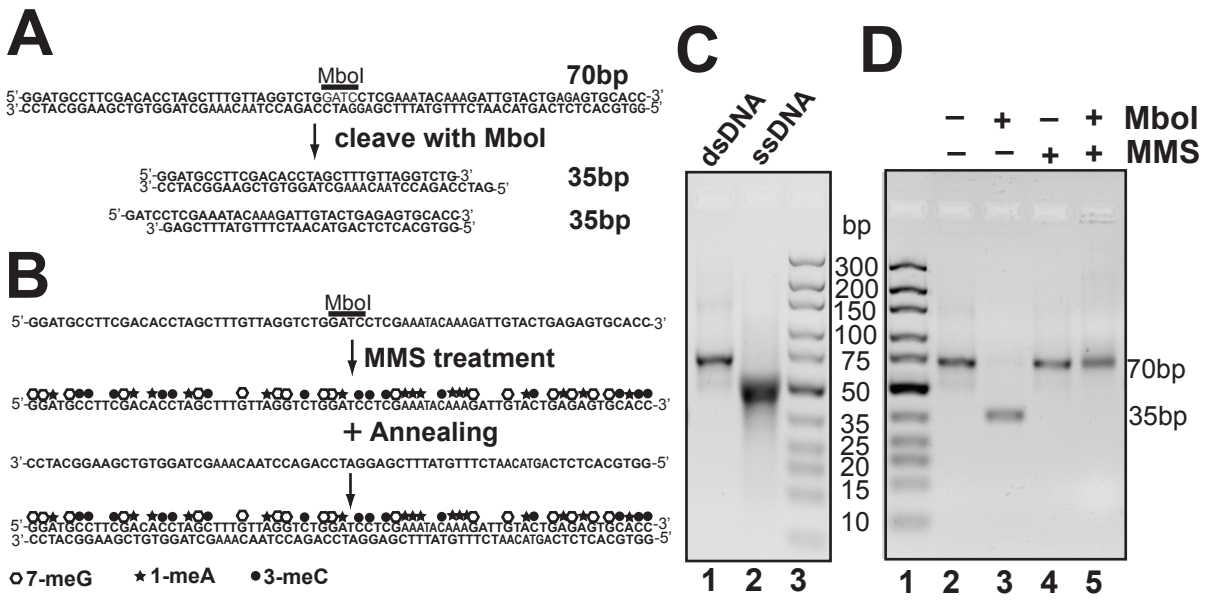
A
MboI
70bp
5'-GGATGCCTTCGACACCTAGCTTTGTTAGGTCTGGATCCTCGAAATACAAAGATTGTACTGAGAGTGCACC-3'
3'-CCTACGGAAGCTGTGGATCGAAACAATCCAGACCTAGGAGCTTTATGTTTCTAACATGACTCTCACGTGG-5'
cleave with MboI
5'-GGATGCCTTCGACACCTAGCTTTGTTAGGTCTG-3'
3'-CCTACGGAAGCTGTGGATCGAAACAATCCAGACCTAG-5'
35bp
5'-GATCCTCGAAATACAAAGATTGTACTGAGAGTGCACC-3'
3'-GAGCTTTATGTTTCTAACATGACTCTCACGTGG-5'
35bp
B
MboI
5'-GGATGCCTTCGACACCTAGCTTTGTTAGGTCTGGATCCTCGAAATACAAAGATTGTACTGAGAGTGCACC-3'
MMS treatment
5'-GGATGCCTTCGACACCTAGCTTTGTTAGGTCTGGATCCTCGAAATACAAAGATTGTACTGAGAGTGCACC-3'
+ Annealing
3'-CCTACGGAAGCTGTGGATCGAAACAATCCAGACCTAGGAGCTTTATGTTTCTAACATGACTCTCACGTGG-5'
5'-GGATGCCTTCGACACCTAGCTTTGTTAGGTCTGGATCCTCGAAATACAAAGATTGTACTGAGAGTGCACC-3'
3'-CCTACGGAAGCTGTGGATCGAAACAATCCAGACCTAGGAGCTTTATGTTTCTAACATGACTCTCACGTGG-5'
7-meG
1-meA
3-meC
C
dsDNA
ssDNA
bp
300
200
150
100
75
50
35
25
20
15
10
1 2 3
D
− + − + MboI
− − + + MMS
70bp
35bp
1 2 3 4 5

Figure 1