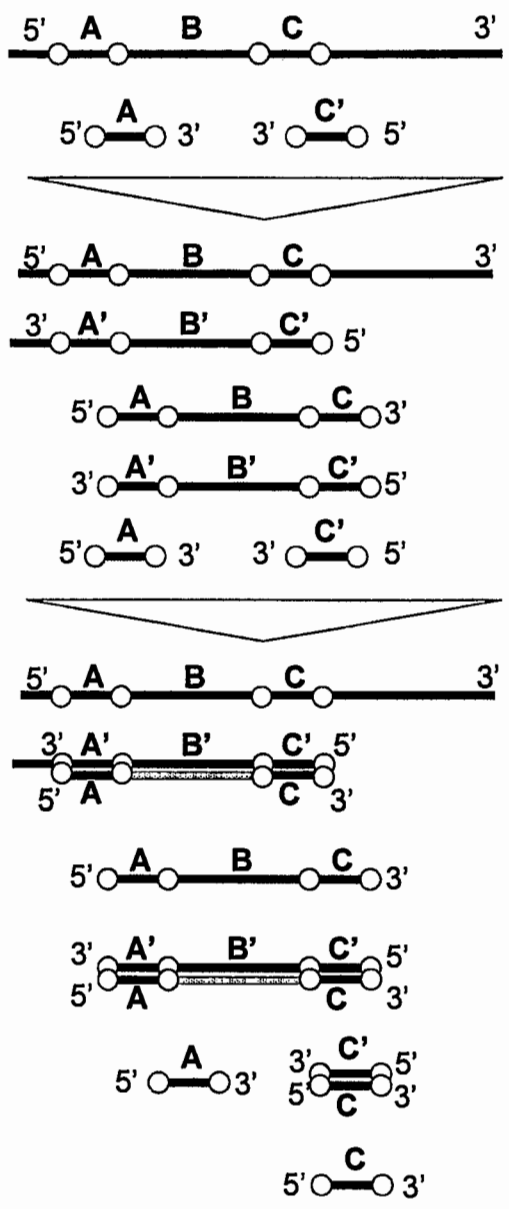
FIGURE 1.




$C_1$ ■ Original genomic DNA sequence being targeted

$C_3$ ■ PCR primers used in initial amplifications

$C_1$

■ Sequences after initial PCR amplification

$C_2$ ■ Concentration of the various compounds are subject to: C1<<C2<<C3

$C_3$

■ Add excess amounts of C to the mix when hot

$C_1$ ■ Concentration of the various compounds are subject to: C2<<C3<<C4

$C_2$ ■ Hybridize at lower temperatures (extension will also take place, shown in red)

$C_3$ ■ Note that ABC will remain single stranded lacking a primer or complement strand to attach to it, while A'B'C' will be in double stranded form

$C_4$

*ABC is the original target sequence*
*A' is the complement of A*

FIGURE 2

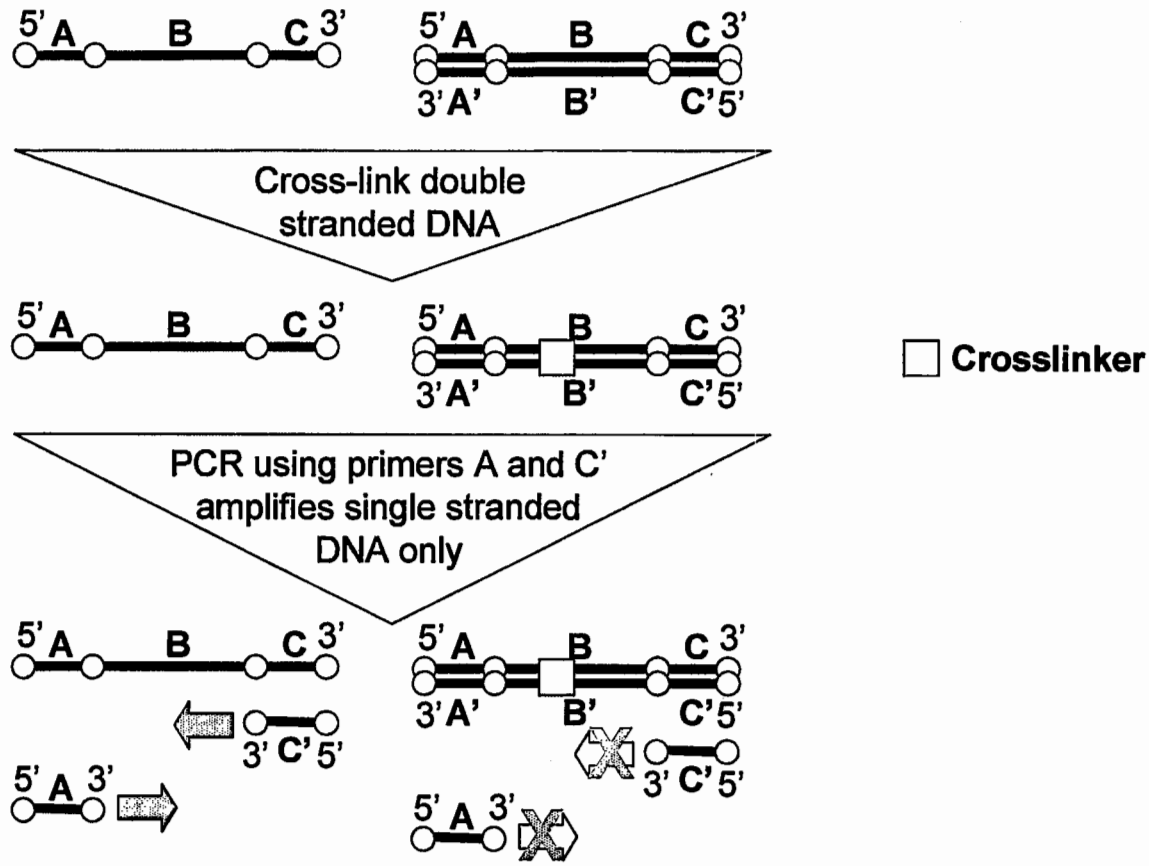

5' A B C 3'
5' A B C 3'
3' A' B' C' 5'
Cross-link double stranded DNA
5' A B C 3'
5' A B C 3'
3' A' B' C' 5'
Crosslinker
PCR using primers A and C' amplifies single stranded DNA only
5' A B C 3'
3' C' 5'
5' A 3'
5' A B C 3'
3' A' B' C' 5'
3' C' 5'
5' A 3'

FIGURE 3

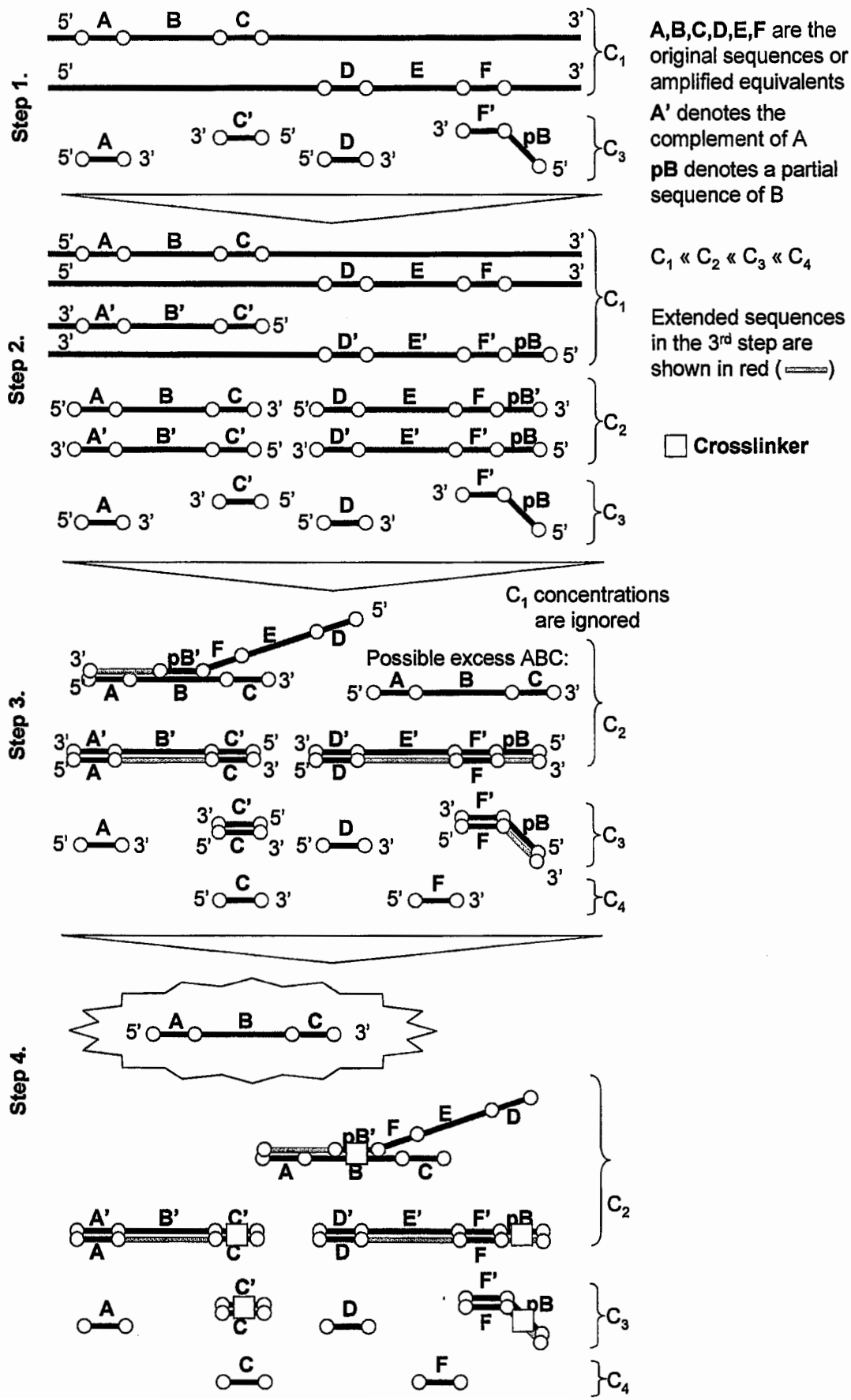
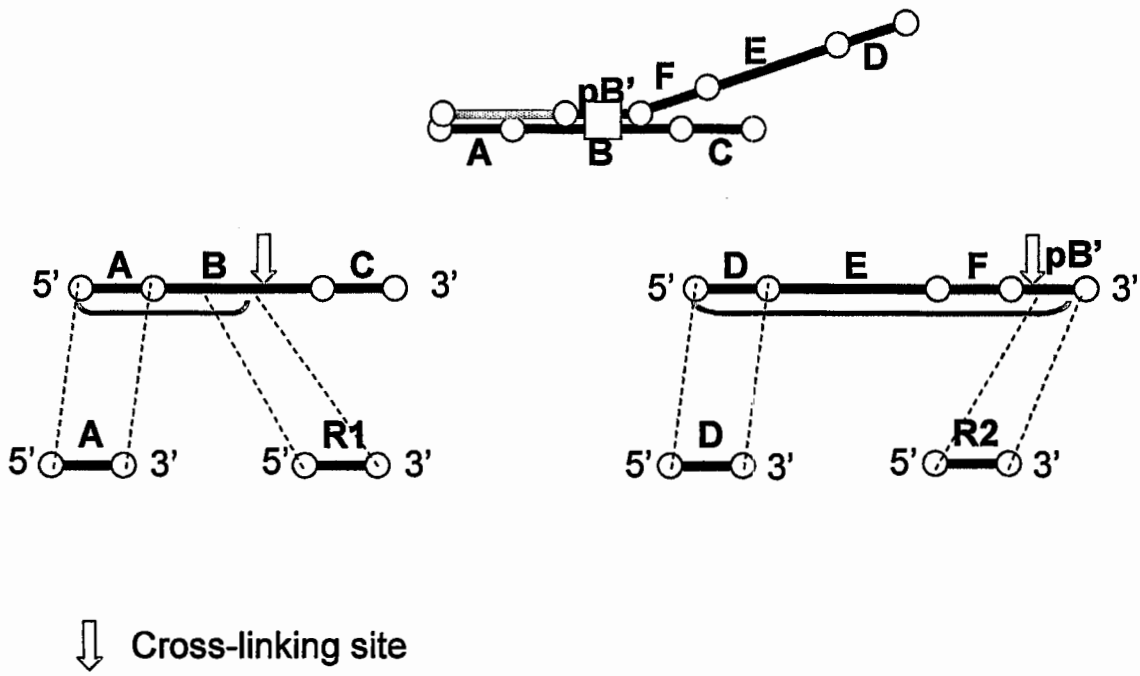

Step 1.
Step 2.
Step 3.
Step 4.
A,B,C,D,E,F are the original sequences or amplified equivalents
A' denotes the complement of A
pB denotes a partial sequence of B
C1 « C2 « C3 « C4
Extended sequences in the 3rd step are shown in red
Crosslinker
C1 concentrations are ignored
Possible excess ABC:

FIGURE 4.


A
B
pB'
F
E
D
C
5'
A
B
C
3'
5'
A
3'
5'
R1
3'
5'
D
E
F
pB'
3'
5'
D
3'
5'
R2
3'
Cross-linking site
Region amplified by PCR