

Construct	Fw primer	Rev primer	Restriction enzymes	Template DNA
1) 77% GC content	TTTTGCGGCCGCCA GGCCACCCCTCG TGA	TTTTCTCGAGGGGAC CACAAAGCCAGAA TTCACGGCTG	NotI + XhoI	pSuperCos1- Streptomyces Clavuligerus DNA
pSuperCos1- Streptomyces Clavuligerus DNA	CACACAGCGCCGC CCAGGCCACCCCC TCGTGGACGAG	CACACAGGATCCGG CTTCCGCCGGTGC GGCTCAGTCAC	NotI + BamHI	Streptomyces Clavuligerus DNA
pSuperCos1- Streptomyces Clavuligerus DNA	CACACAGGATCCCC GGGTGTCCTCGGCTT CCTG	CACACAGAATTCAC GGCTGAACTGGTT CTCTCCCG	BamHI + EcoRI	Streptomyces Clavuligerus DNA
2) 58% GC content	TTTTGCGGCCGCACA GTAATTACGGTGCTG CGCTGGAGAAACAG GG	TTTTCTCGAGCGCCG TTAACCCGGACGTG CTGA	NotI + XhoI	Unmethylated cl857 Sam7 Lambda DNA
3) 42% asymmetric spread of GC content	TTTTGCGGCCGCTCC GTGGTGGCACAGAG TACGGCAGA	TTTTCTCGAGAGAGT TTCTGCGCAGTTAA TCGAACAAGACCCG T	NotI + XhoI	Unmethylated cl857 Sam7 Lambda DNA
4) 42% GC content	TTTTGCGGCCGCCG AAATTTTCTTCATAA TAAAAGTTAAAAGCC GCATCTCTCGCTACA GC	TTTTCTCGAGAAGTG ACGGAAGTGGATTT GGATGAAACGGTTC ATACAACGC	NotI + XhoI	Bacillus Megaterium QM B1551 DNA
5) 39% GC content	TTTTGCGGCCGCGG AAATCAAGATGAACT AATTTATACGTACAA AGTAAAAATTGGGA ACA	TTTTCTCGAGTTTGC ATAGTGCACAATTA ATCGCGATTGTCCGC GG	NotI + XhoI	Bacillus Megaterium QM B1551 DNA
6) 38% GC content	TTTTGCGGCCGCCG CTAAACACTGTACAA TTCGCAGCCGGTTA GGATCA	TTTTGGGCCATTGC TTCTGACCTTCCCA TAAGGACCTTGTACA ACGCA	NotI + ApaI	Bacillus Megaterium QM B1551 DNA