# KOD-201, Toyobo)
Volume: 25 ul

Reaction program: 95°C, 5 min.
95°C, 30 sec.
62, 64 or 66°C, 30 sec. } x 30 cycles
68°C, 2 min.
68°C, 5 min.

PCR primer set

·Tr017-Fa1:
ccccctcgaggtcgacATGGTTCCGCCGACTG
·Tr017-Ra2:
tatcgataccgtcgacTTATAAGCACTGGGAGTAGTATGGGT



PCR product size of target (bp): 983

Lane

1: Size marker
2: annealing Temp. : 62°C
3: annealing Temp. : 64°C
4: annealing Temp. : 66°C

Electrophoresis: 1% agarose gel, 1x TAE buffer
Loading DNA amount: 2 ul of PCR product per lane
Size marker: 2-Log DNA Ladder (250 ng/lane)