

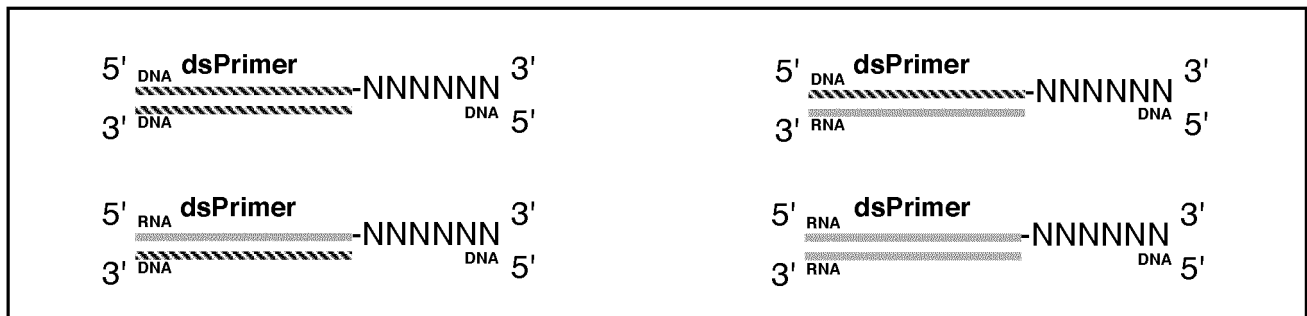
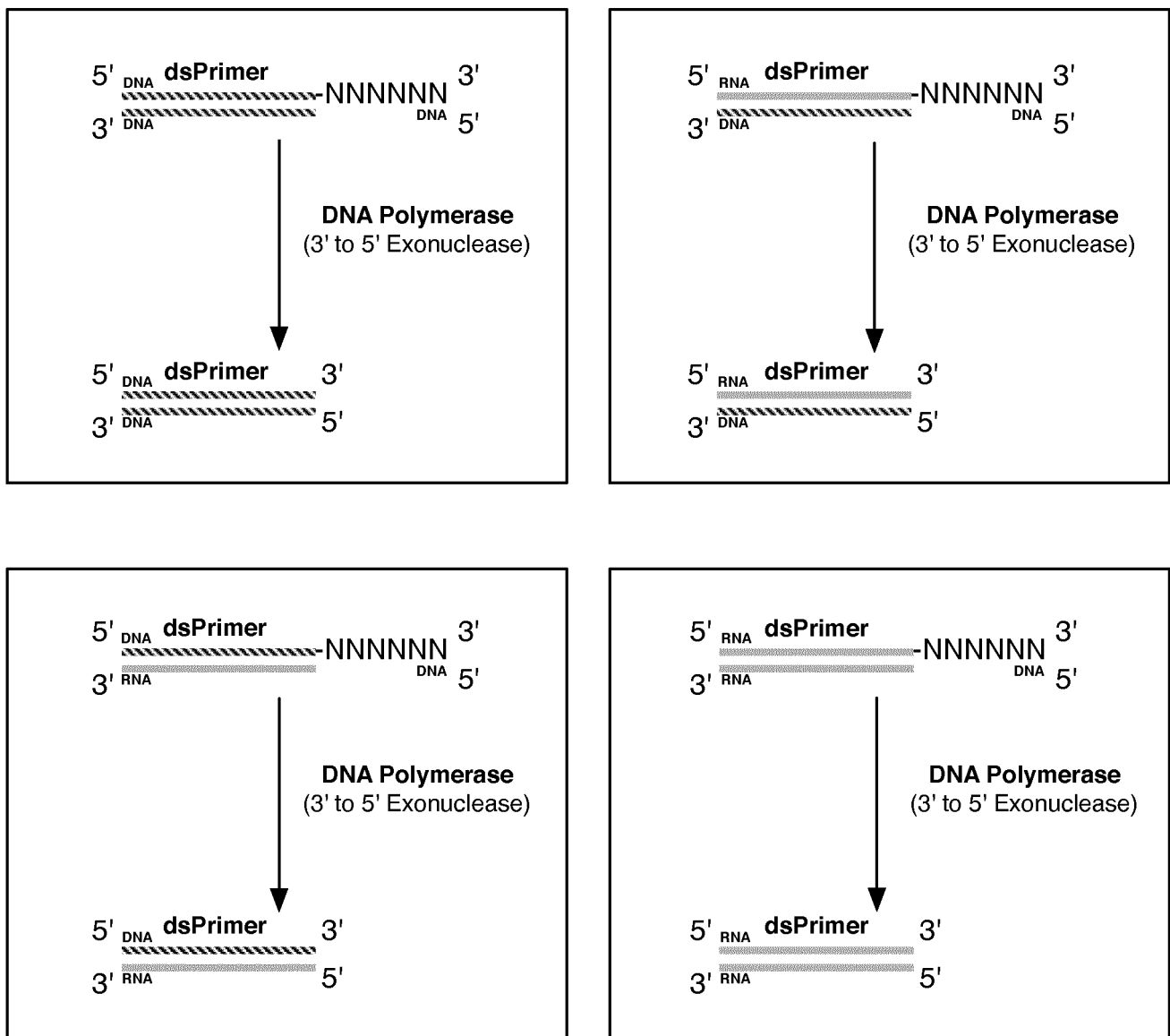
dsPrimer Structure**dsPrimer Silencing**

Fig. 1

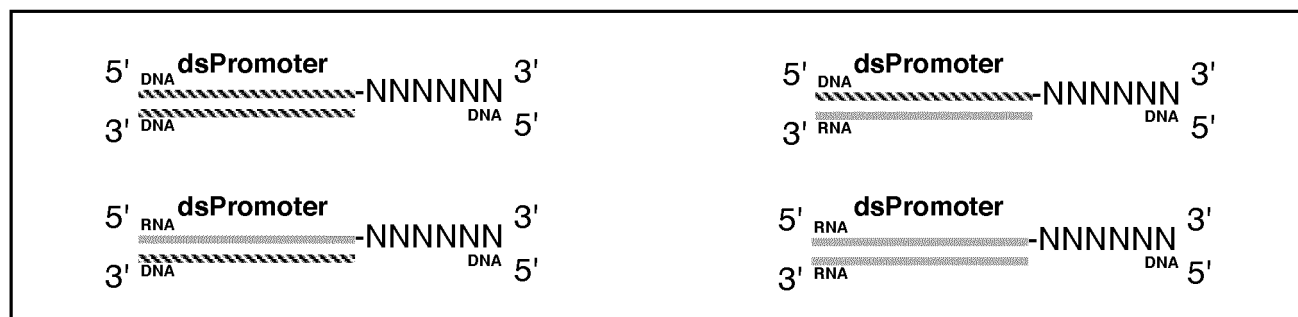
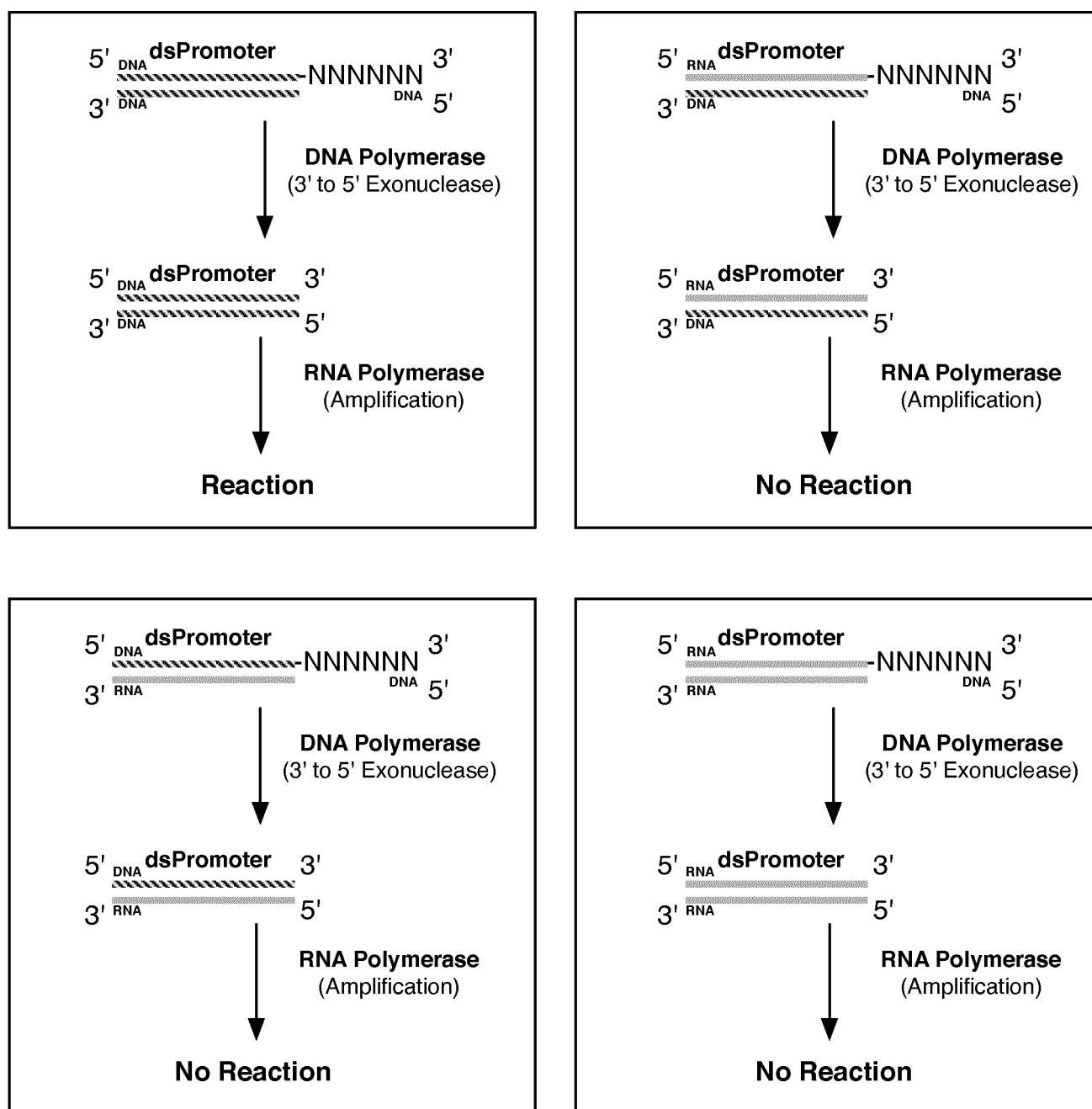
dsPromoter Structure**dsPromoter Silencing**

Fig. 2

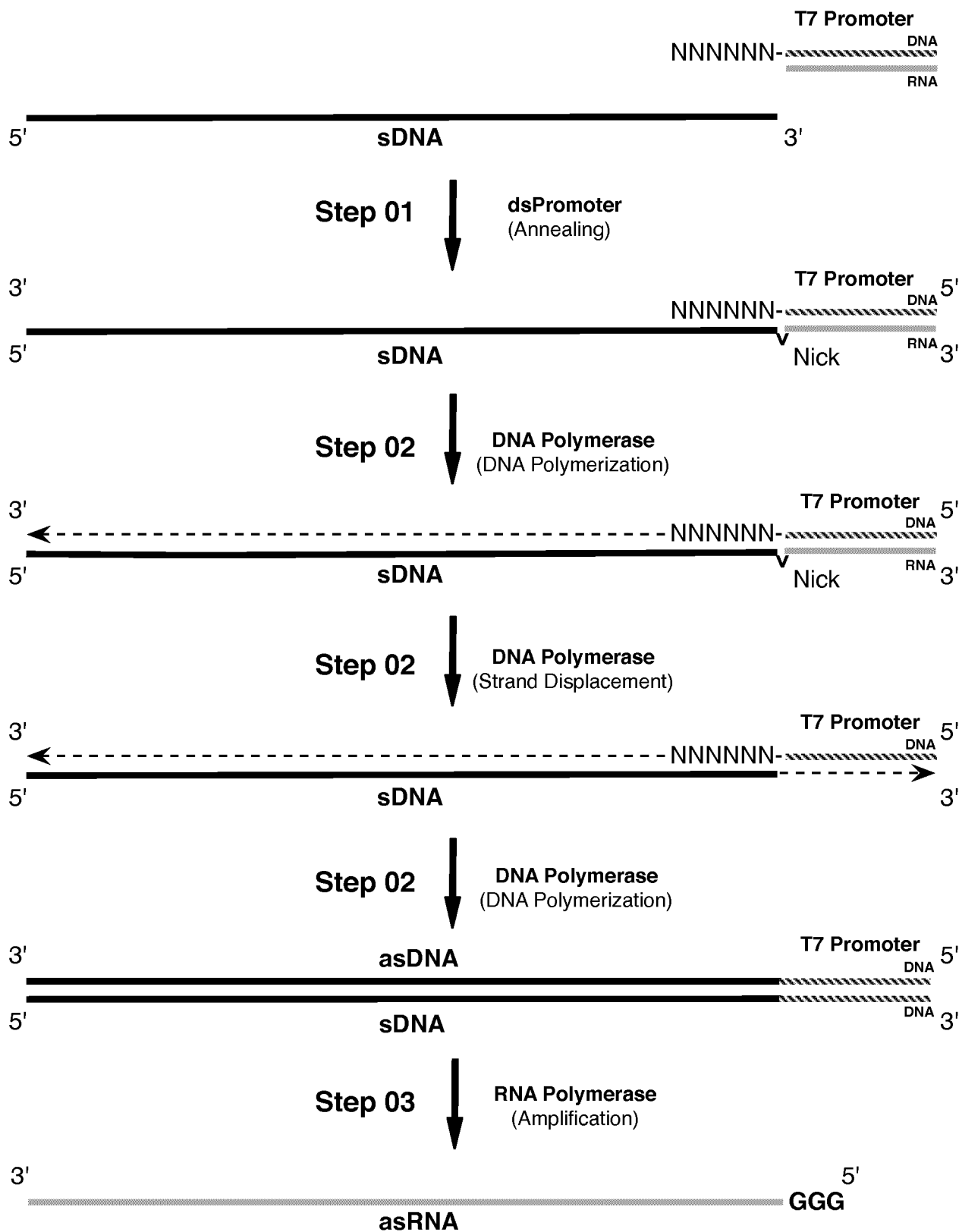


Fig. 3

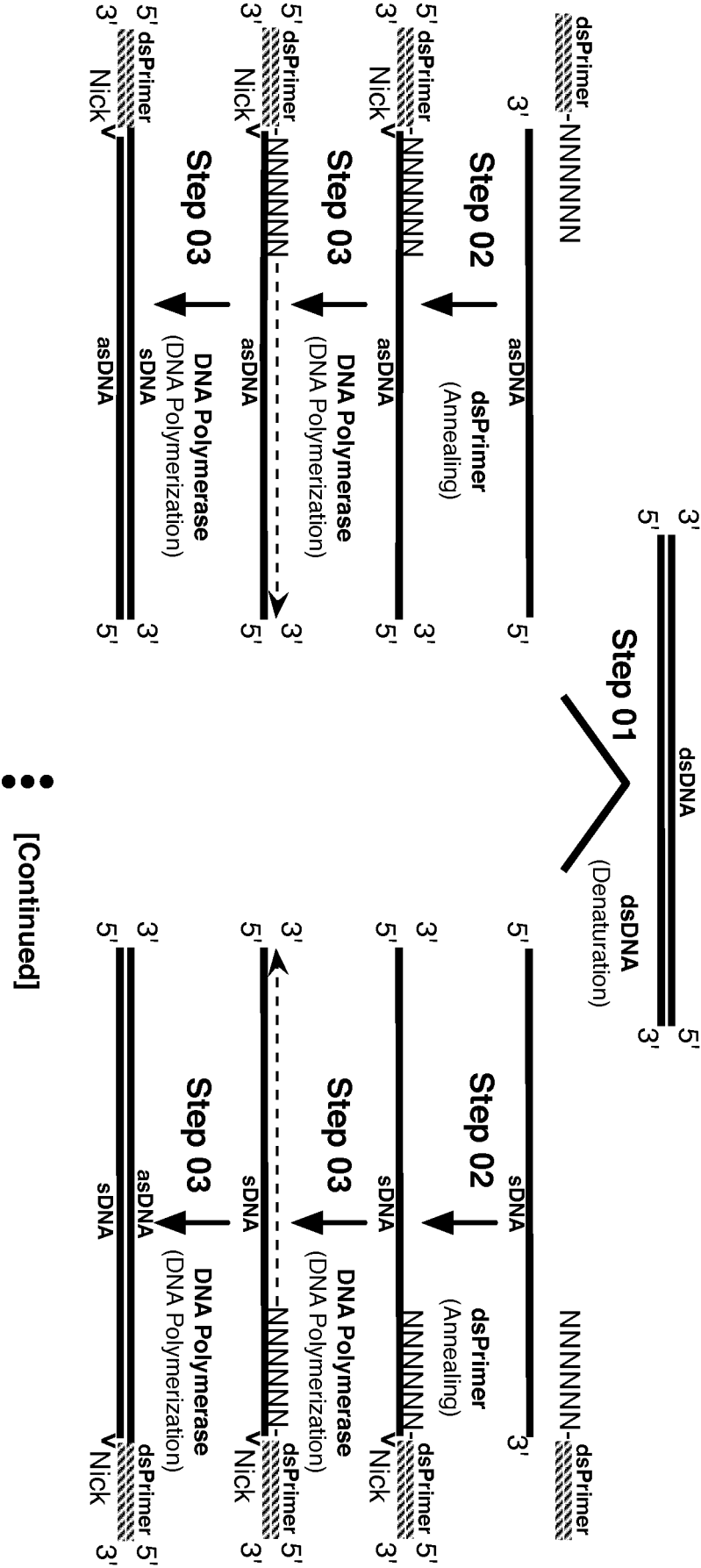


Fig. 4A

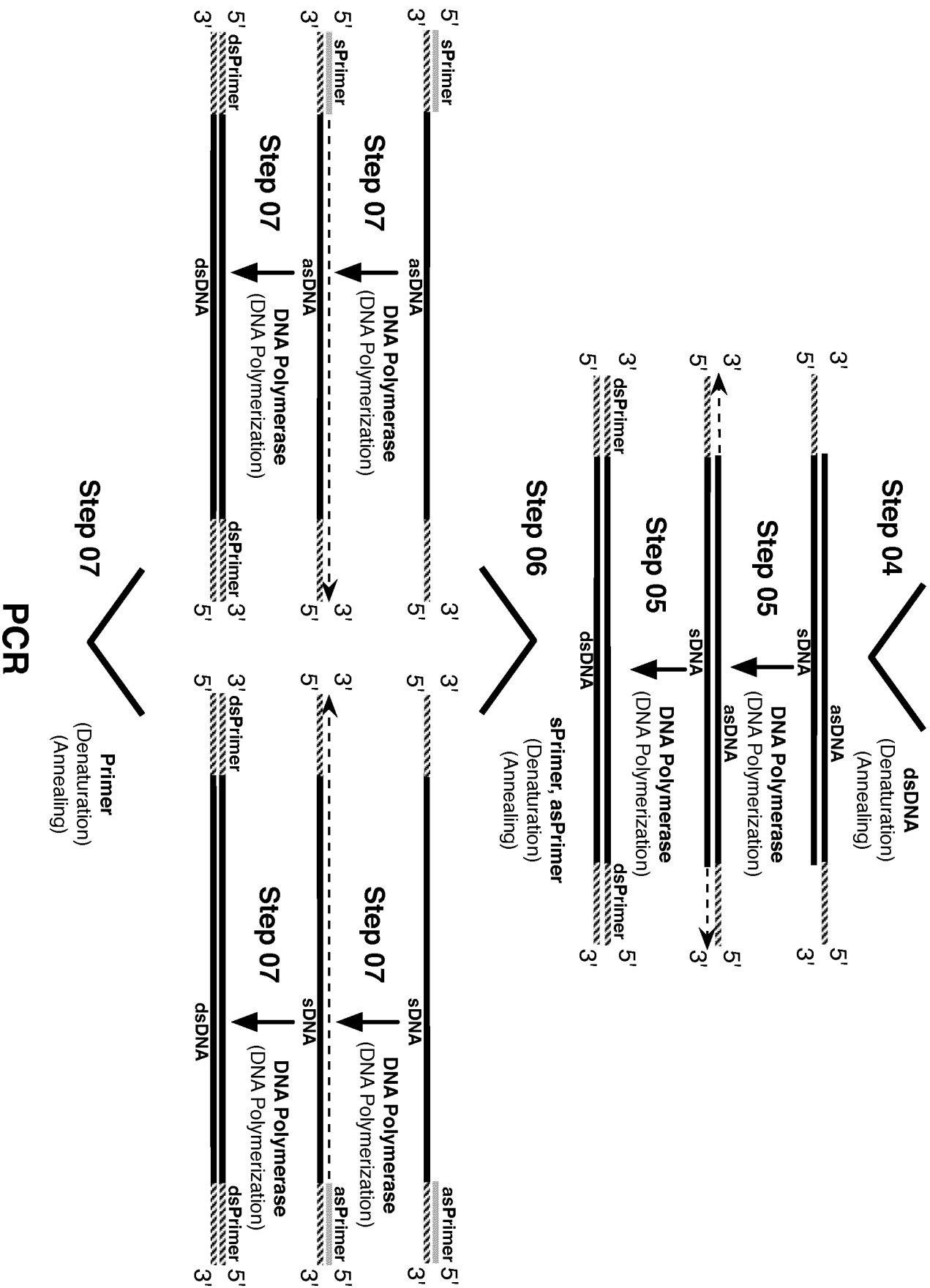


Fig. 4B



Fig. 5A

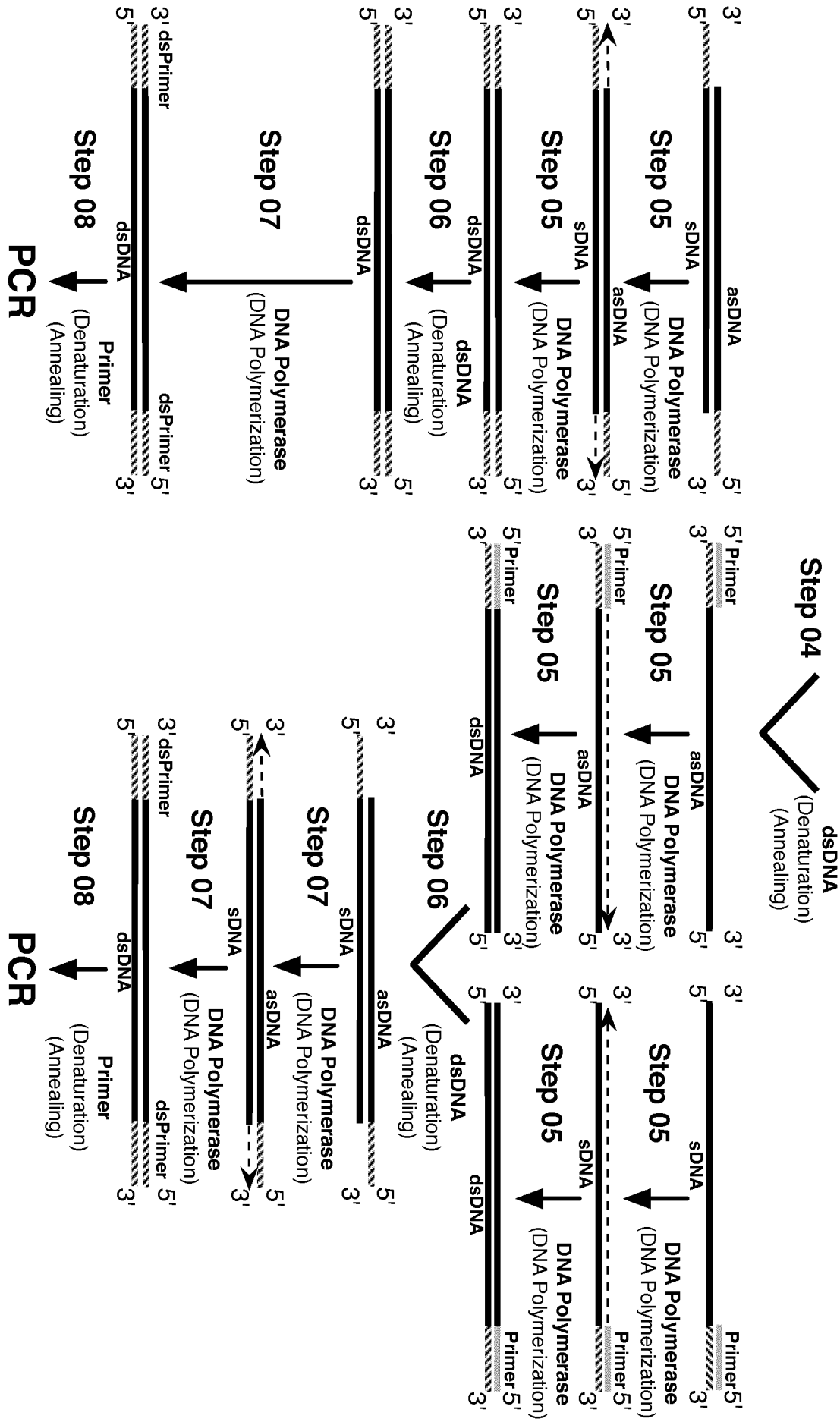


Fig. 5B

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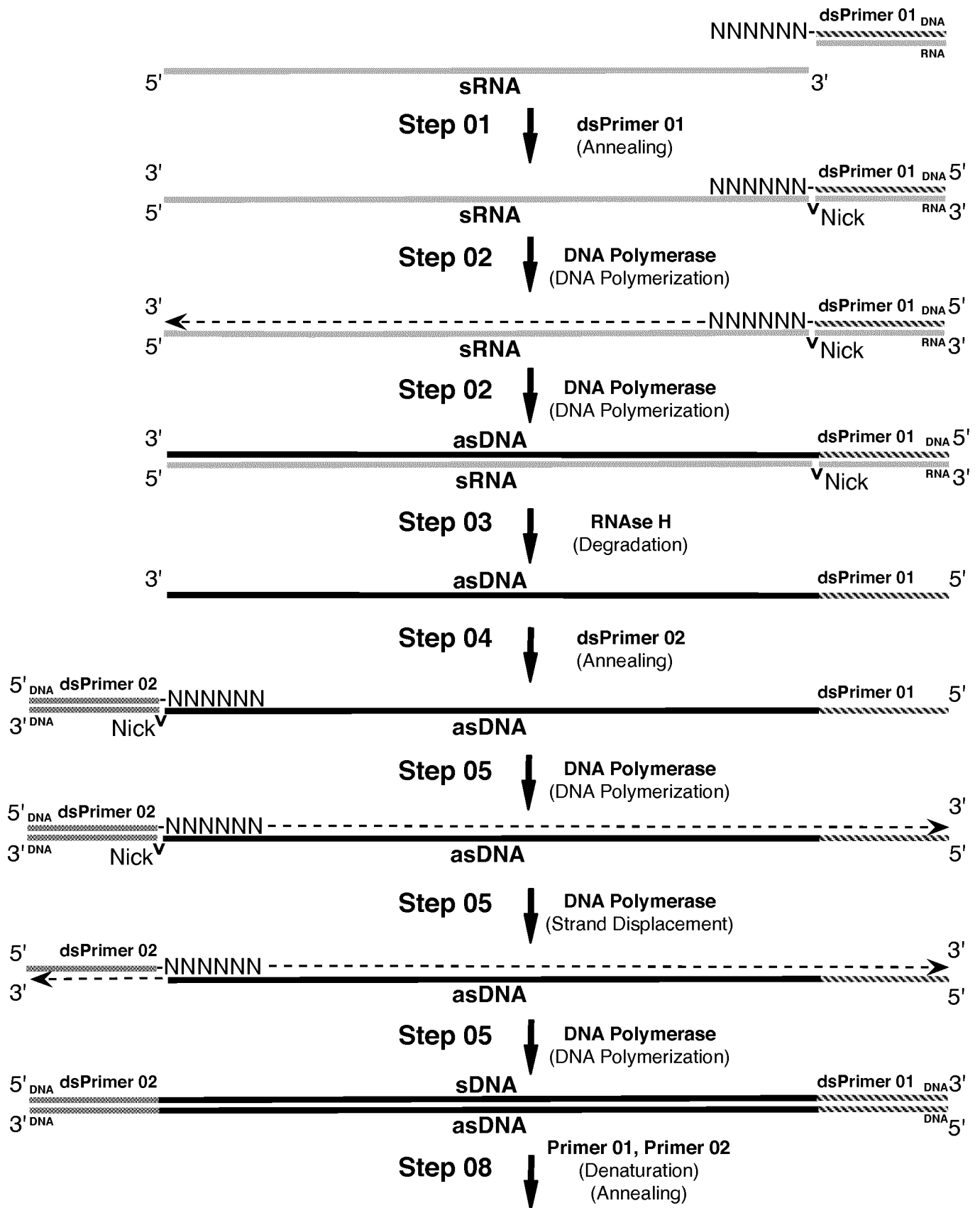
**PCR**

Fig. 6

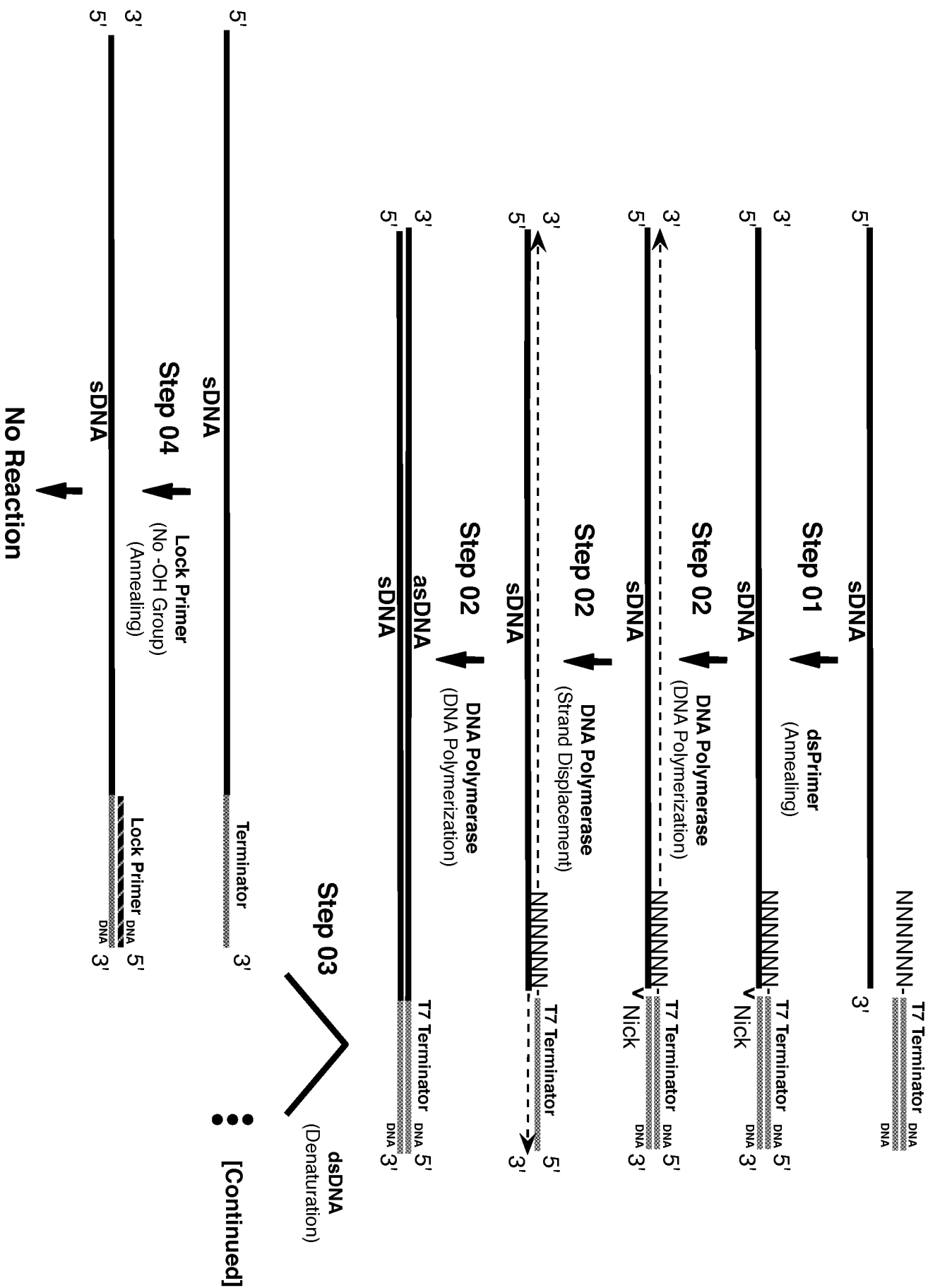


Fig. 7A

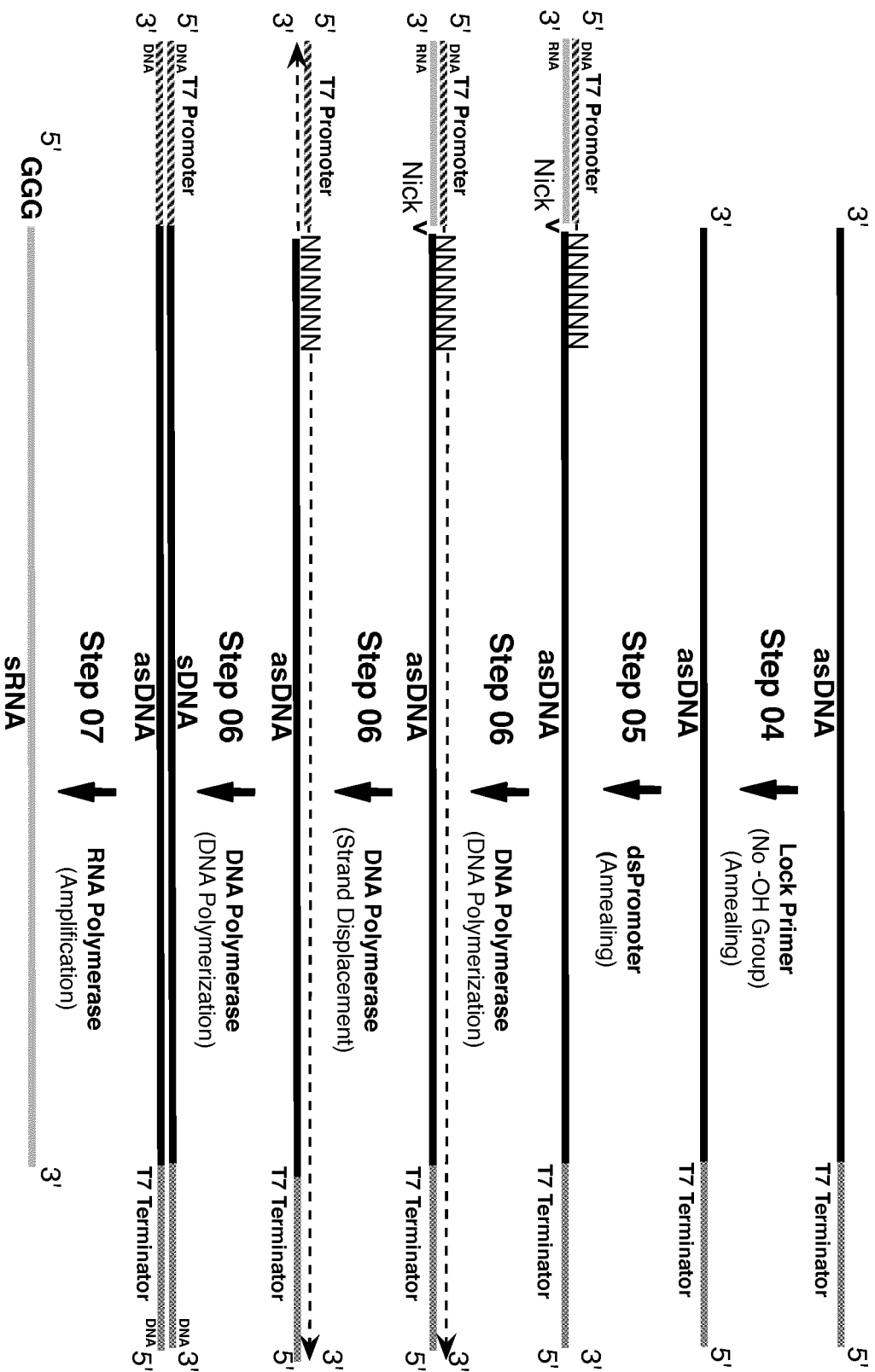
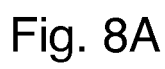


Fig. 7B



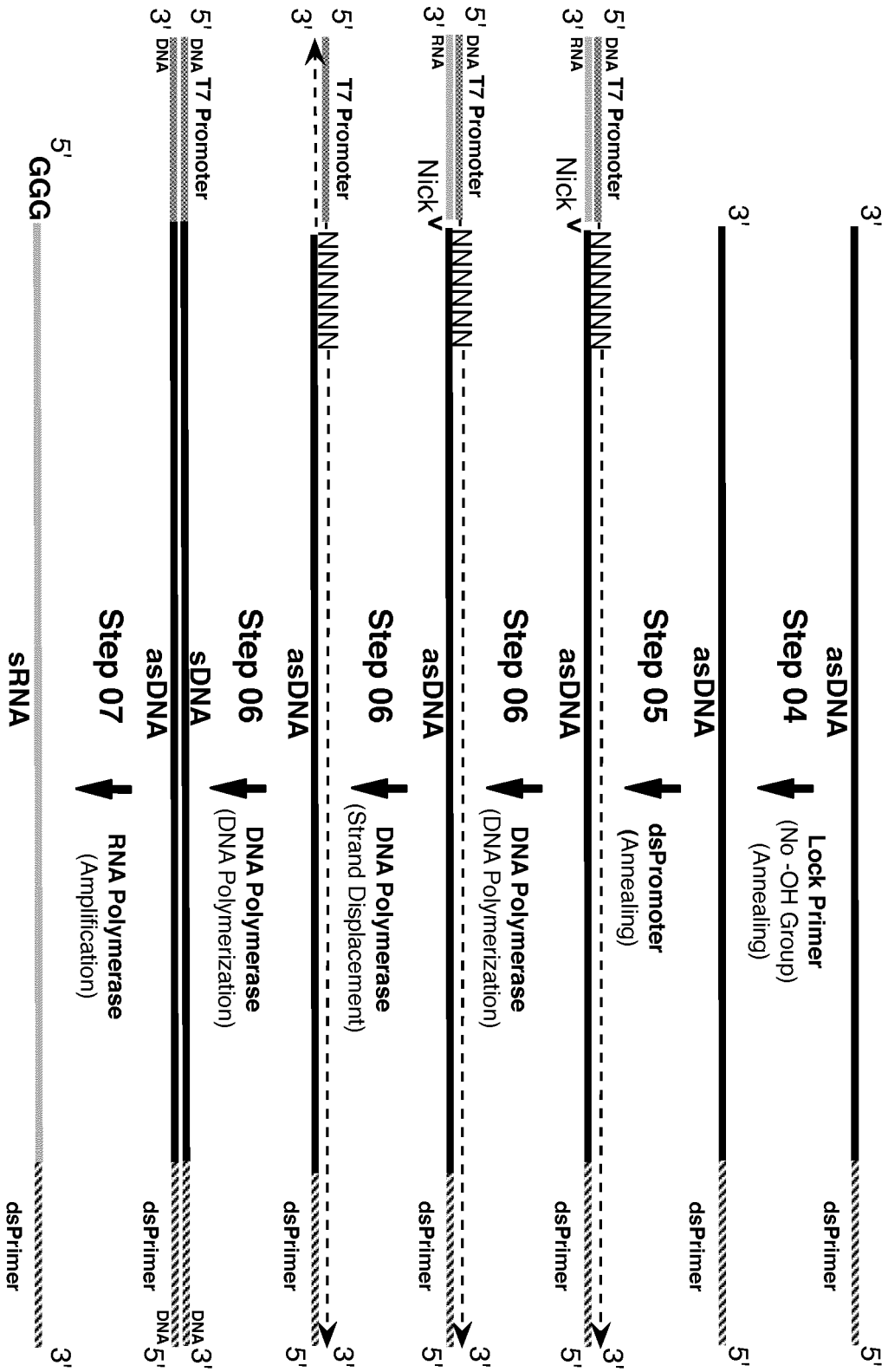


Fig. 8B

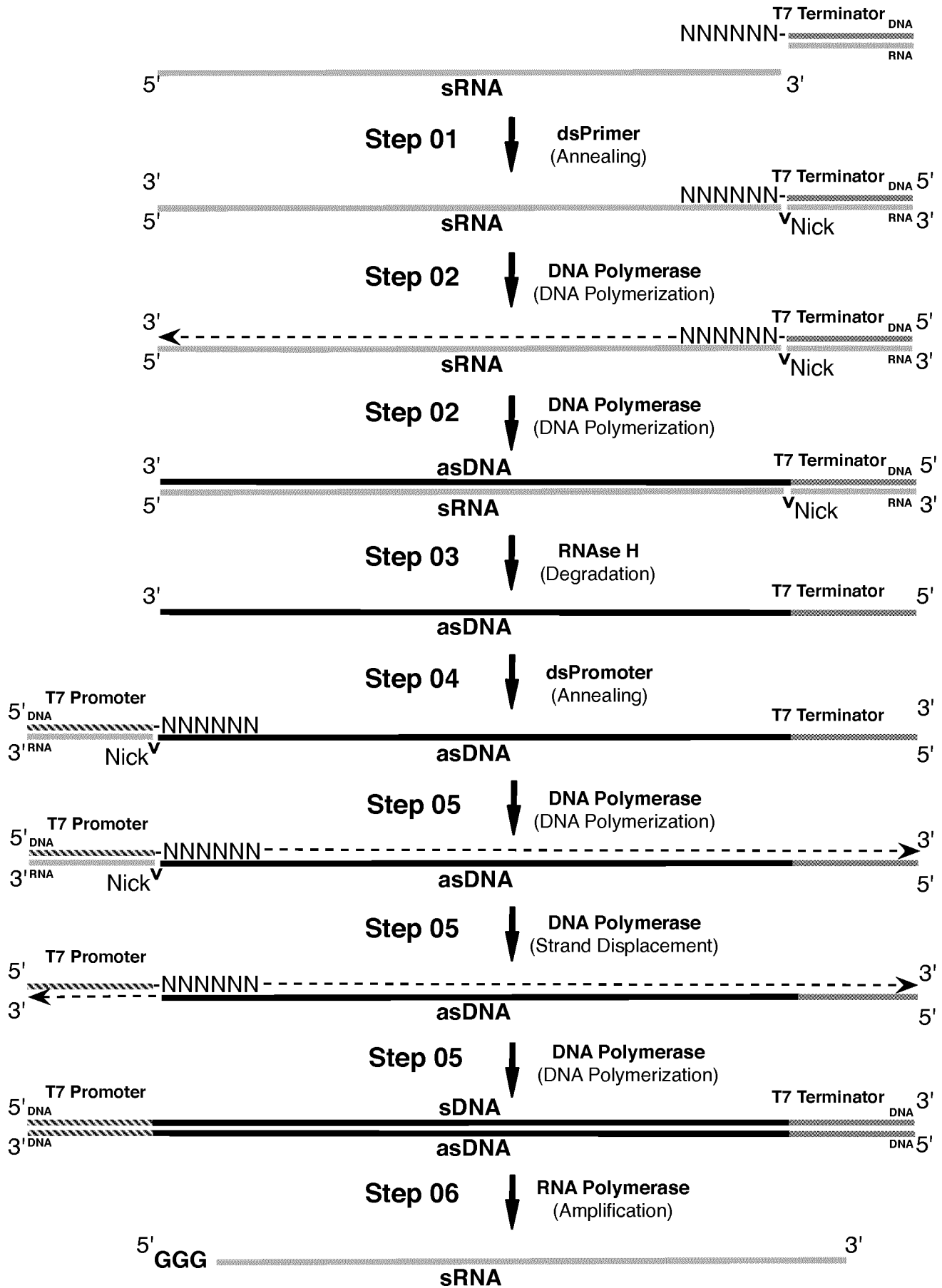


Fig. 9

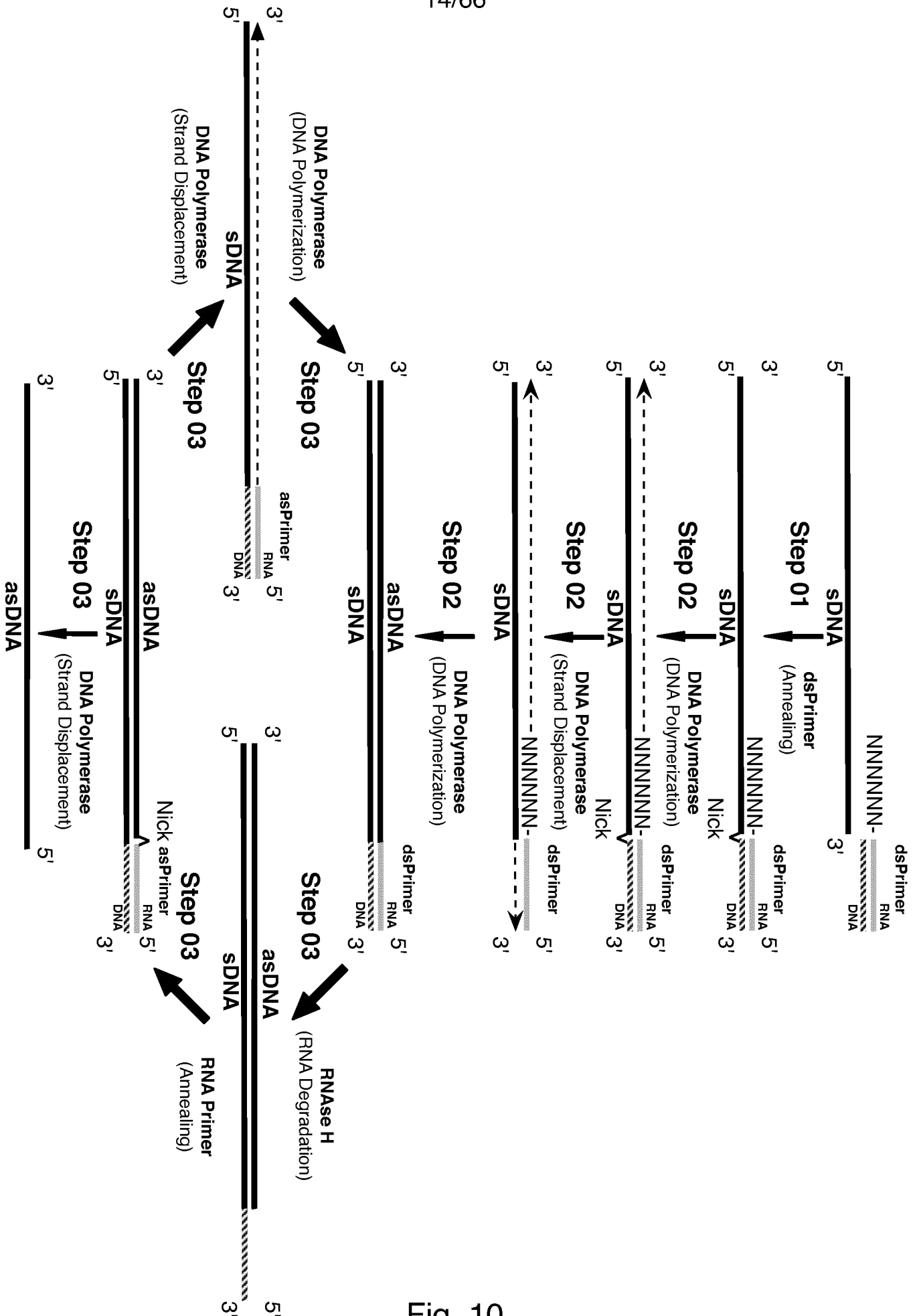


Fig. 10

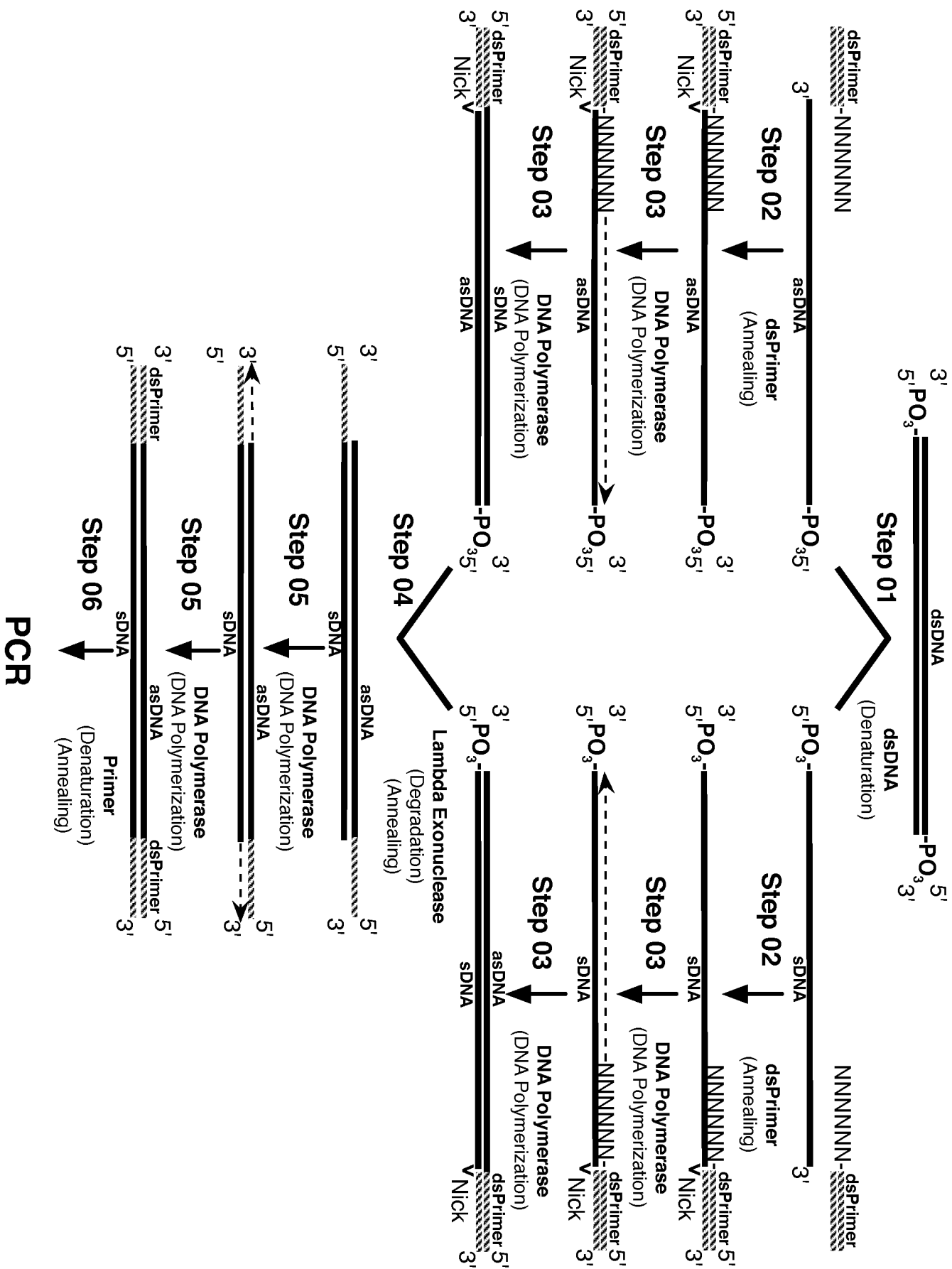
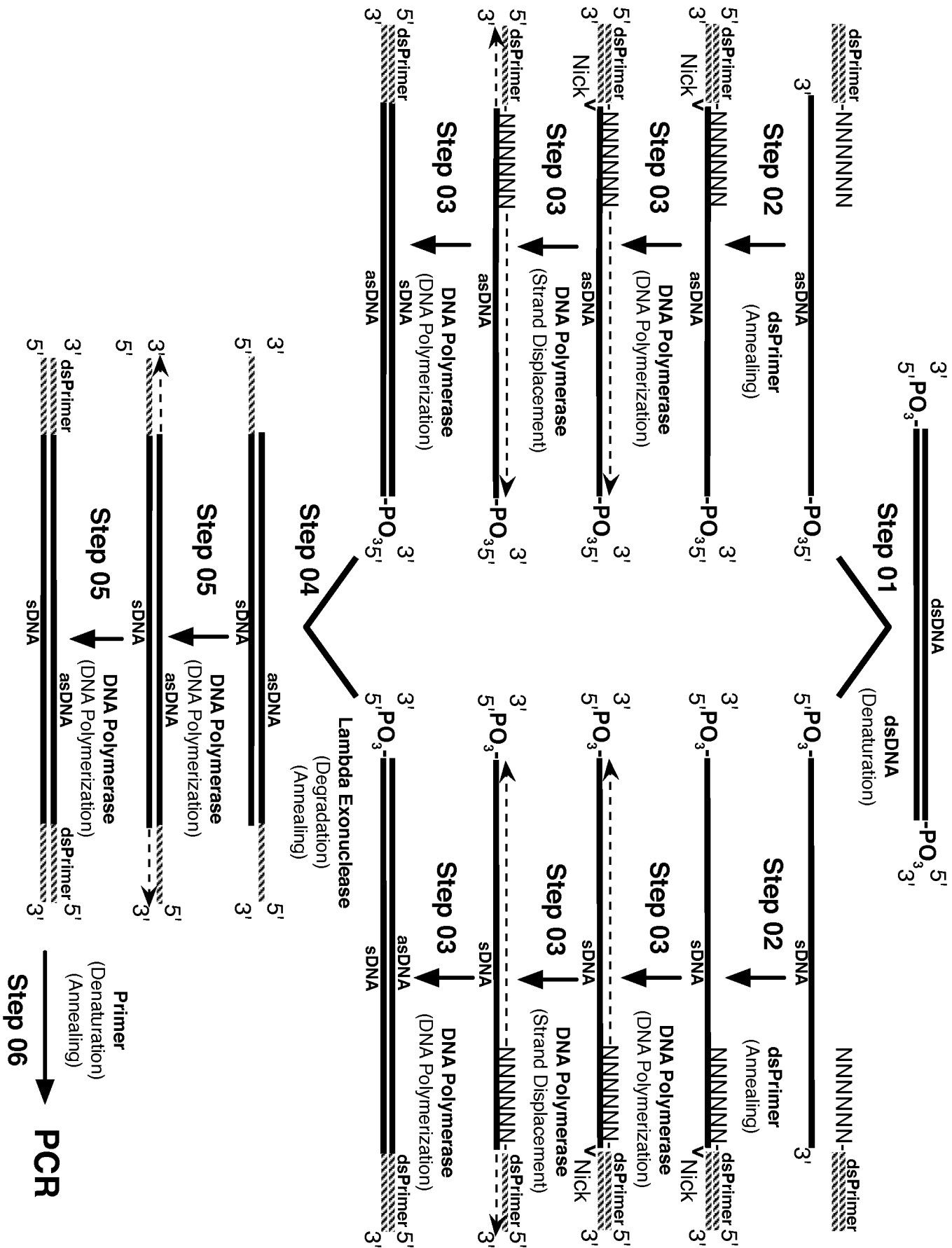


Fig. 11



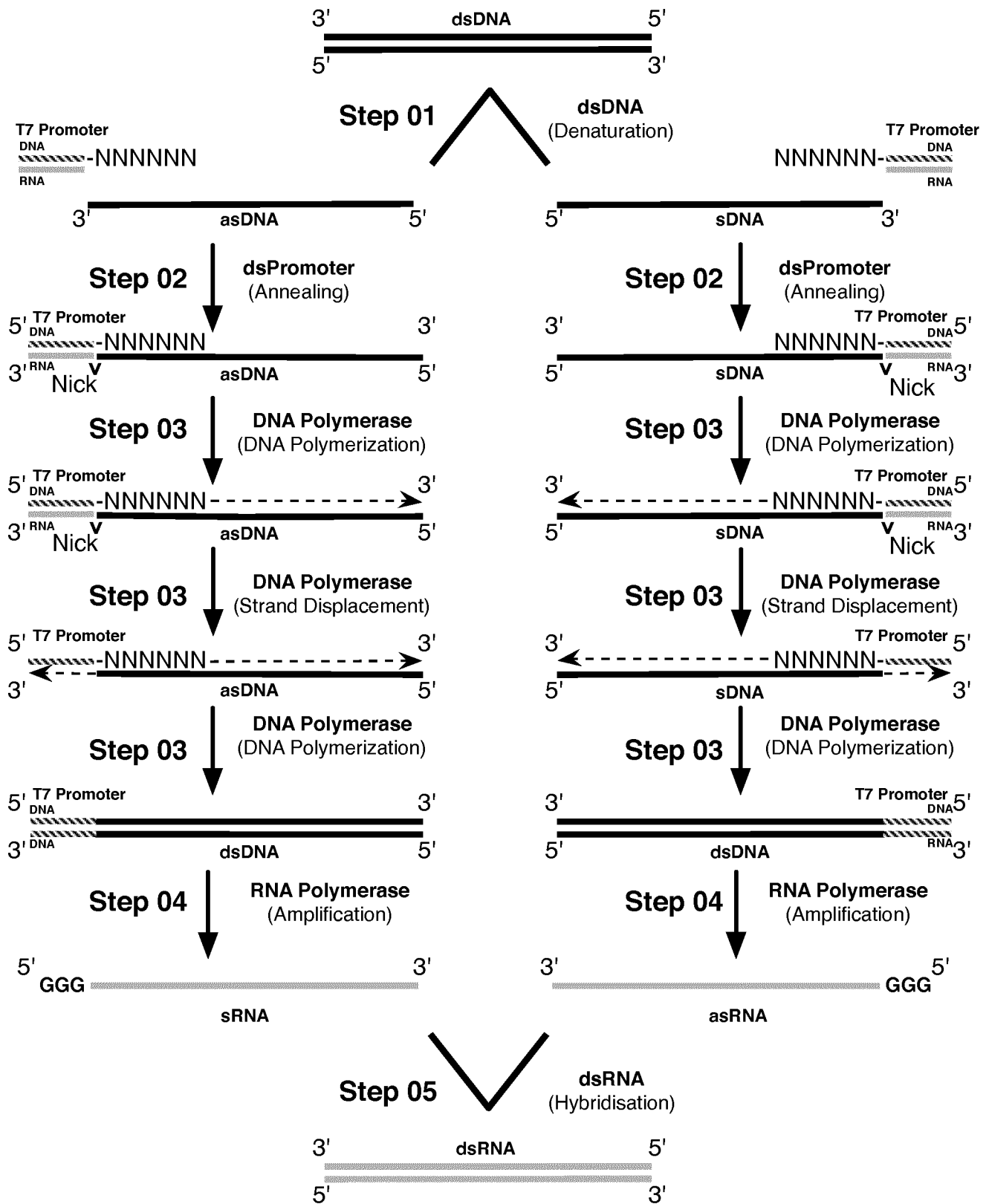


Fig. 13

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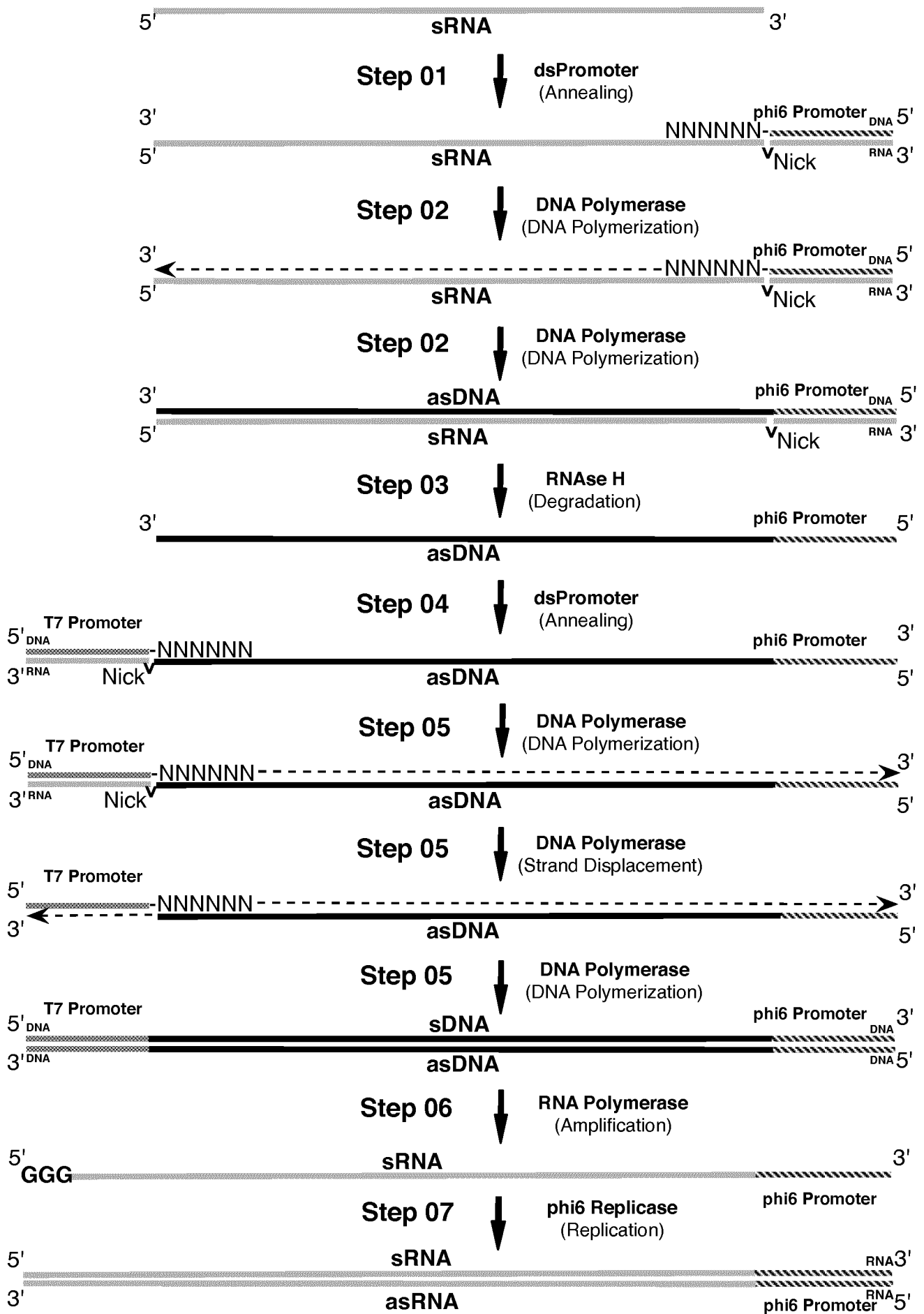


Fig. 14

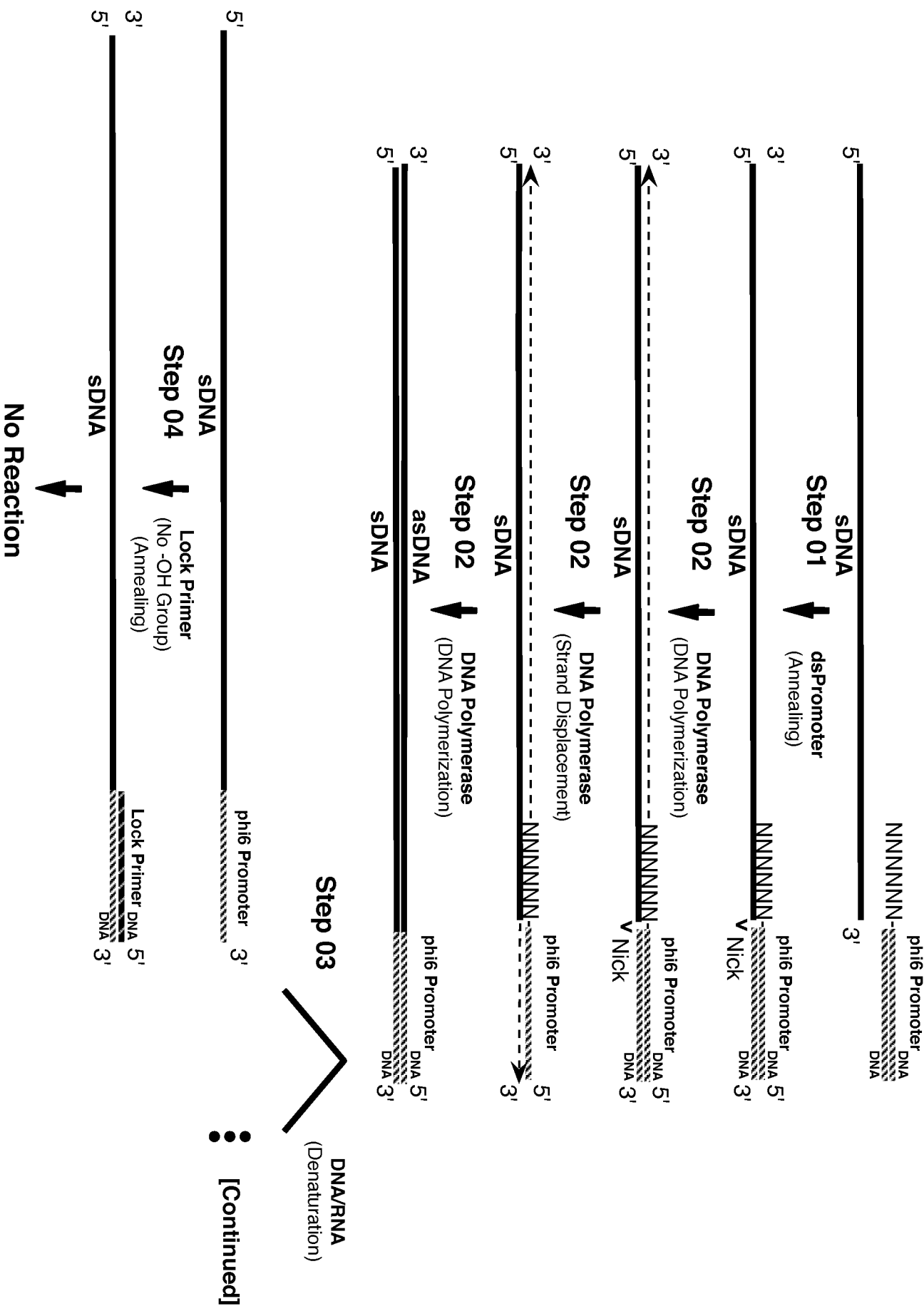


Fig. 15A

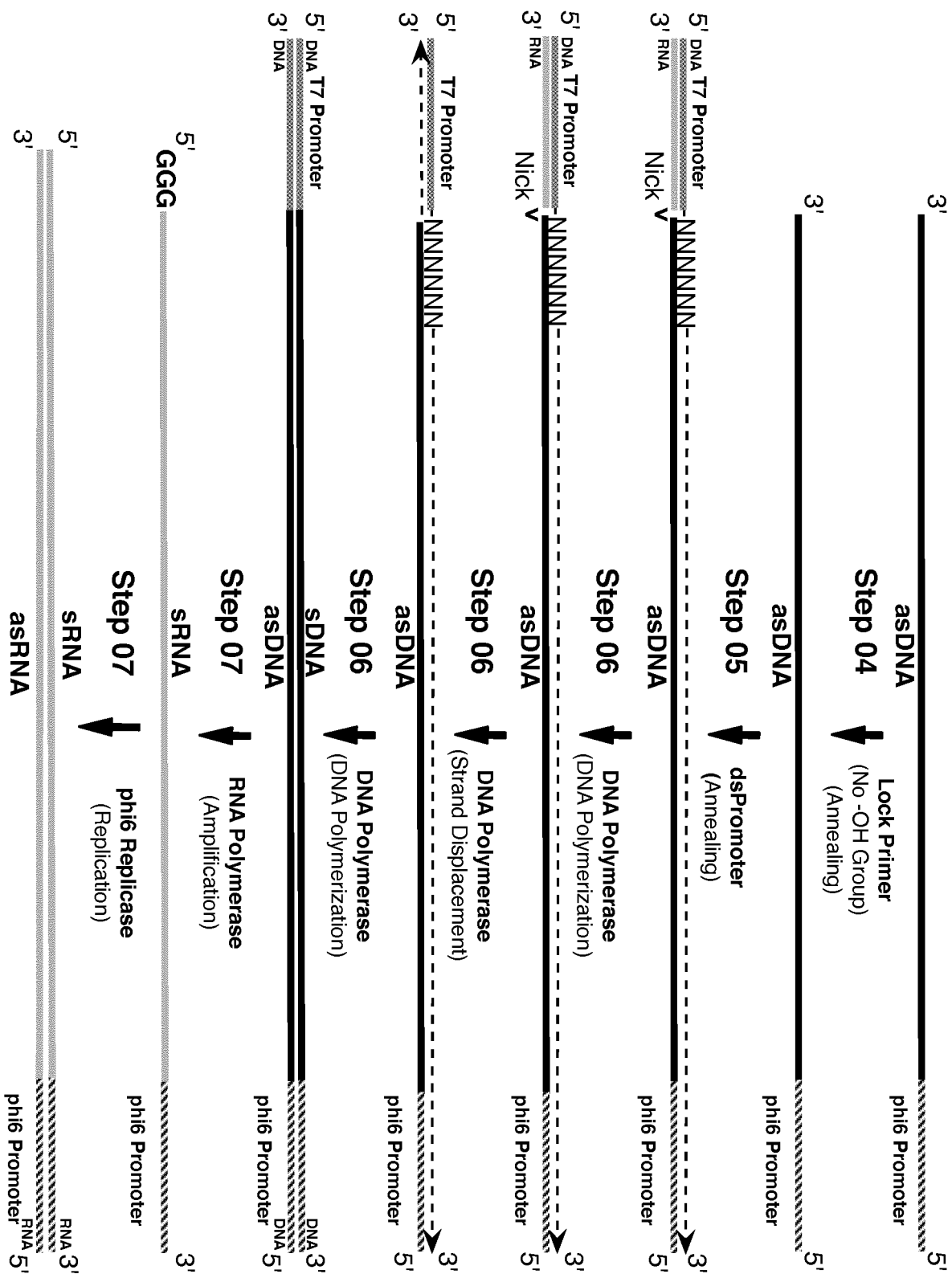


Fig. 15B

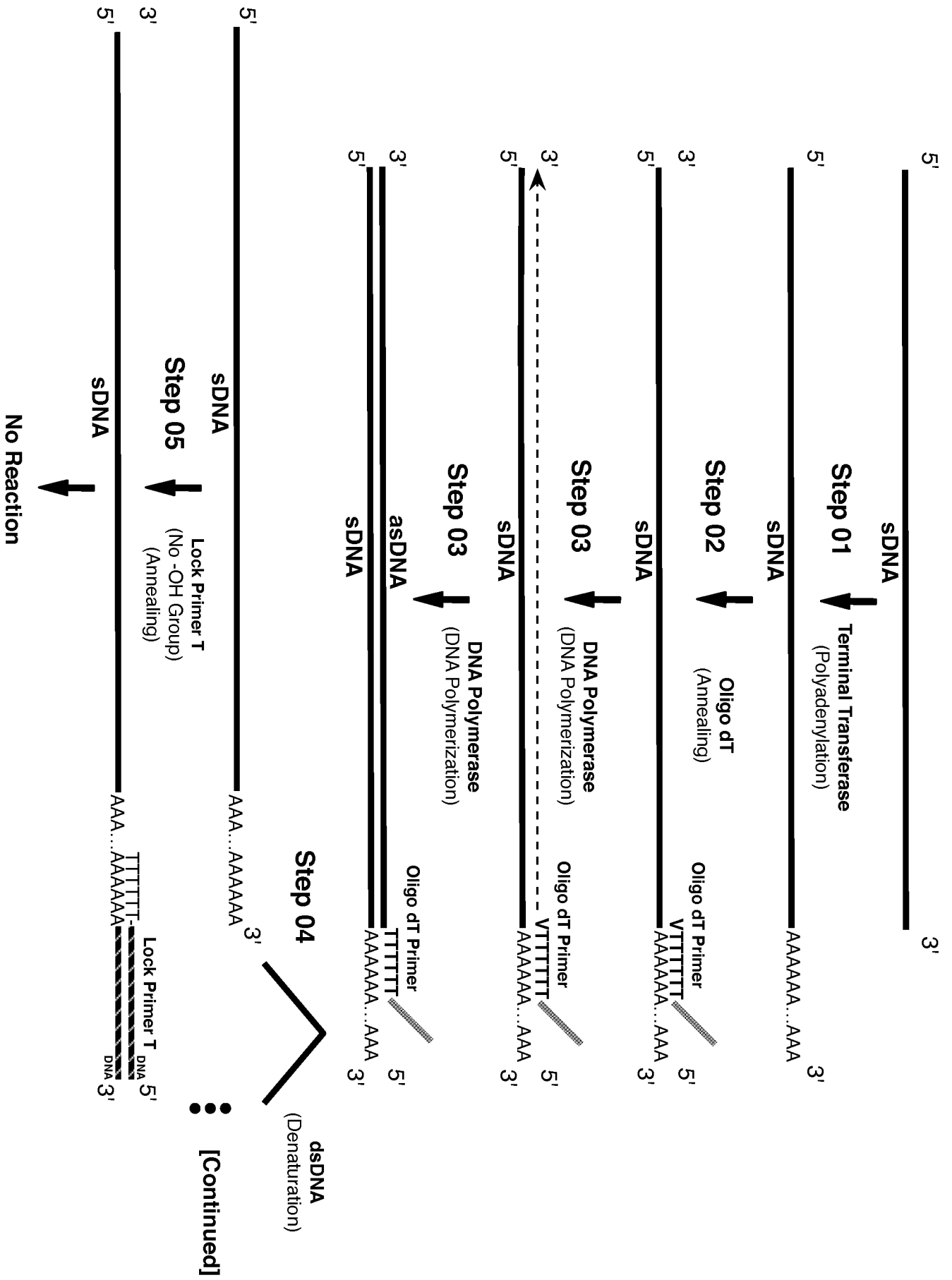


Fig. 16A

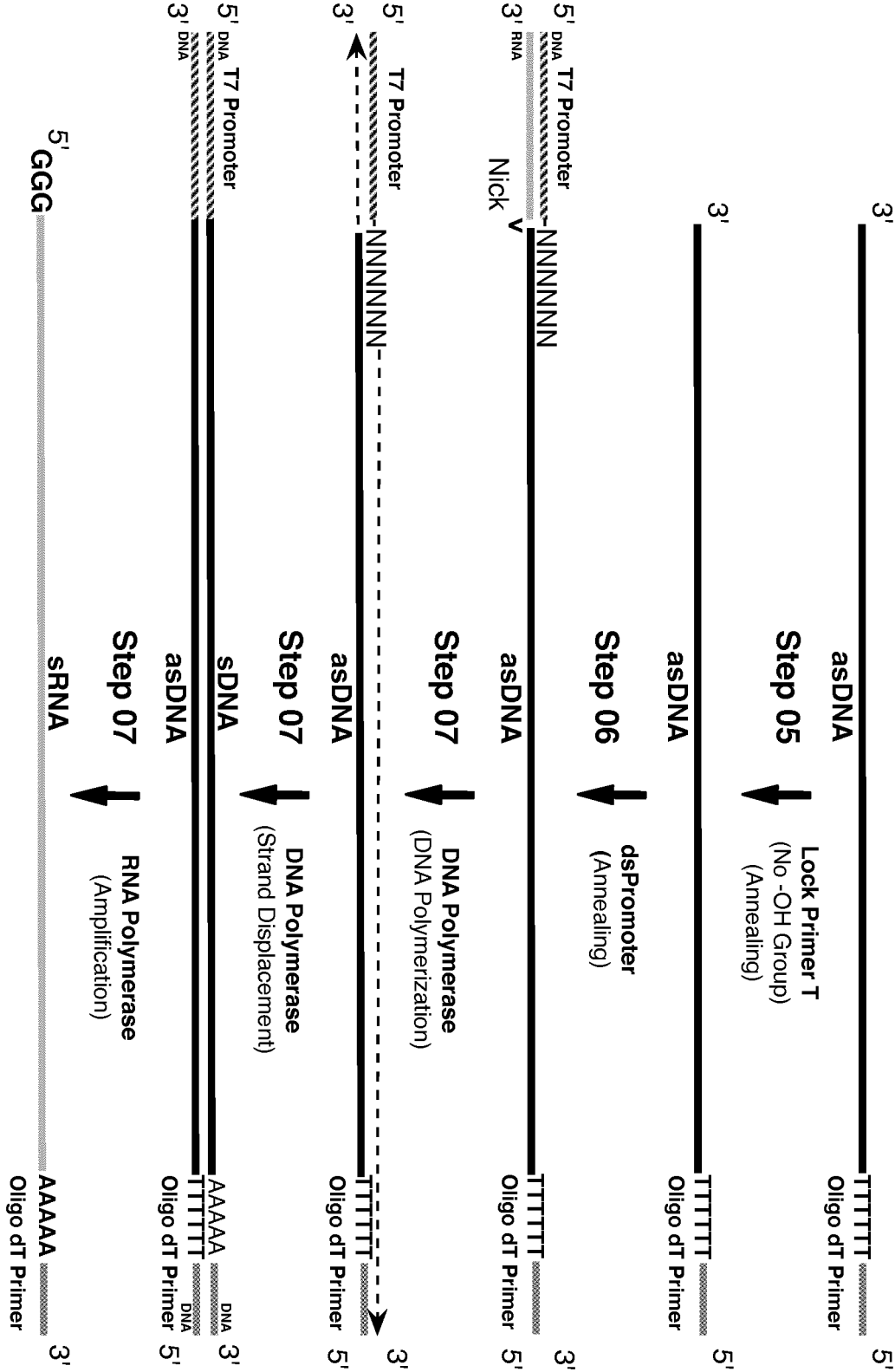


Fig. 16B

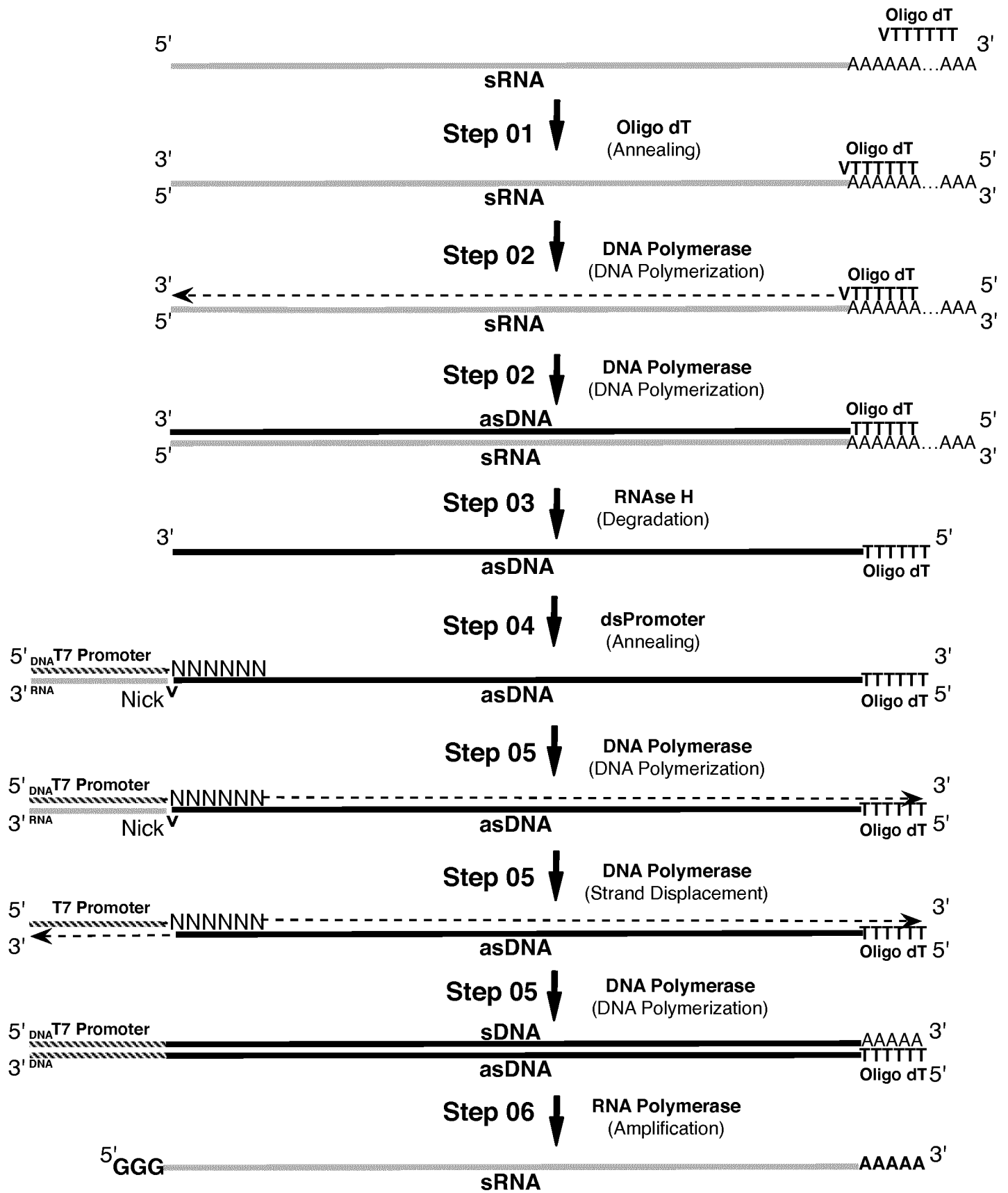


Fig. 17

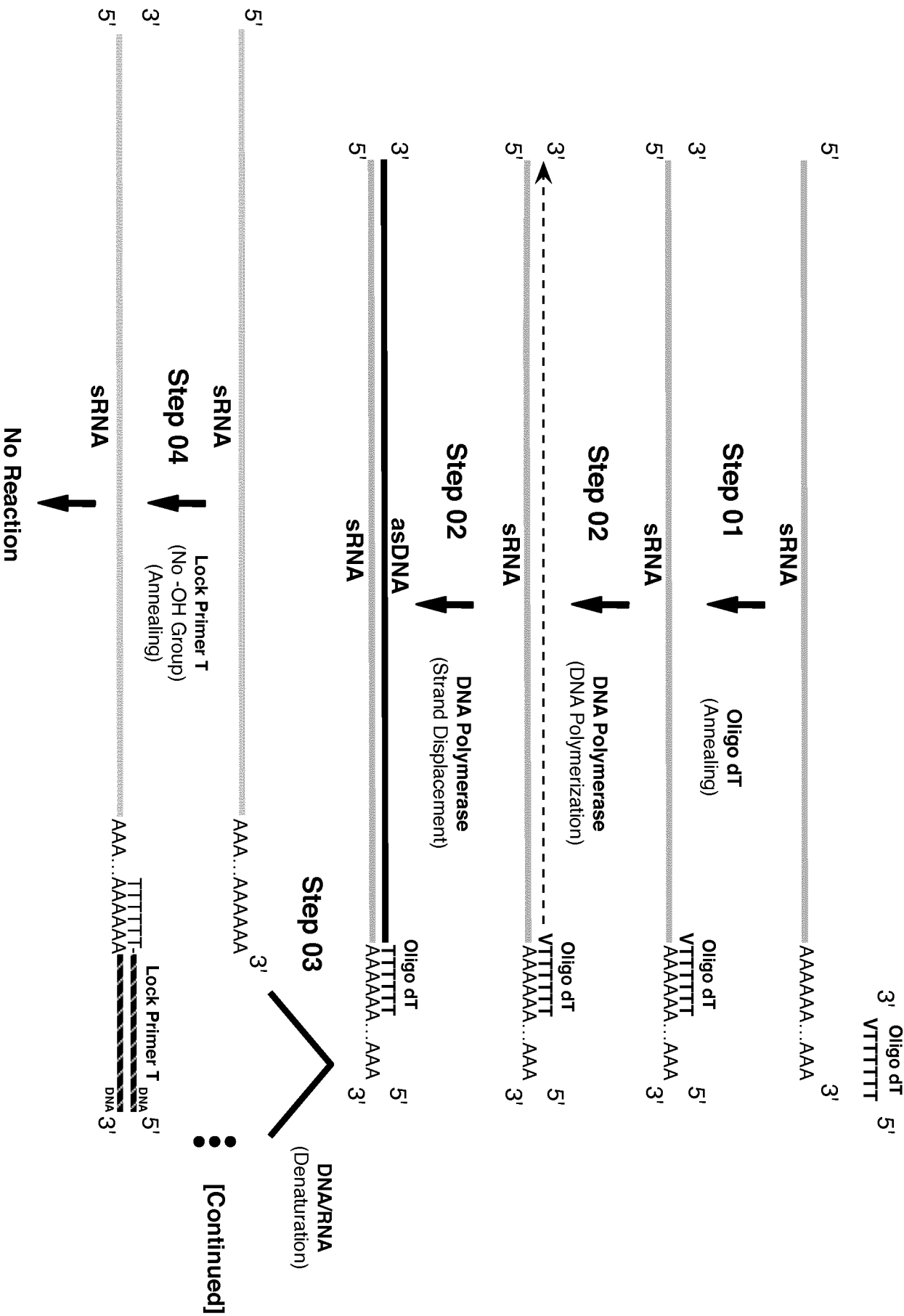


Fig. 18A

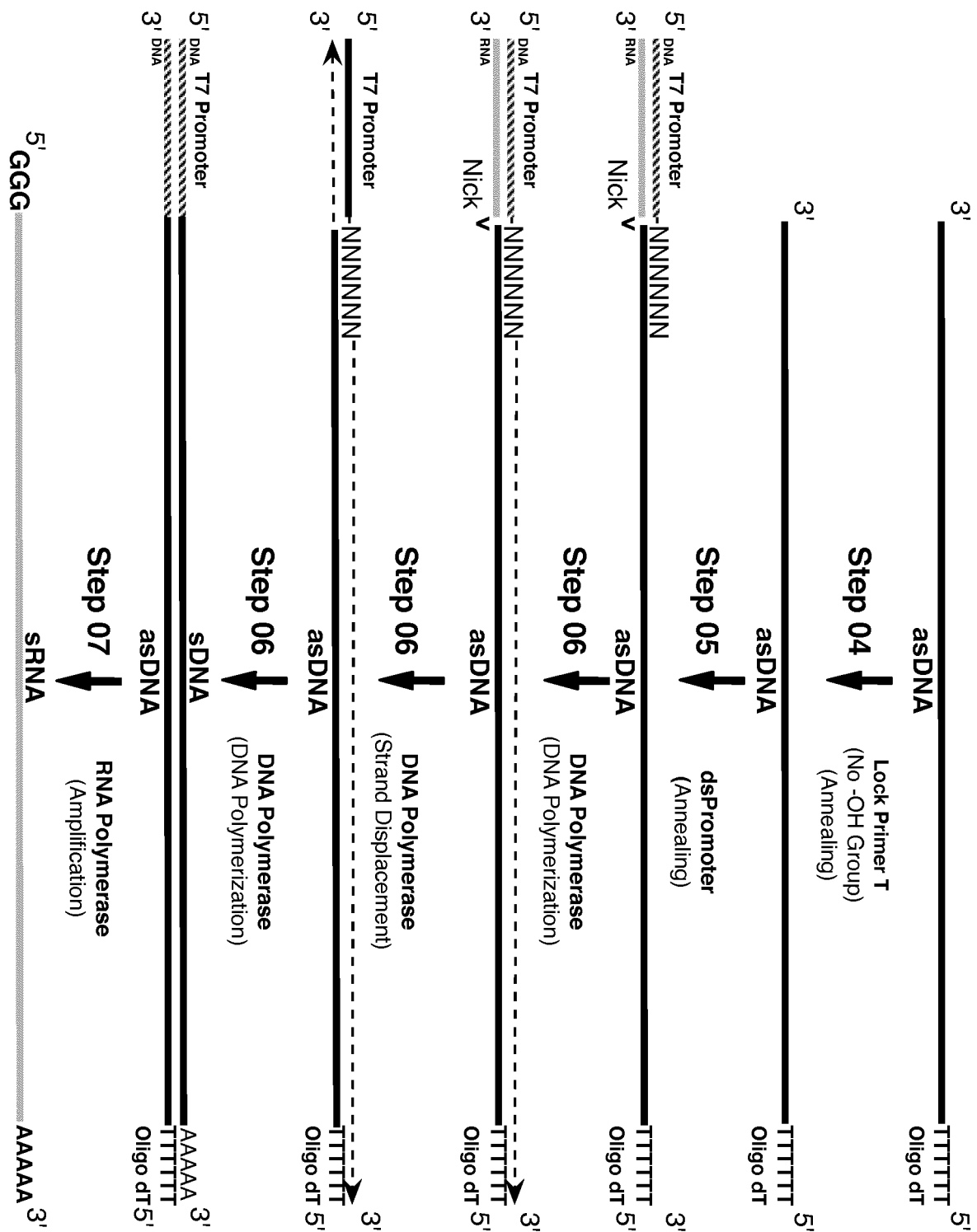


Fig. 18B

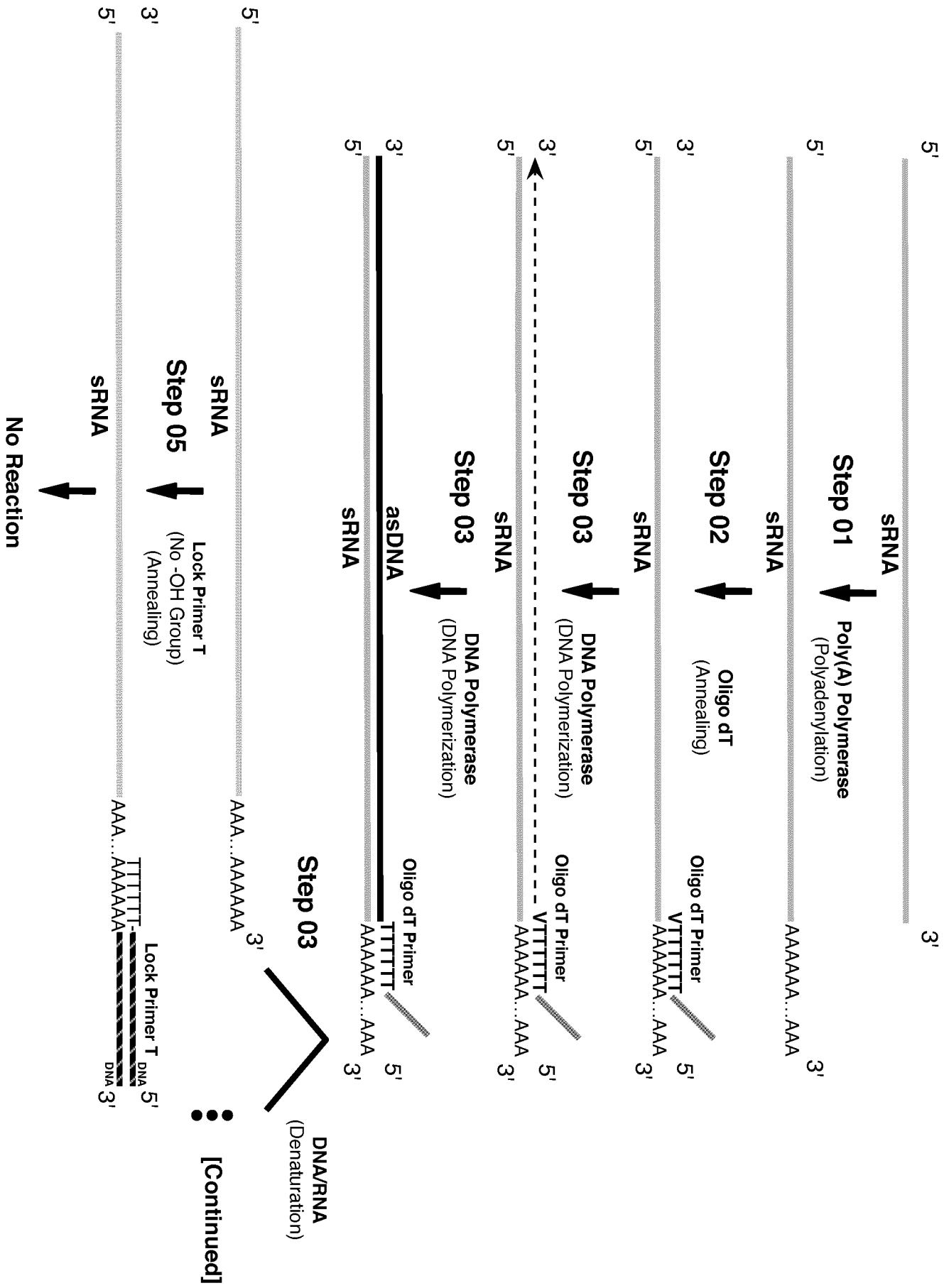


Fig. 19A

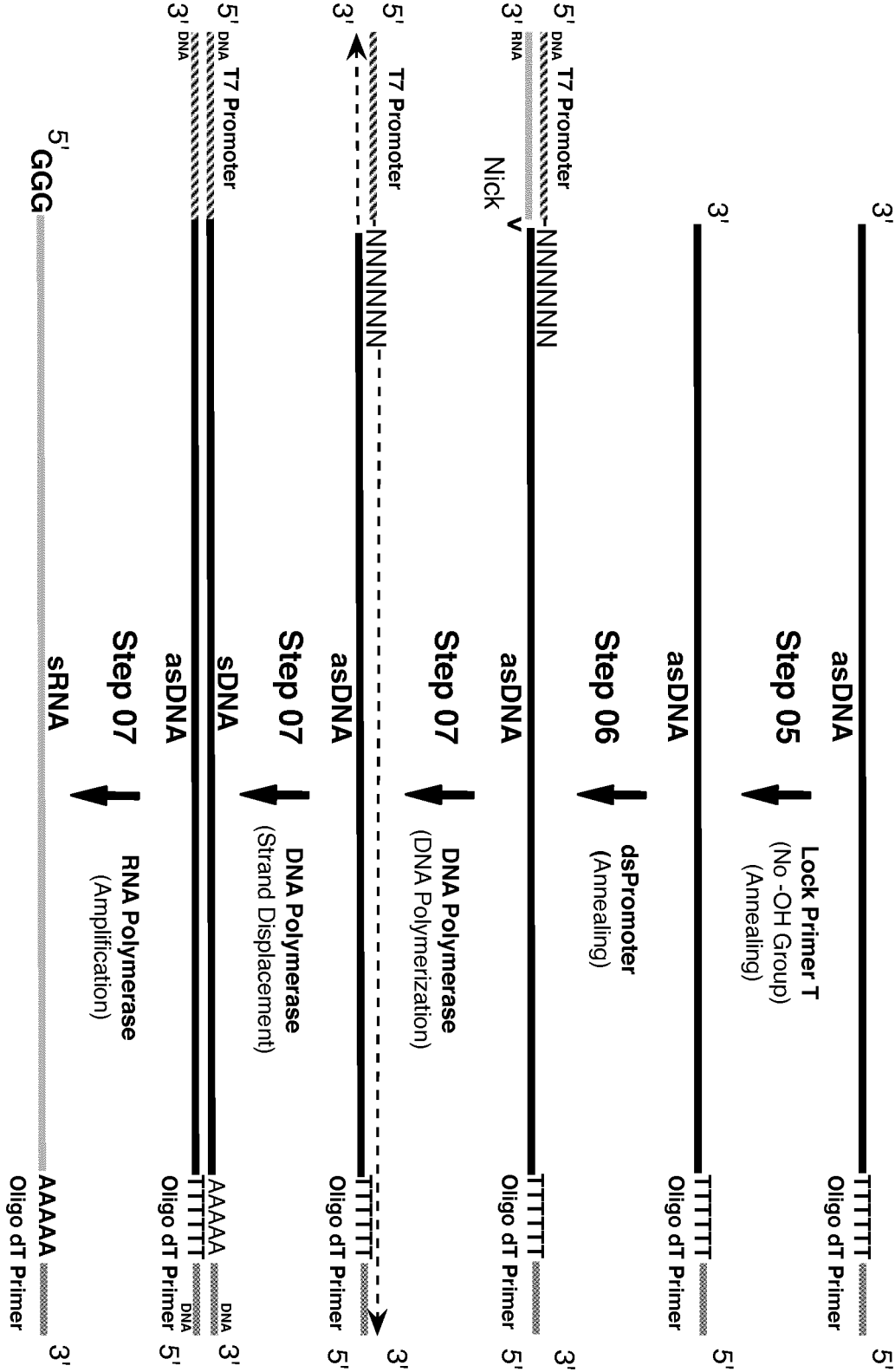


Fig. 19B

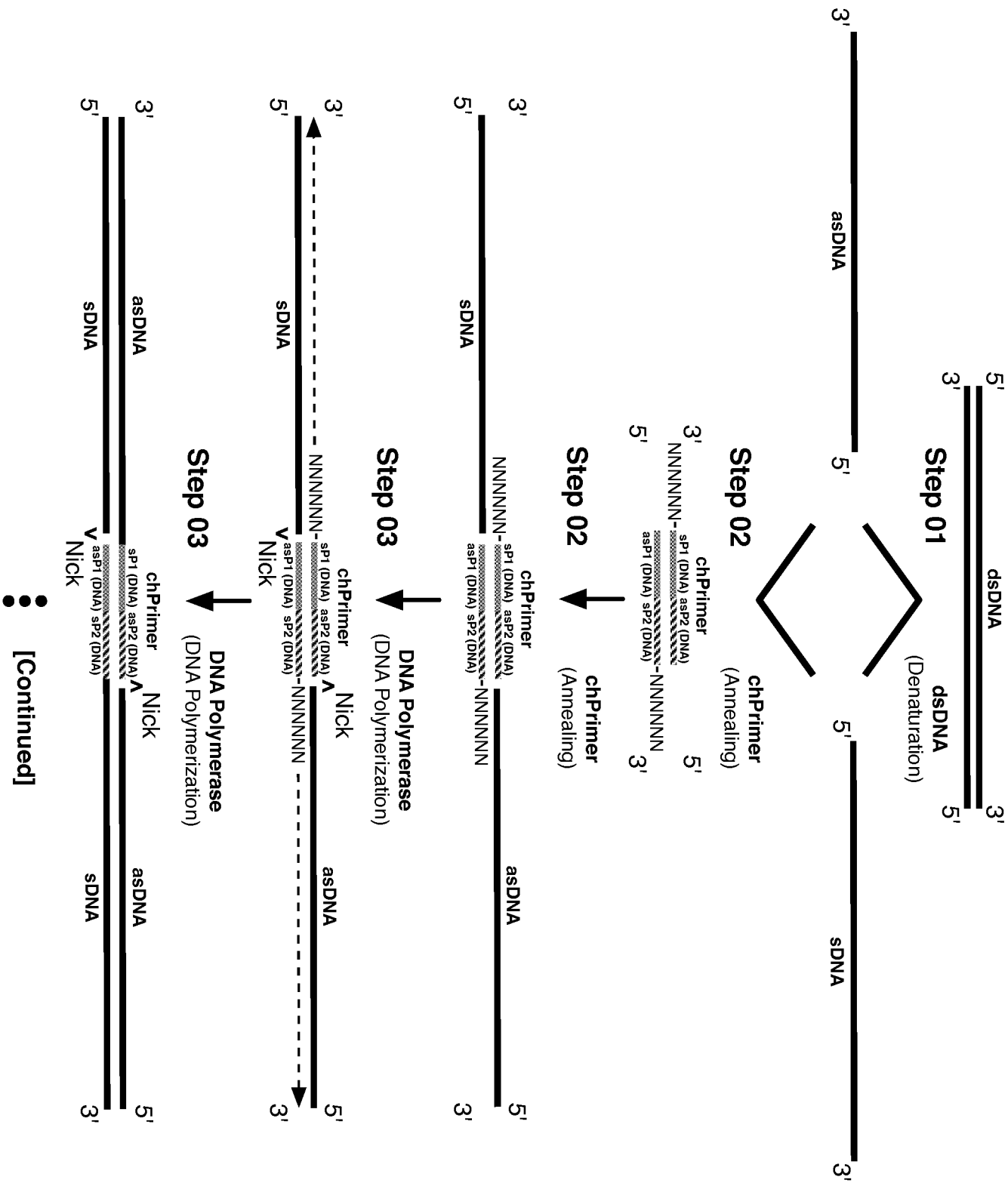


Fig. 20A

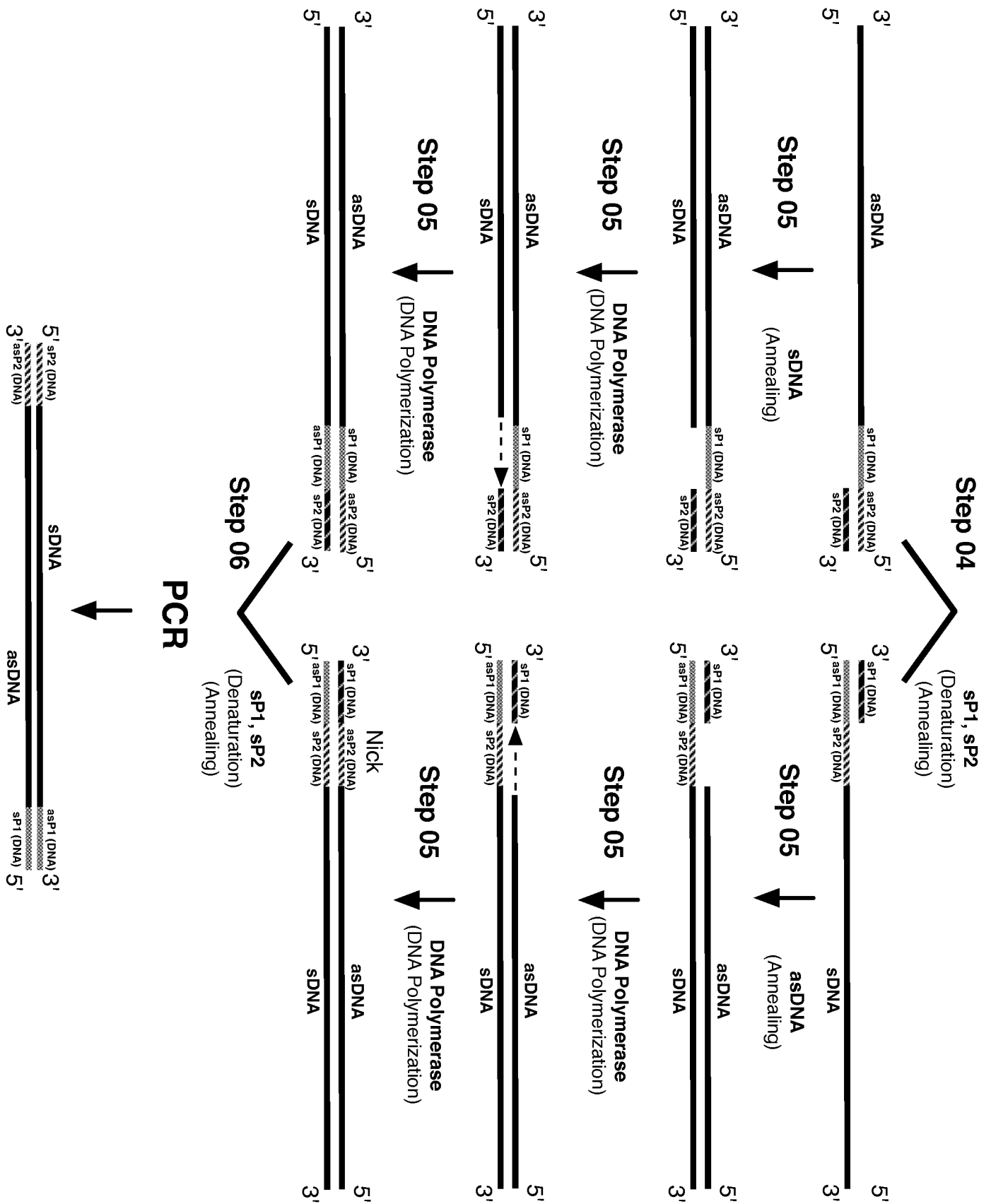


Fig. 20B

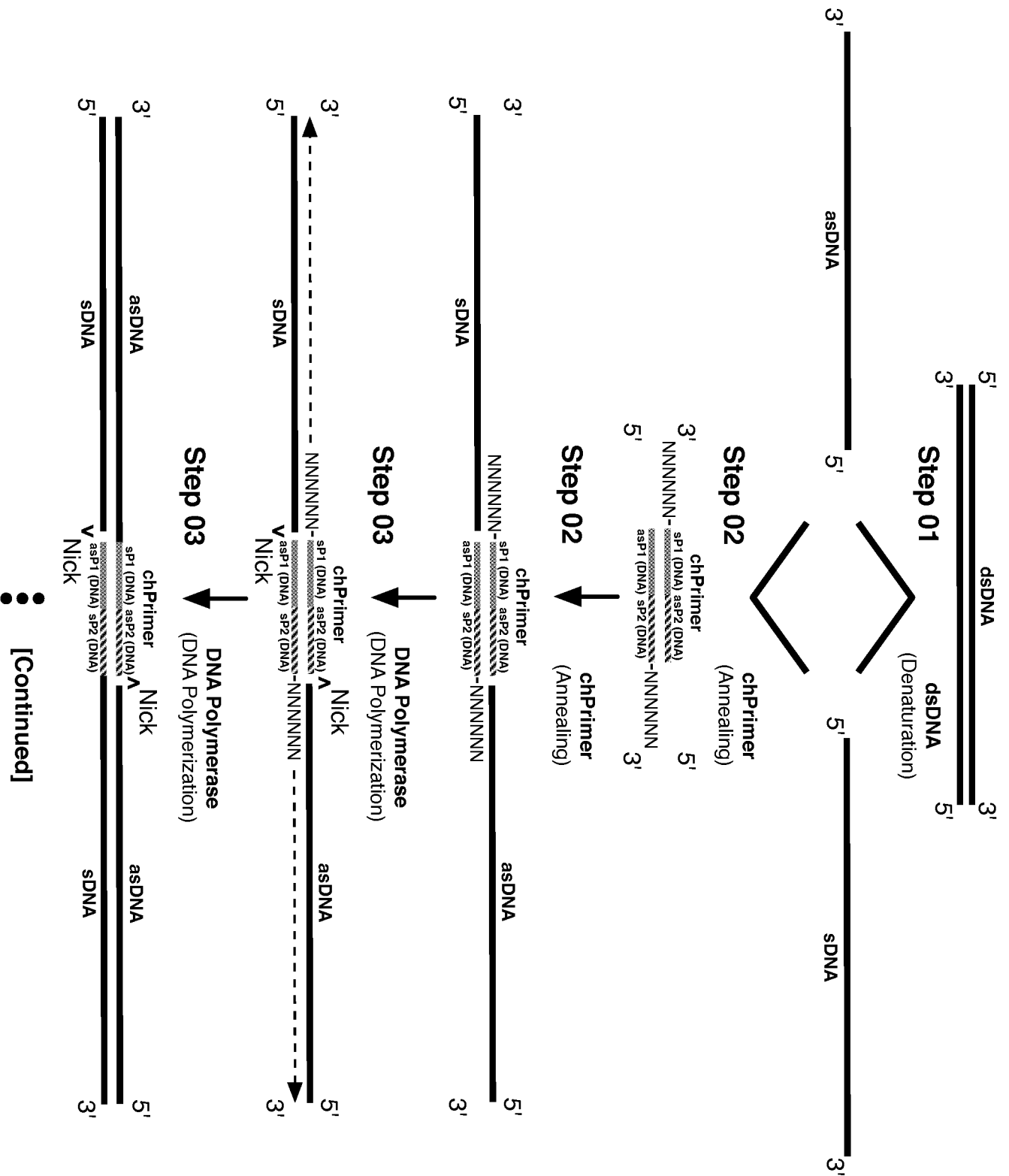


Fig. 21A

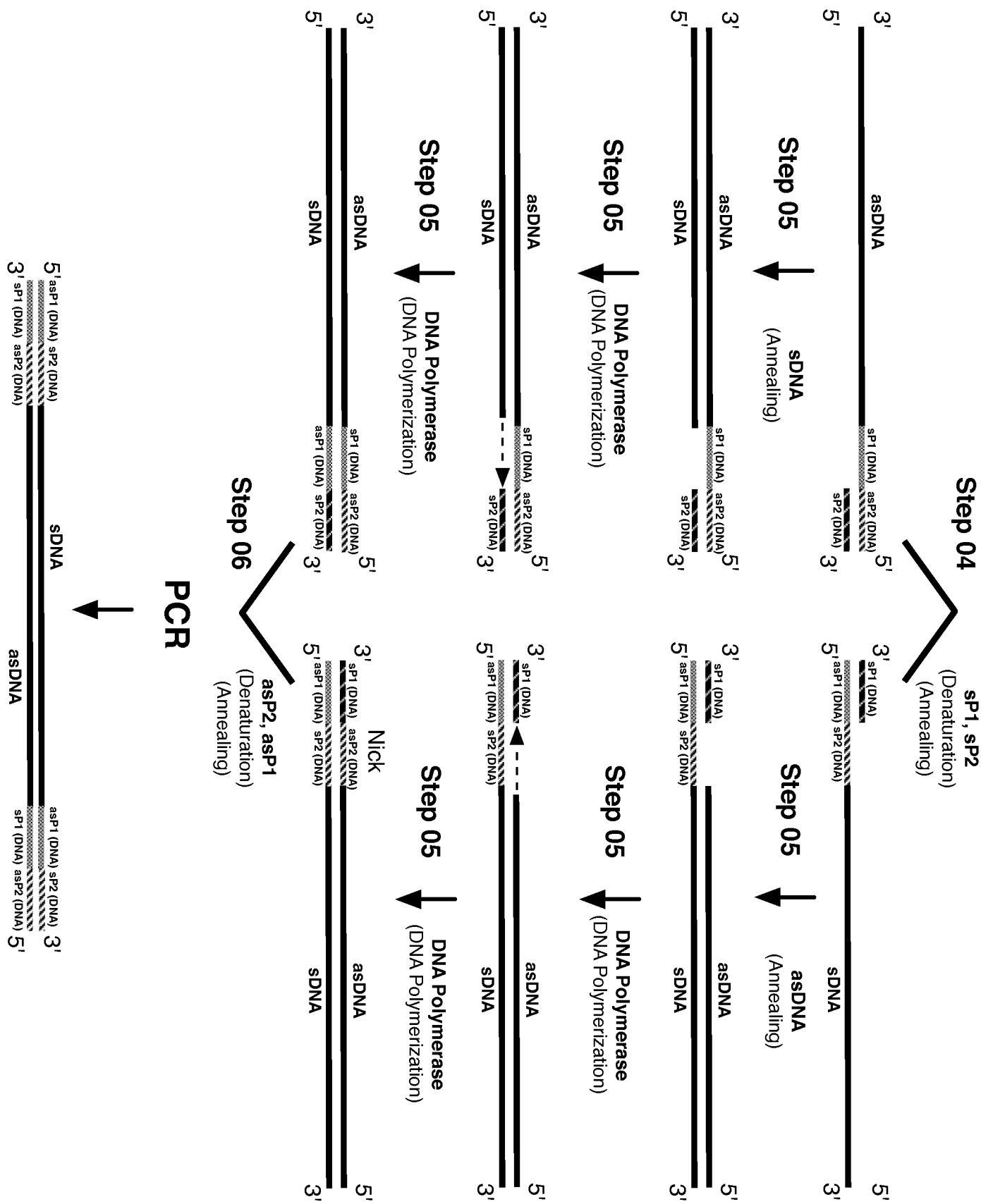


Fig. 21B

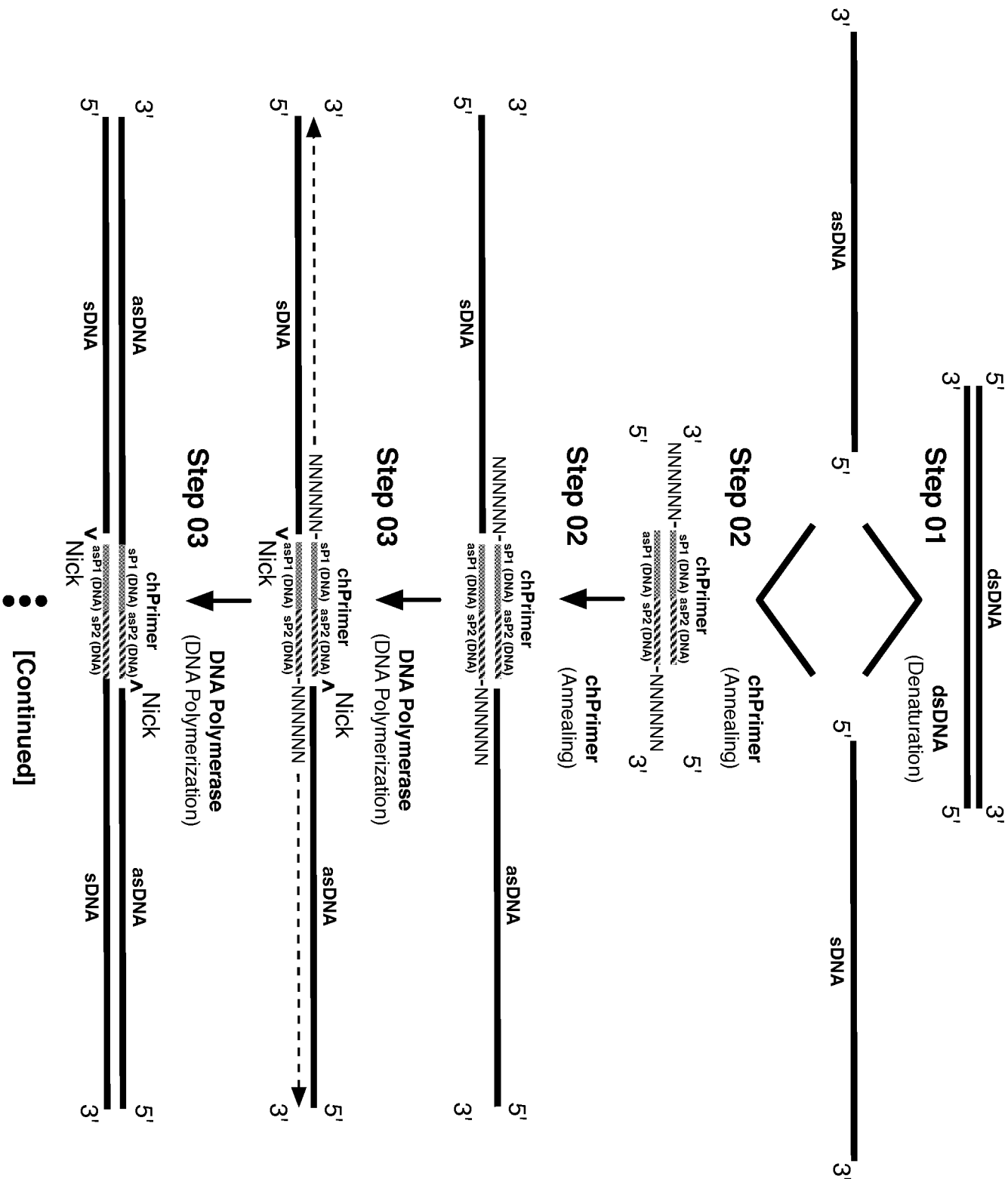


Fig. 22A

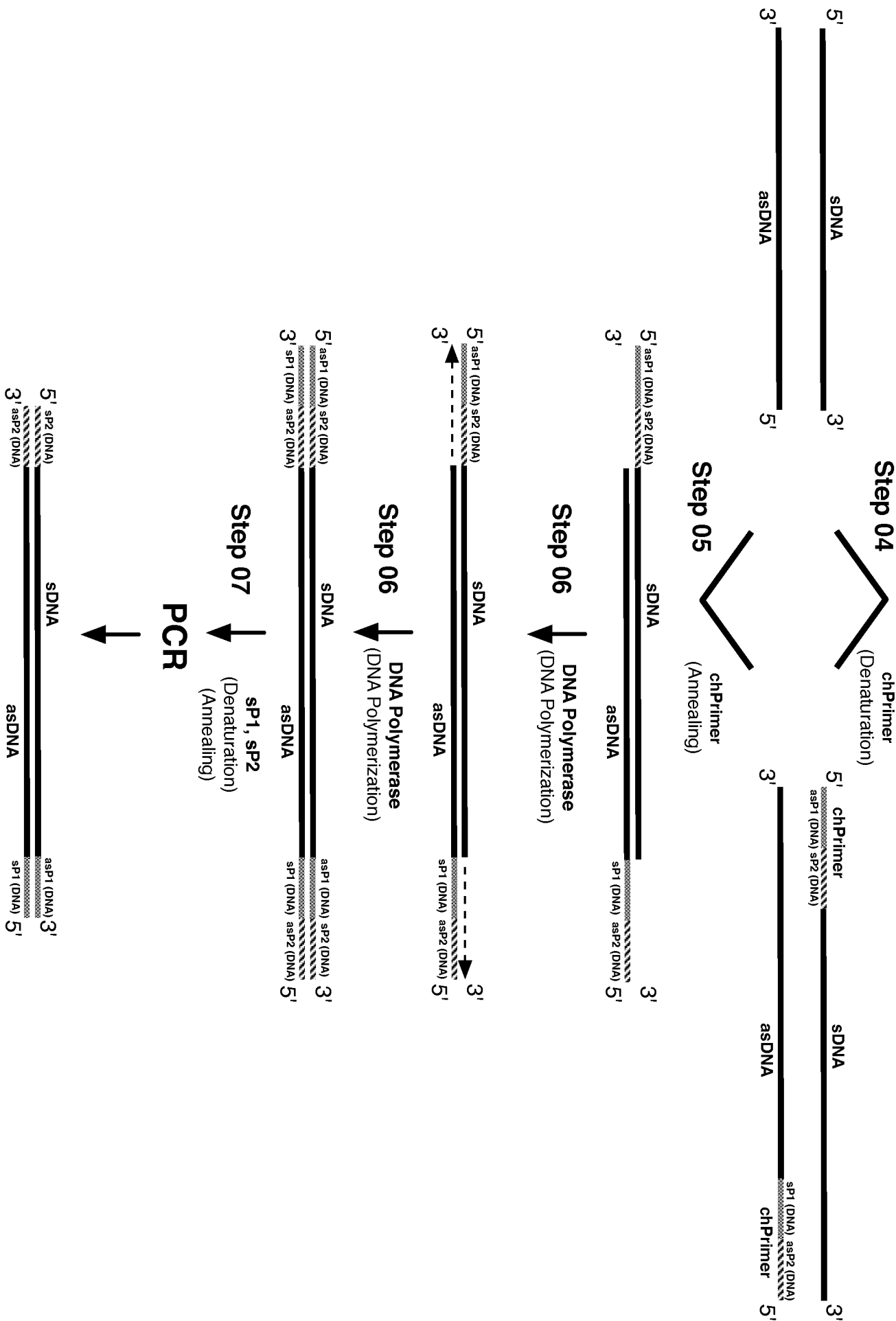


Fig. 22B

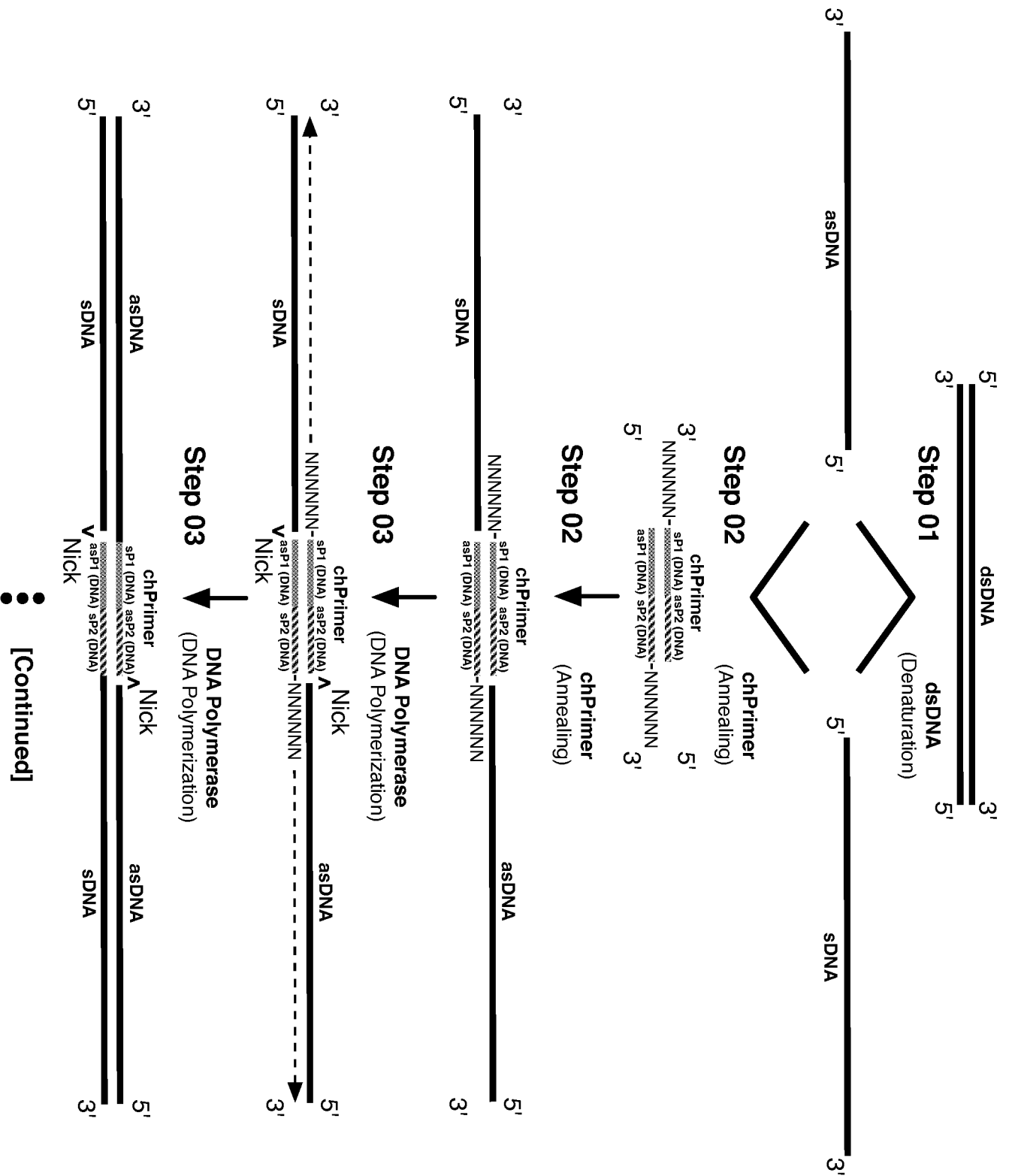


Fig. 23A

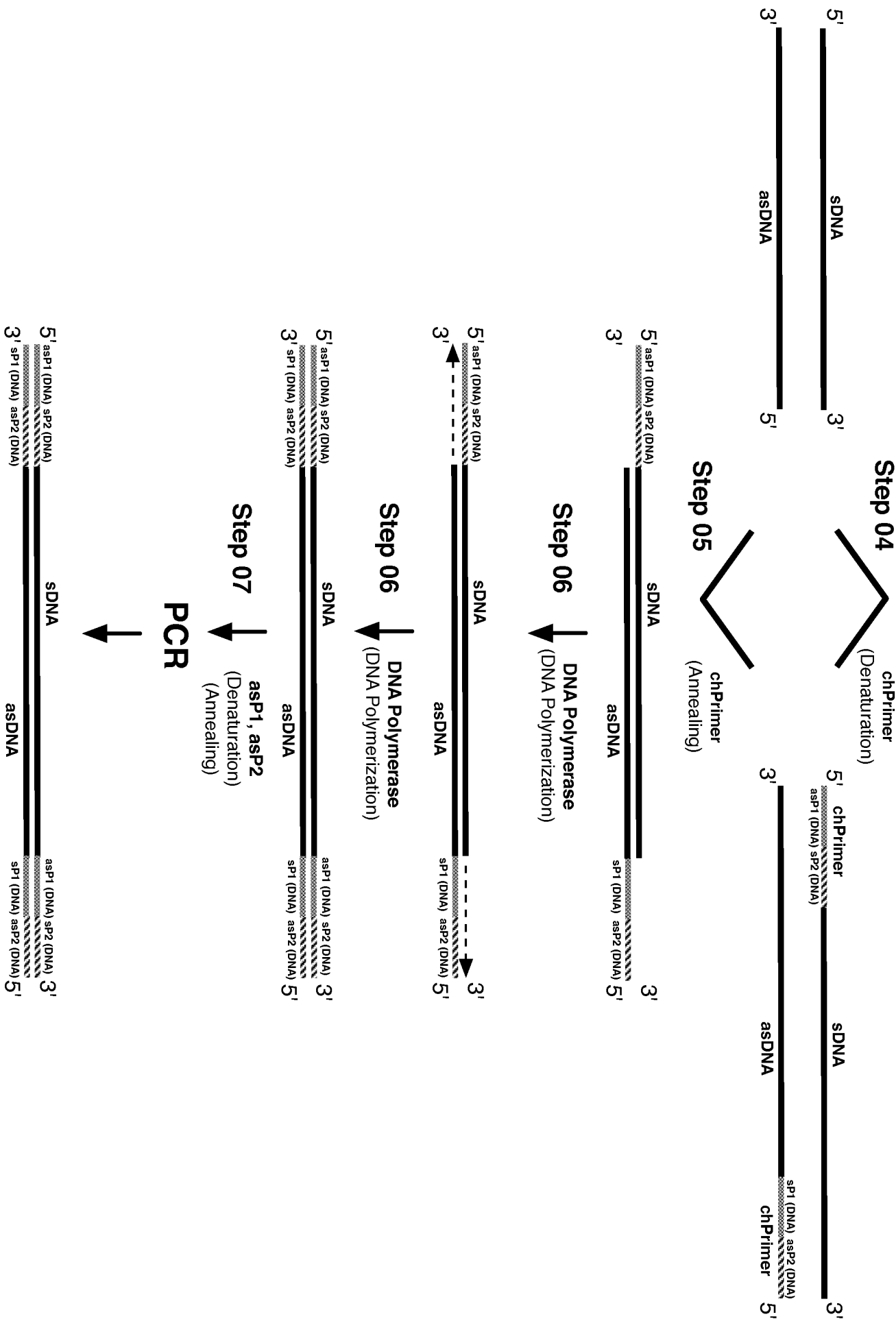
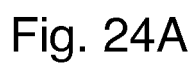
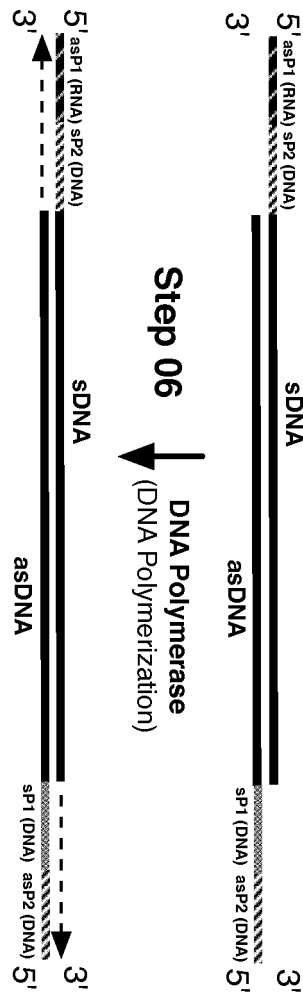
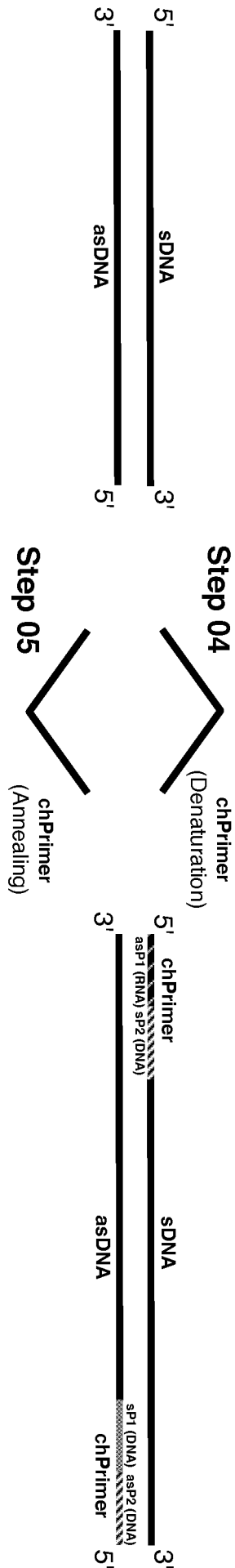
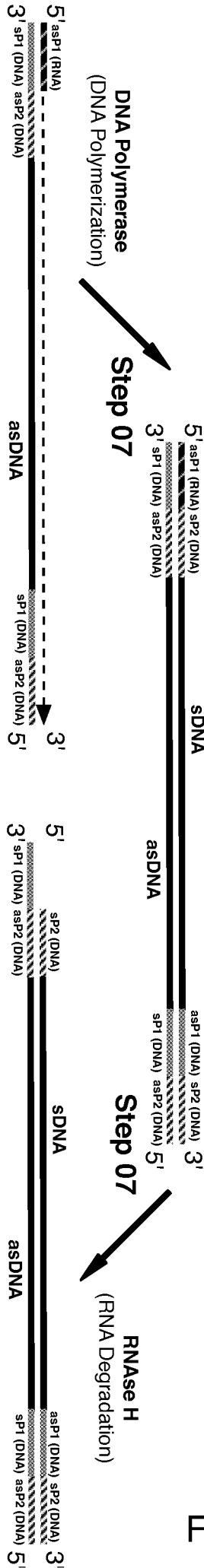


Fig. 23B





Step 06
↓
DNA Polymerase
(DNA Polymerization)



DNA Polymerase
(DNA Polymerization)

Step 07

RNAse H
(RNA Degradation)

DNA Polymerase
(Strand Displacement)

Step 07

Step 07

asp1 RNA Primer
(Annealing)



Step 07
↓
DNA Polymerase
(Strand Displacement)

Fig. 24B

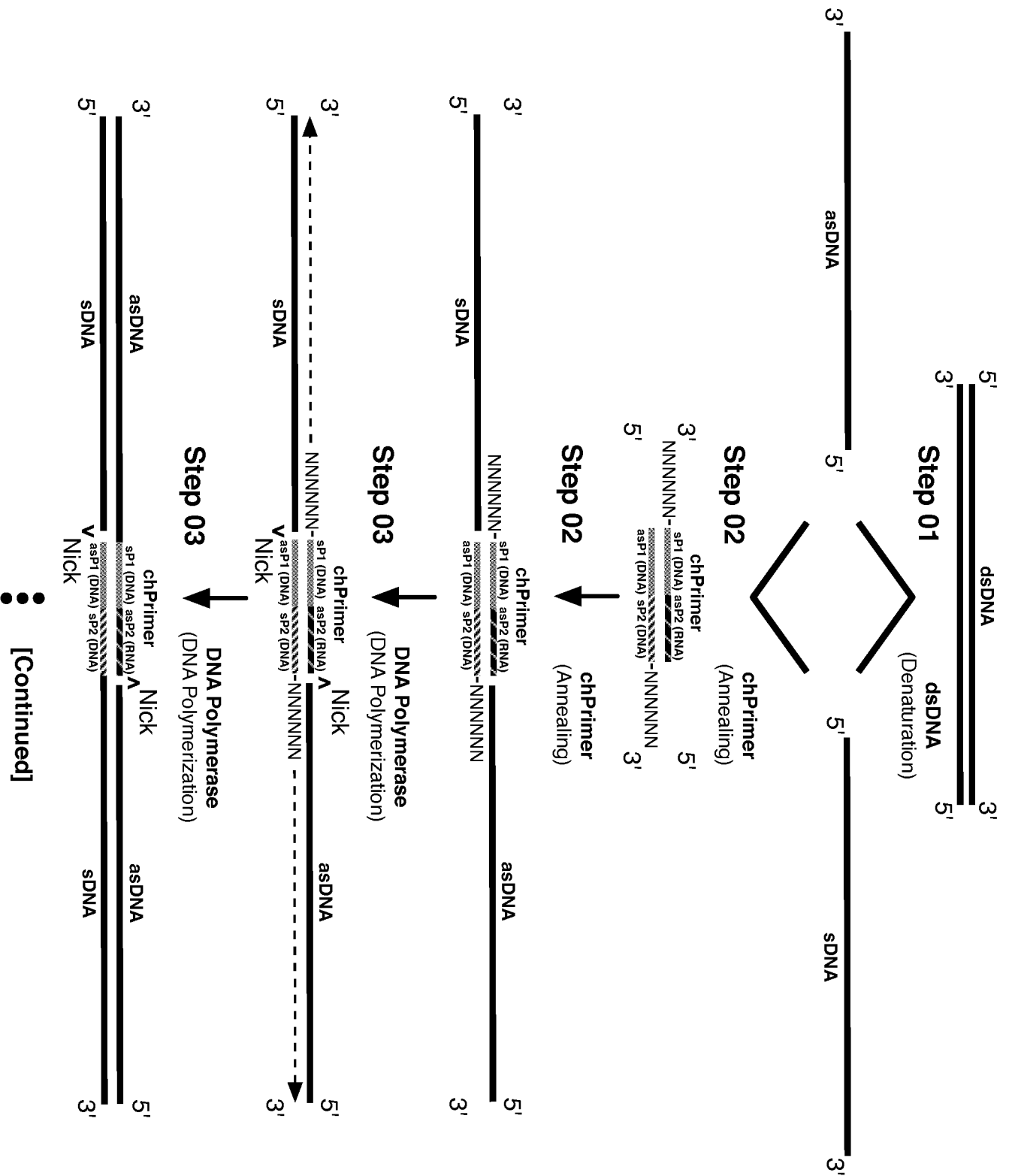


Fig. 25A

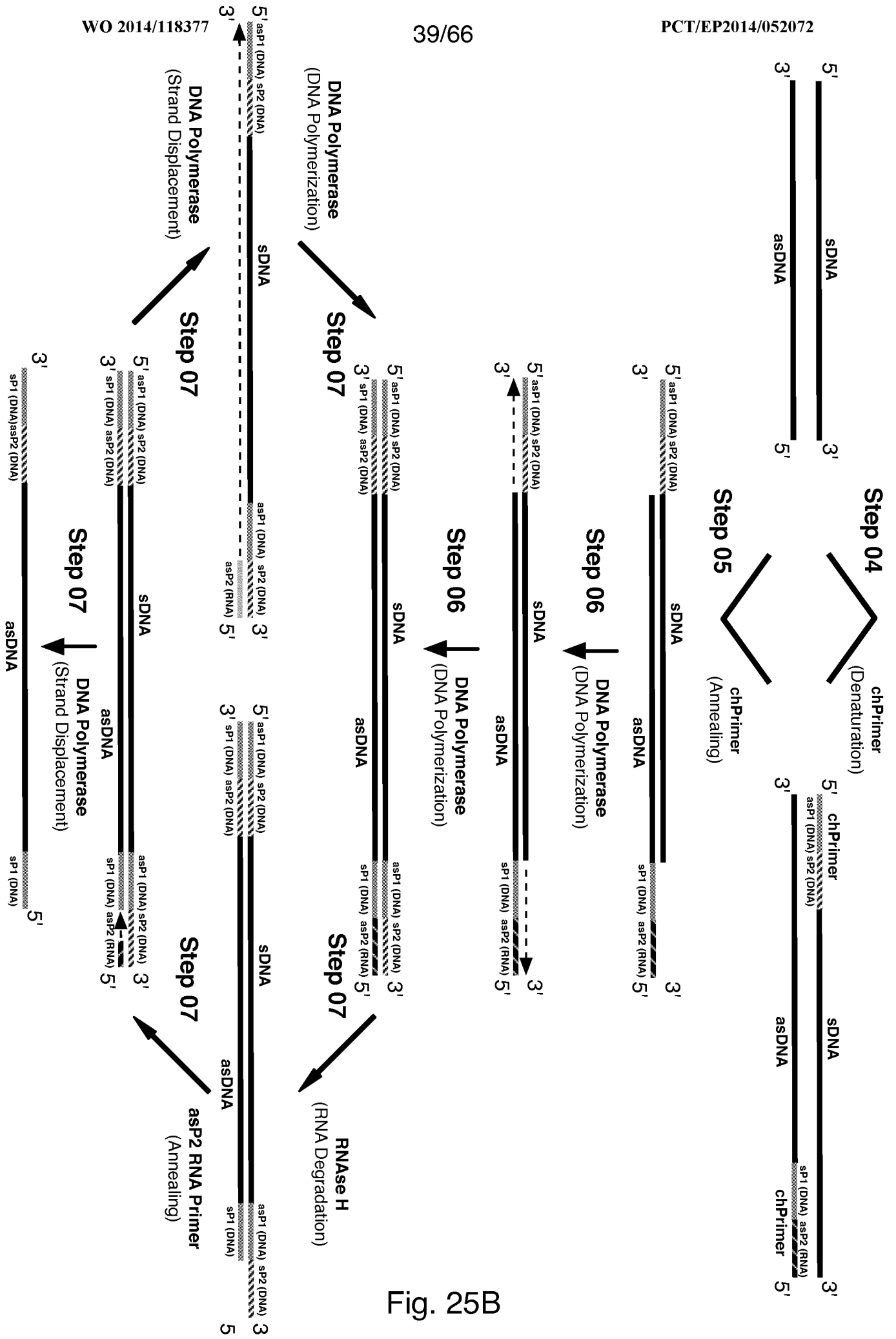


Fig. 25B

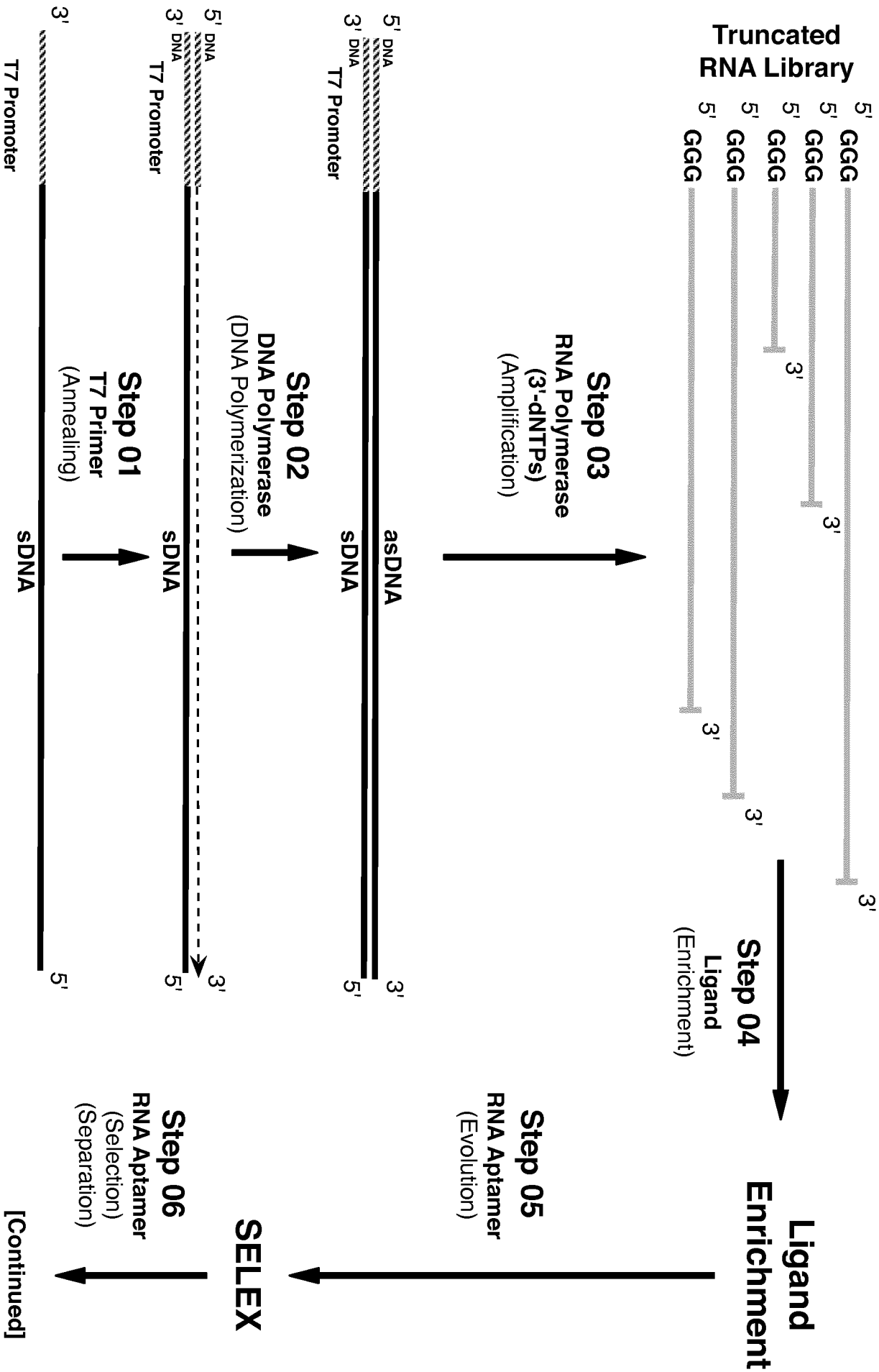


Fig. 26A

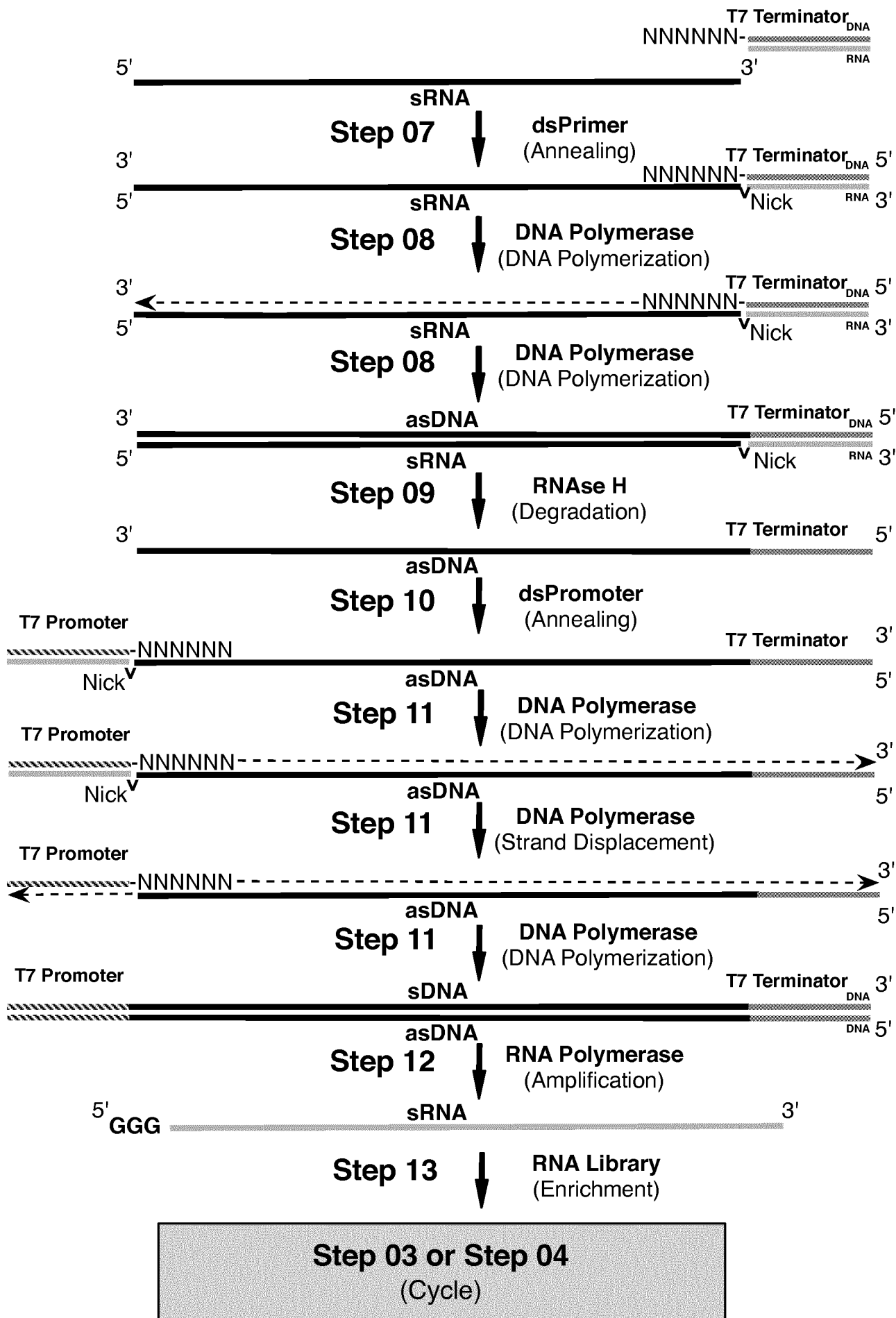


Fig. 26B

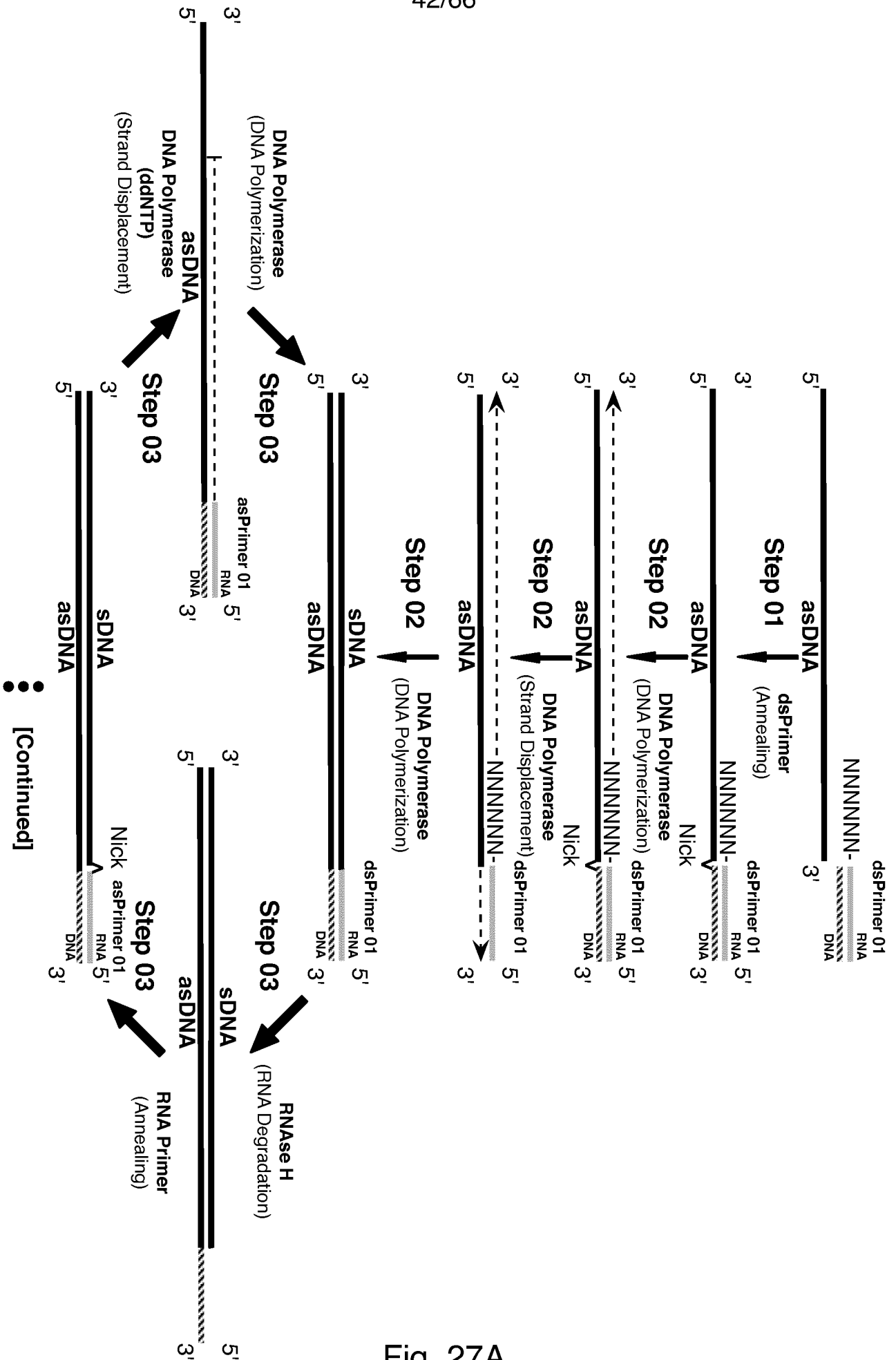


Fig. 27A

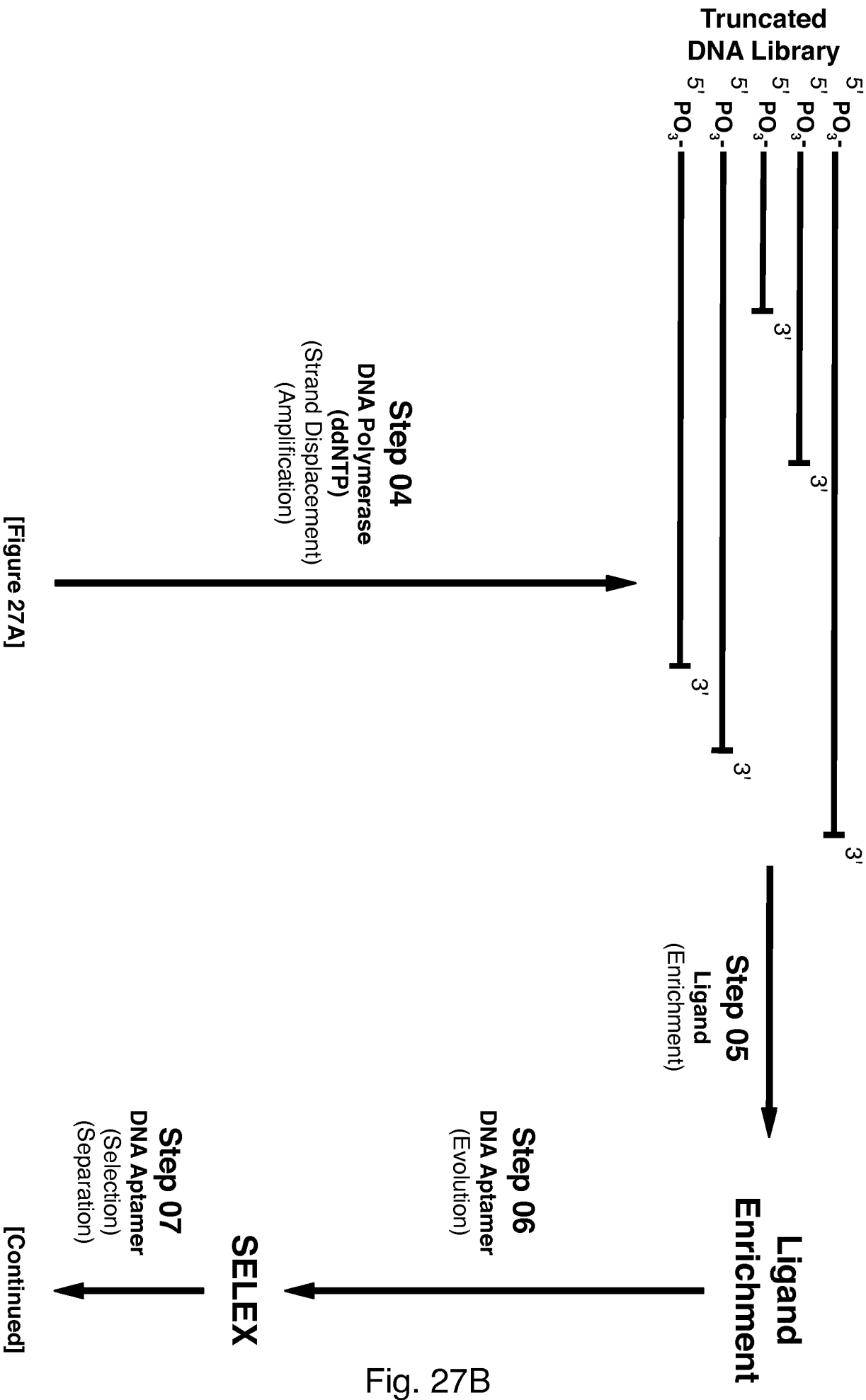


Fig. 27B

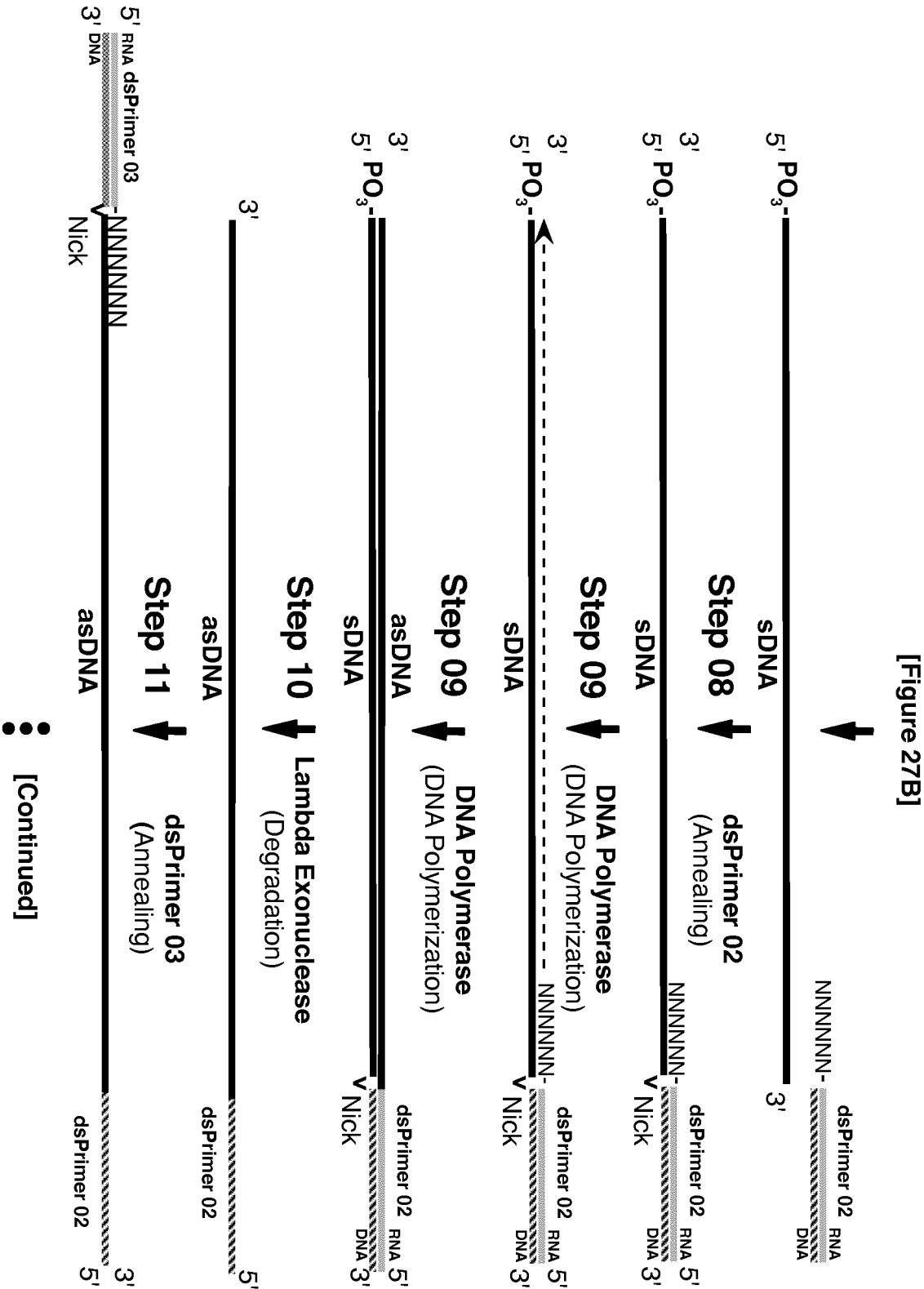


Fig. 27C

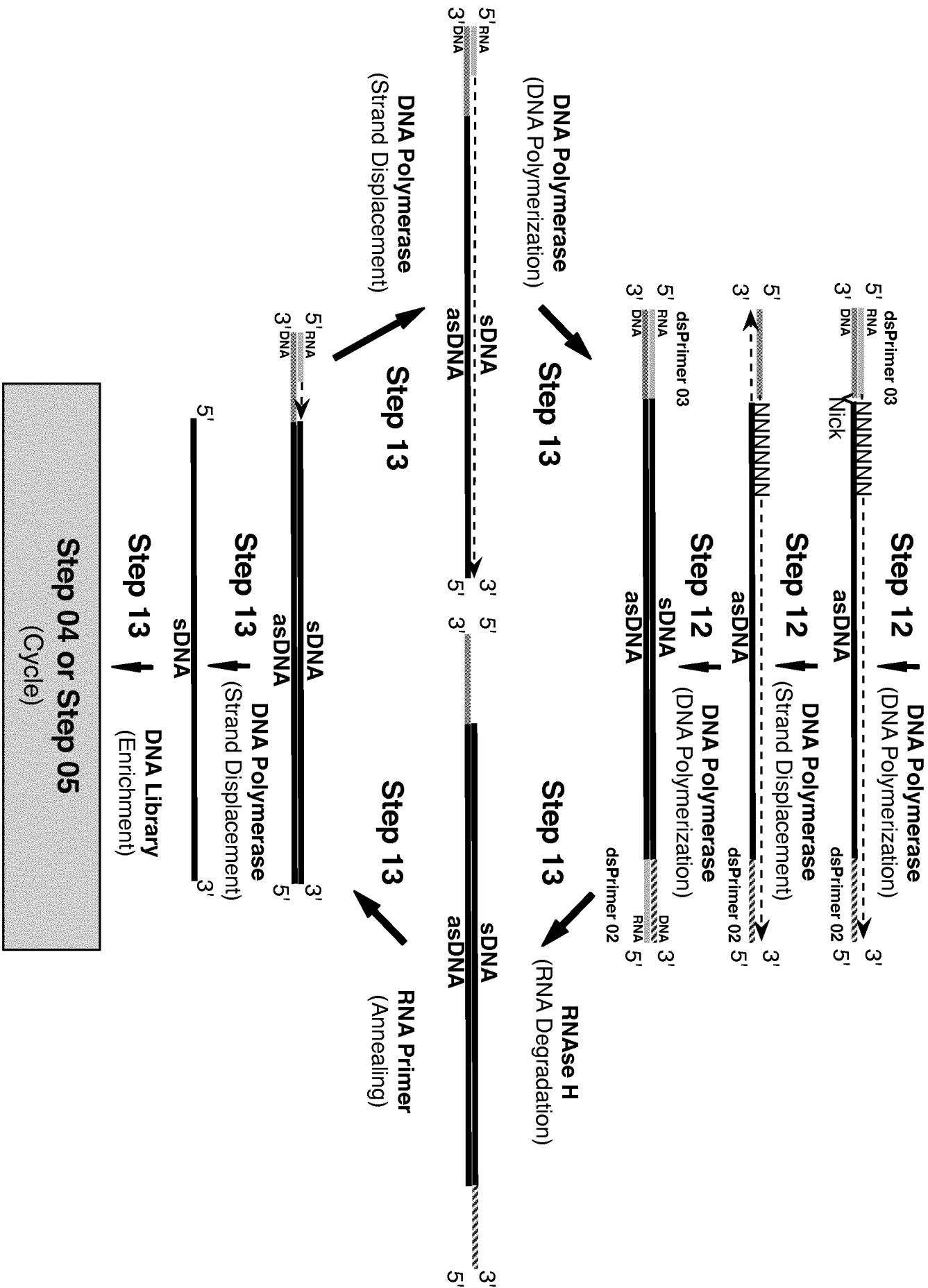


Fig. 27D

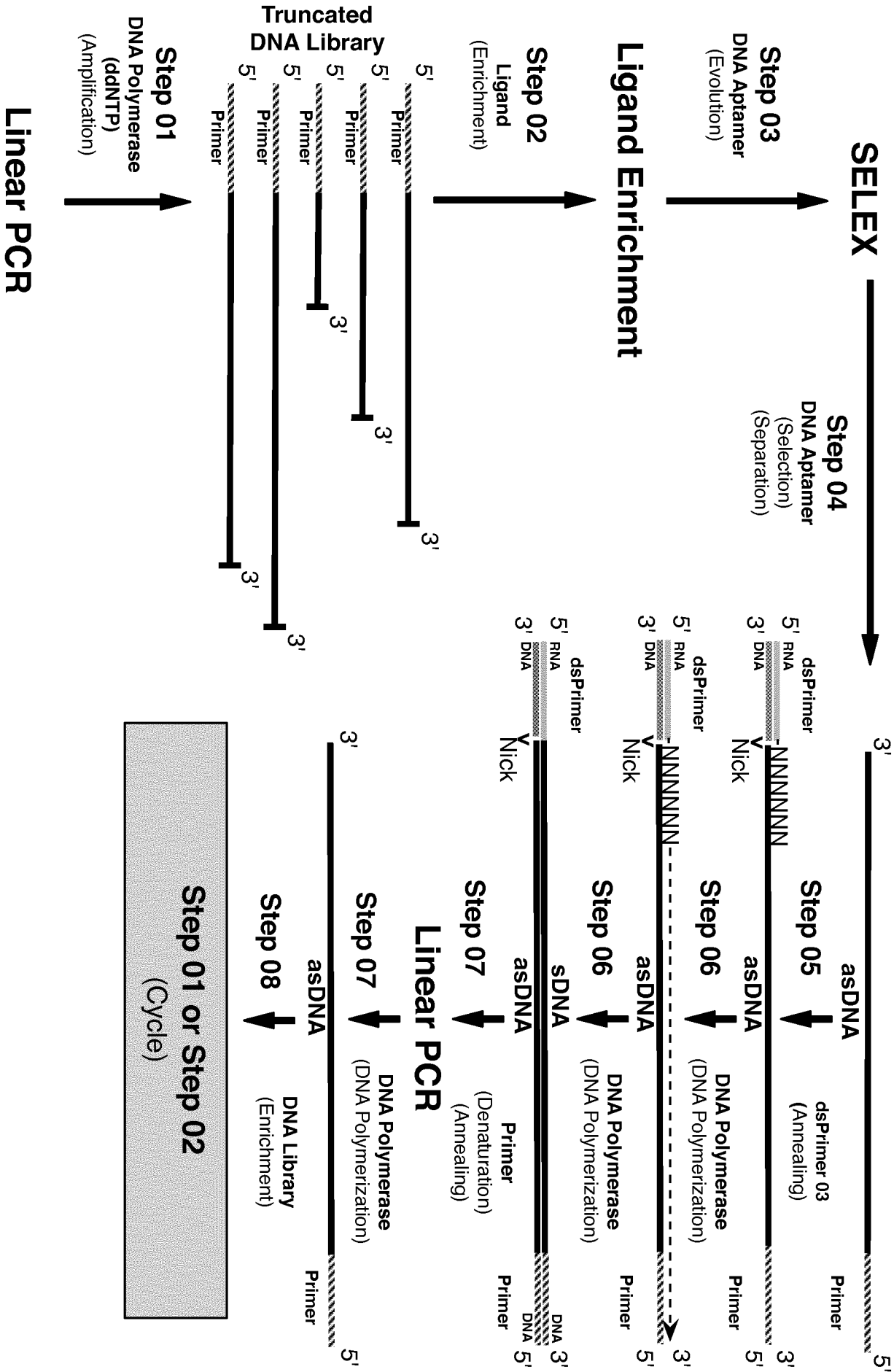


Fig. 28

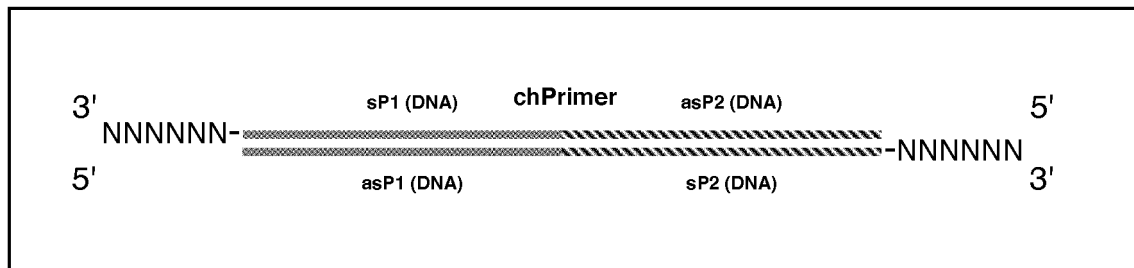
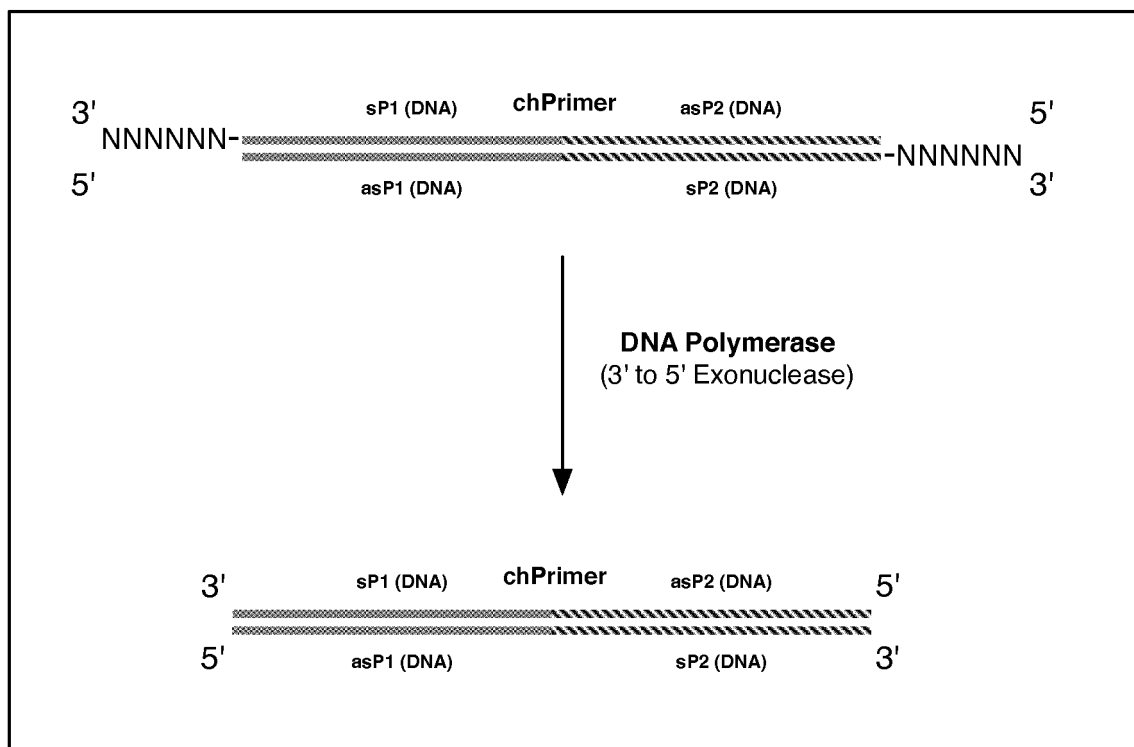
chPrimer Structure**chPrimer Silencing**

Fig. 29

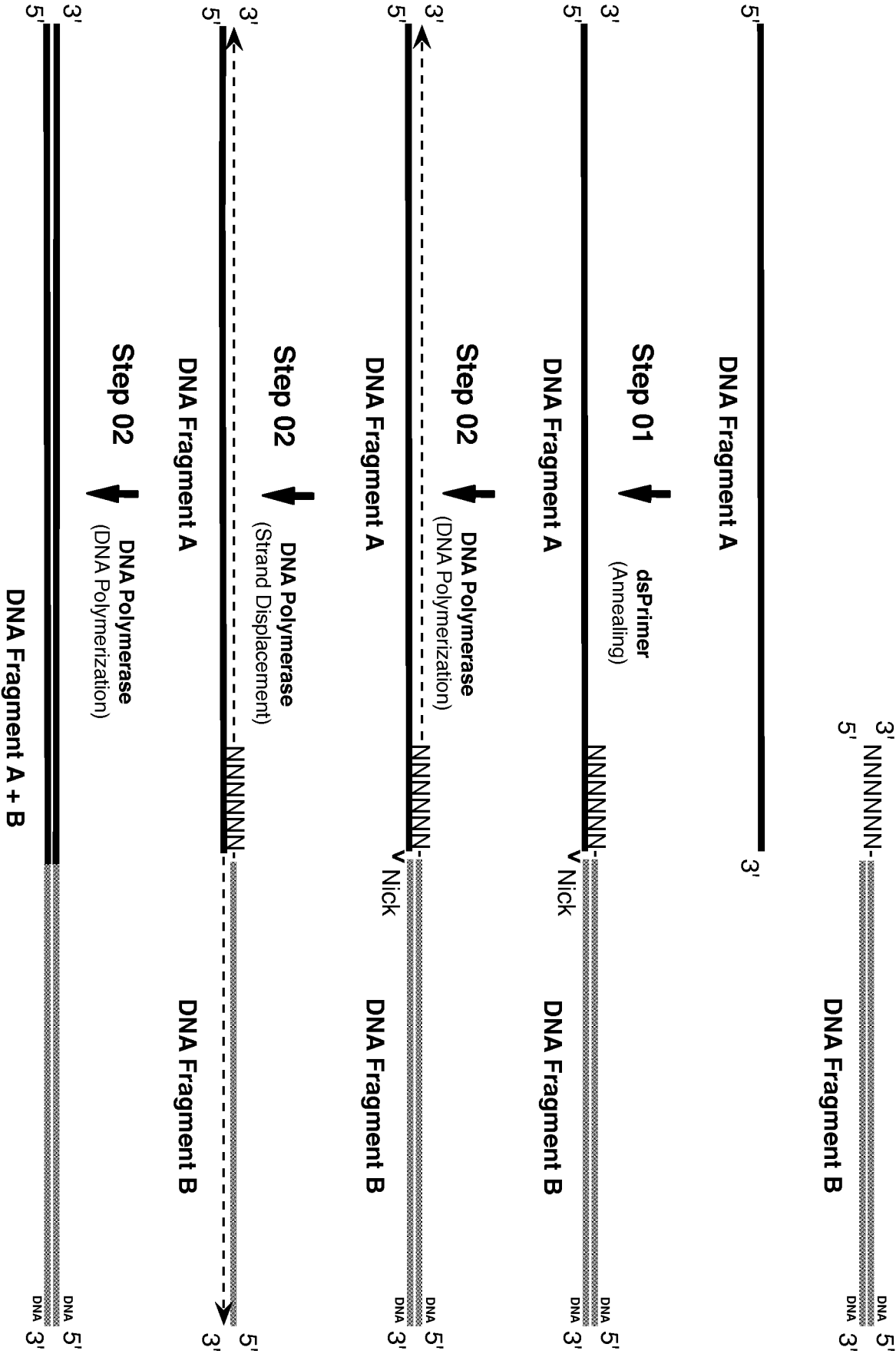
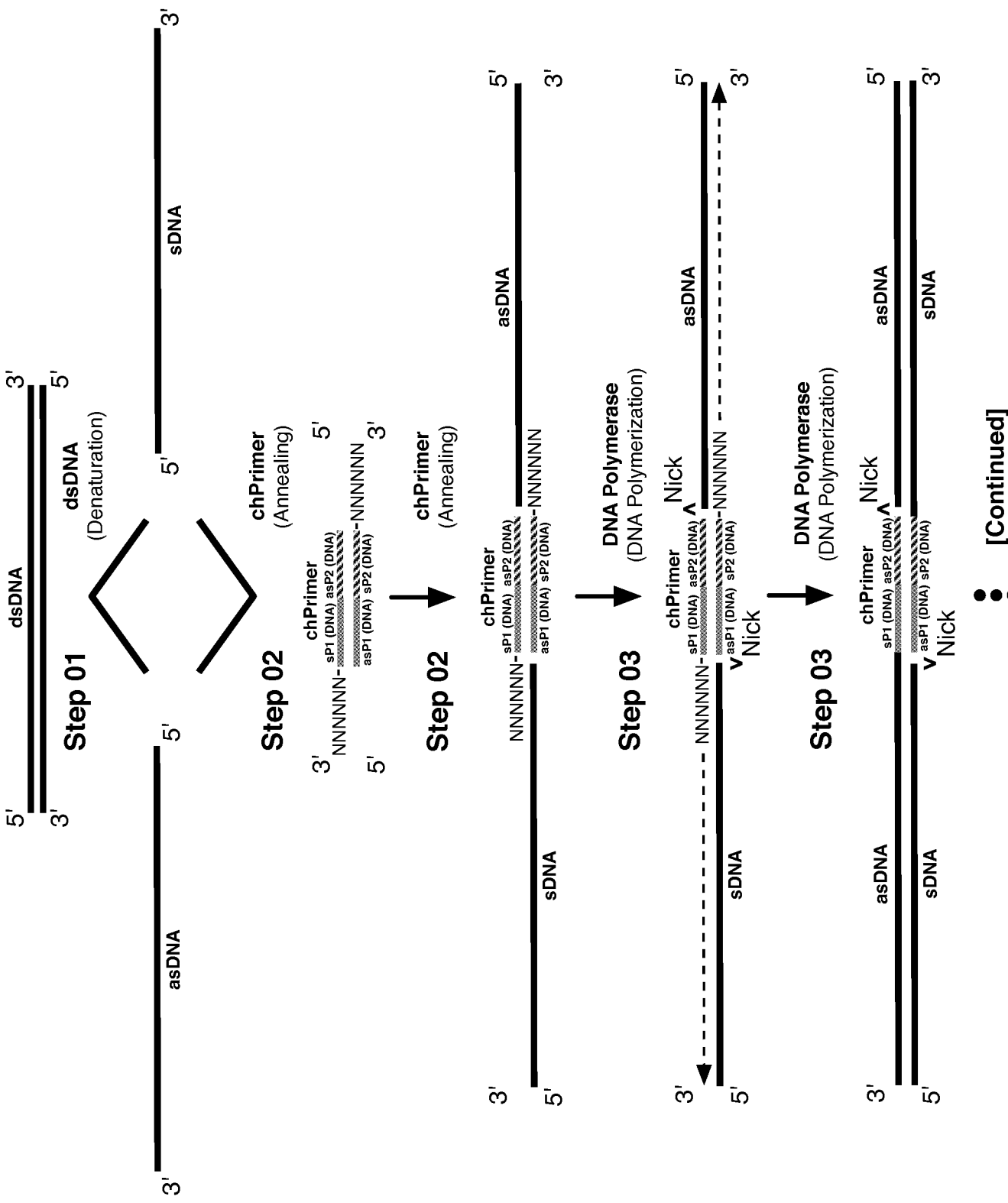


Fig. 30

Fig. 31A



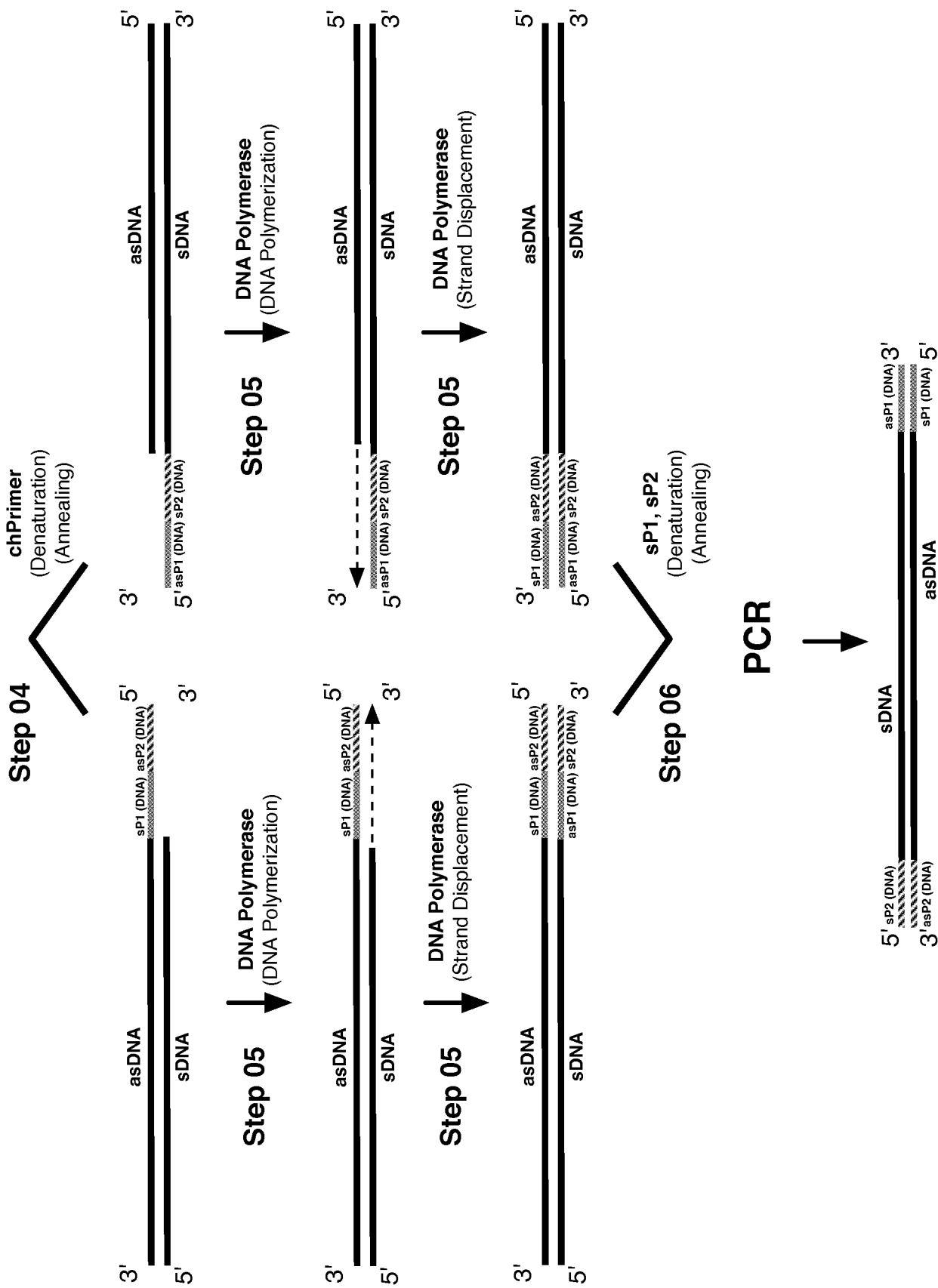
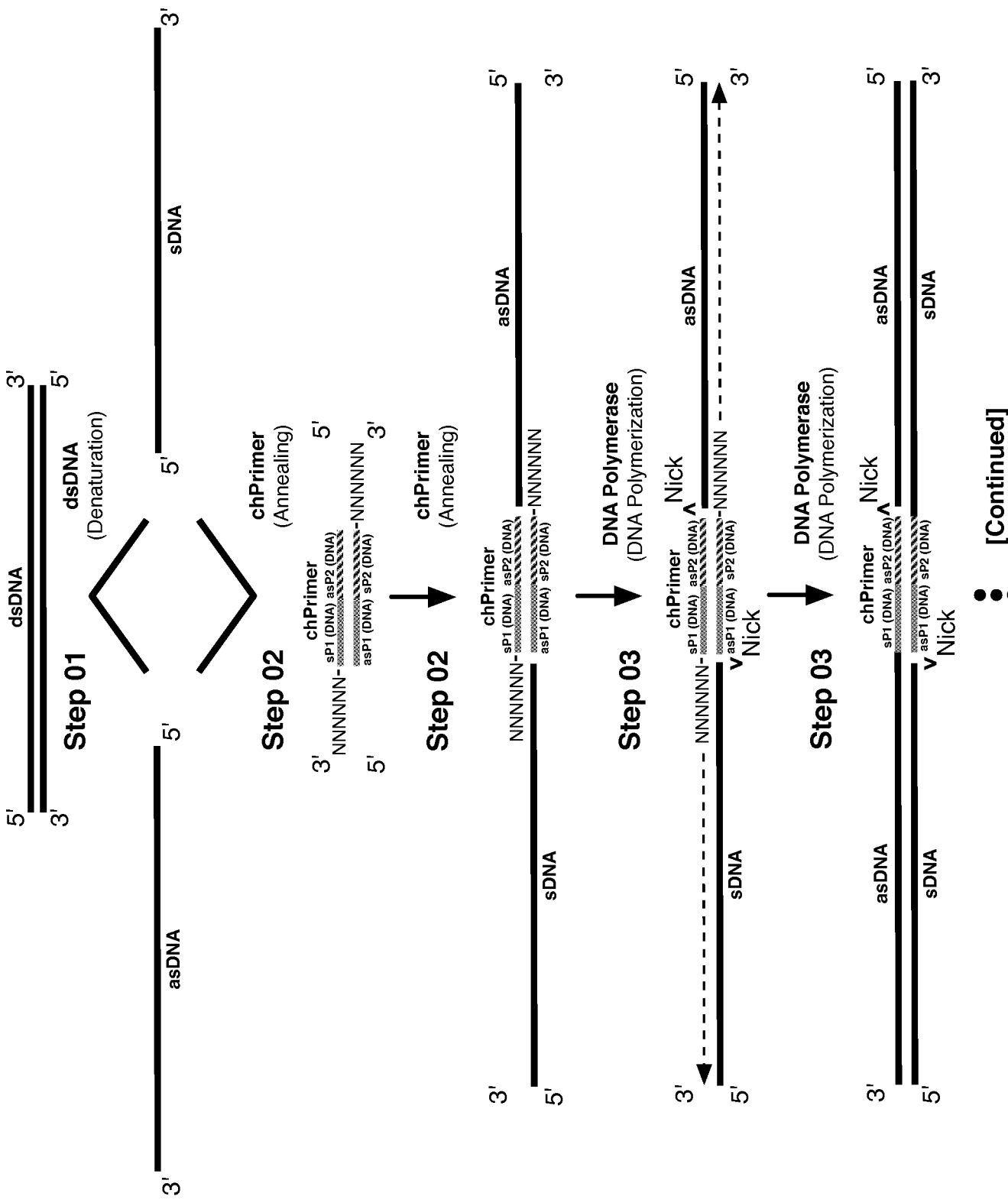


Fig. 31B

Fig. 32A



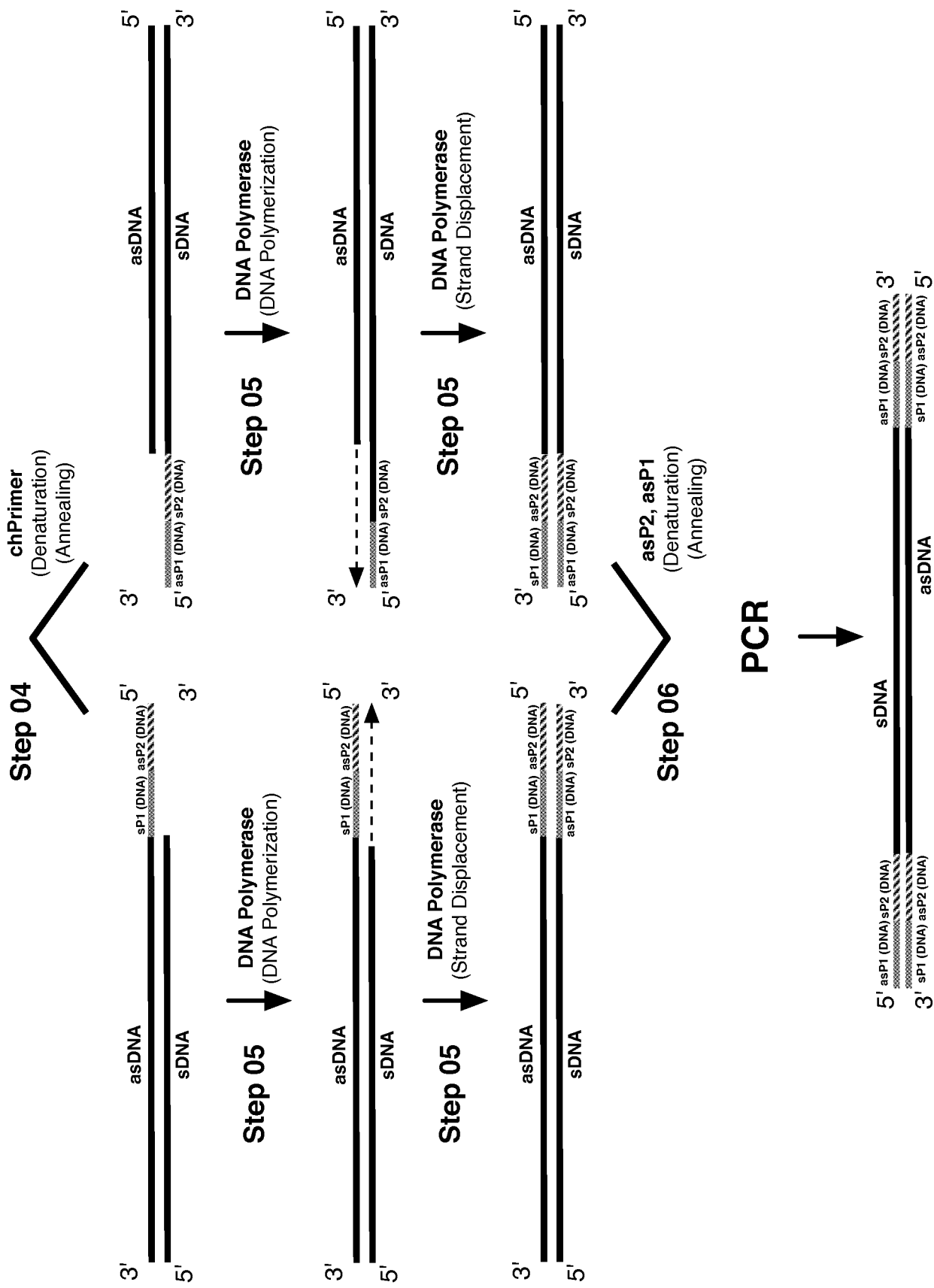


Fig. 32B

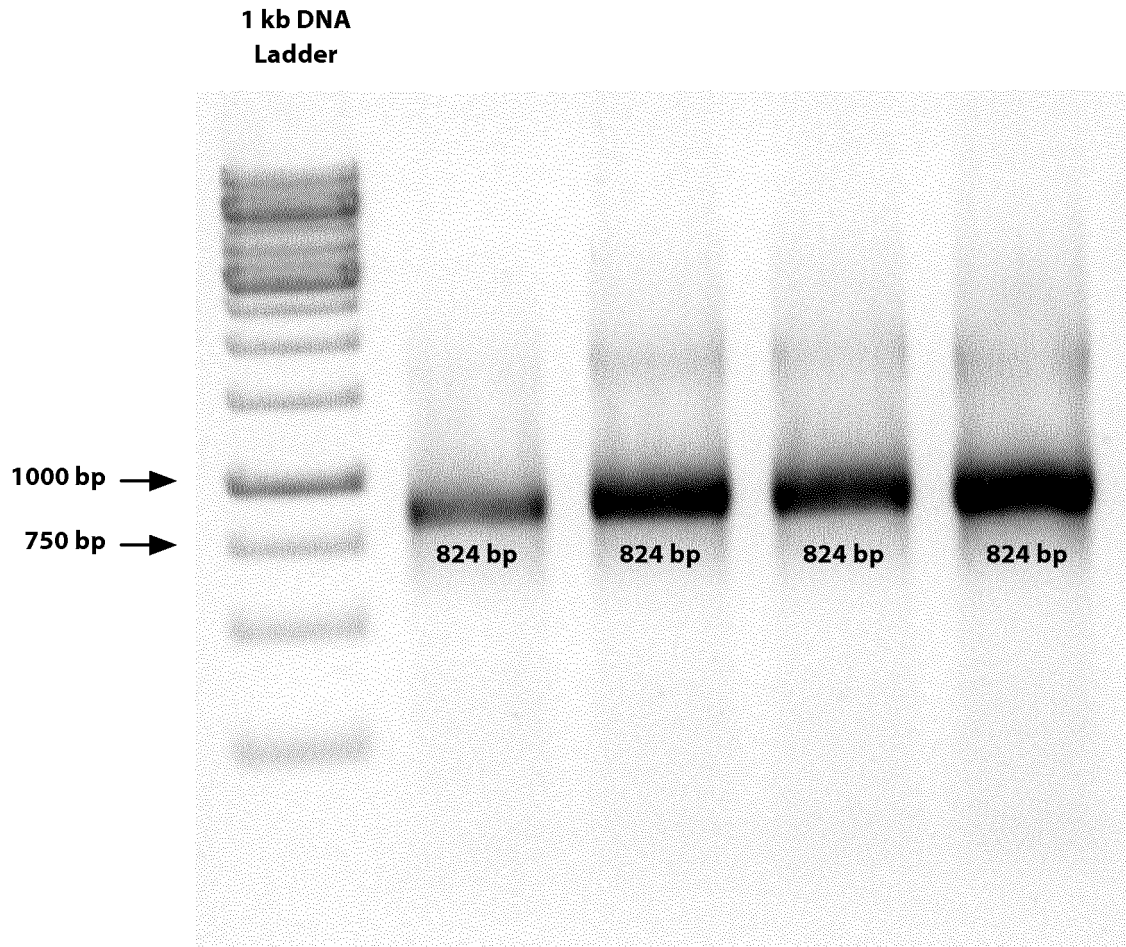


Fig. 33

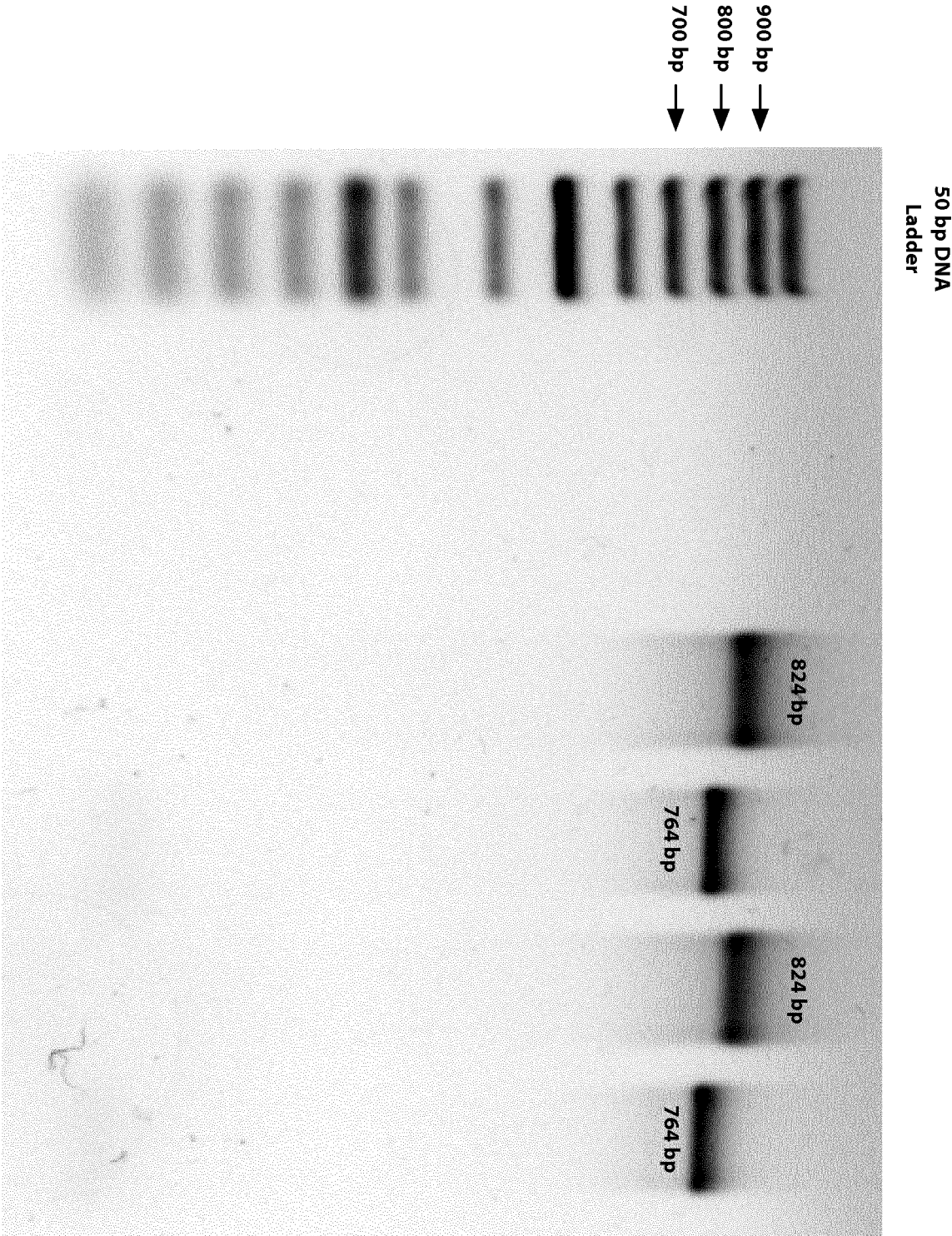


Fig. 34

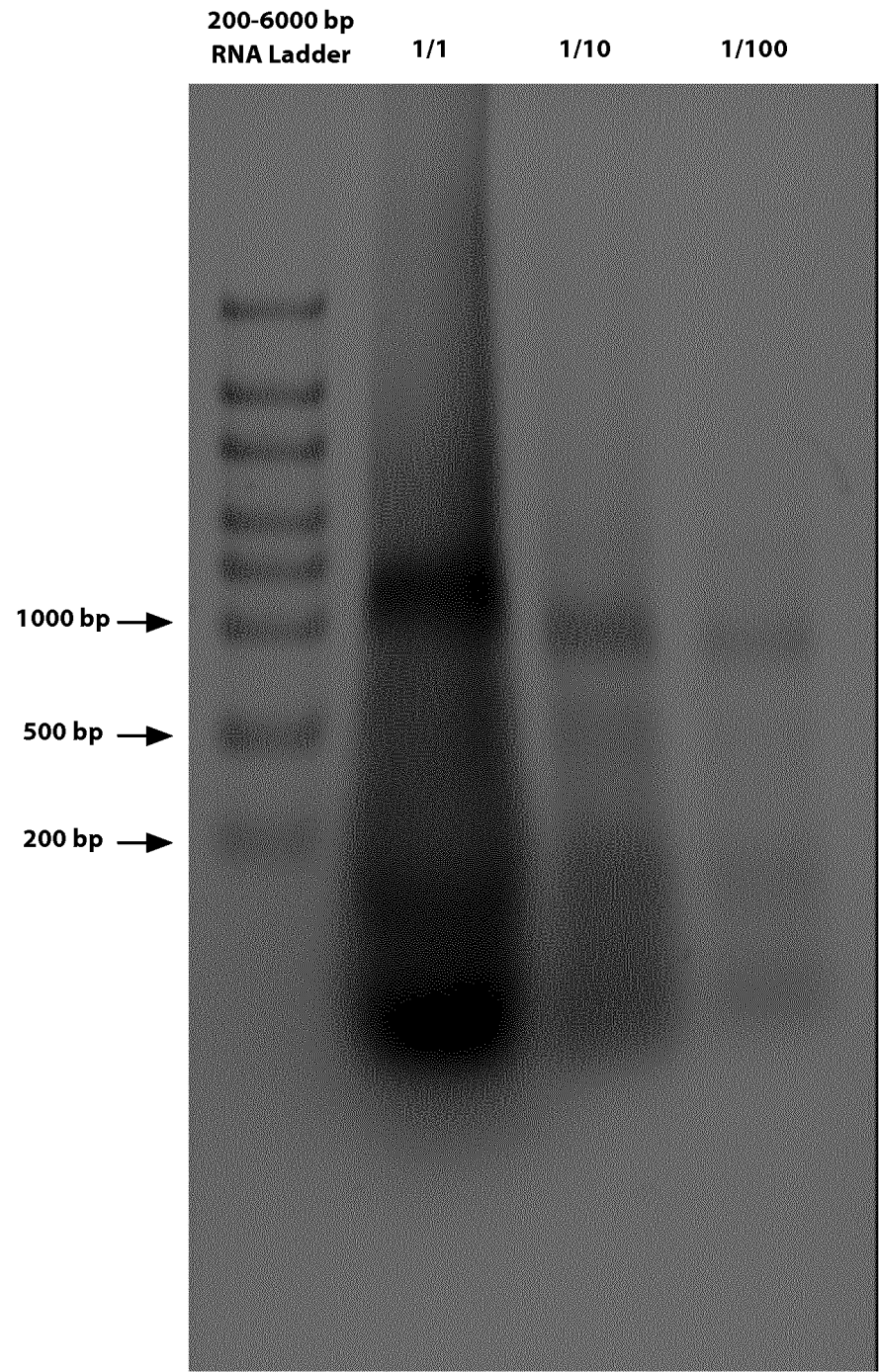


Fig. 35

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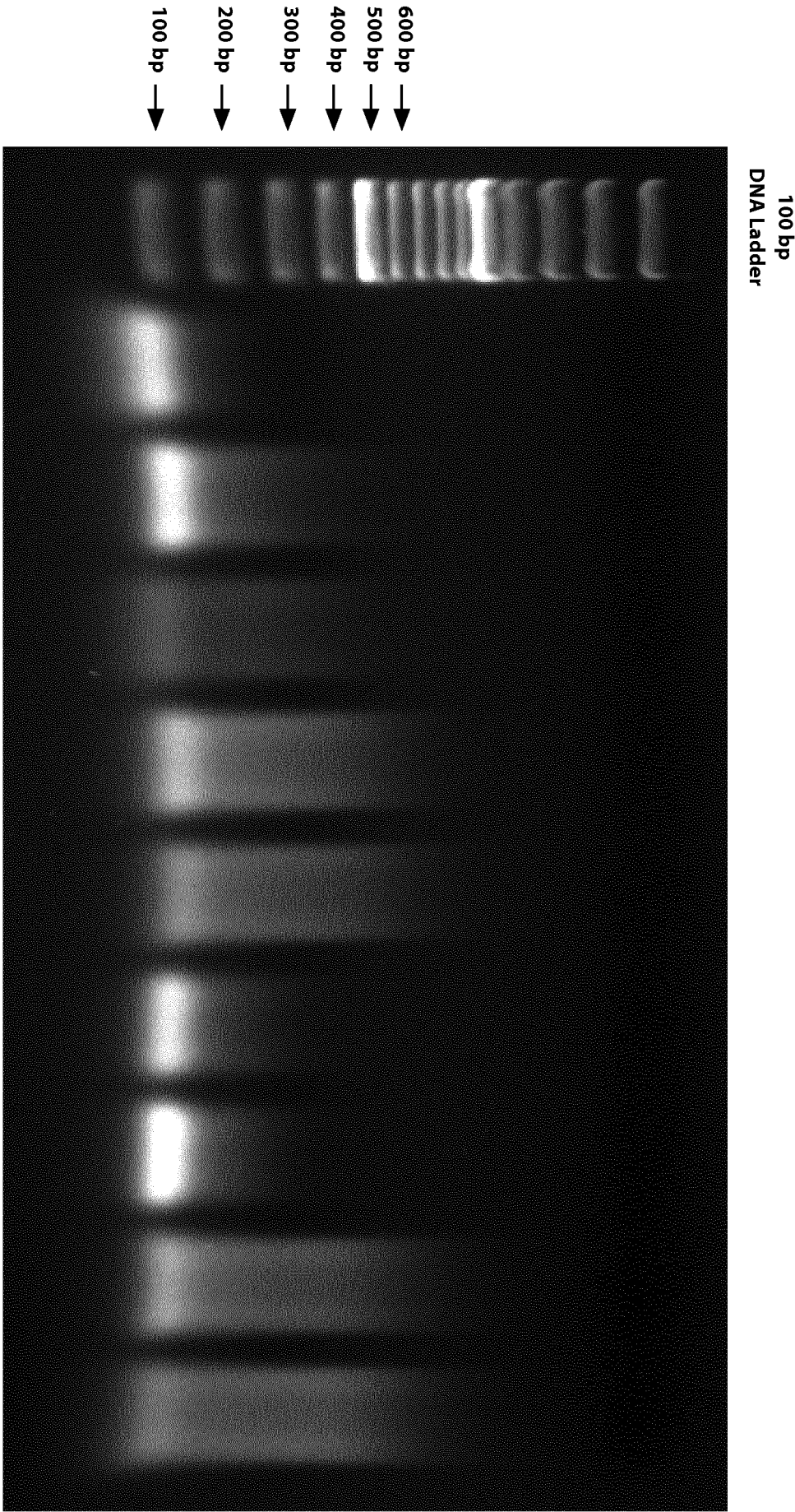


Fig. 36

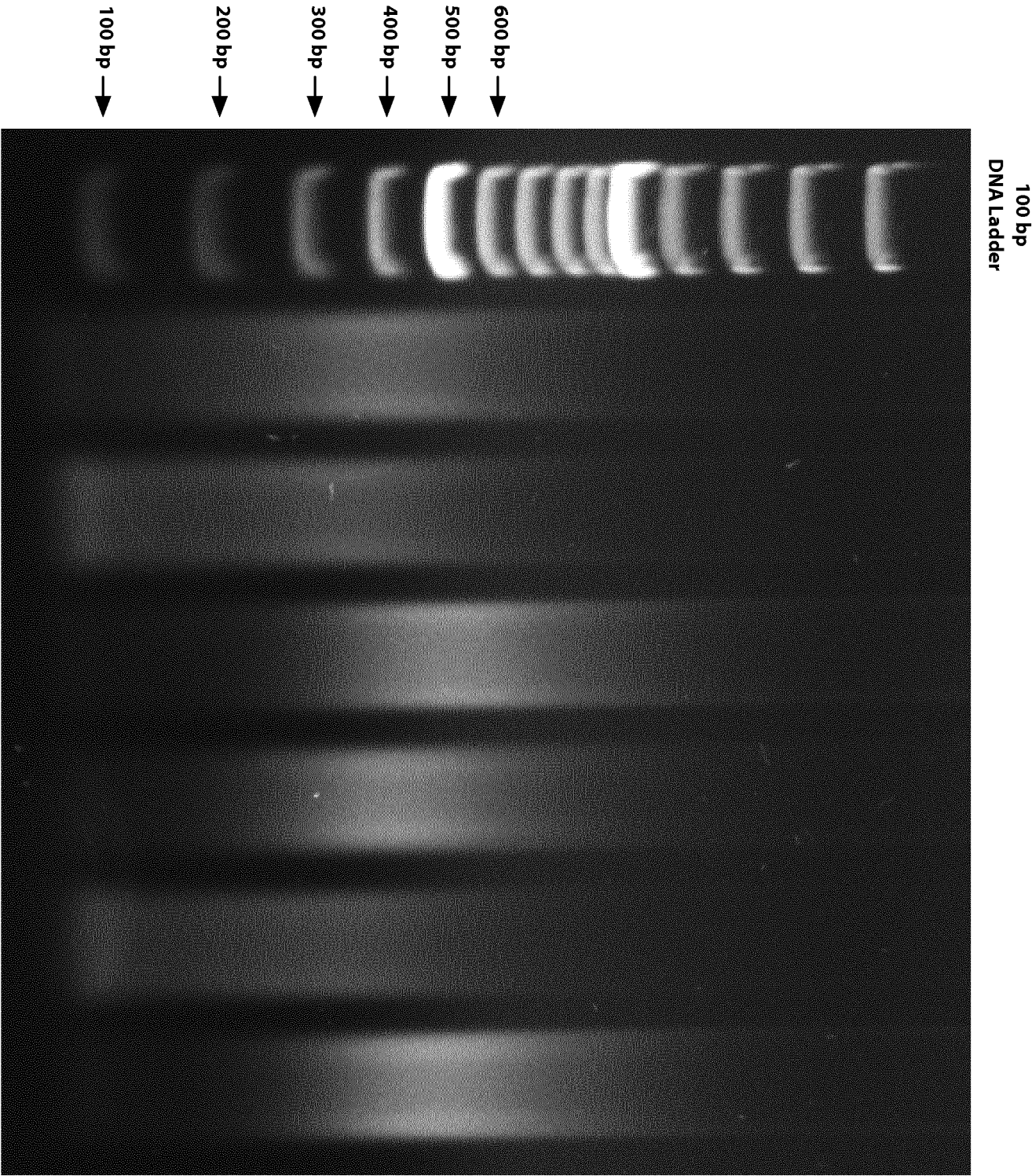


Fig. 37

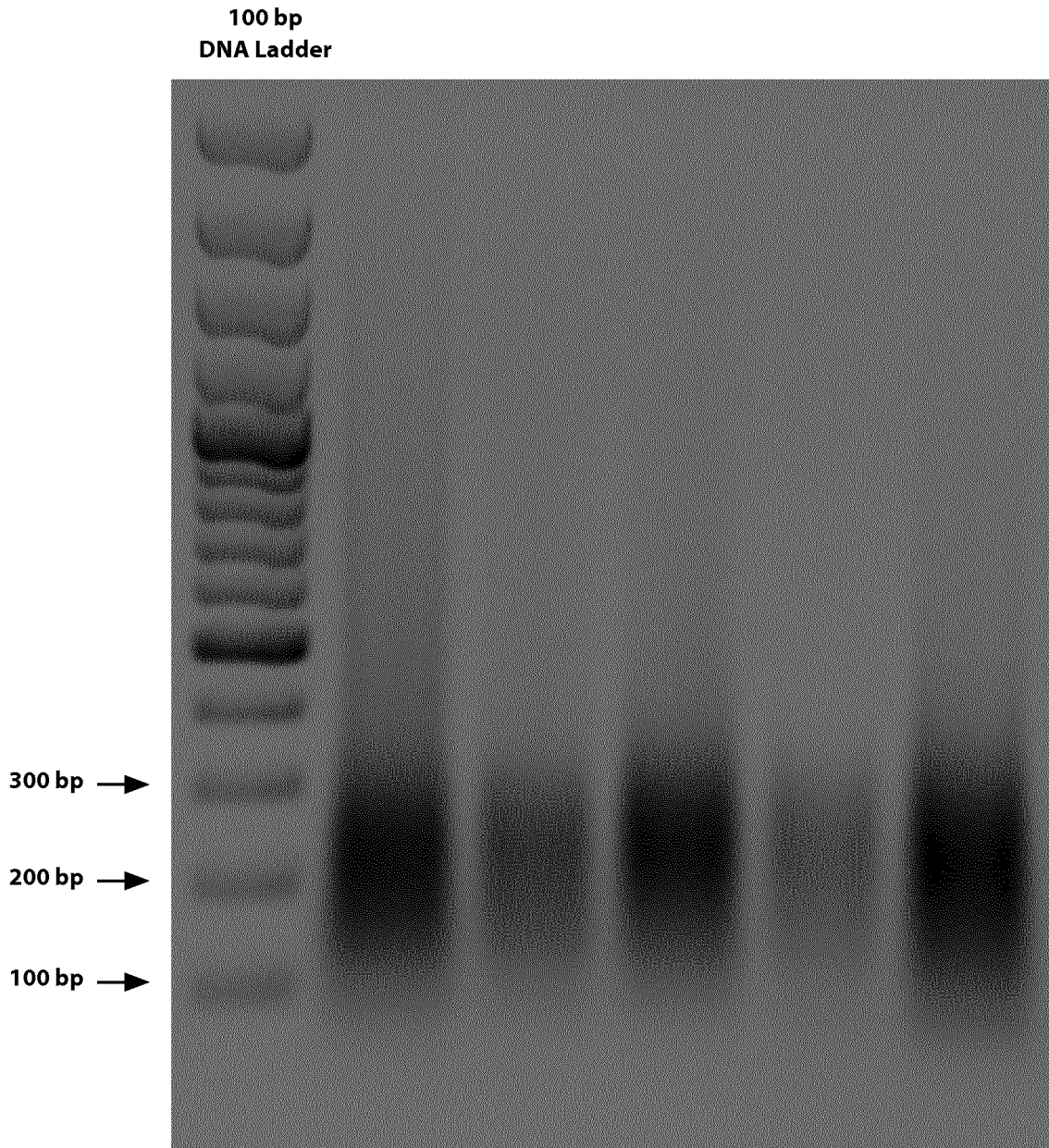


Fig. 38

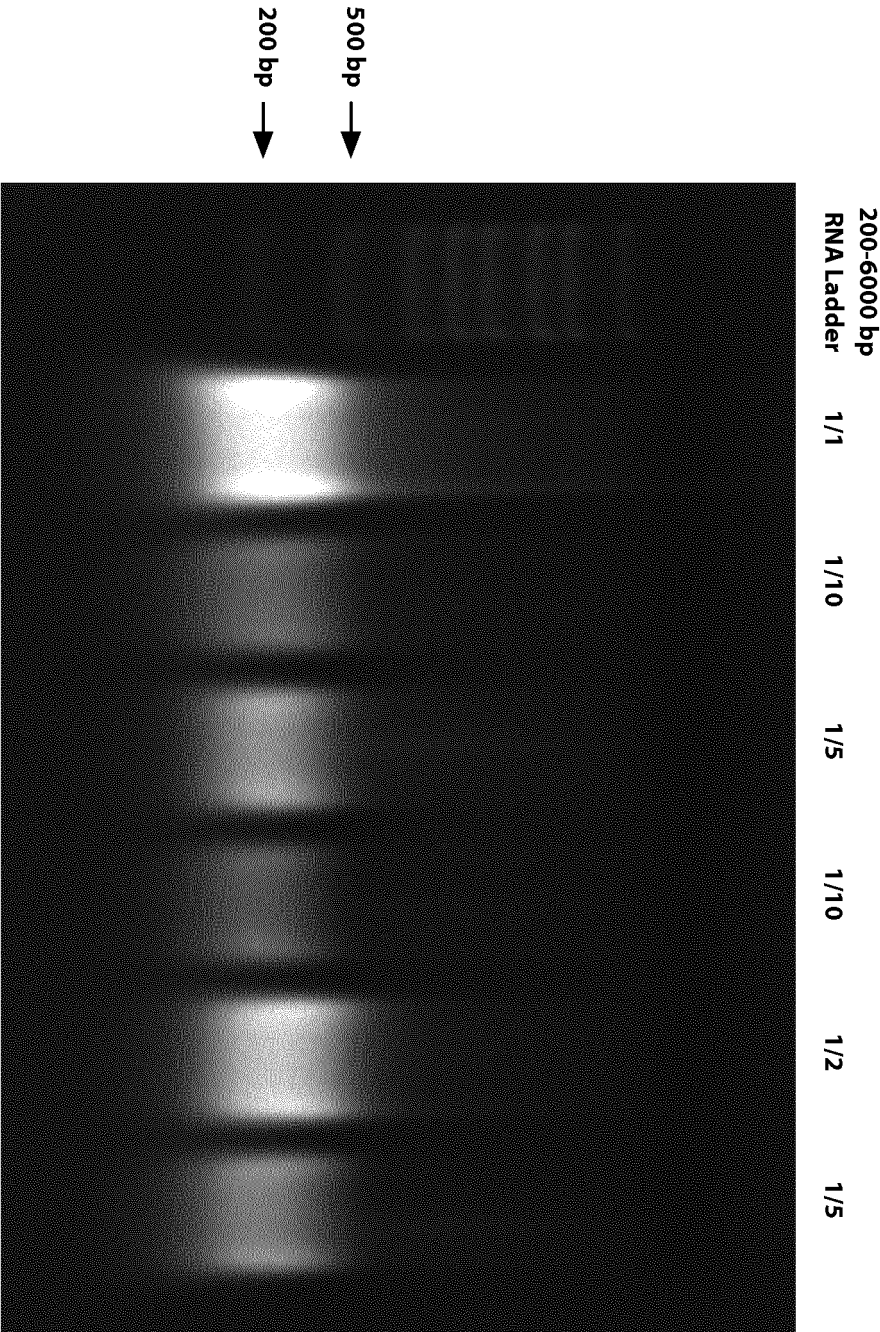


Fig. 39

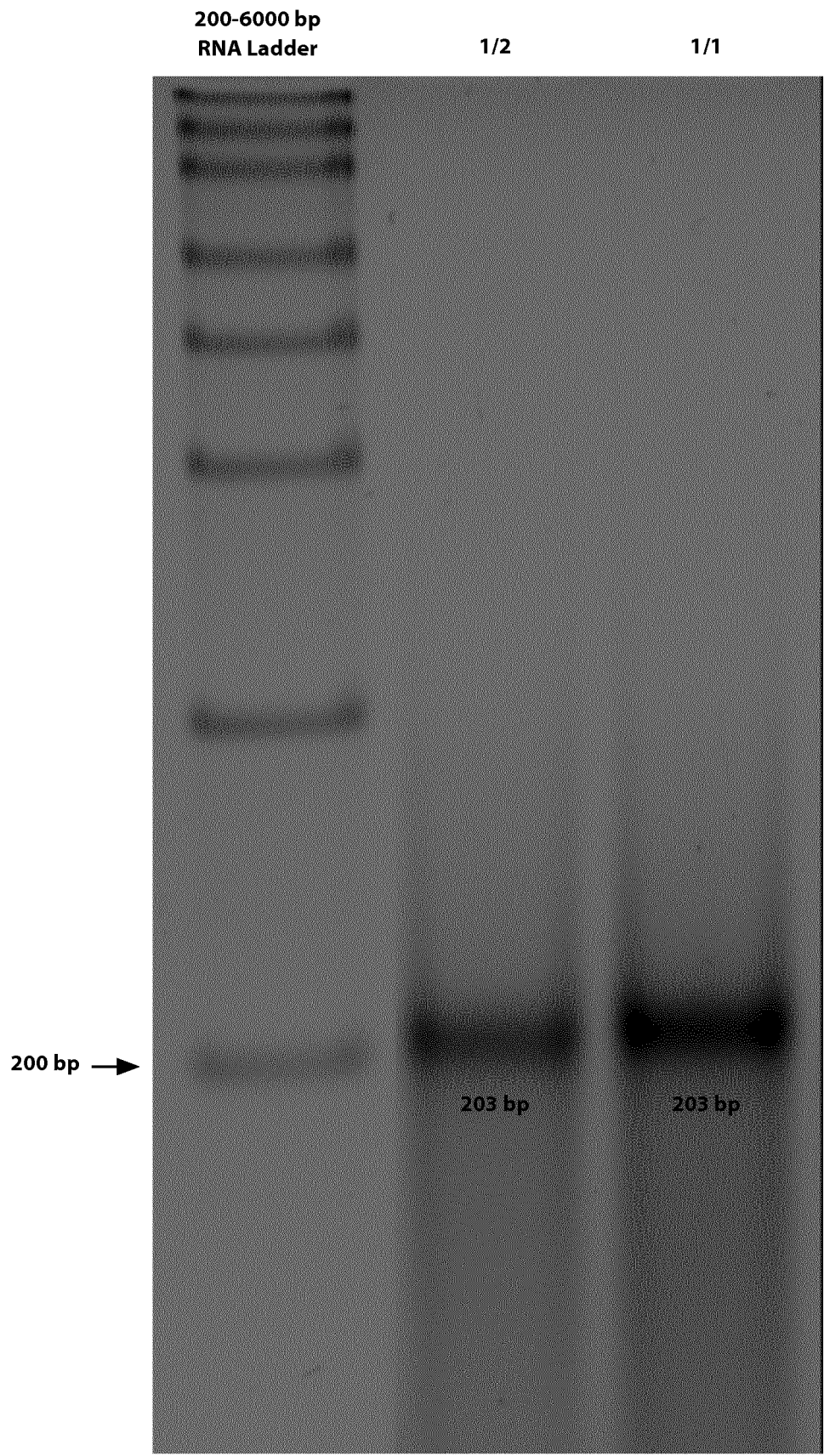


Fig. 40

A. 5'- end Sequences of dsDNA Fragment 02 Amplicons

5'-end sequences of dsDNA Fragment 02 amplicons that are amplified by using dsPrimers (shown in Figure 34)
5'-GAAATGAAATTAAATACGACTCACGATAGGGGTGCAGAAATTCGAAGCTTGAGCTCGAGATC.....-3'
Theoretical 5' end sequences of the dsDNA Fragment 02 amplicons that are amplified by using dsPrimers (shown in Figure 34)
5'-GAAATGAAATTAAATTCGACTCCCTATAGGGNTGCAGAAATTCGAAGCTTGAGCTCGAGATC.....-3'

B. 3'- end Sequences of dsDNA Fragment 02 Amplicons

3'-end sequences of dsDNA Fragment 02 amplicons that are amplified by using dsPrimers (shown in Figure 34)
5'-.....CTCCTCGCCCTTGCTCACCATGAATTCTCACCCTTGCTCAGCATGAATTCTGTCCTTTT-3'
Theoretical 3' end sequences of the dsDNA Fragment 02 amplicons that are amplified by using dsPrimers (shown in Figure 34)
5'-.....CTCCTCGCCCTTGCTCACCATGAATTCTCNCCTATAGGGAGTTCGAATTATTCAATTTT-3'

Fig. 41

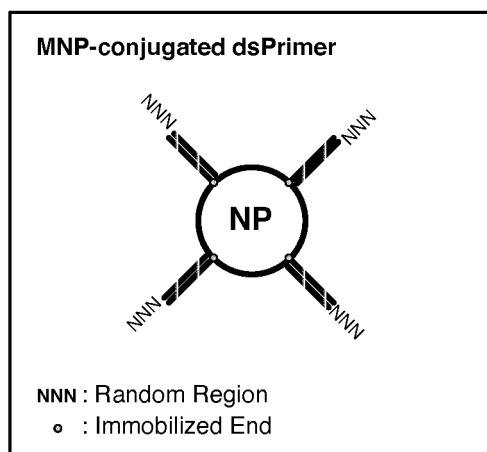
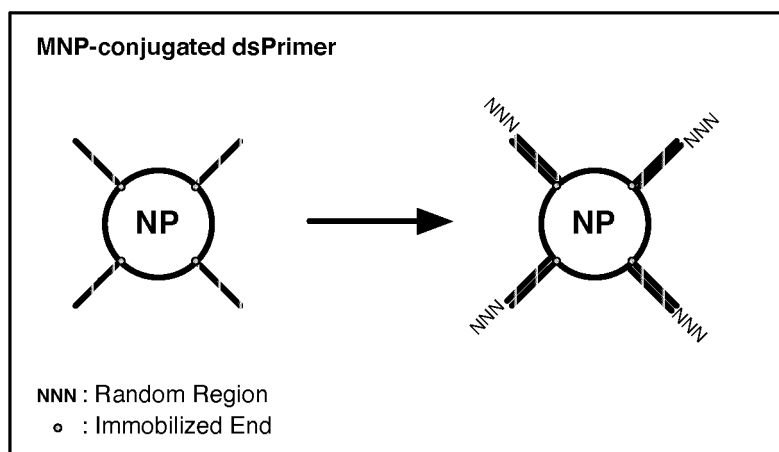
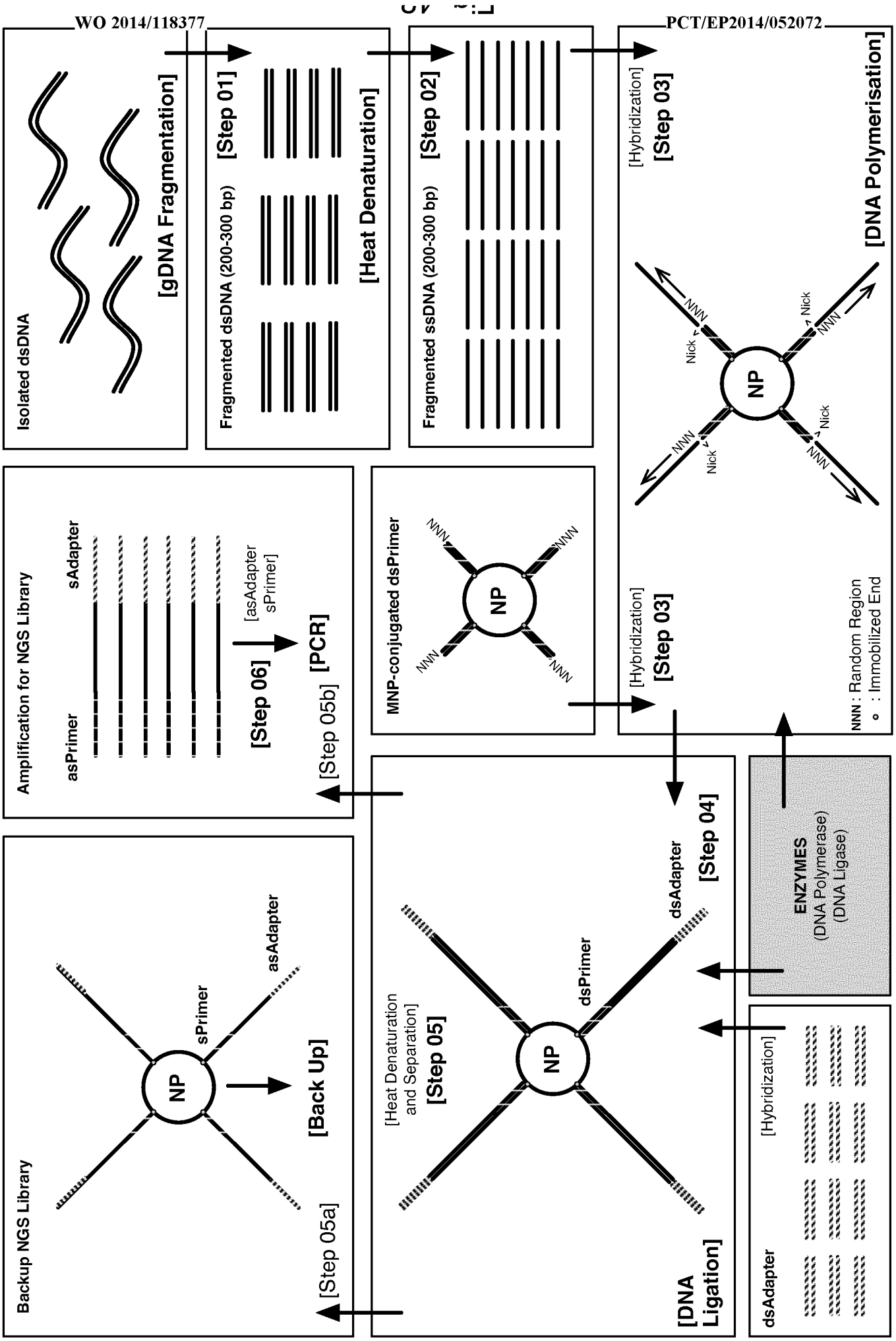
A. Magnetic Nanoparticle-conjugated dsPrimer Structure**B. Magnetic Nanoparticle-conjugated dsPrimer Formation via Hybridization**

Fig. 42





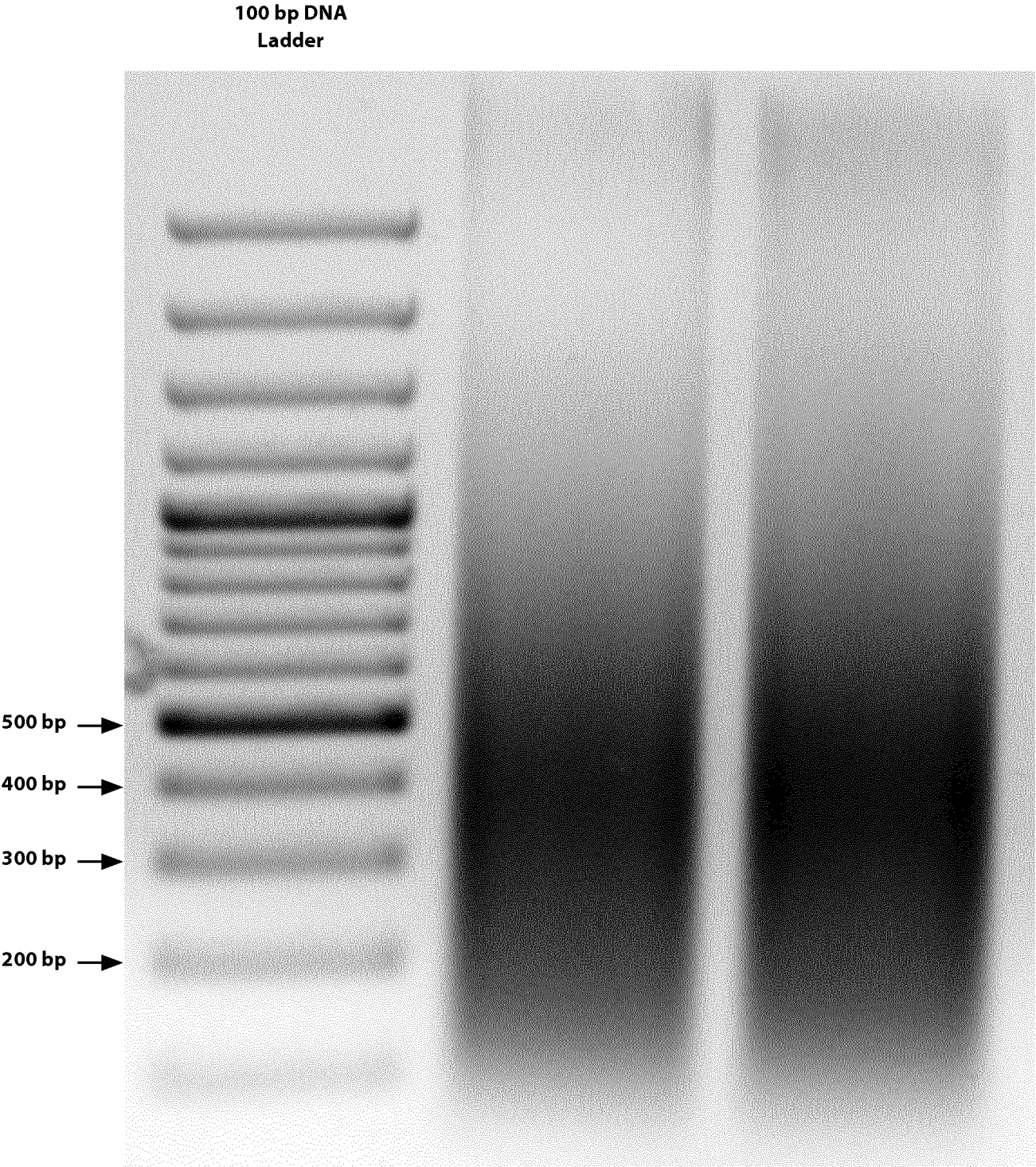


Fig. 45

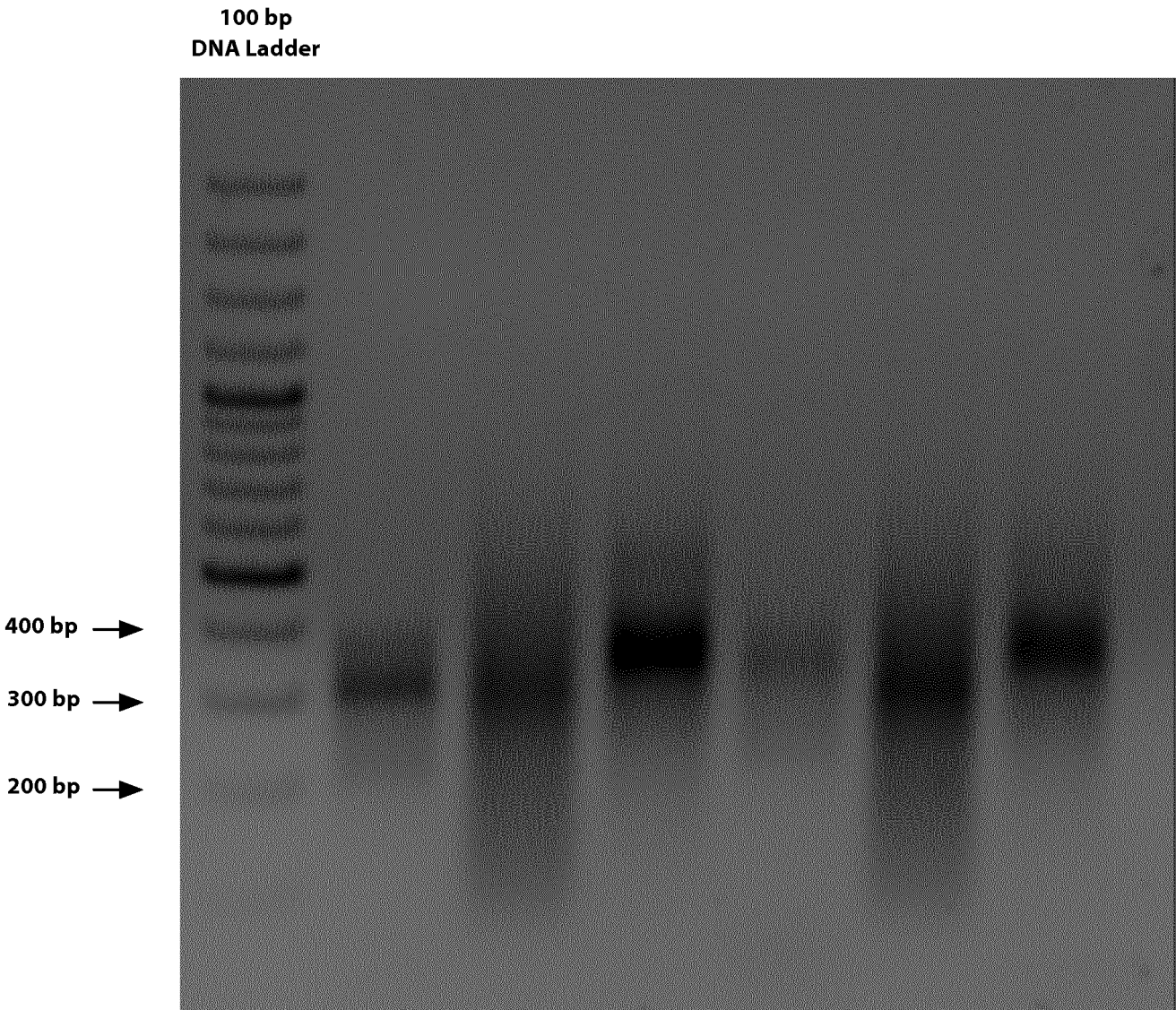


Fig. 46