

Bacillus anthraci

Ba813 gene

1. The sequences of the ss-DNA template is as follows:

tgatgggattctttctgacttggaaatagcttgctgatacggatagaaacctggcattaaaagactcattgagtaactcgtaatg
ctcaaattctgtgttctgtattccctccaaatgtaggagctatcgtttgtccccctgggaaattctctgtataacgatgtaaatt
cggcactggatcttcgctaaatgaaagattcgttagttttgtcggatccaaa

The red zone is the function area. The sequences following the red zone are not reproduced during amplification.

2. The complete template is linked from short chains as follows:

Chain1:

tgatgggattctttctgacttggaaatagcttgctgatacggatagaaacctggcattaaaagactcattgagtaactcgtaatg
ctcaaattctgtgttctgtattccctccaaatgtaggag (128 bp)

Chain 2:

ctatcgtttgtccccctgggaaattctctgtataacgatgtaaattcggcactggatcttcgctaaatgaaagattcgttagttttg
tcggatccaaa (99 bp)

Chain 3:

cag ggg gac aaa cga tag ctc cta cat ttg gag gga

Chain 3 is used to join the end of chain 1 to the beginning of chain 2. The sequences (red zones) are complementary.

2. The sequences of primers are:

Ba813R1: tatacagagaatttcccaggg

Ba813R2: tatacagagaatttcccagggcattcggacaaacgatagctcctaca

Ba813F1: gatgggattctttctgactt

Ba813F2: gatgggattctttctgacttgcattcggaaatagcttgctgatacgg

The red zones are the recognition sites for nicking endonucleases.