

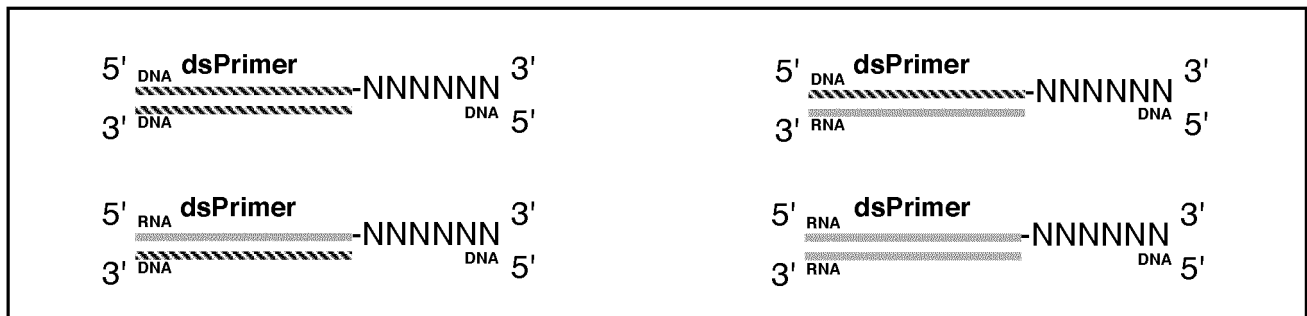
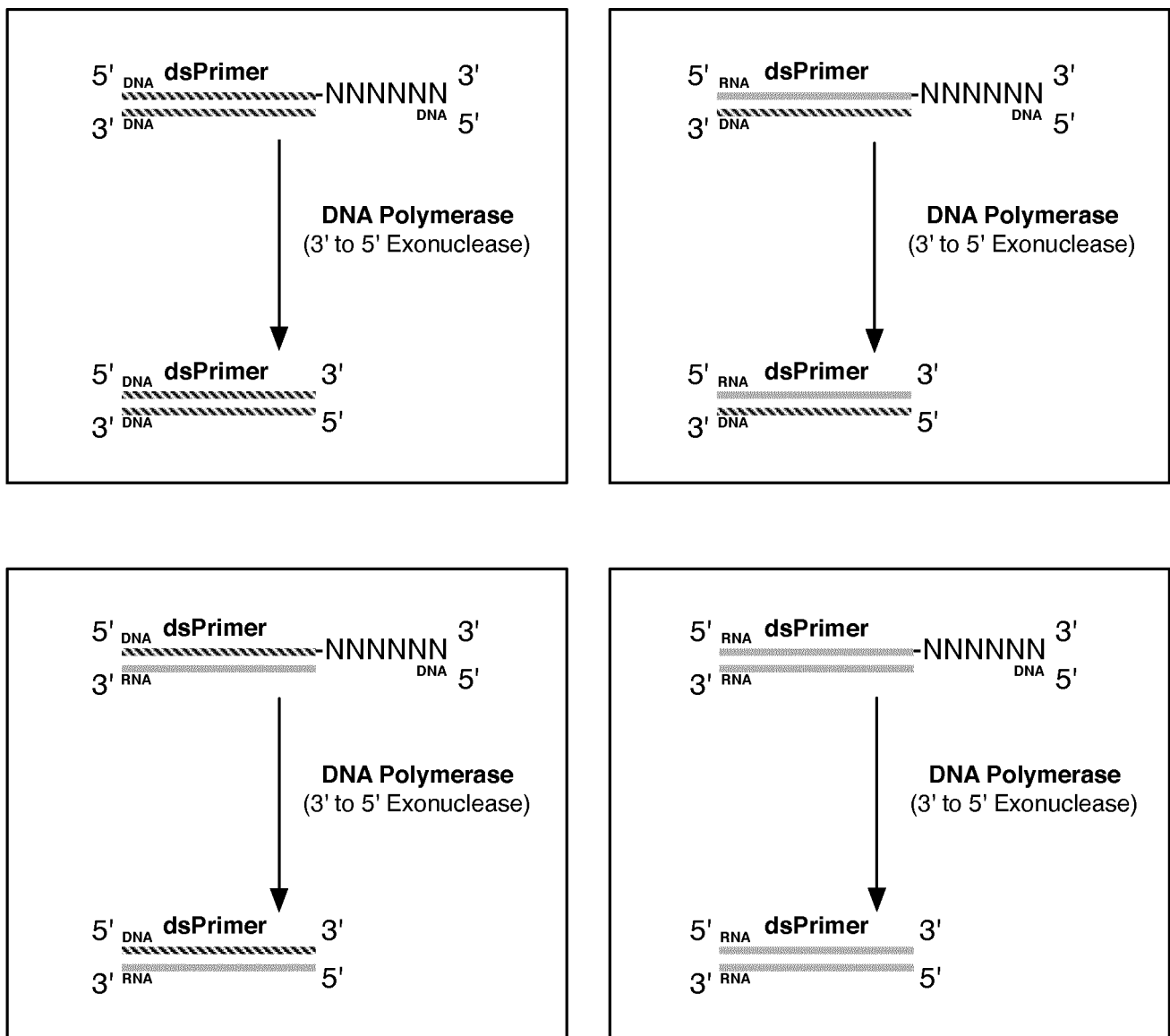
dsPrimer Structure**dsPrimer Silencing**

Fig. 1

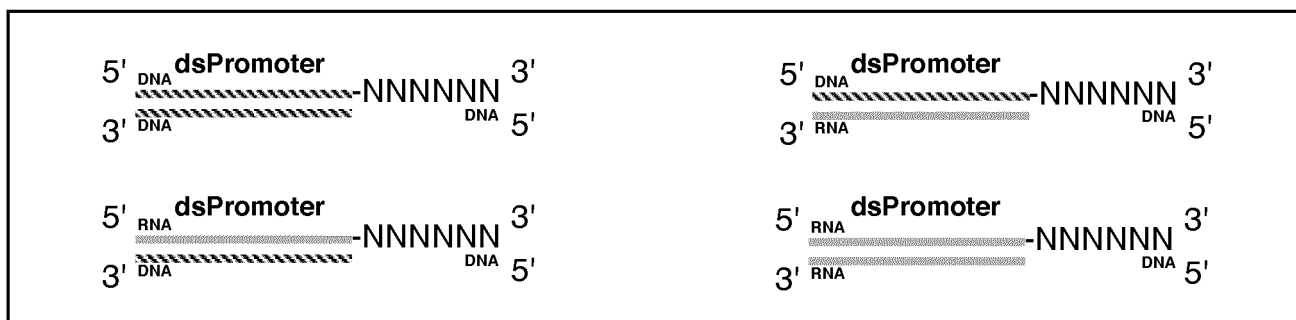
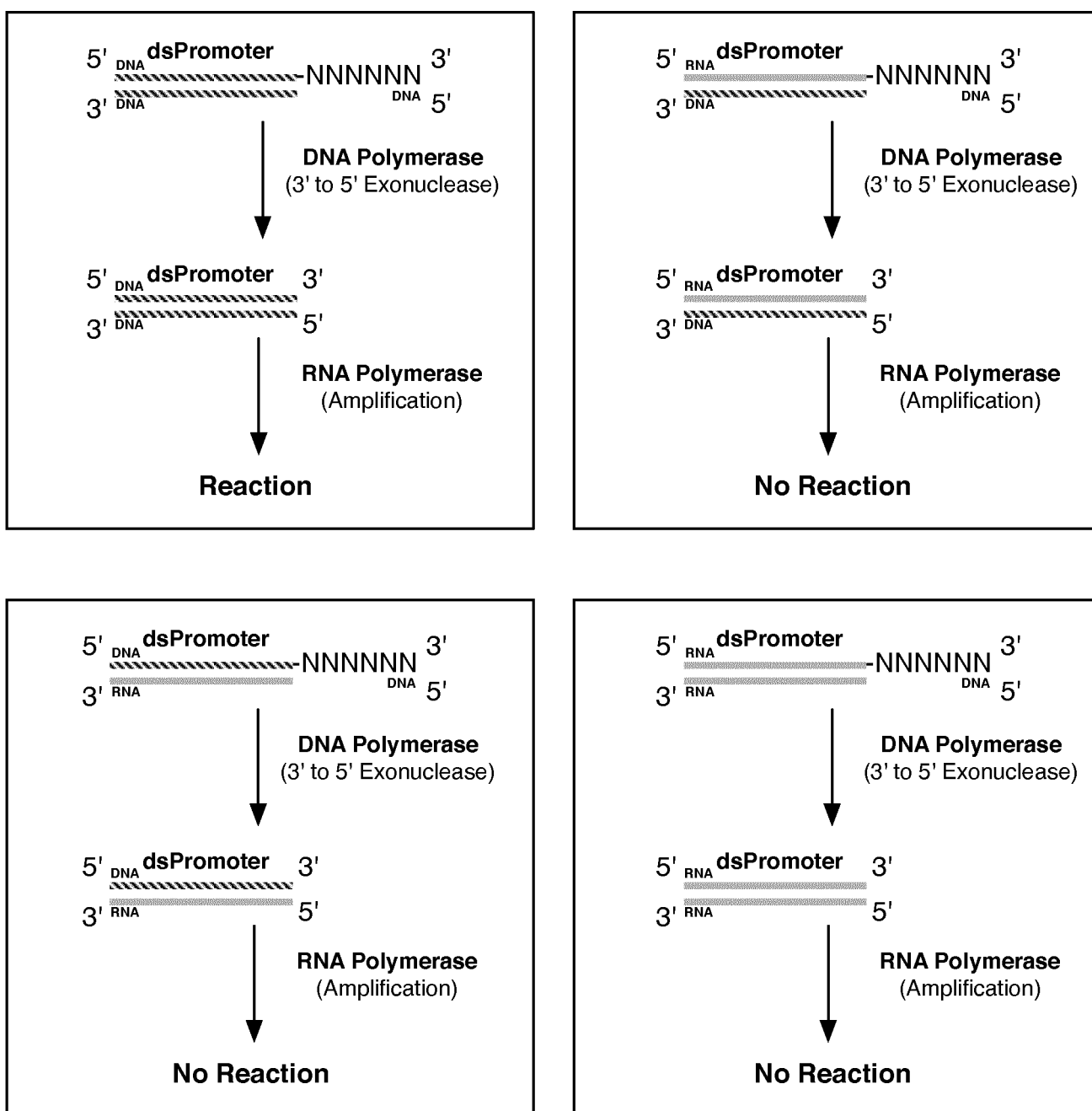
dsPromoter Structure**dsPromoter Silencing**

Fig. 2

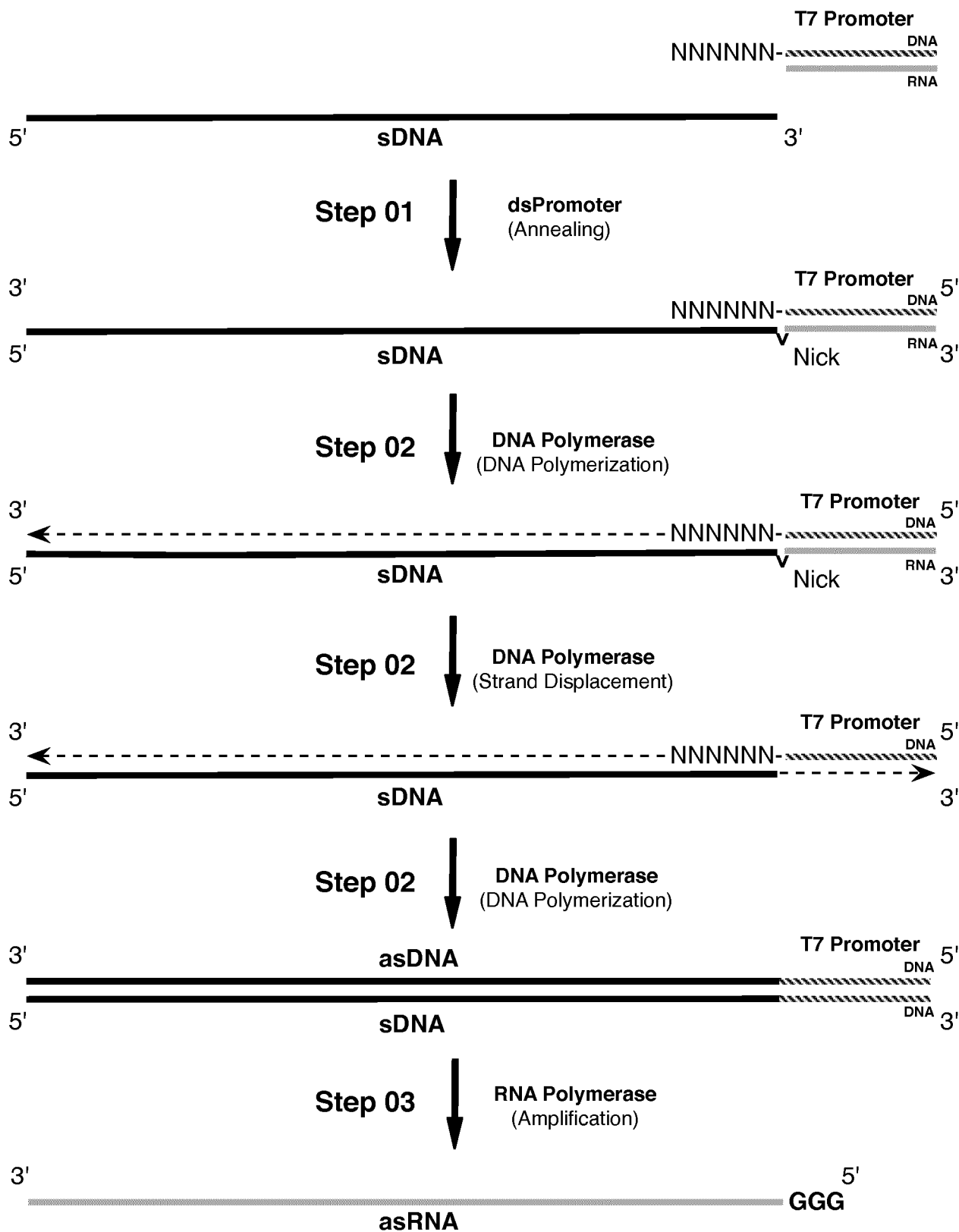


Fig. 3

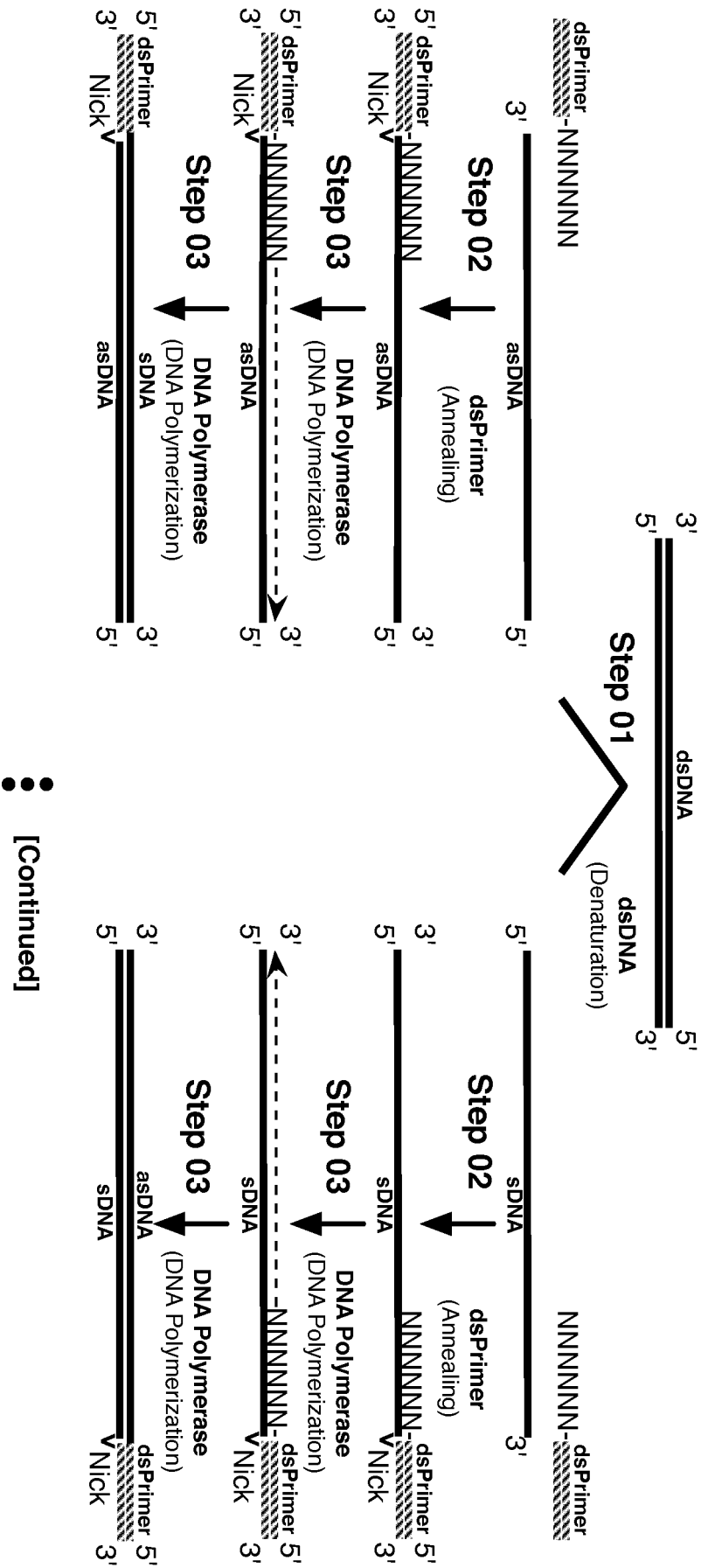


Fig. 4A

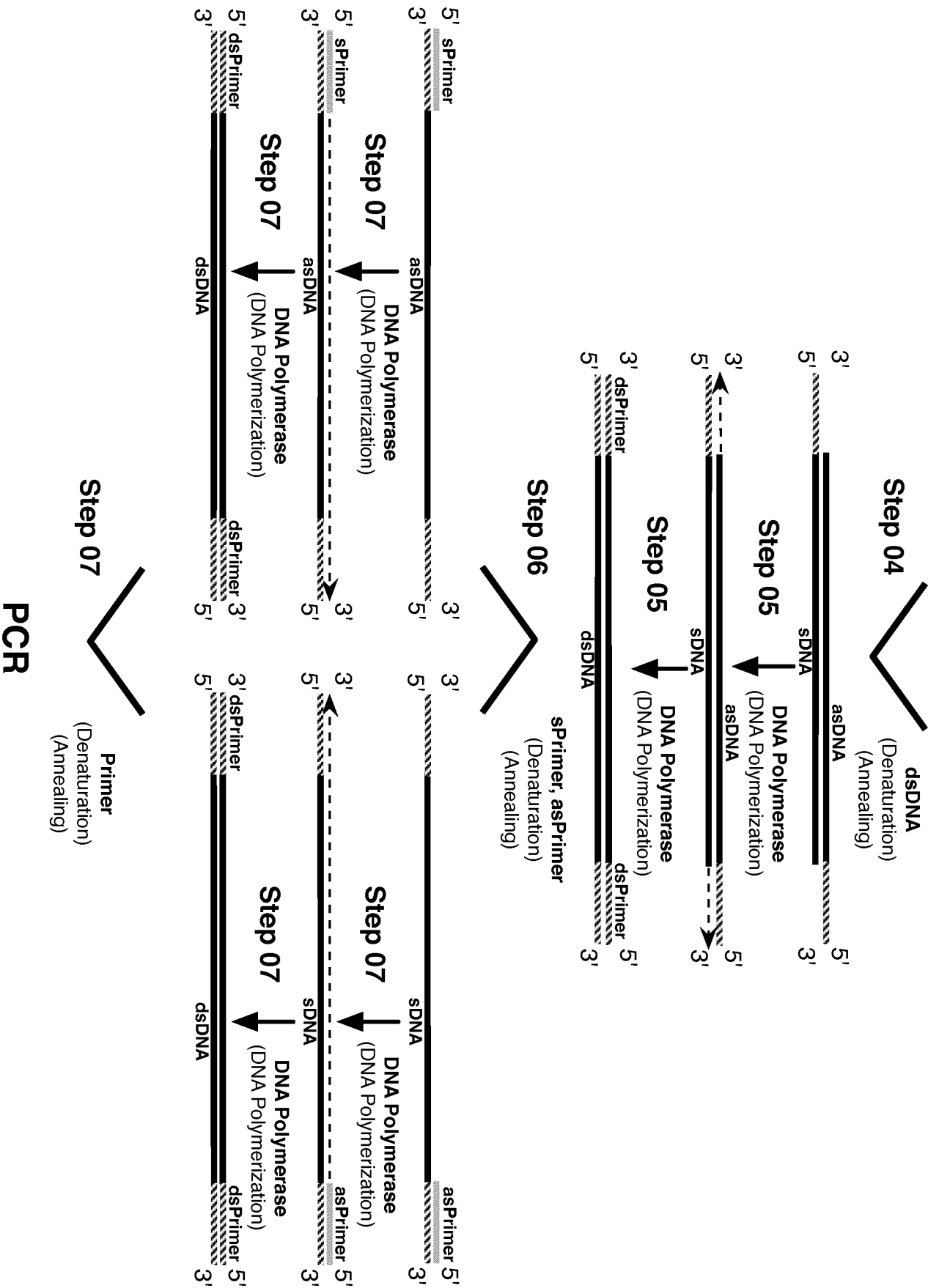


Fig. 4B



Fig. 5A

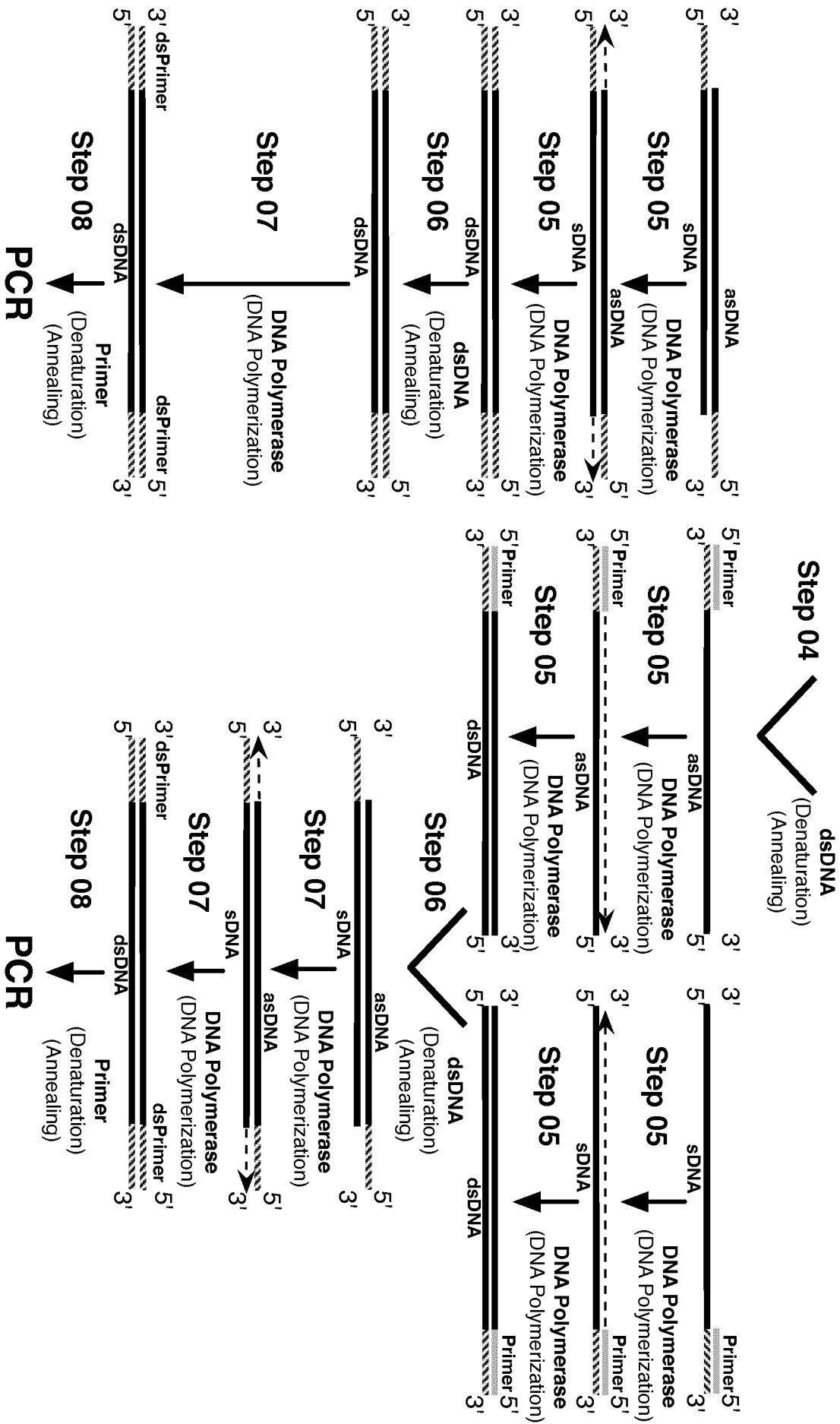


Fig. 5B

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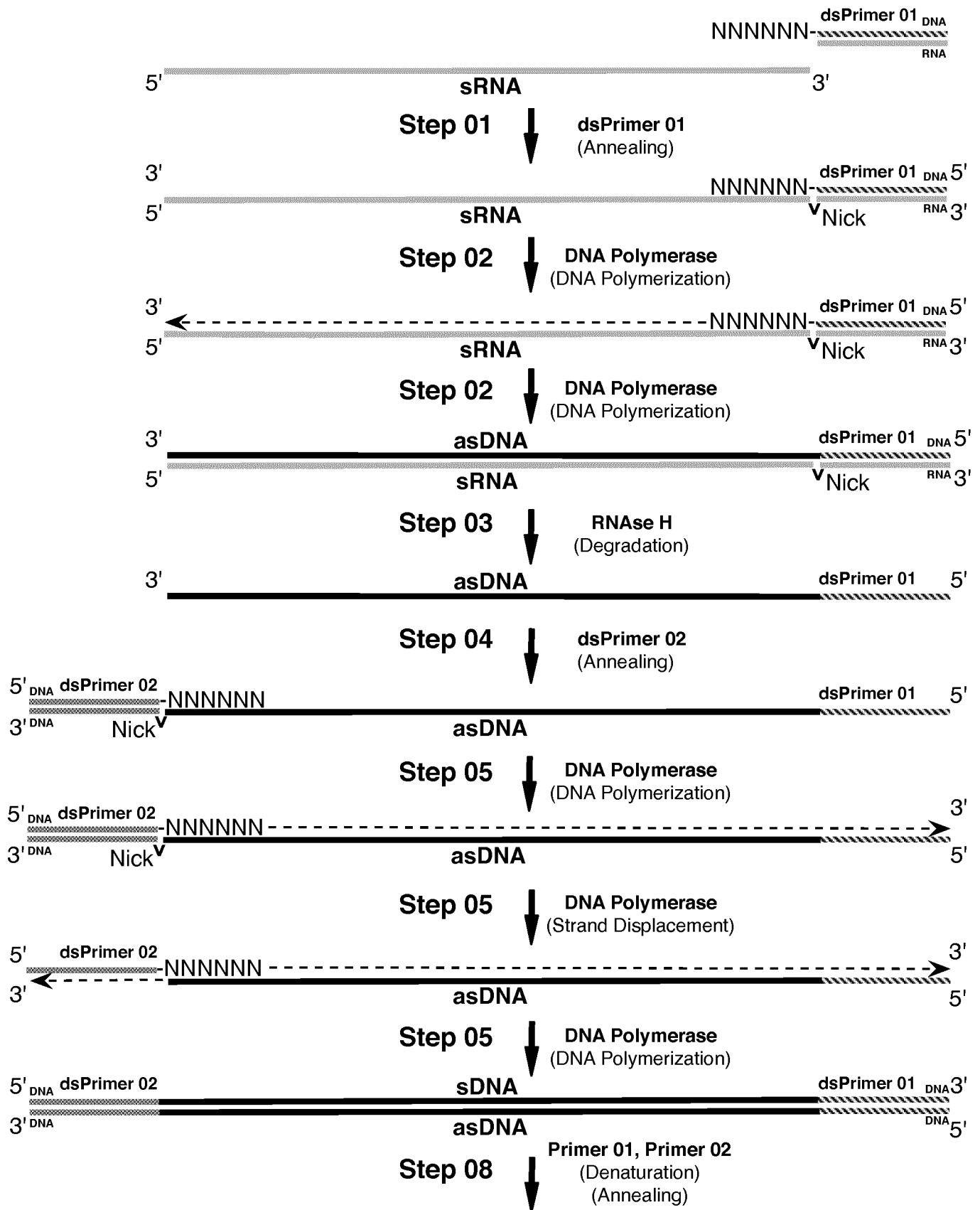
**PCR**

Fig. 6

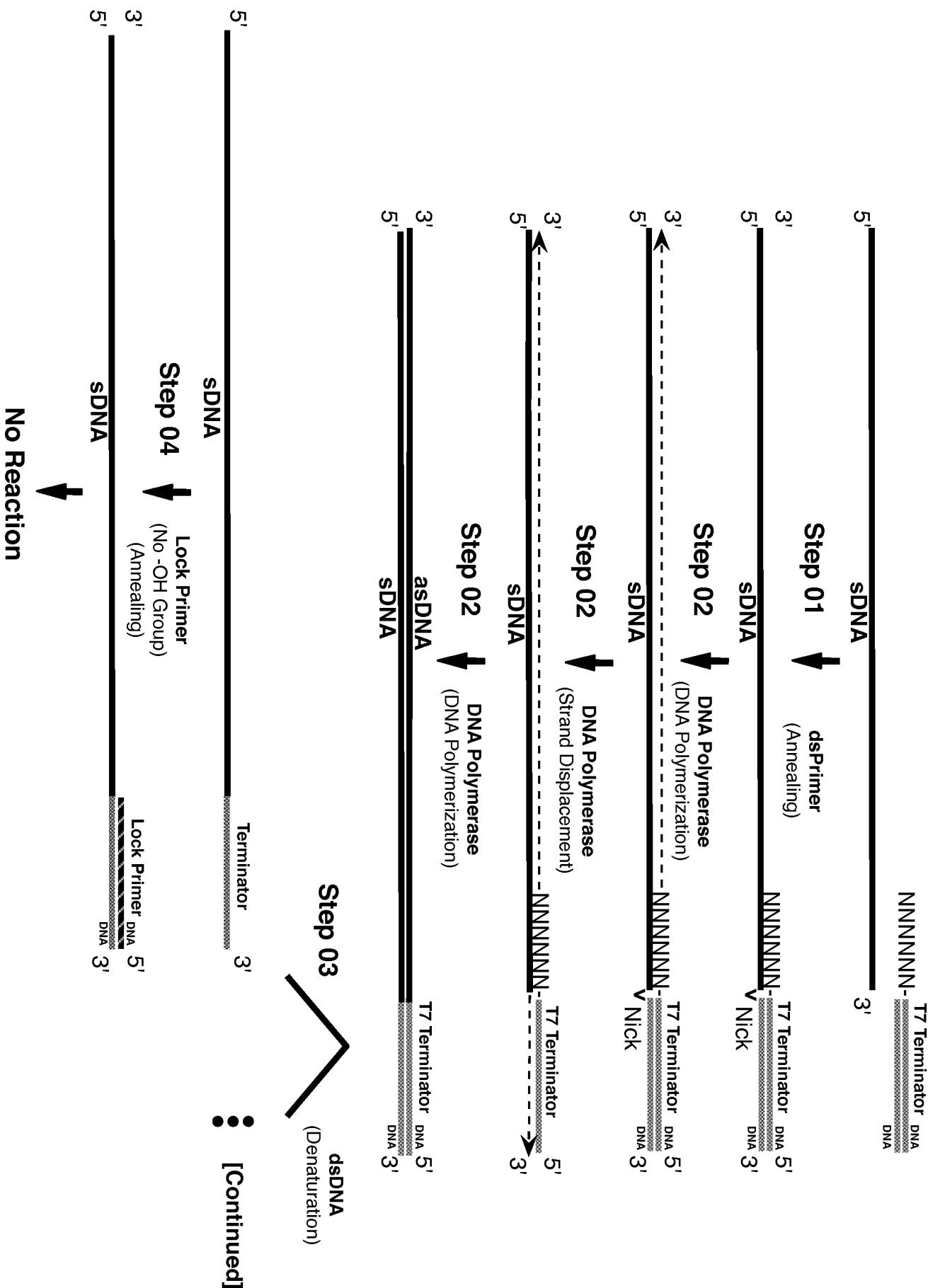


Fig. 7A

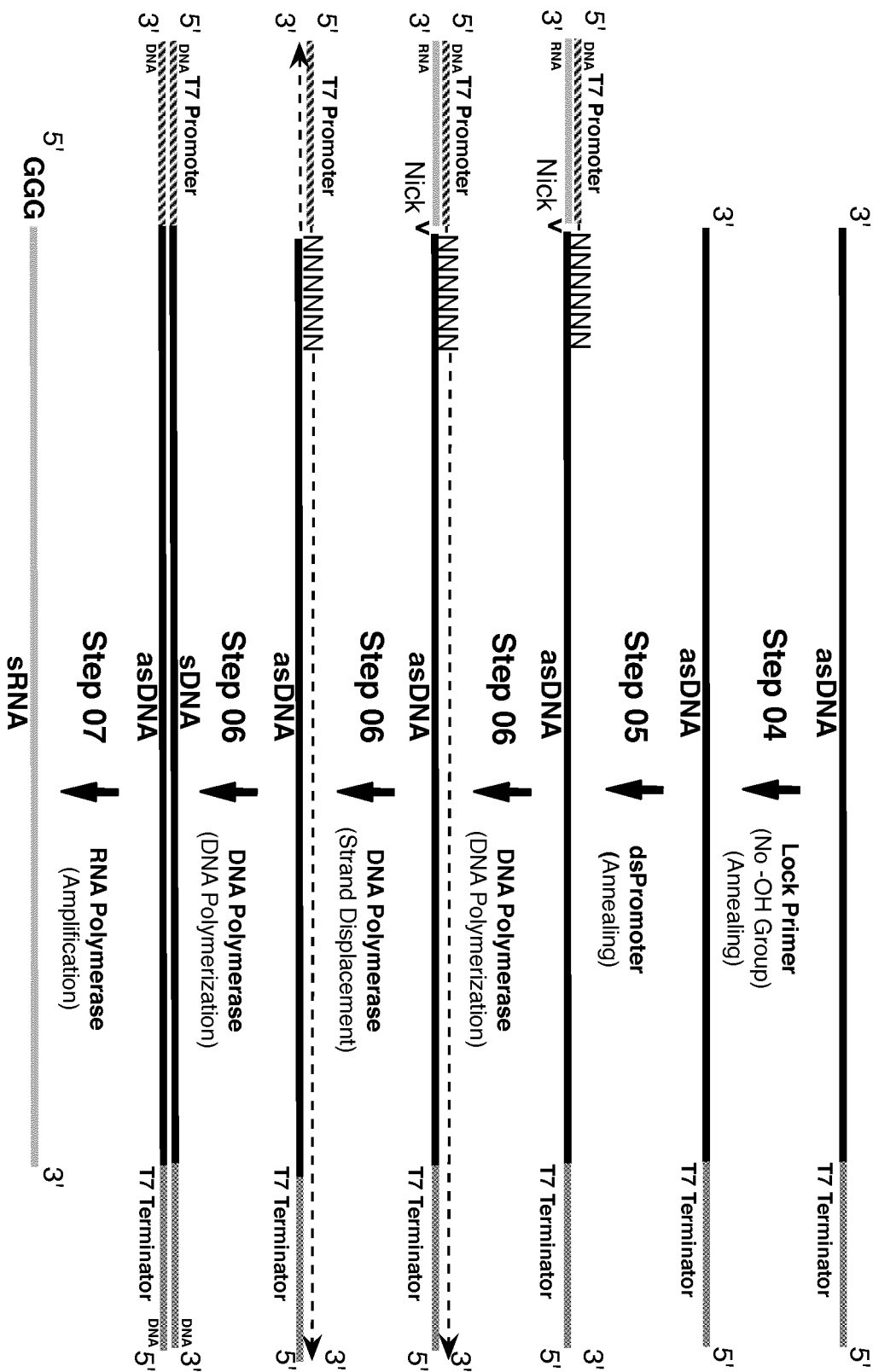


Fig. 7B

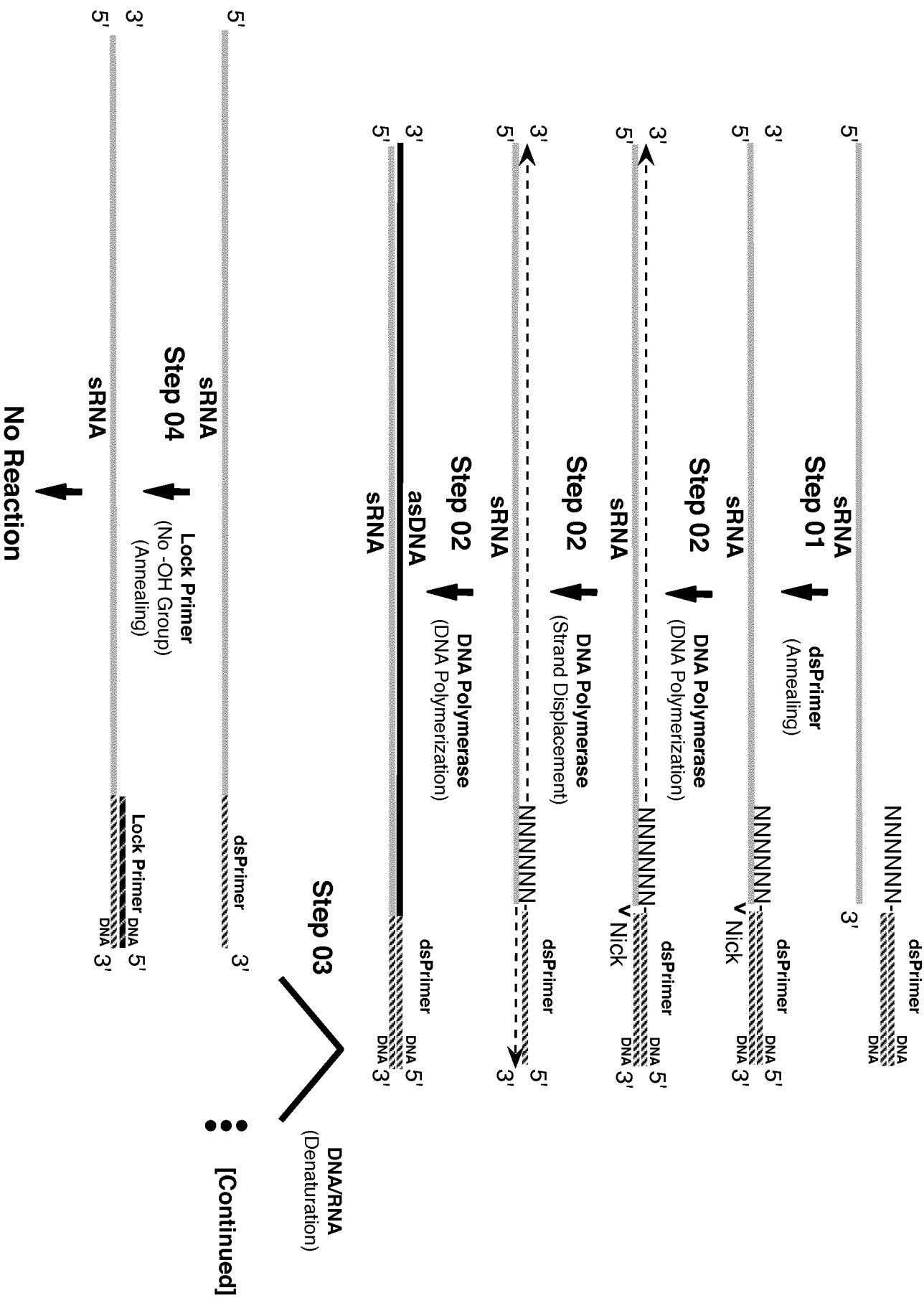


Fig. 8A

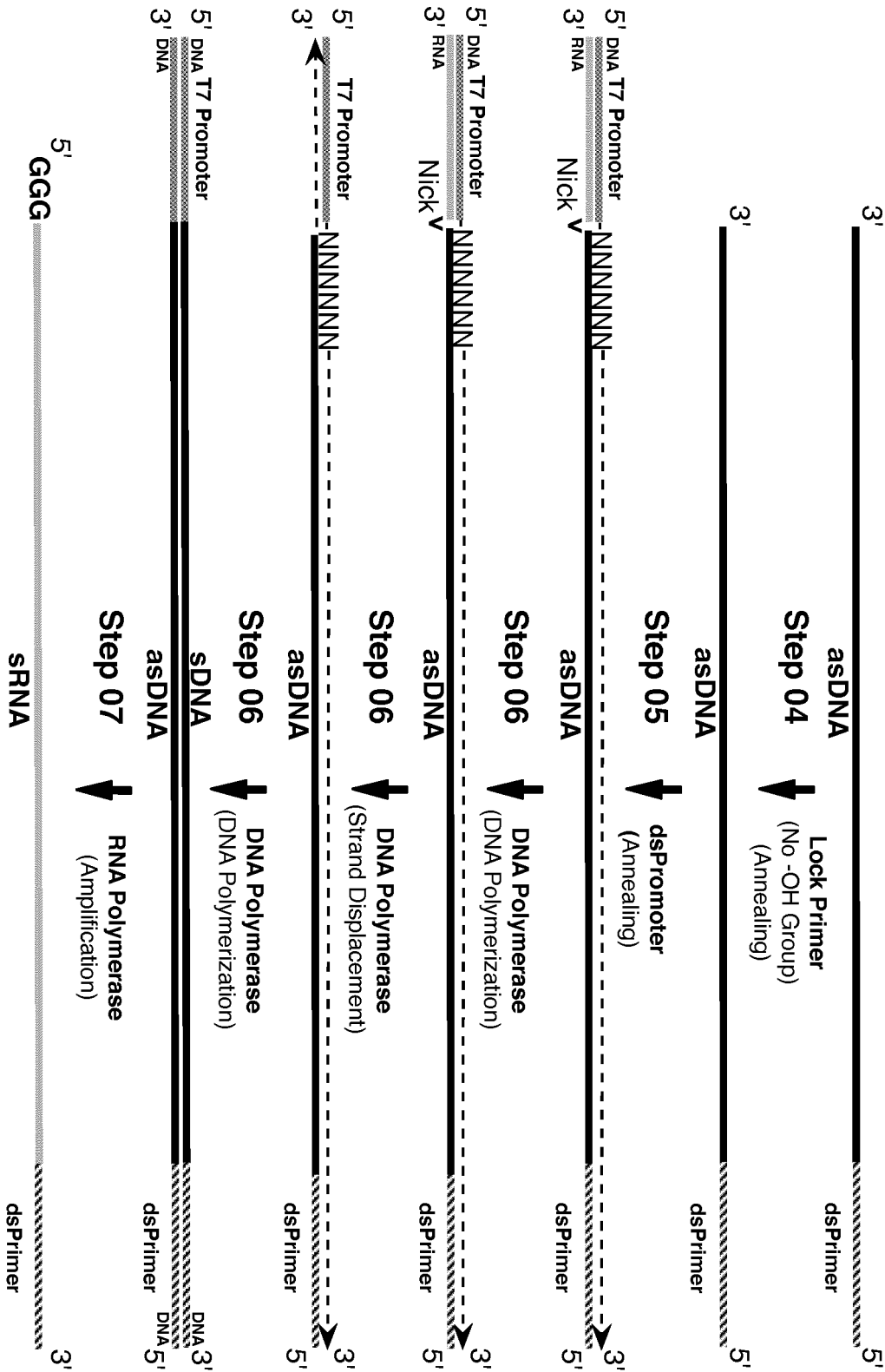


Fig. 8B

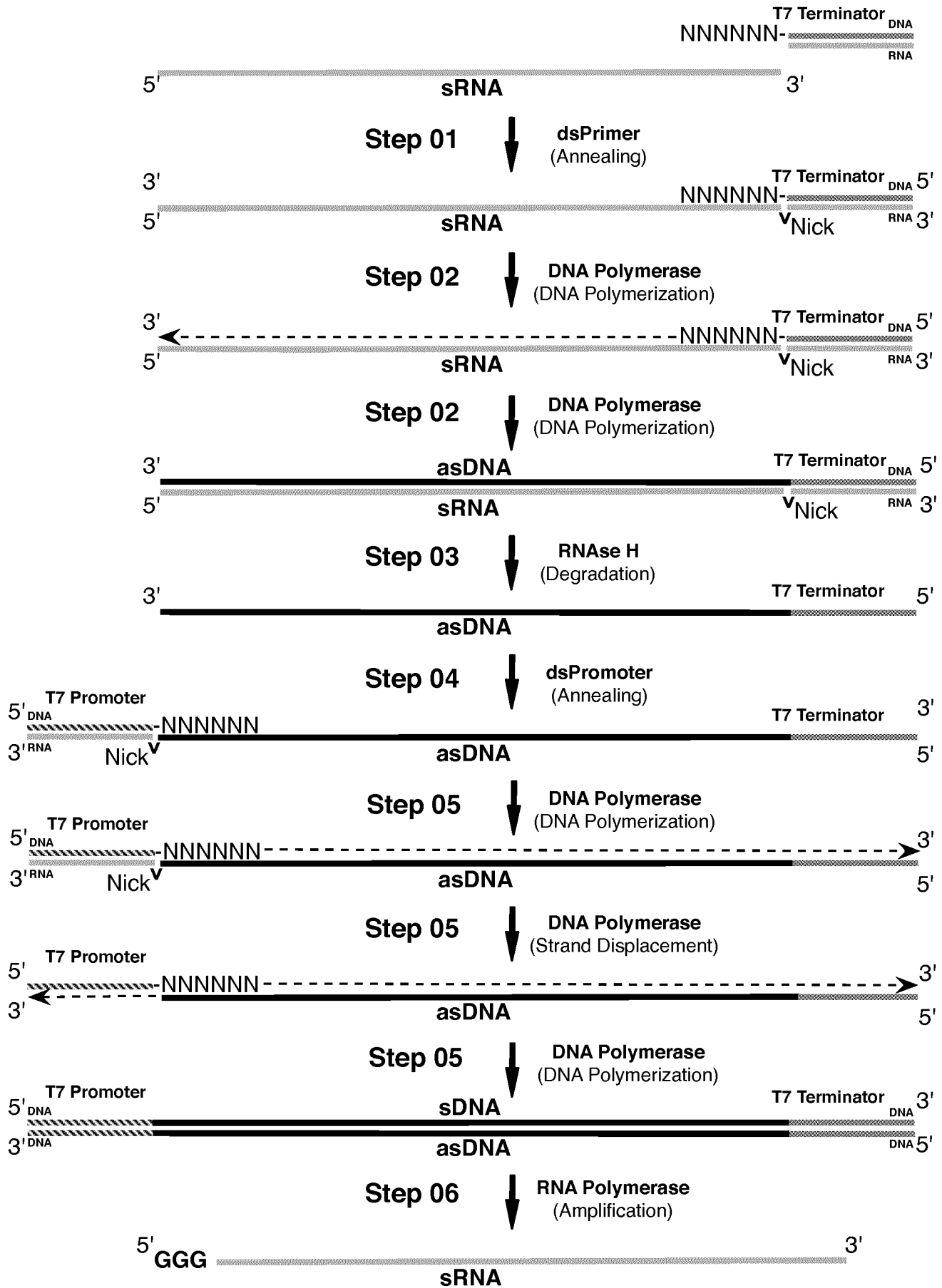


Fig. 9

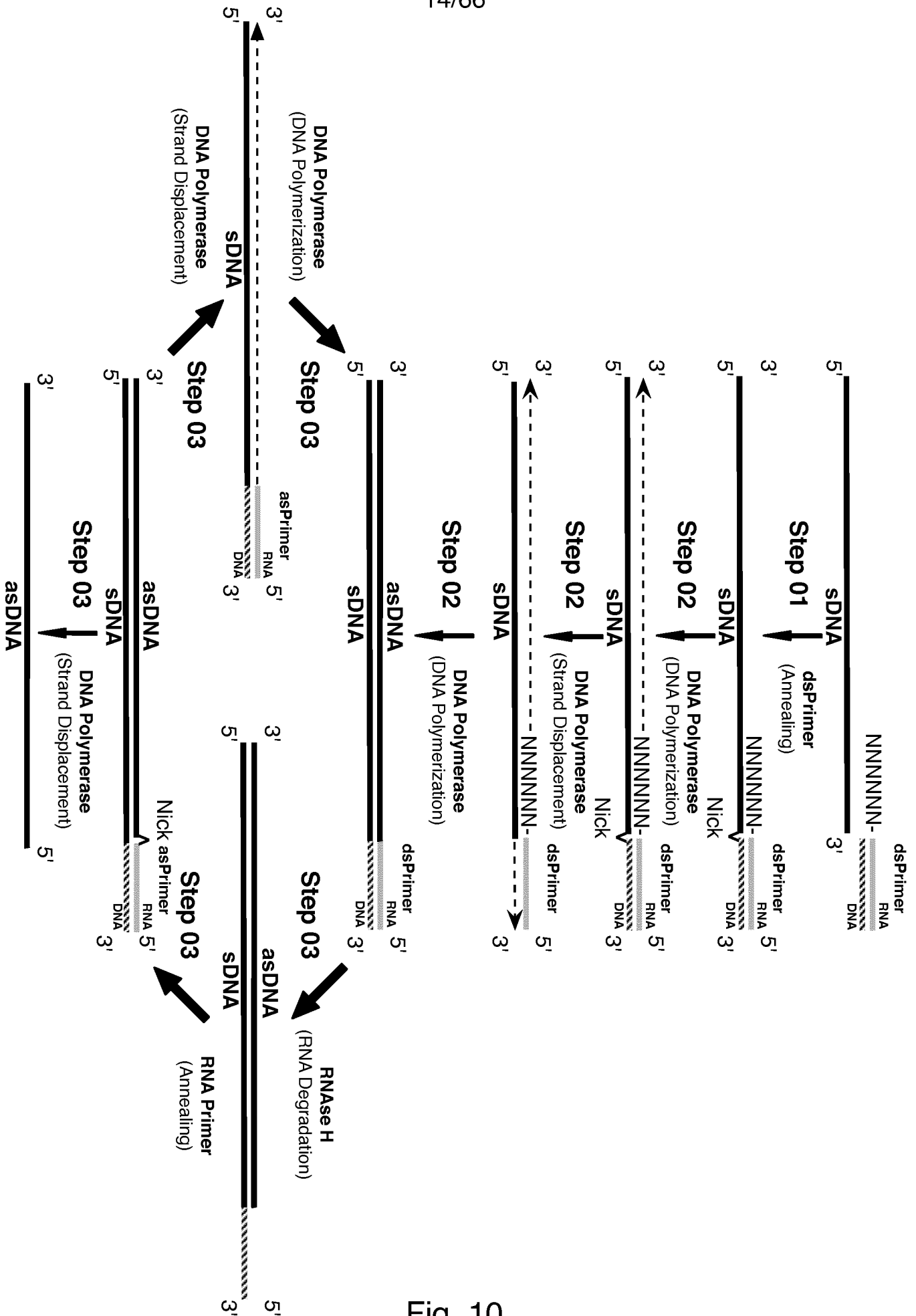


Fig. 10

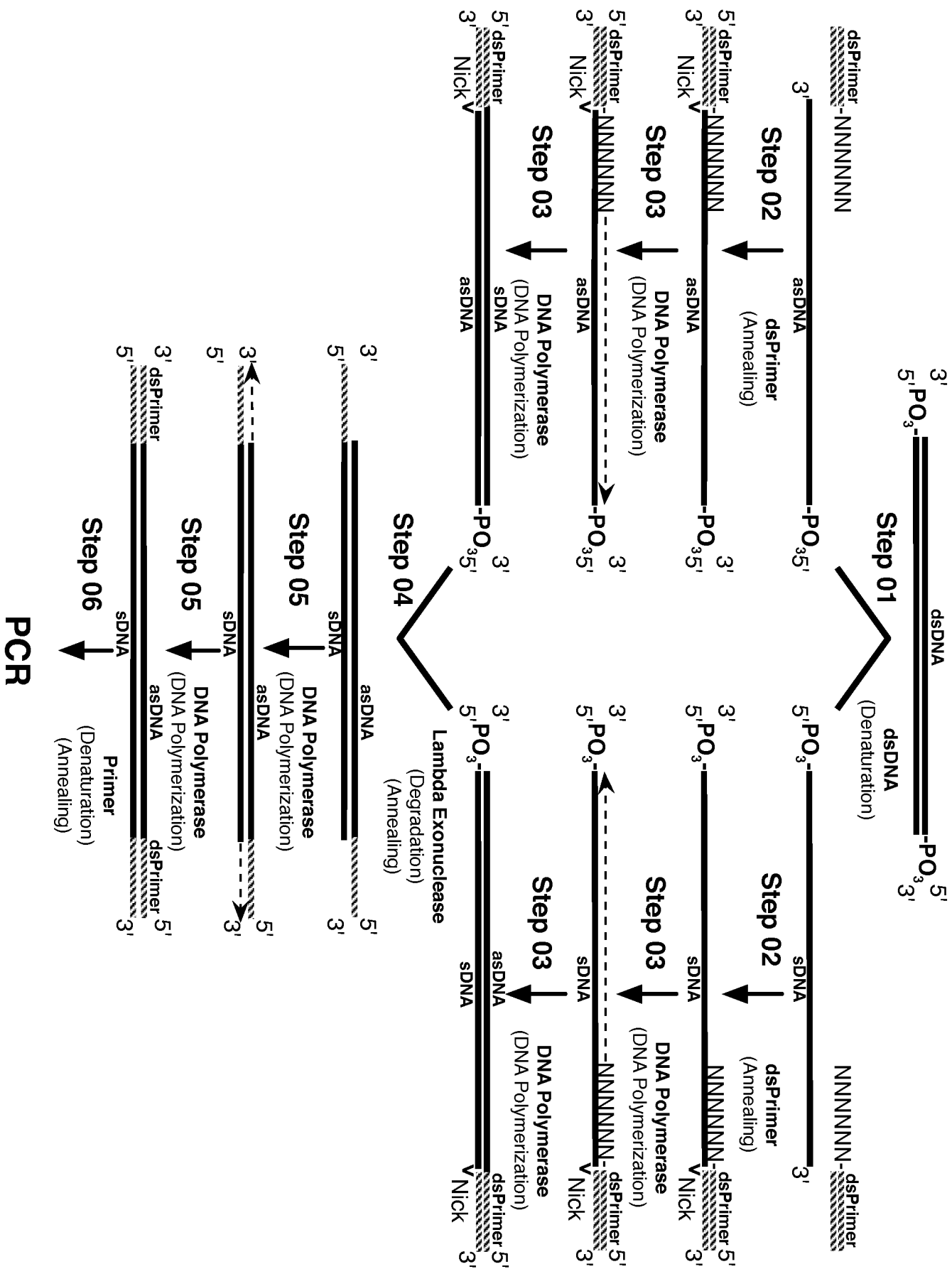
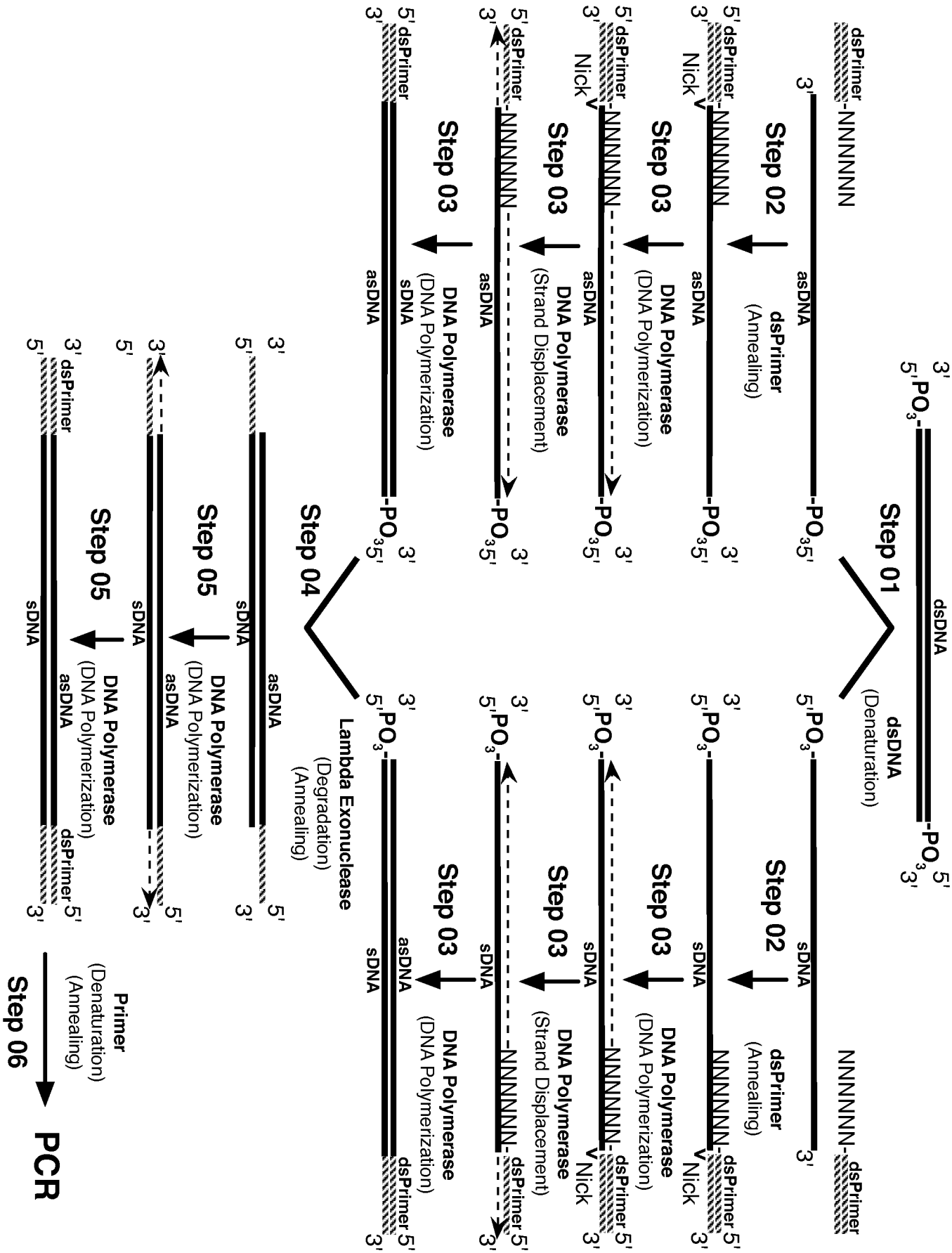


Fig. 11



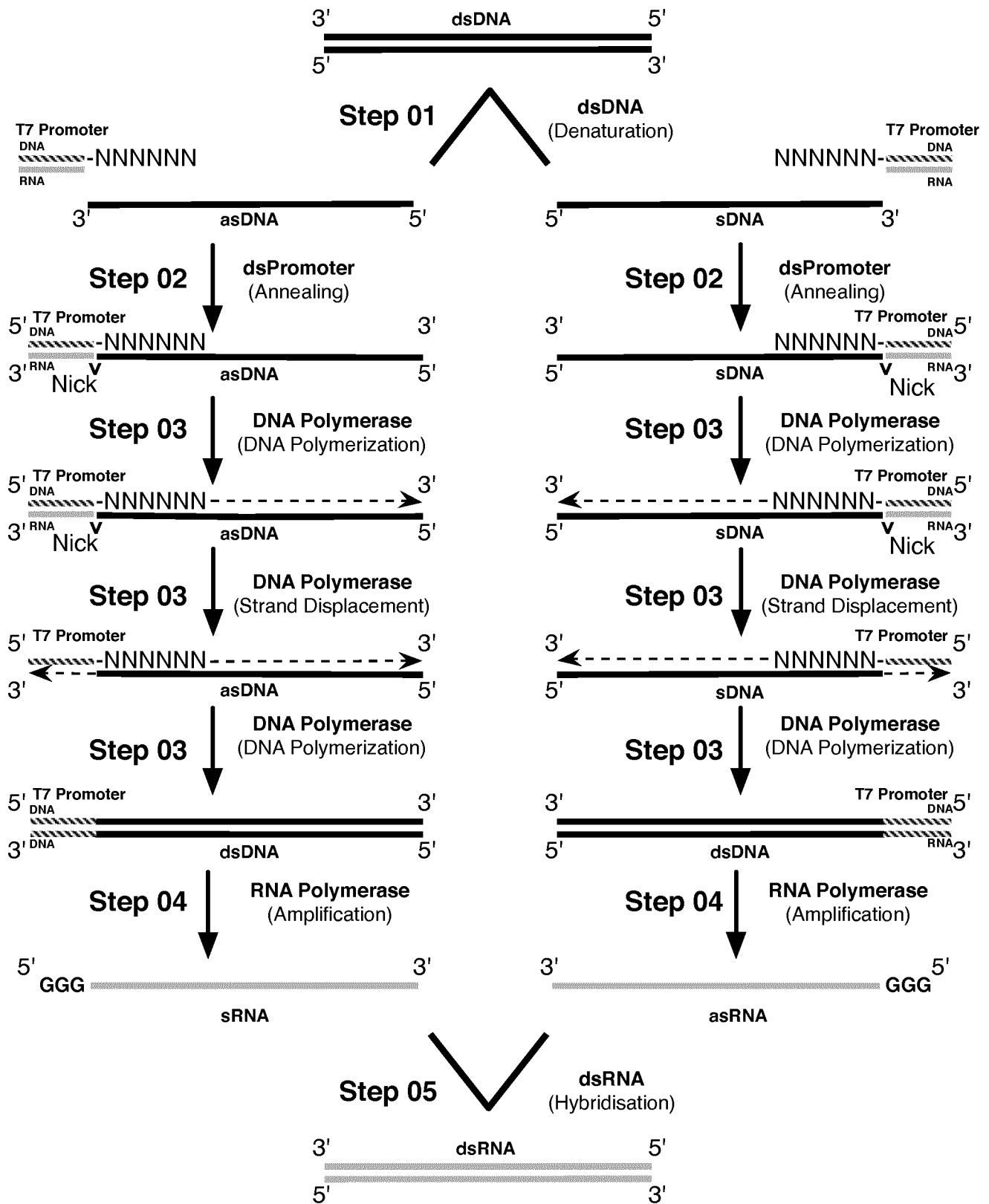


Fig. 13

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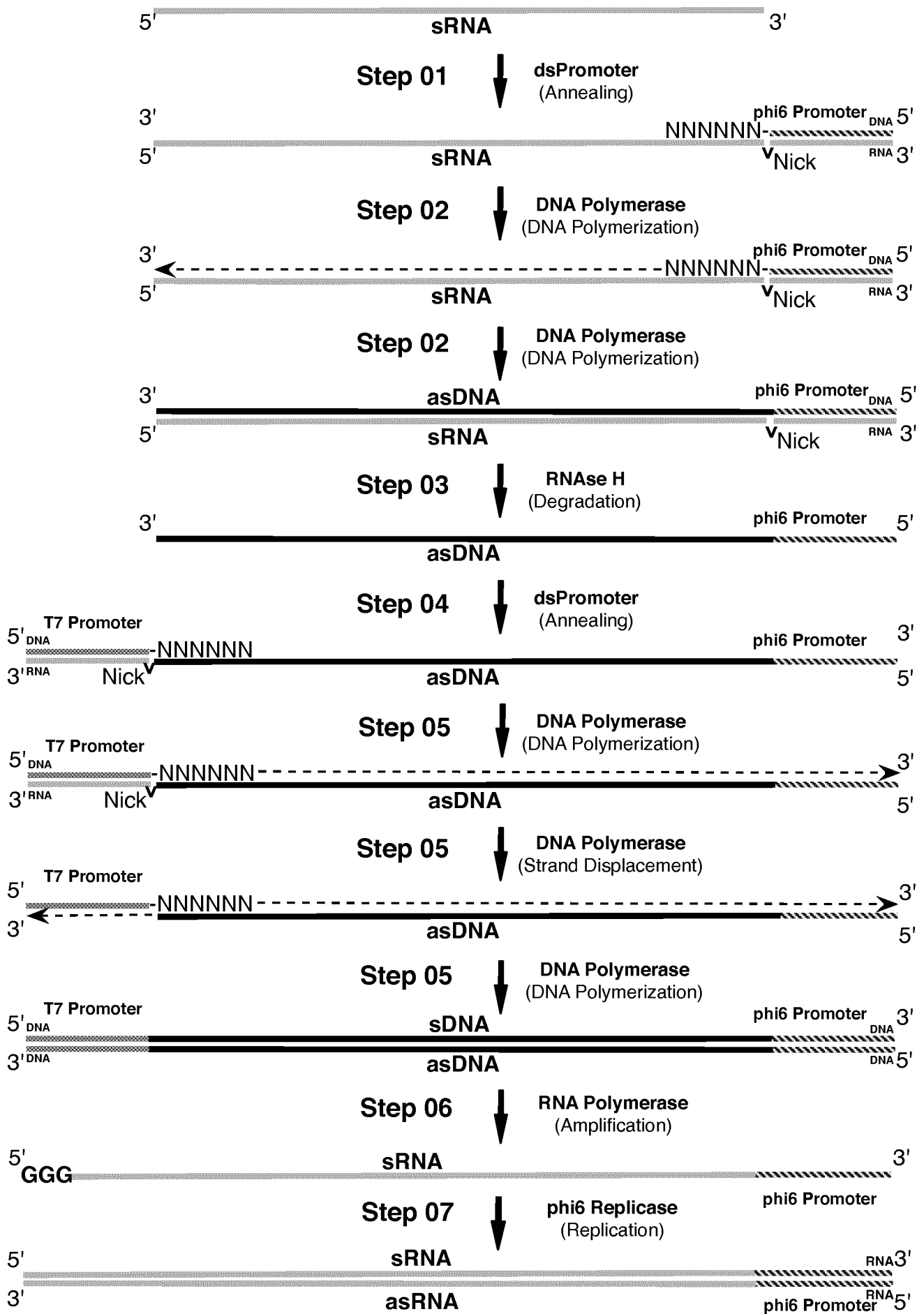


Fig. 14

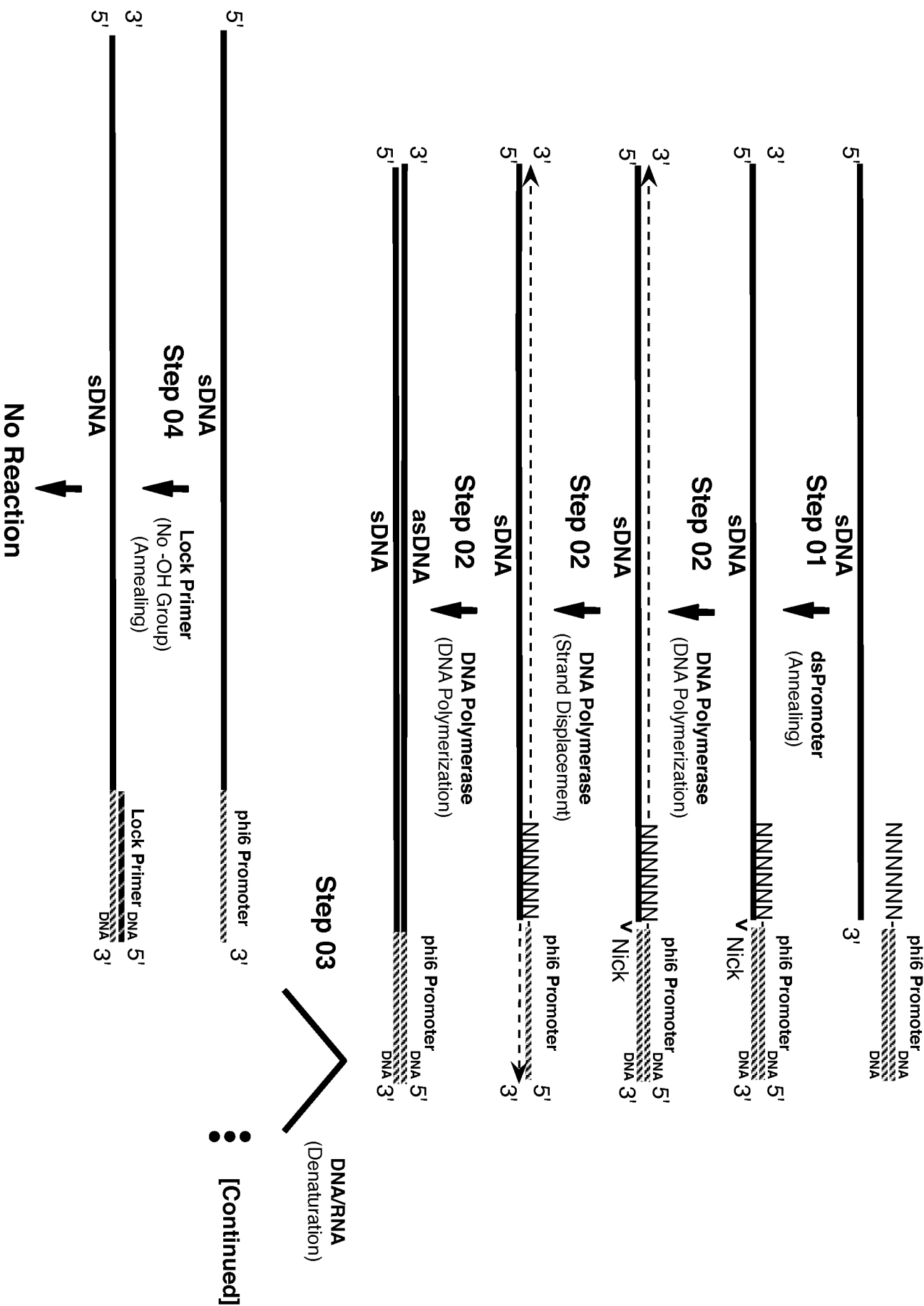
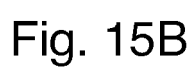


Fig. 15A



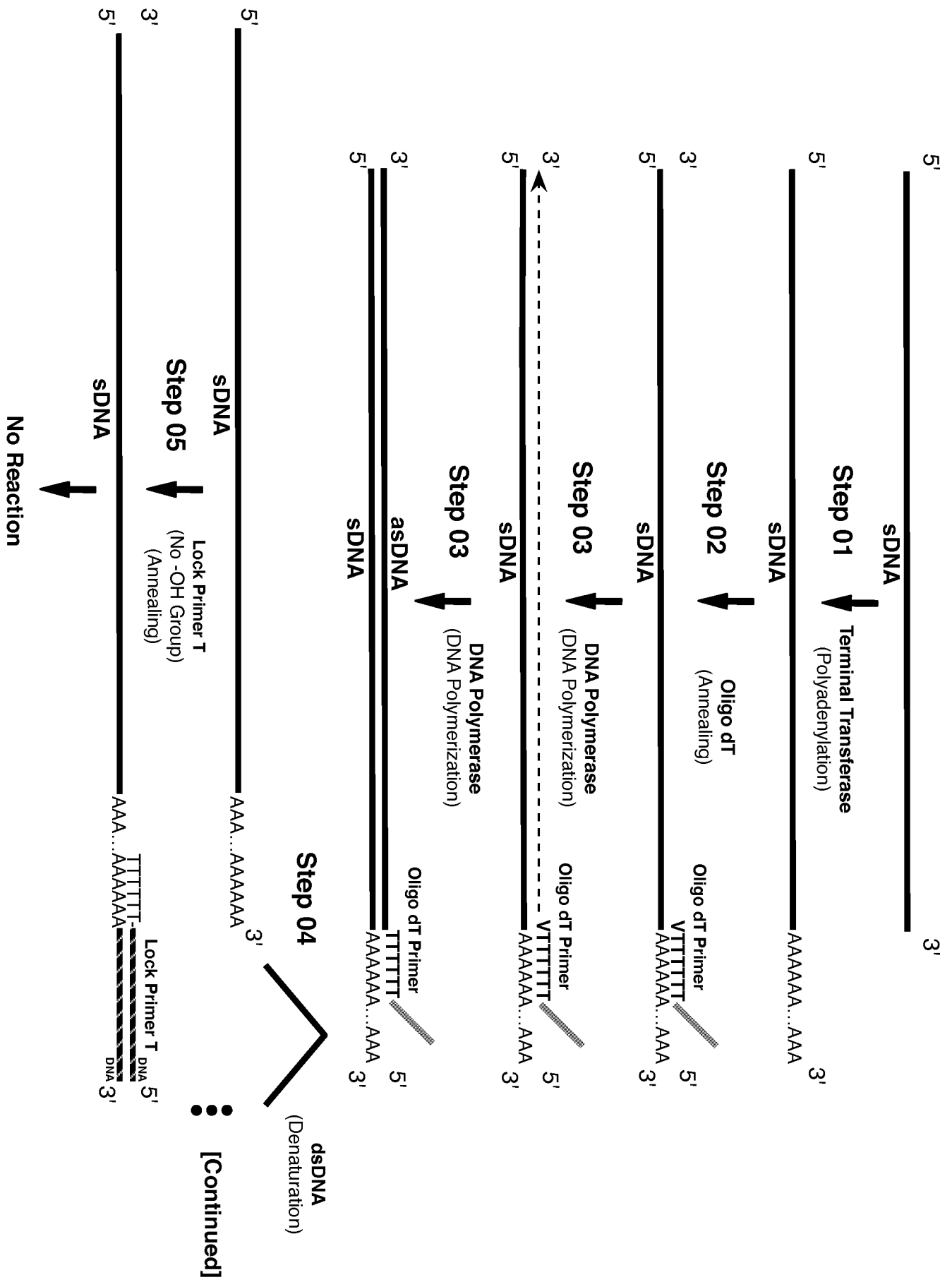


Fig. 16A

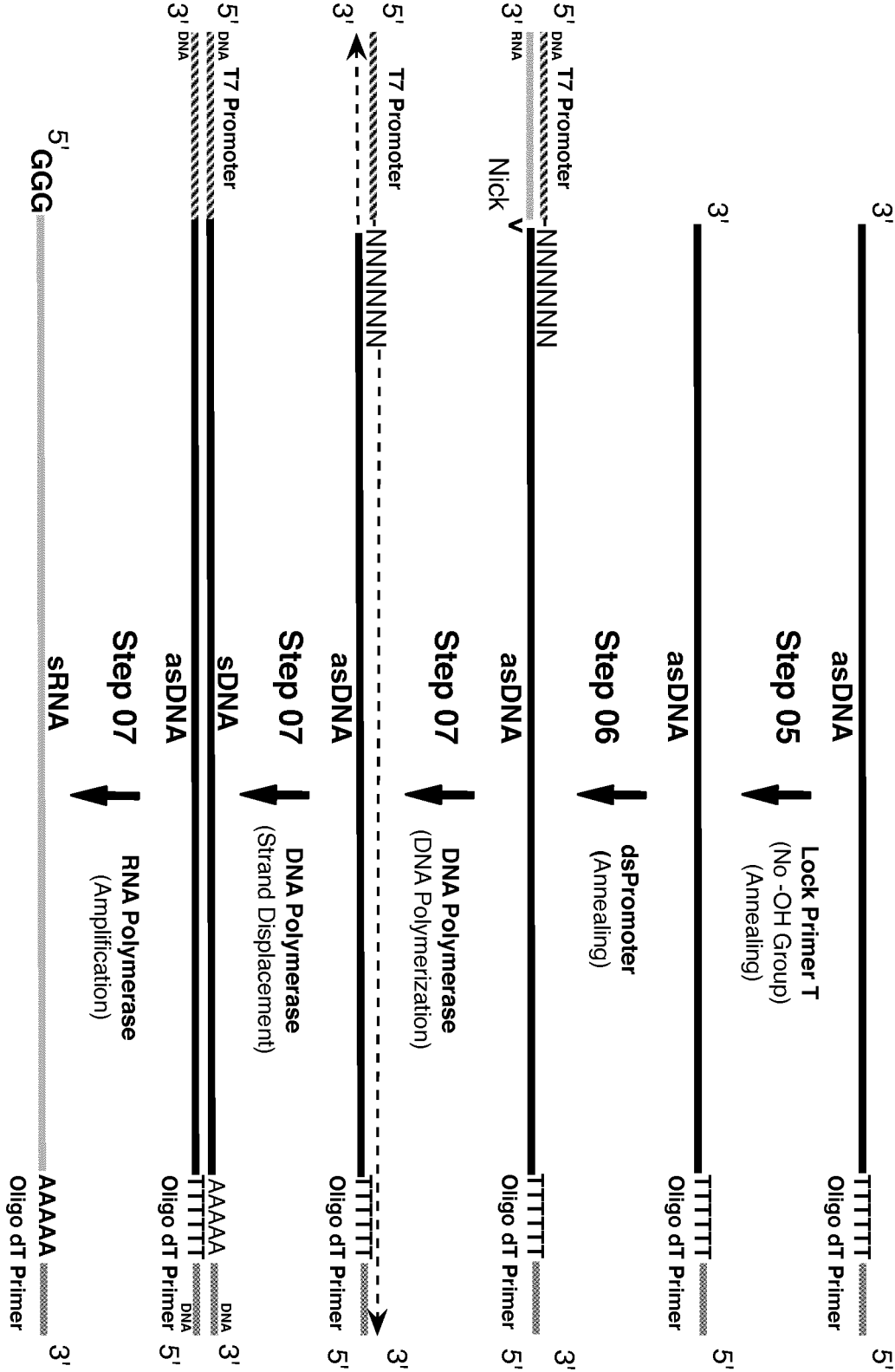


Fig. 16B

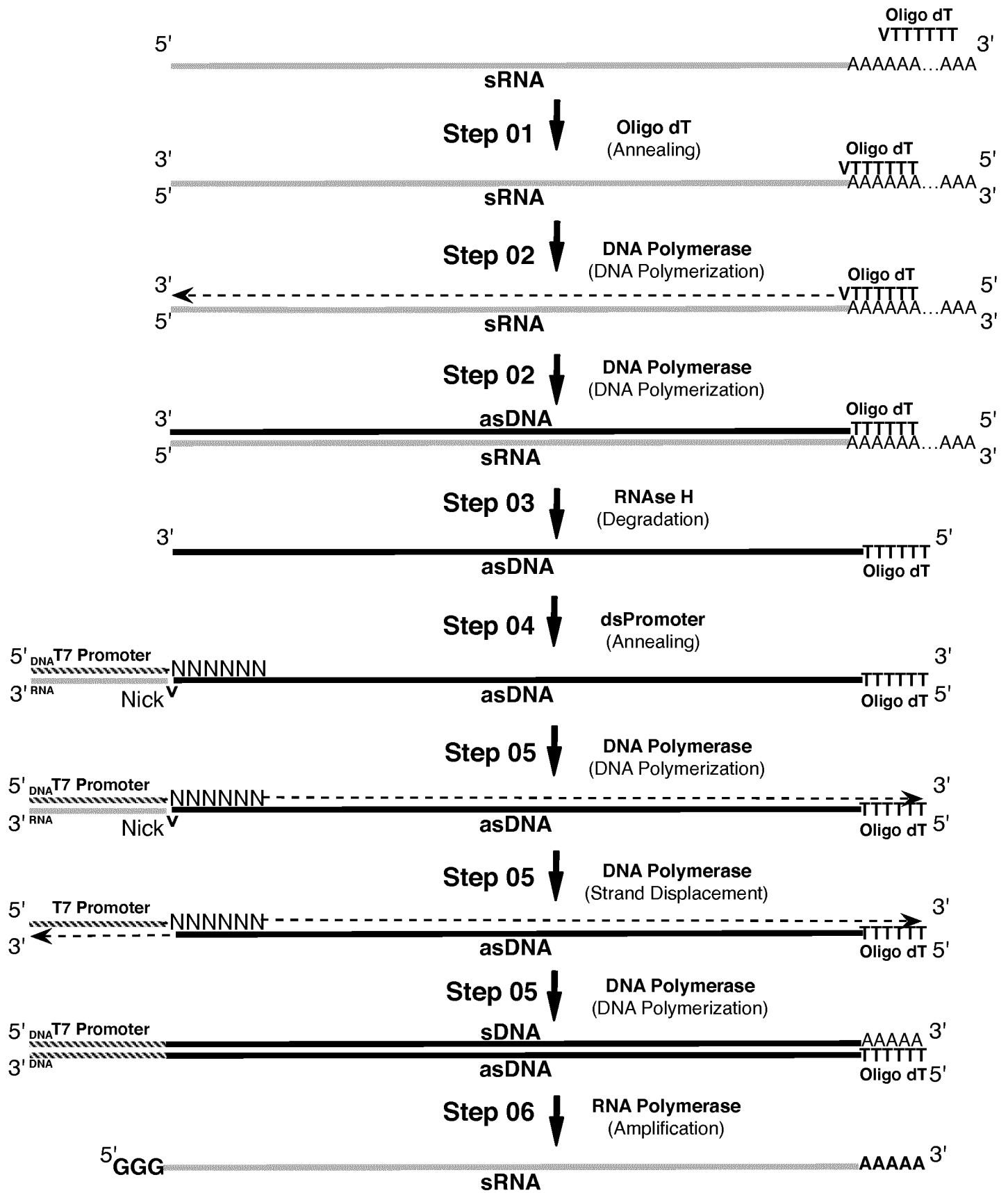


Fig. 17

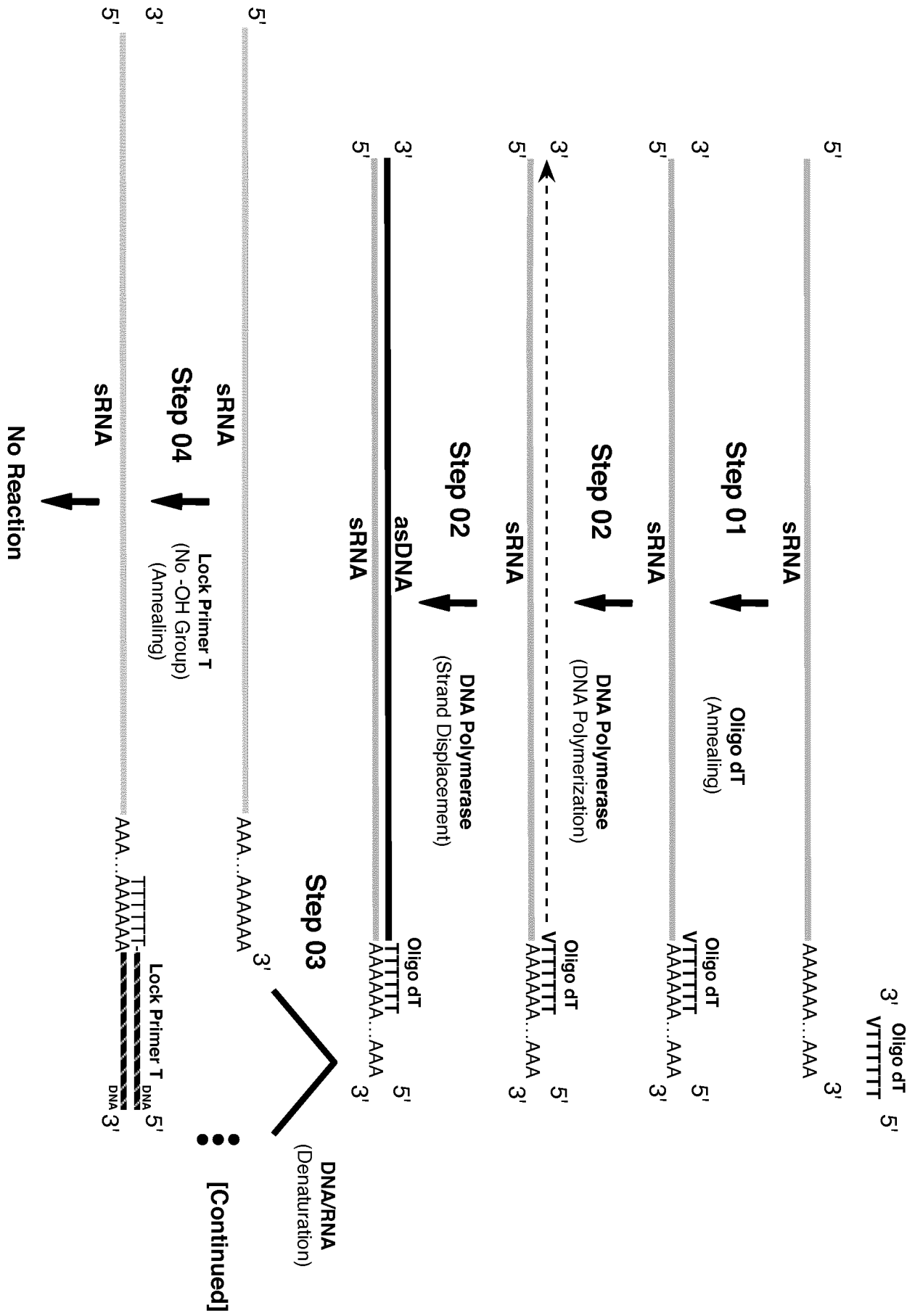


Fig. 18A

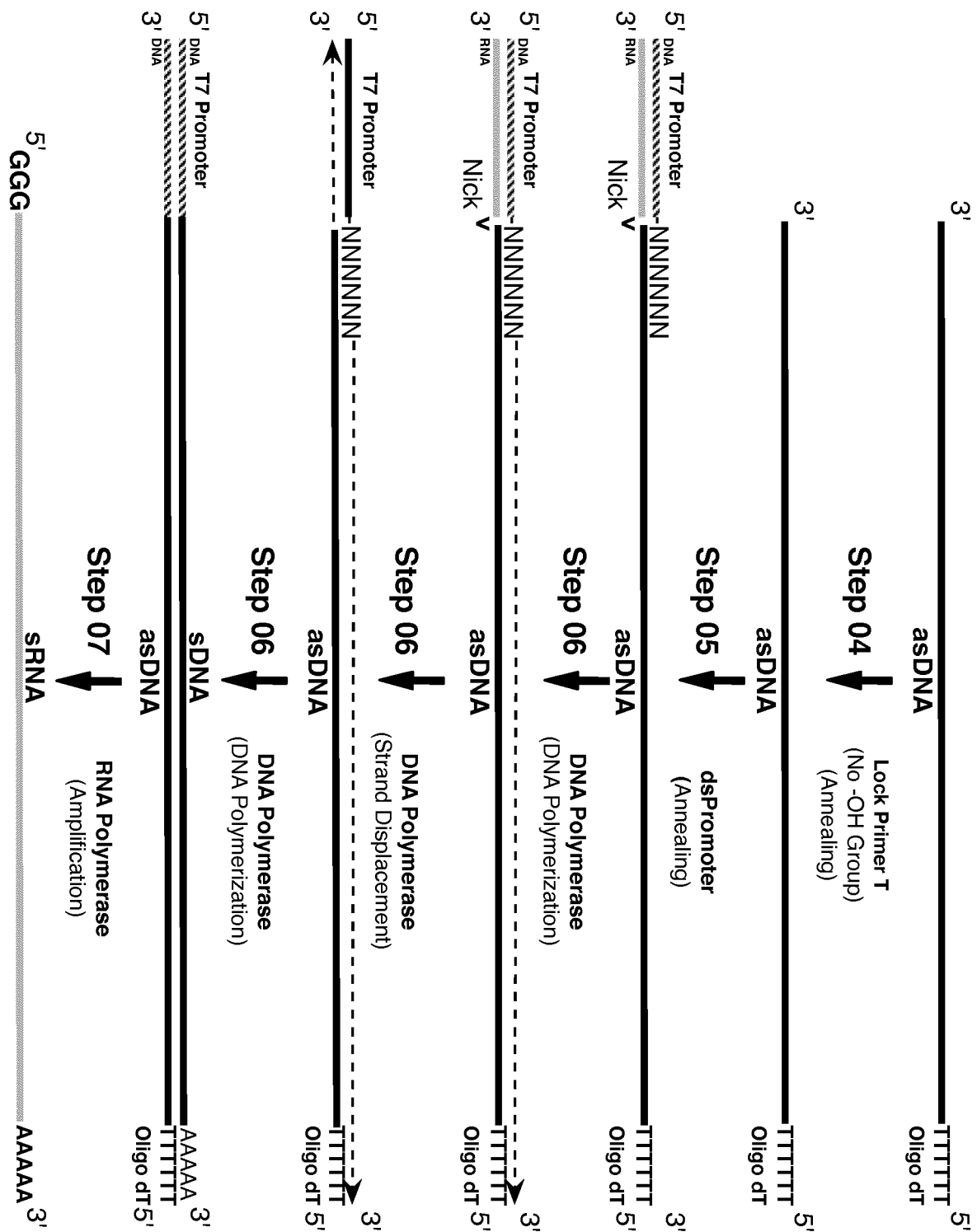


Fig. 18B

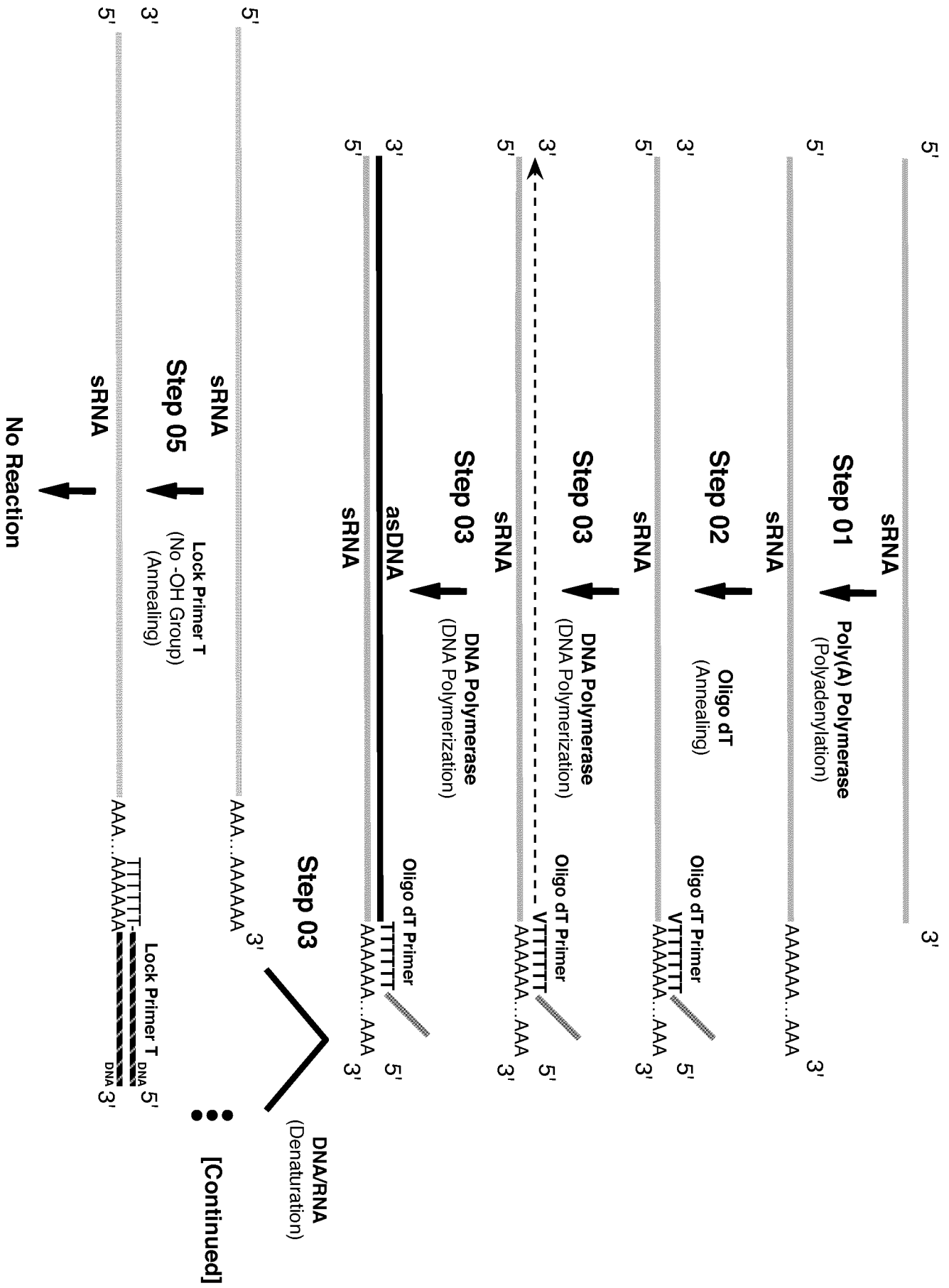


Fig. 19A

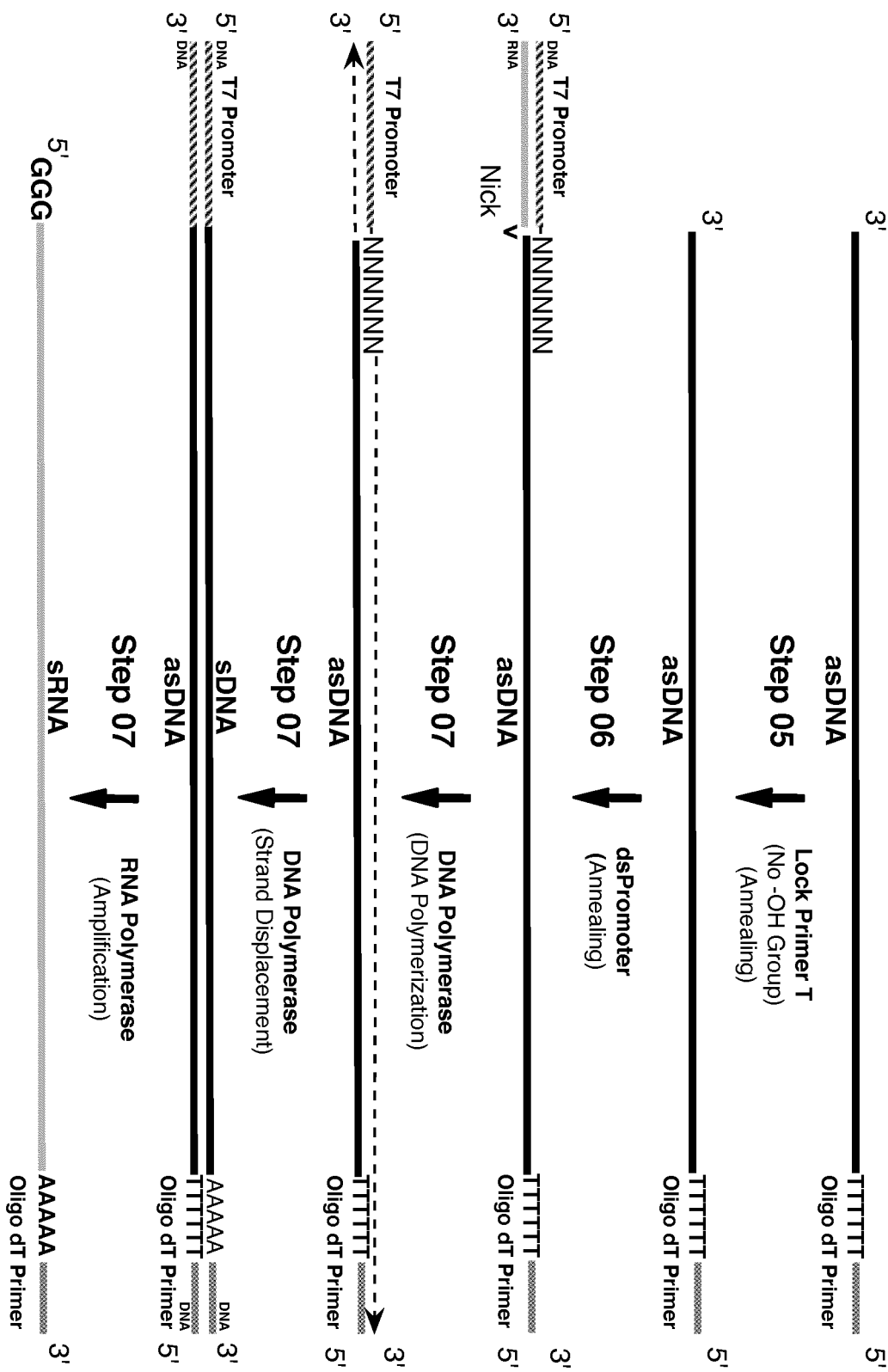


Fig. 19B

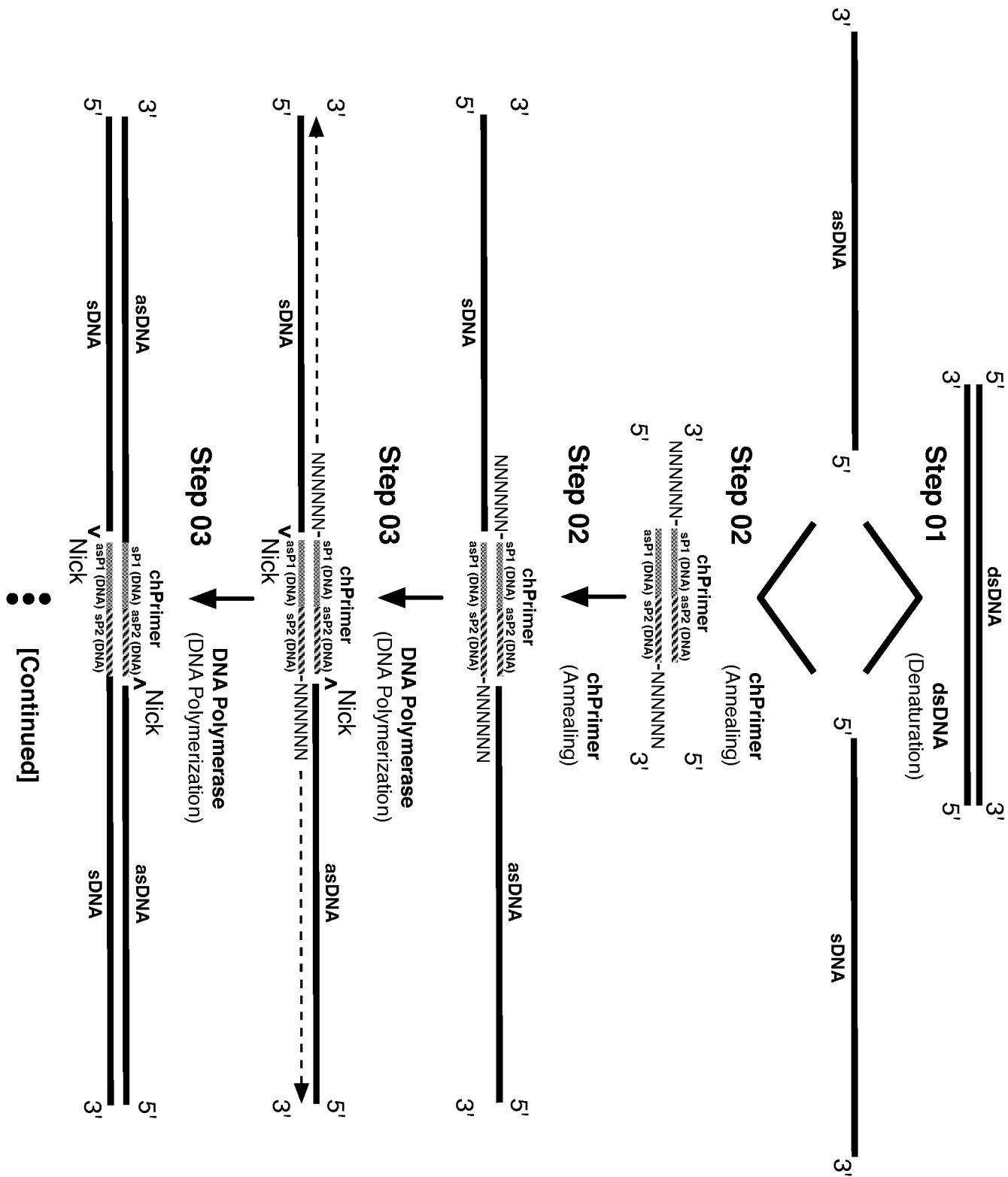


Fig. 20A

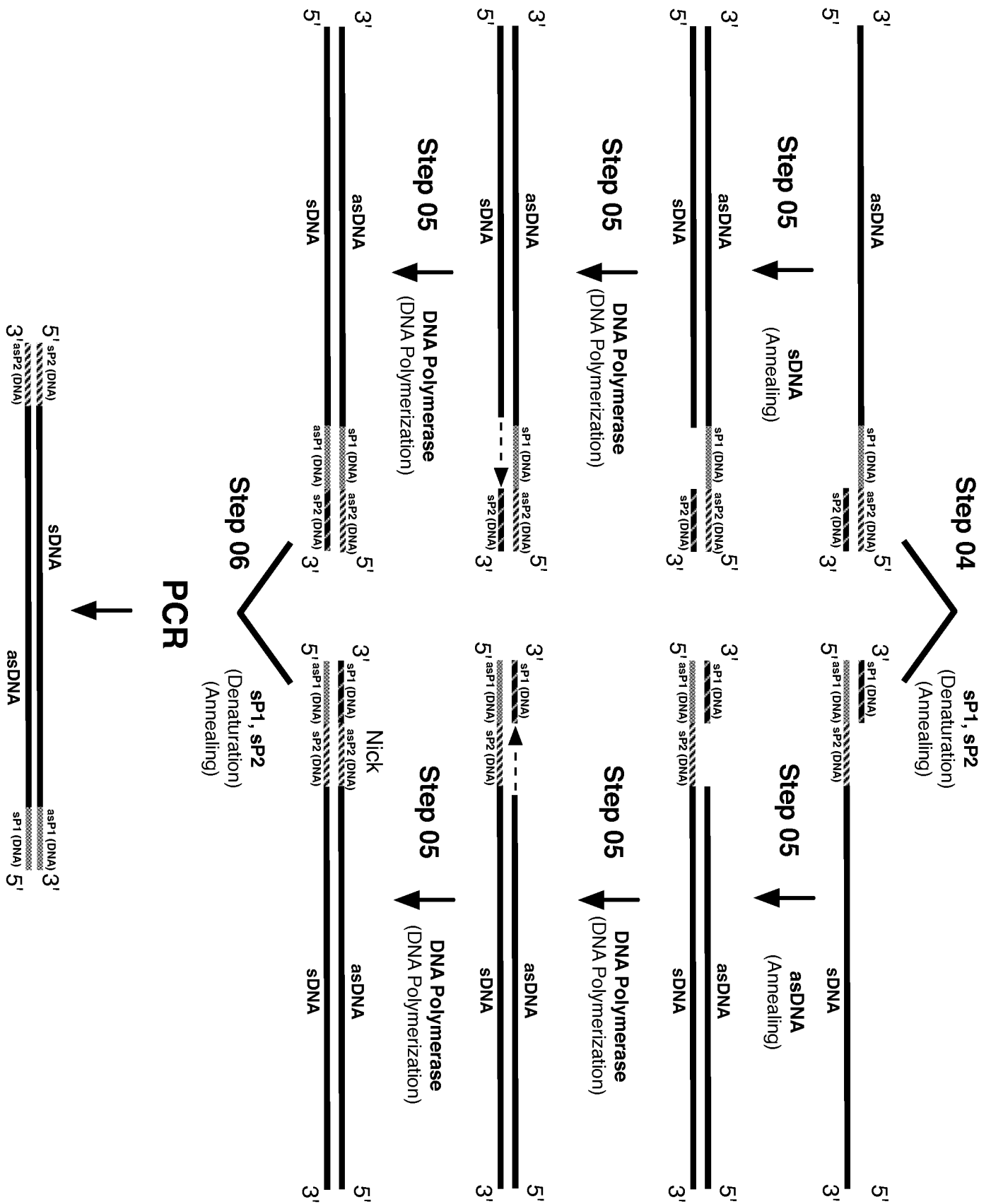


Fig. 20B

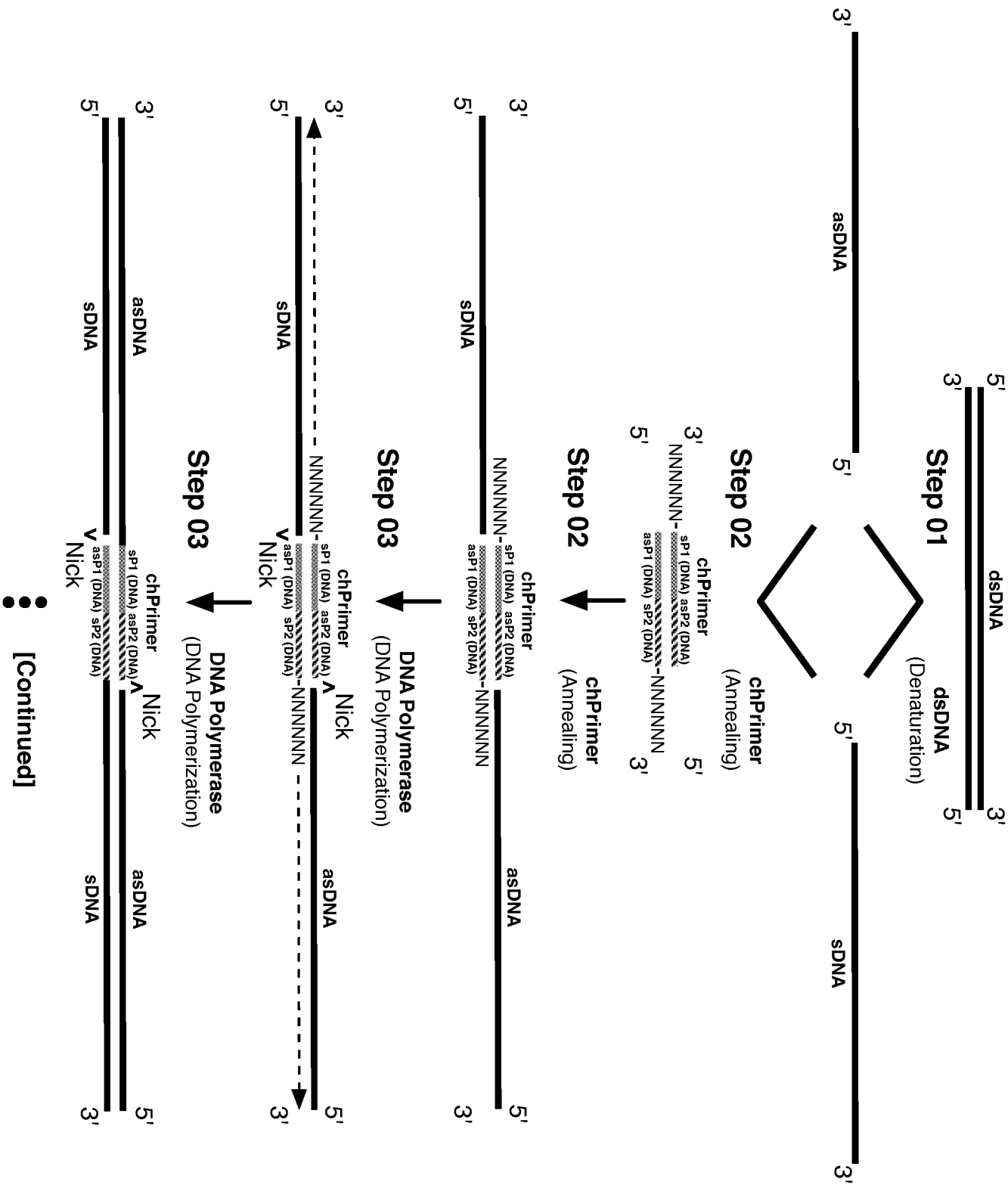


Fig. 21A

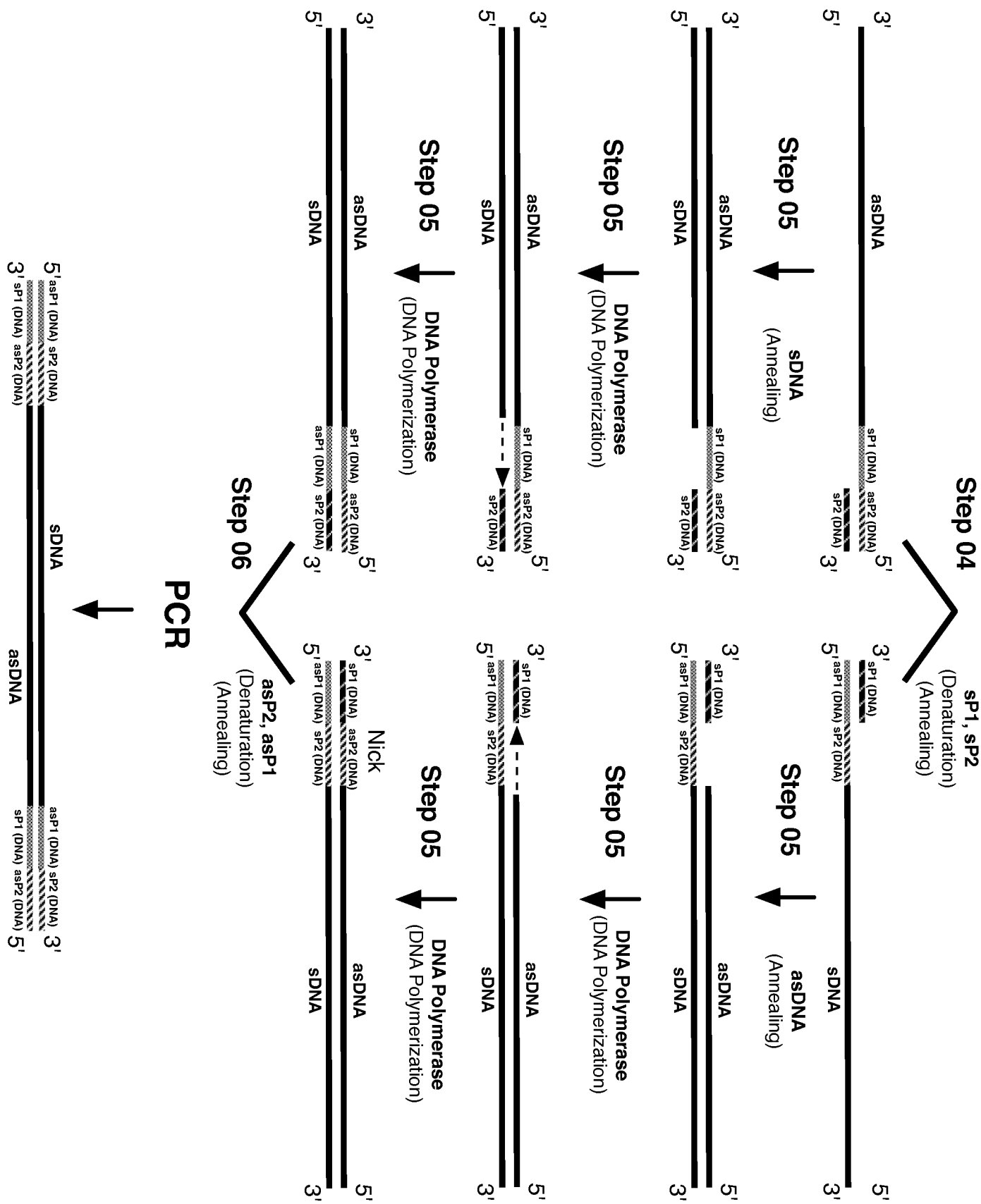


Fig. 21B

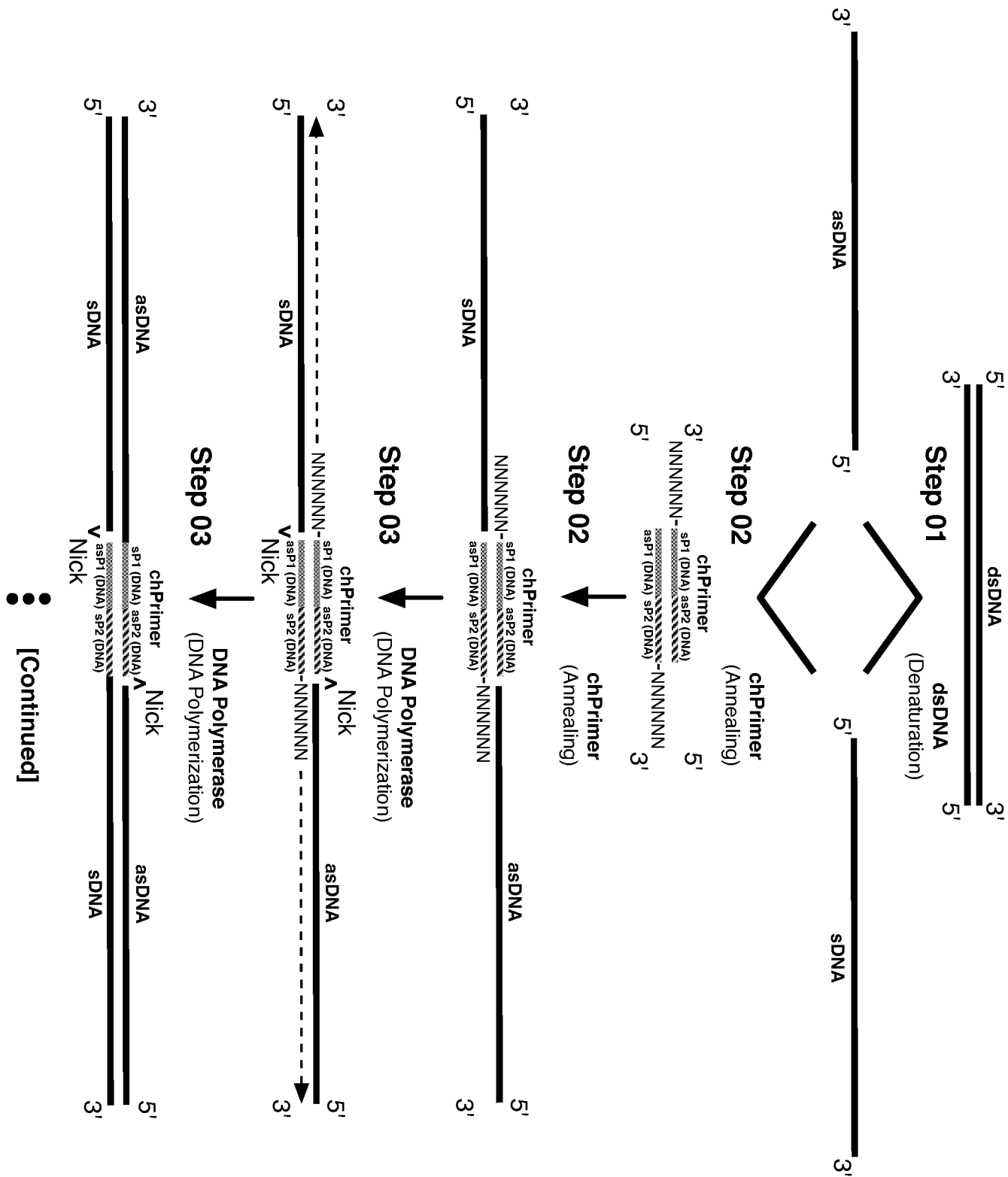


Fig. 22A

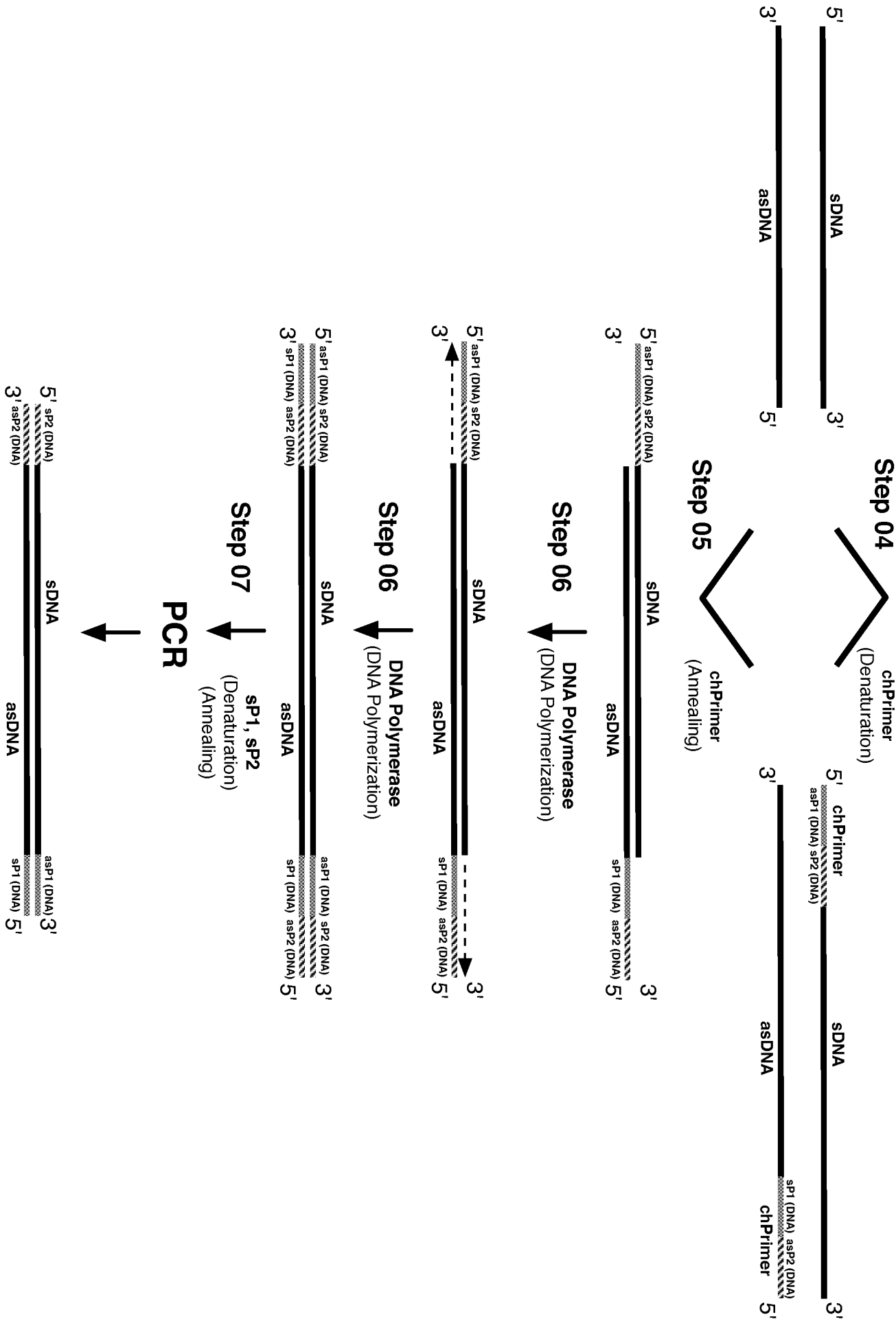


Fig. 22B

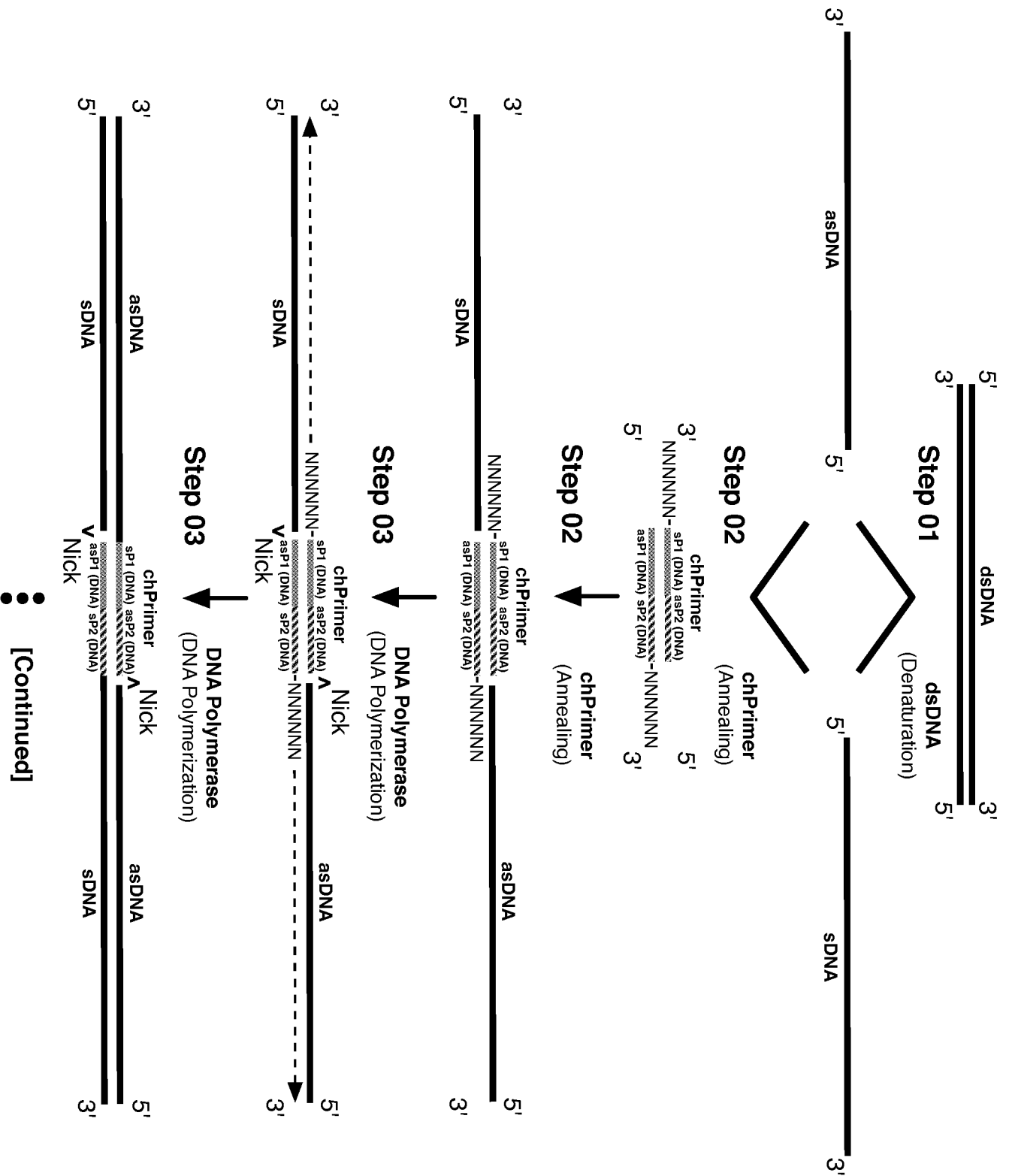


Fig. 23A

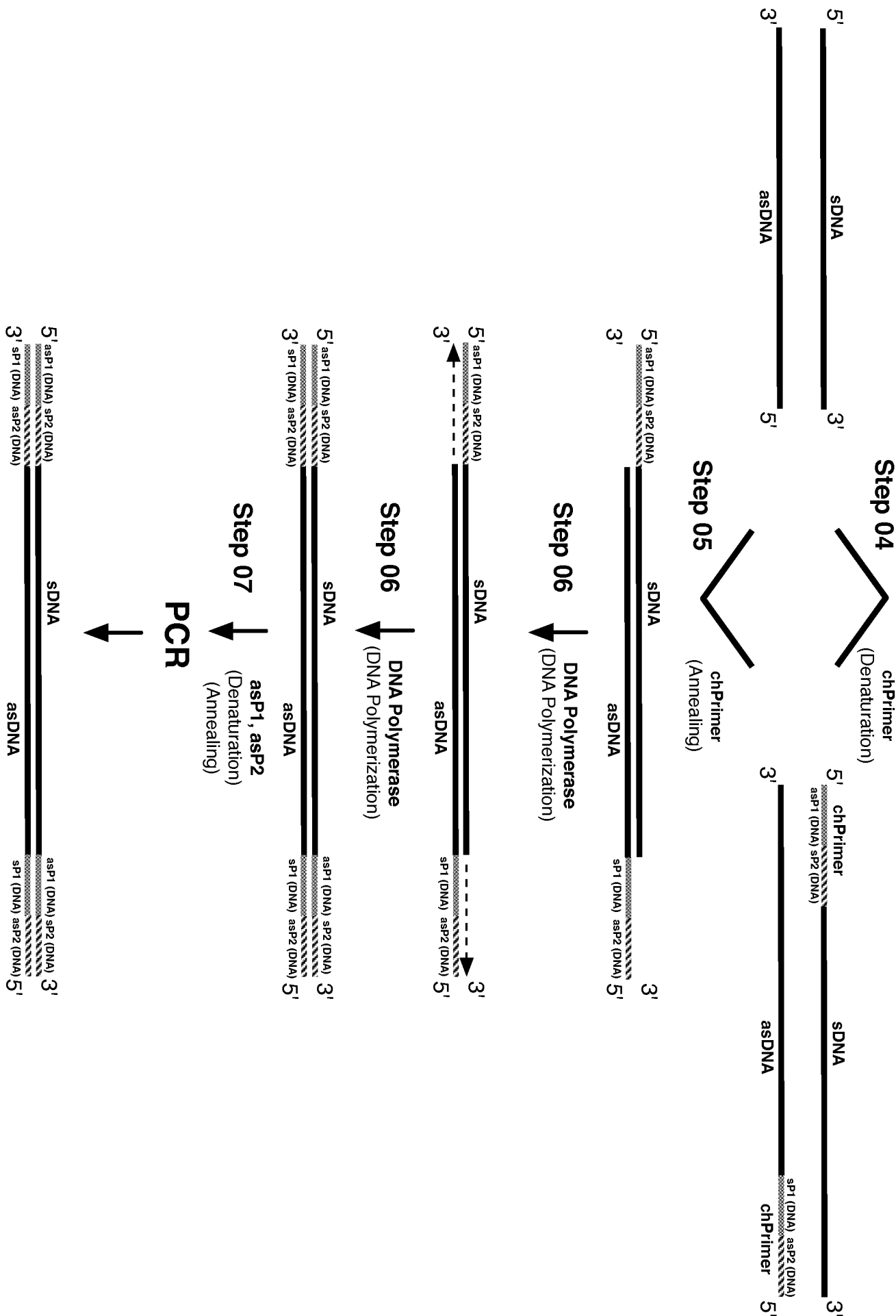
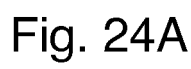


Fig. 23B



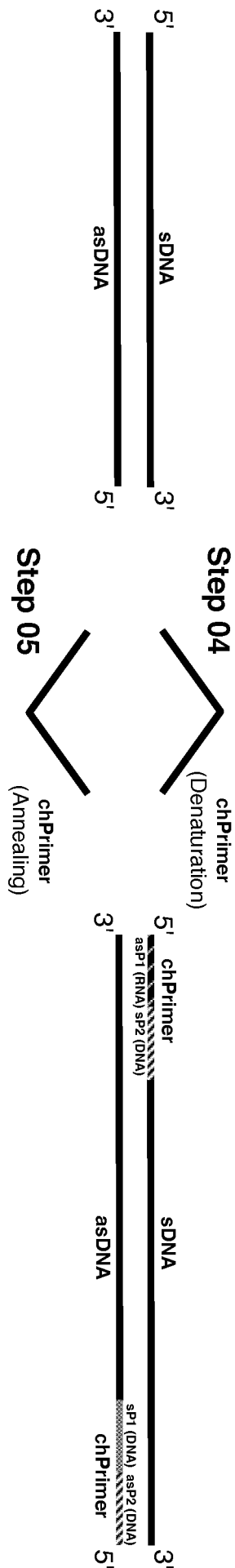
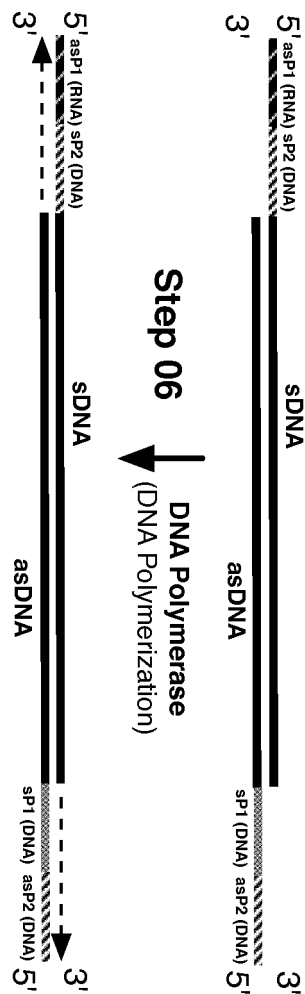
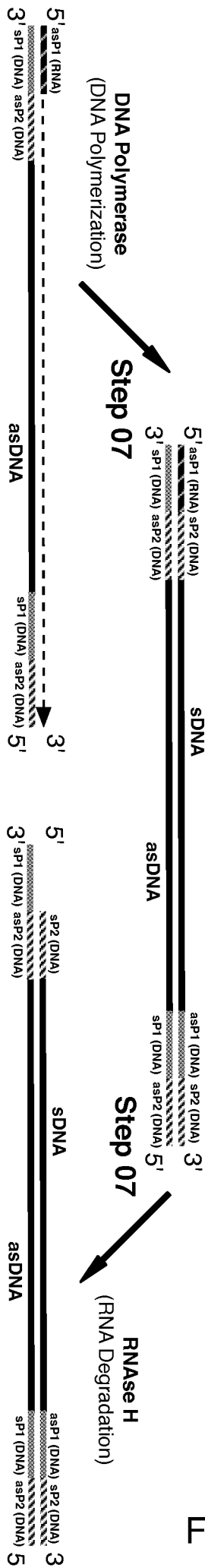
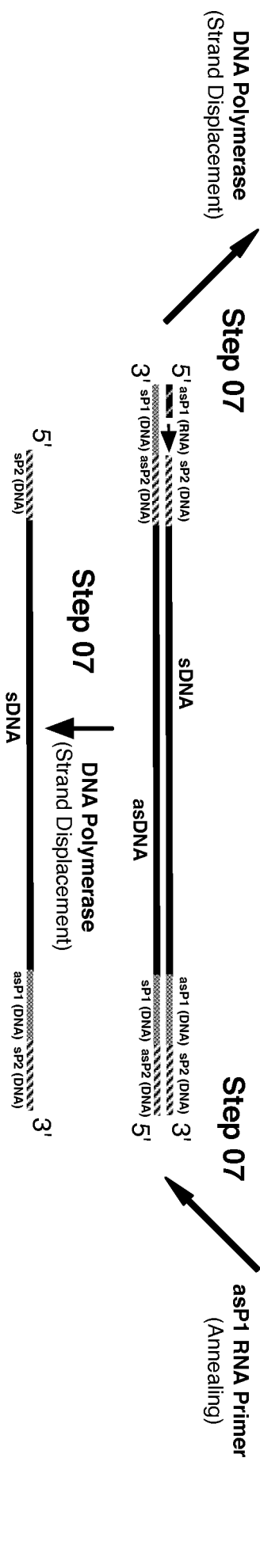


Fig. 24B

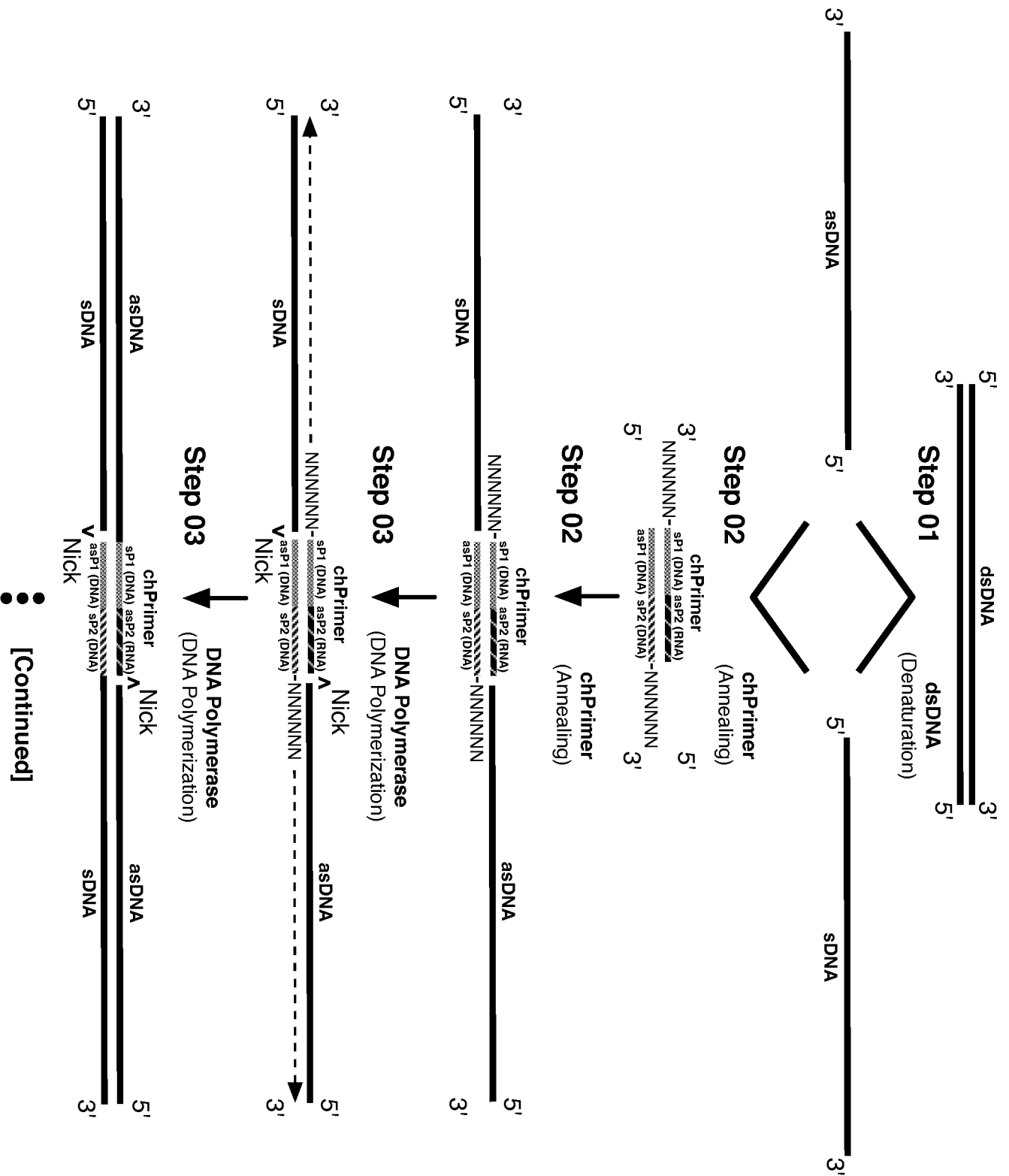
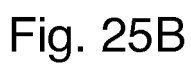


Fig. 25A



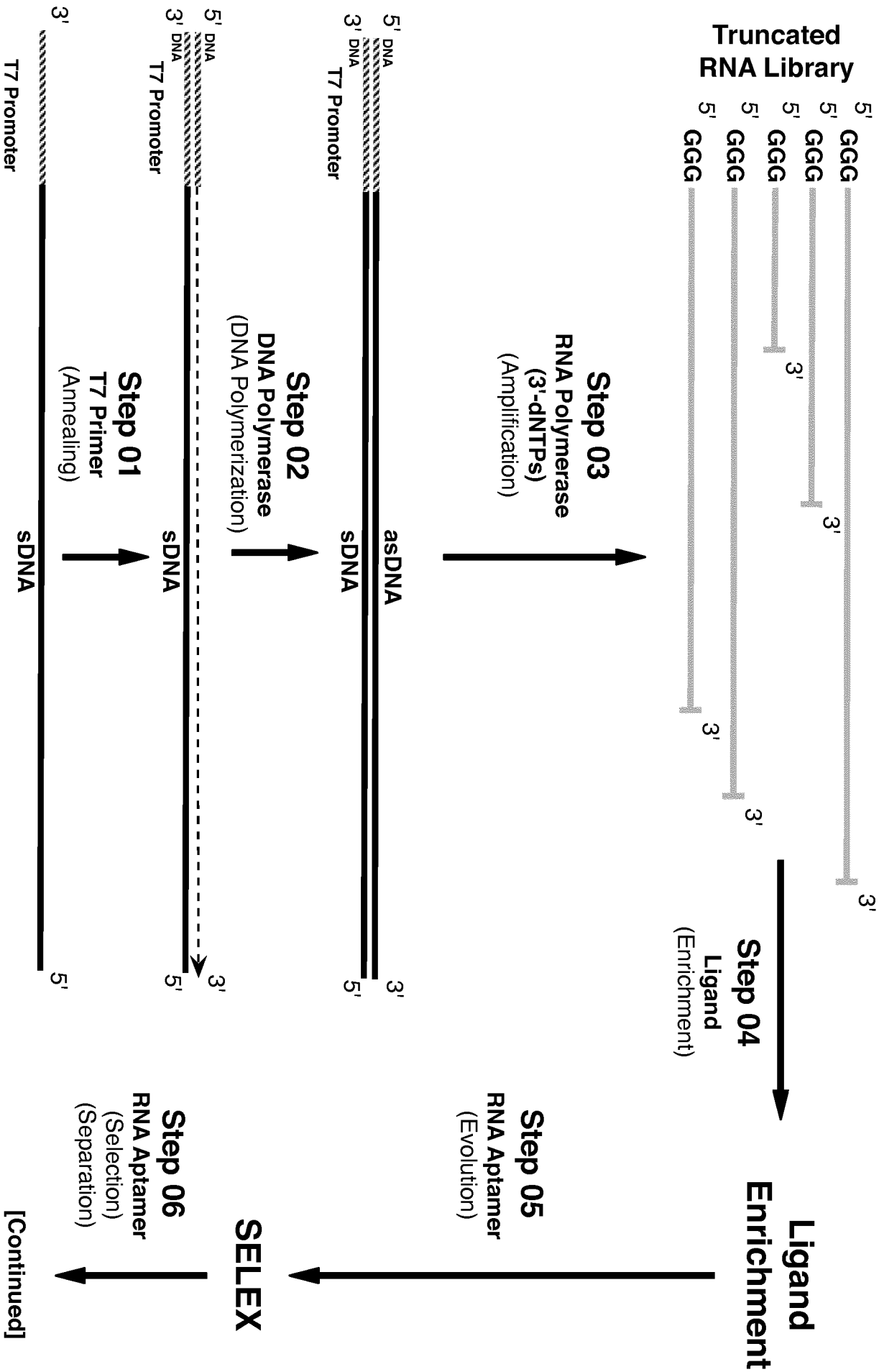


Fig. 26A

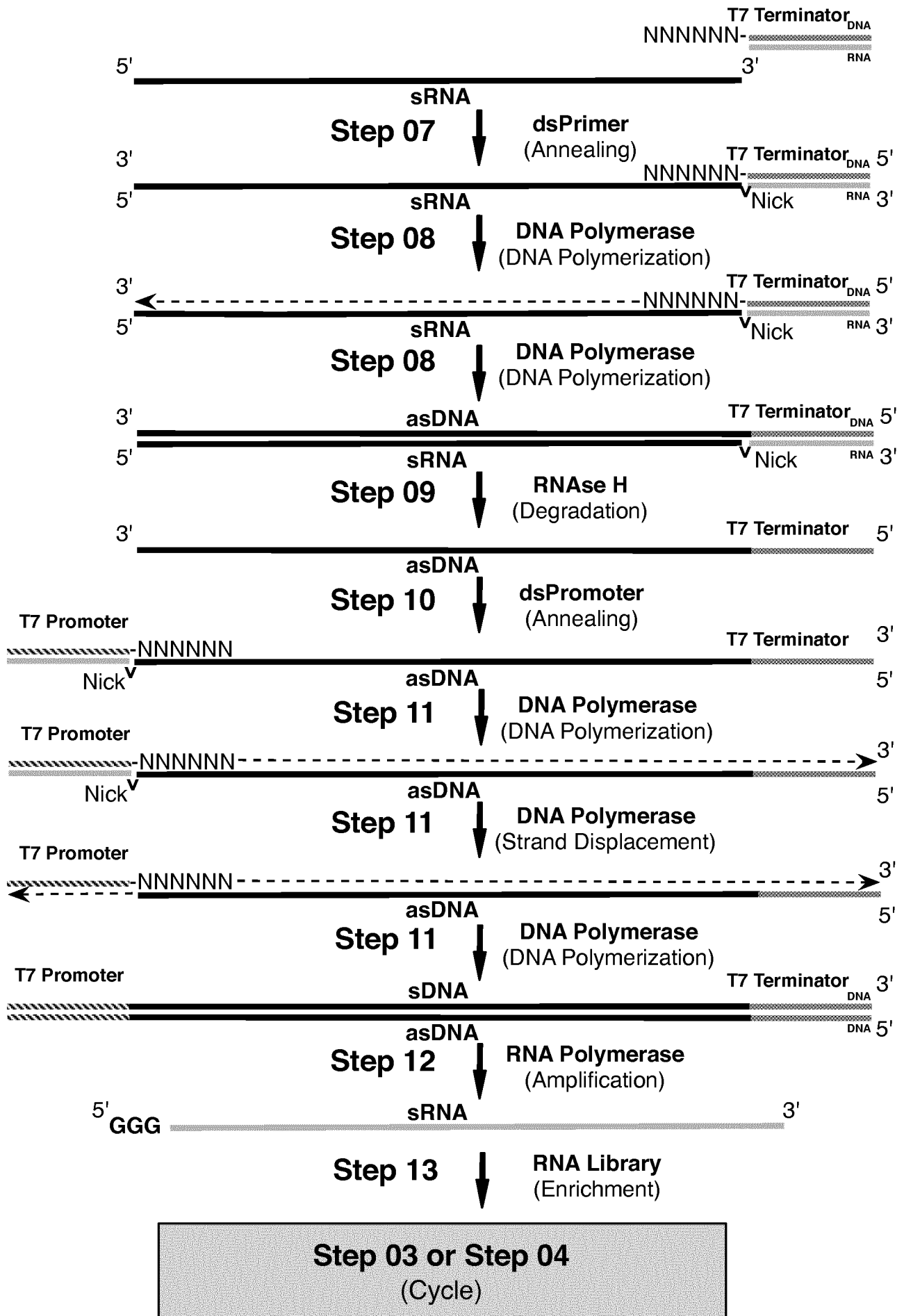
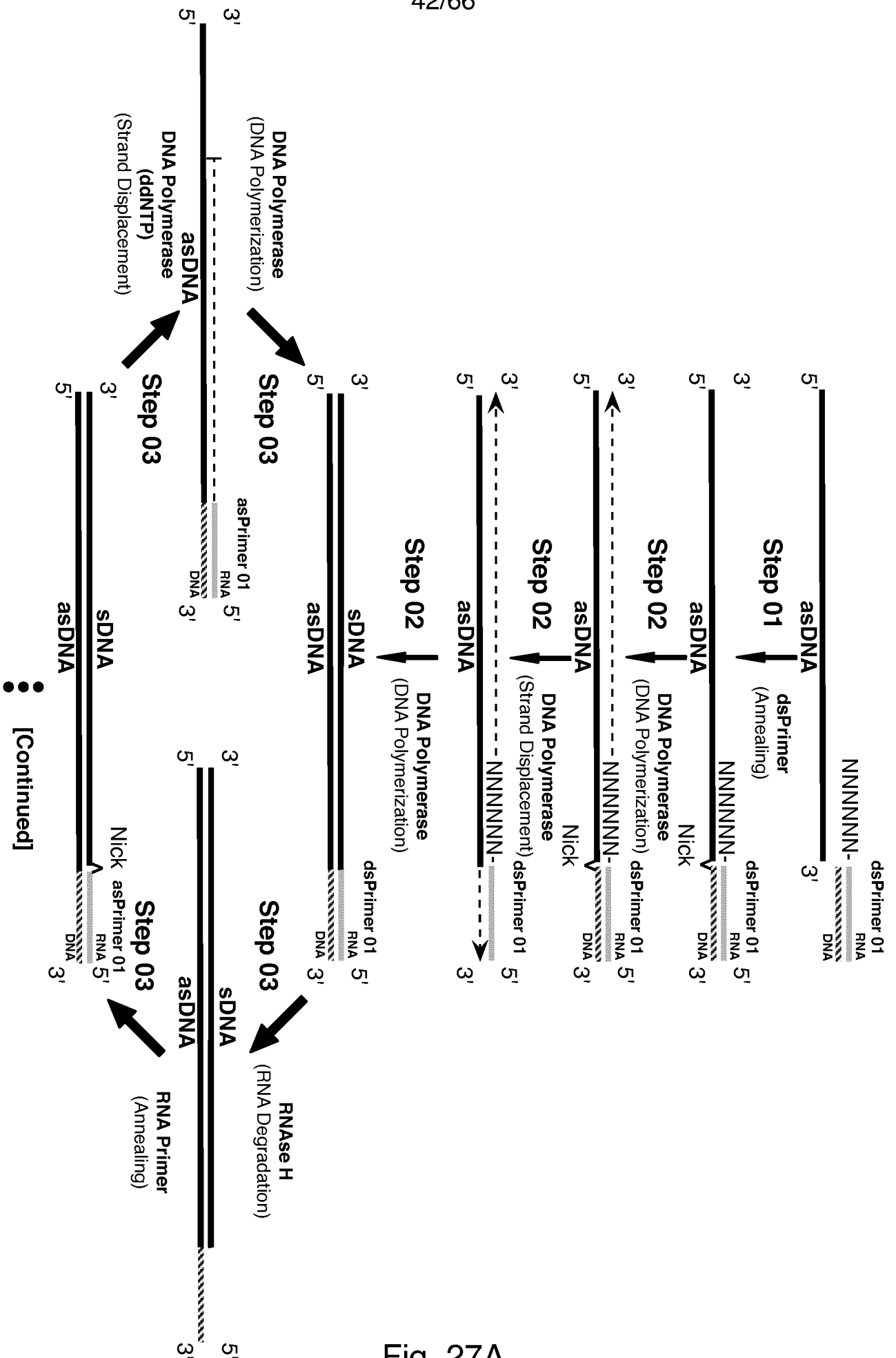
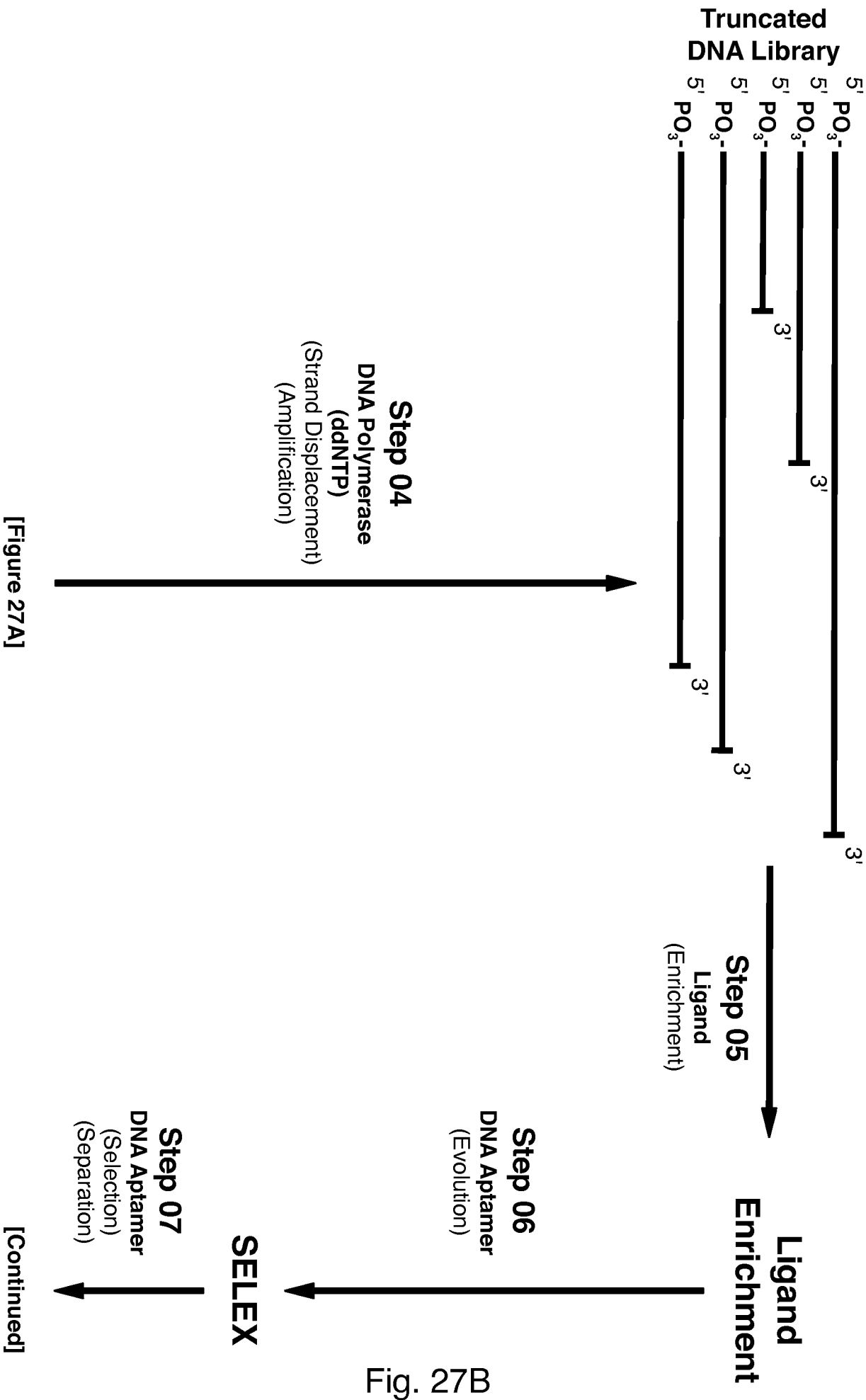


Fig. 26B





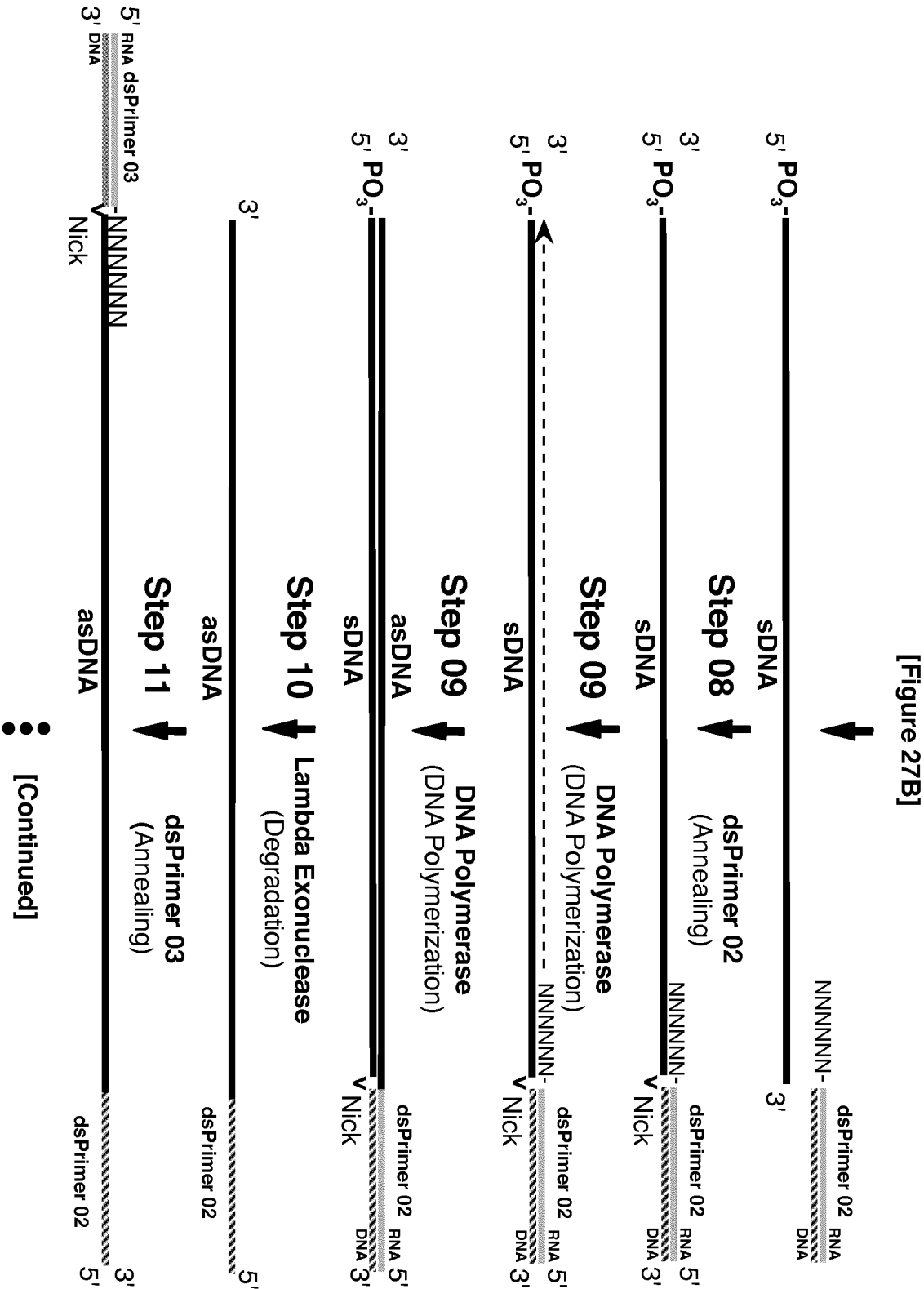
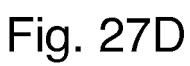


Fig. 27C



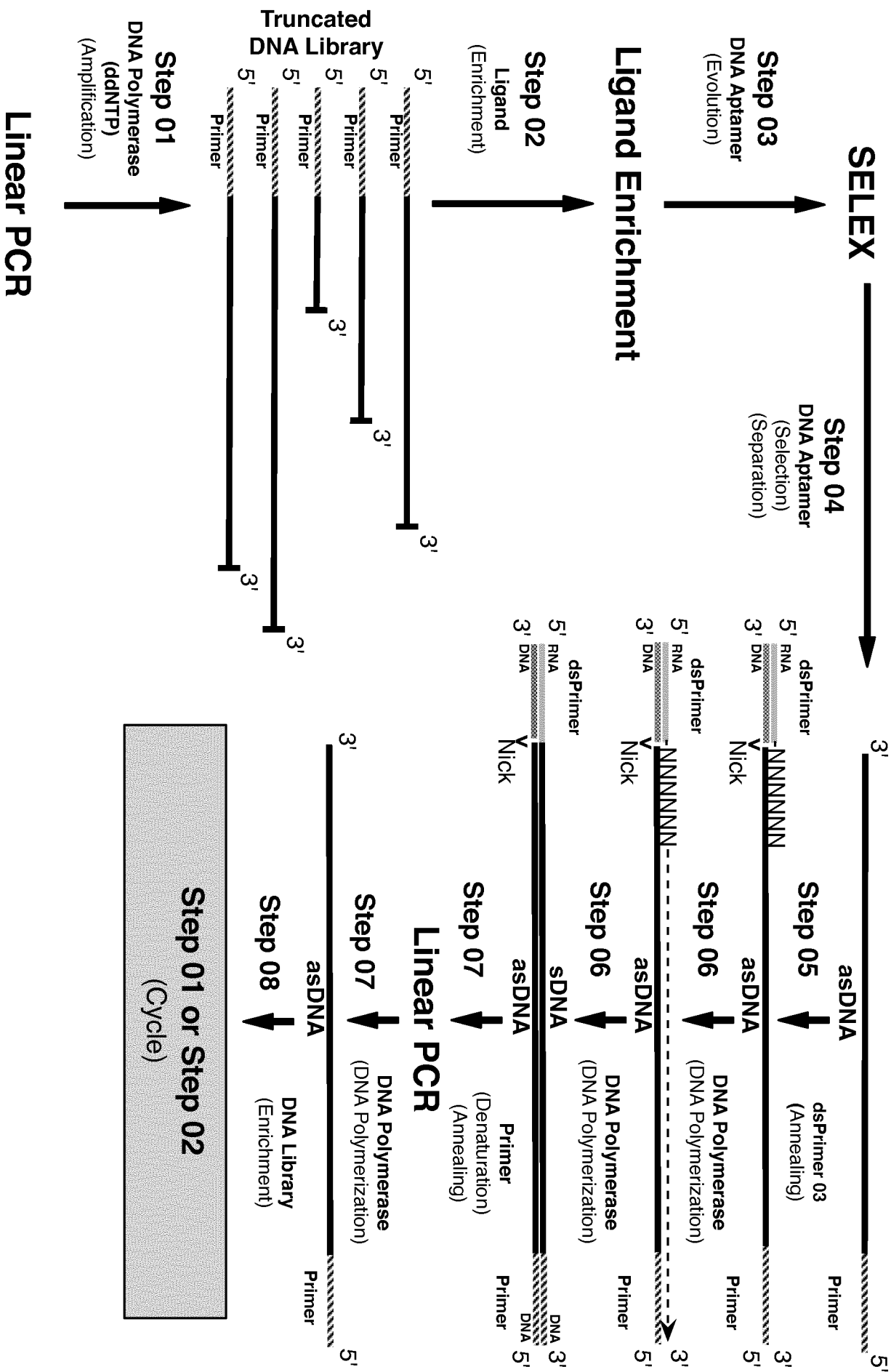


Fig. 28

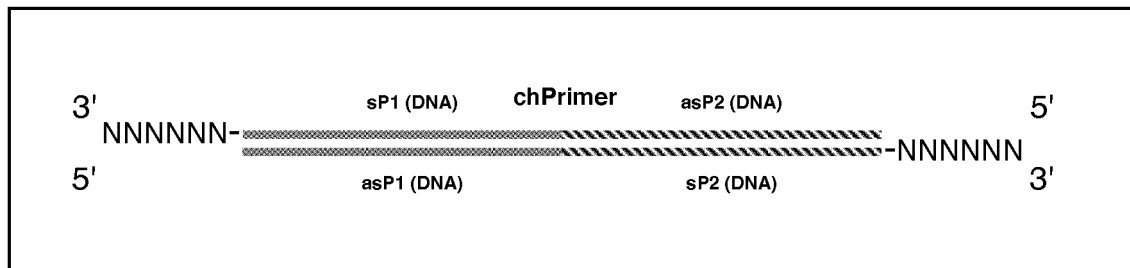
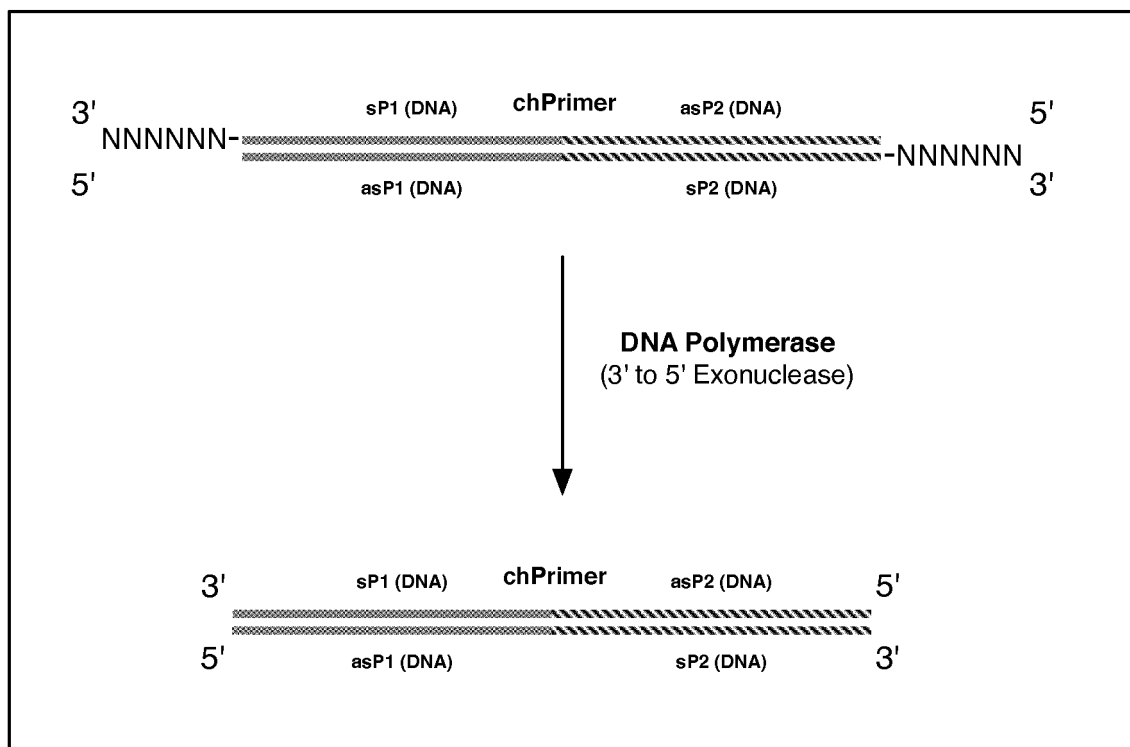
chPrimer Structure**chPrimer Silencing**

Fig. 29

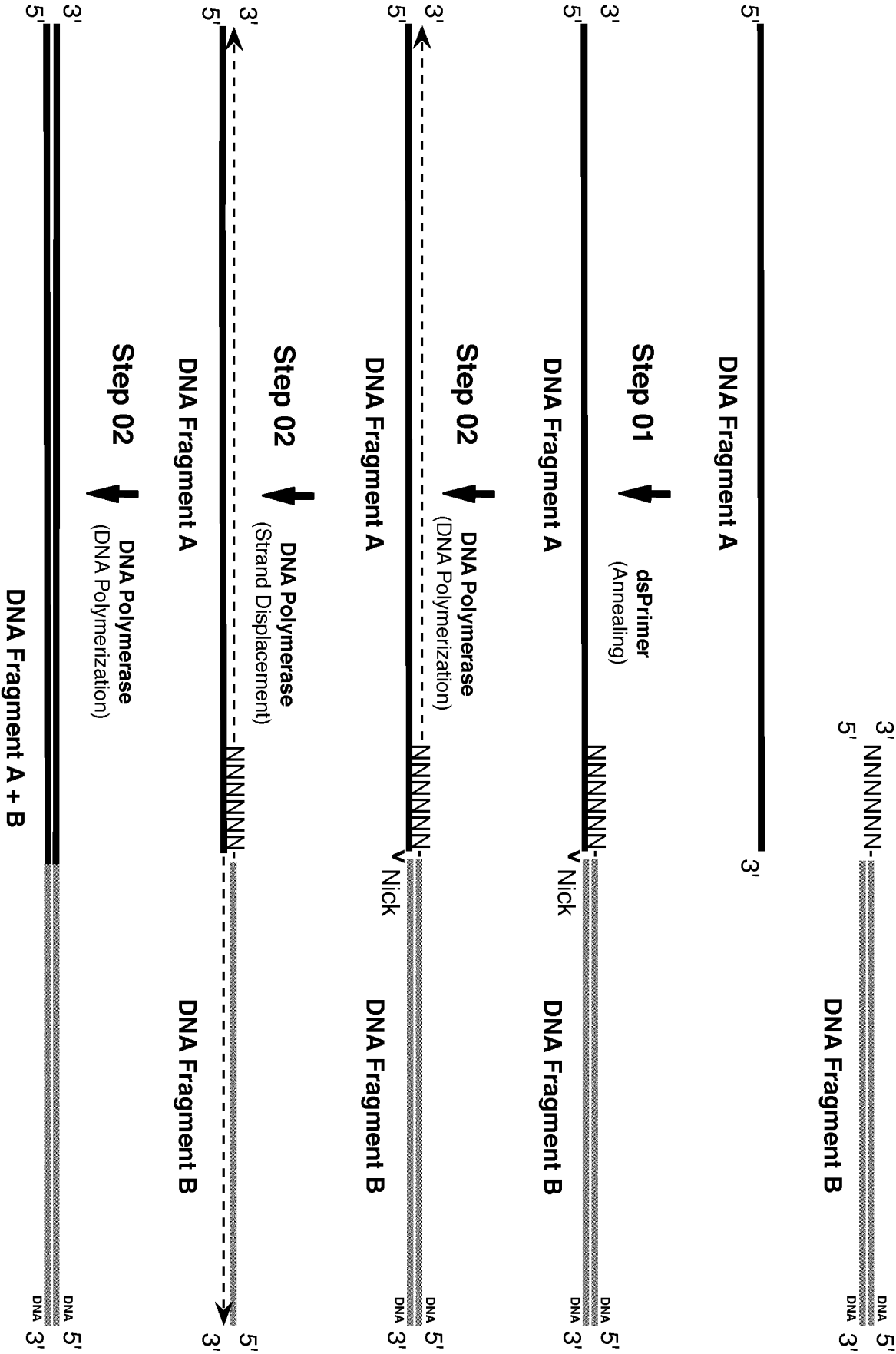
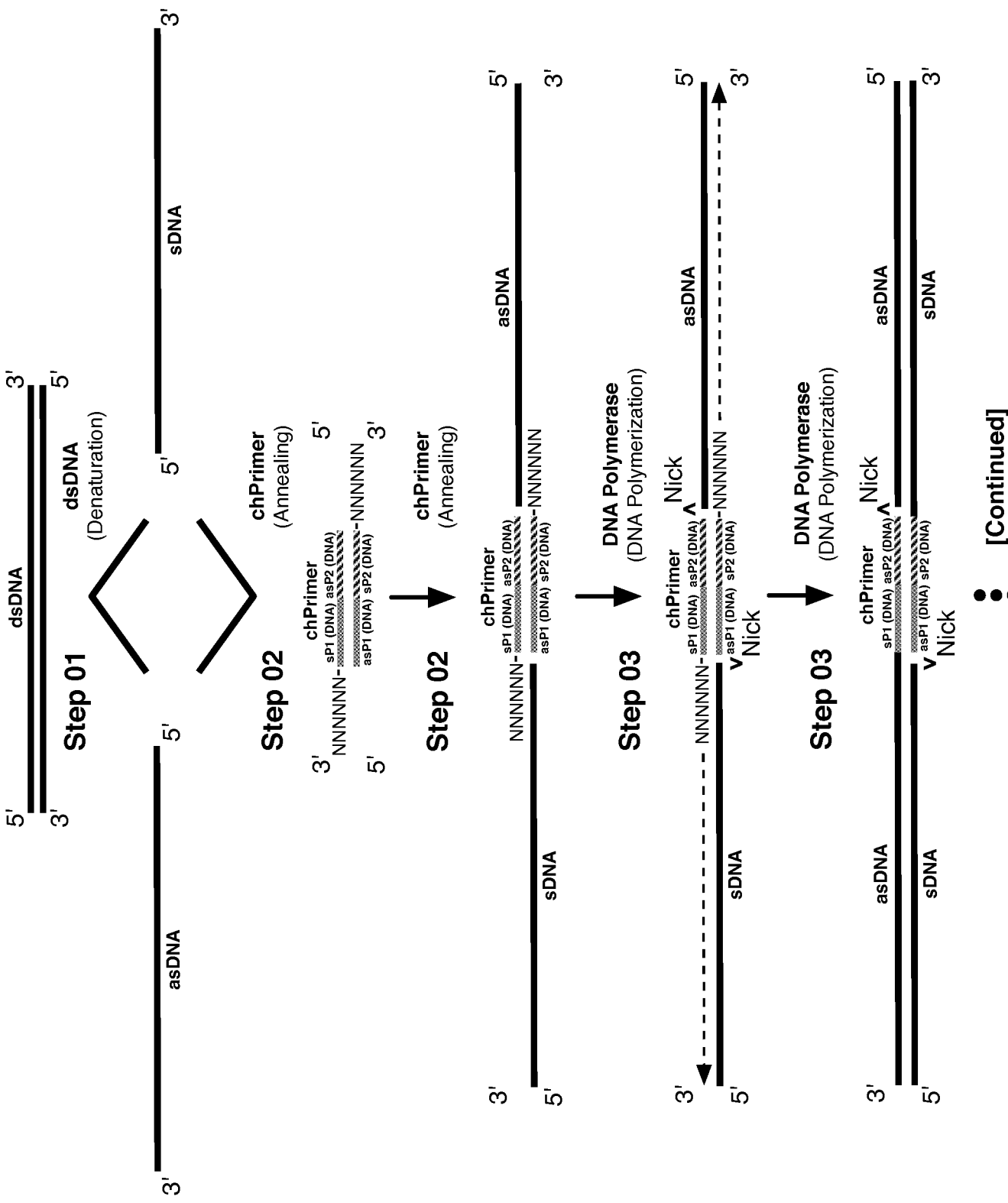


Fig. 30

Fig. 31A



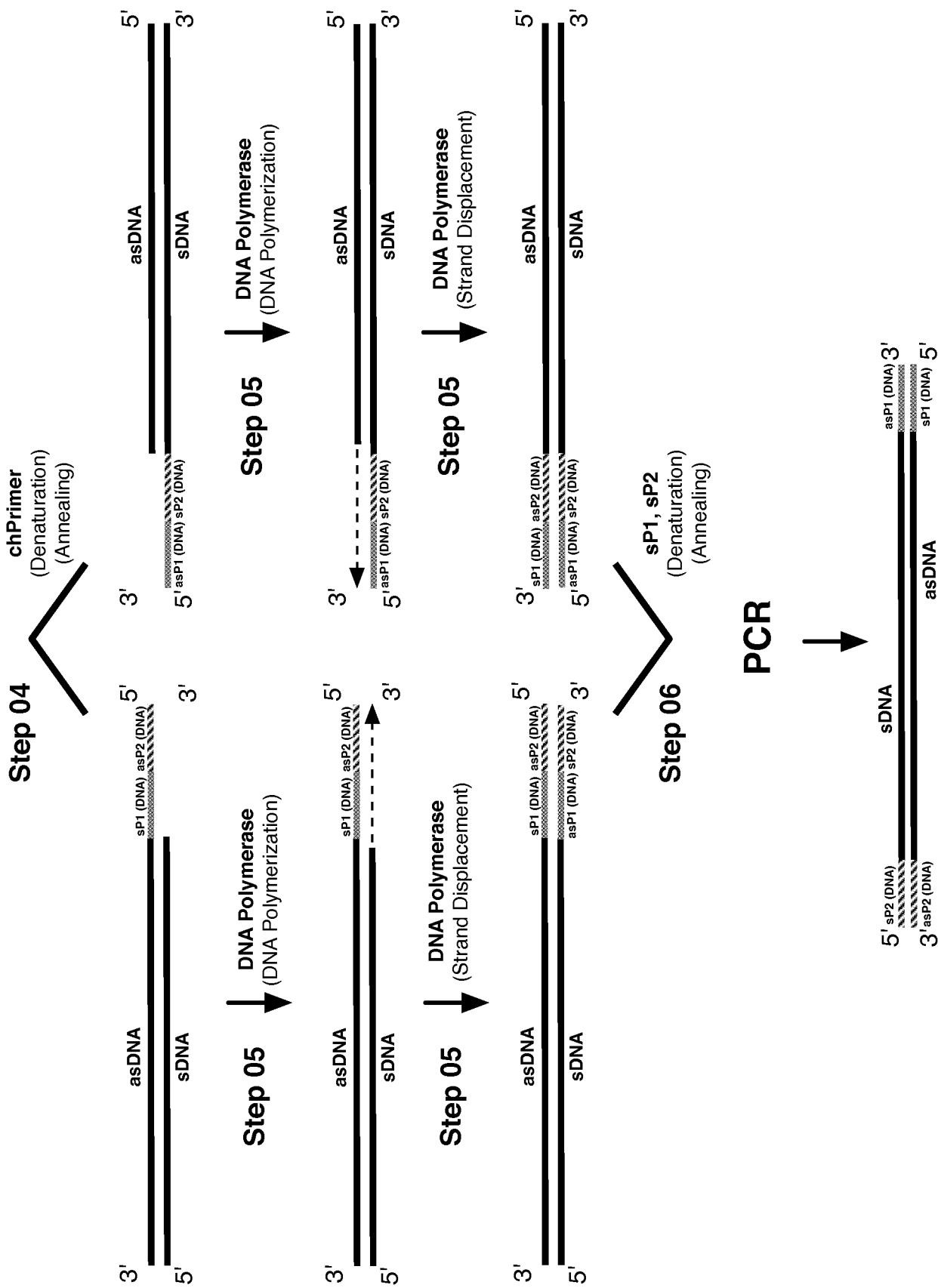
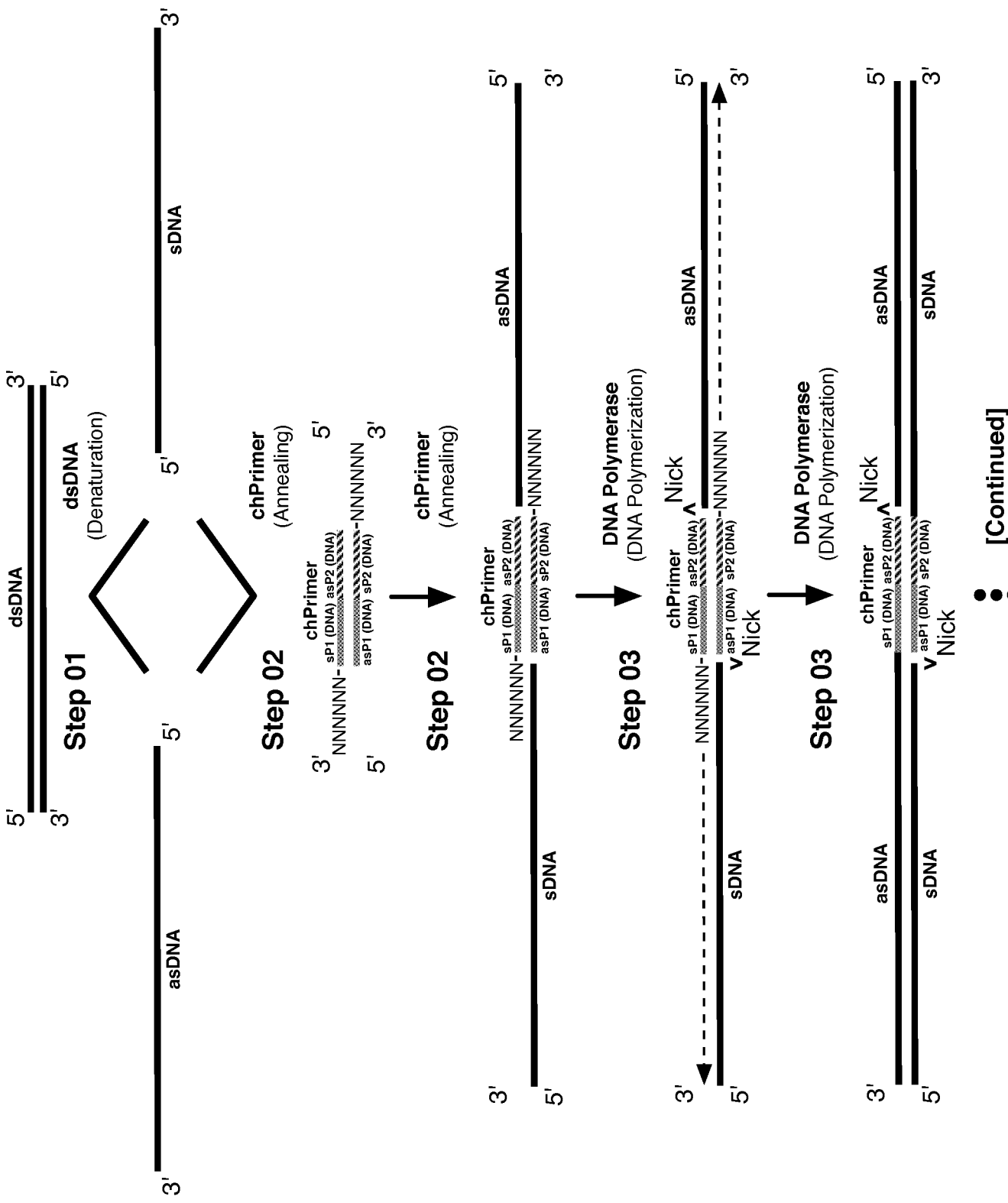


Fig. 31B

Fig. 32A



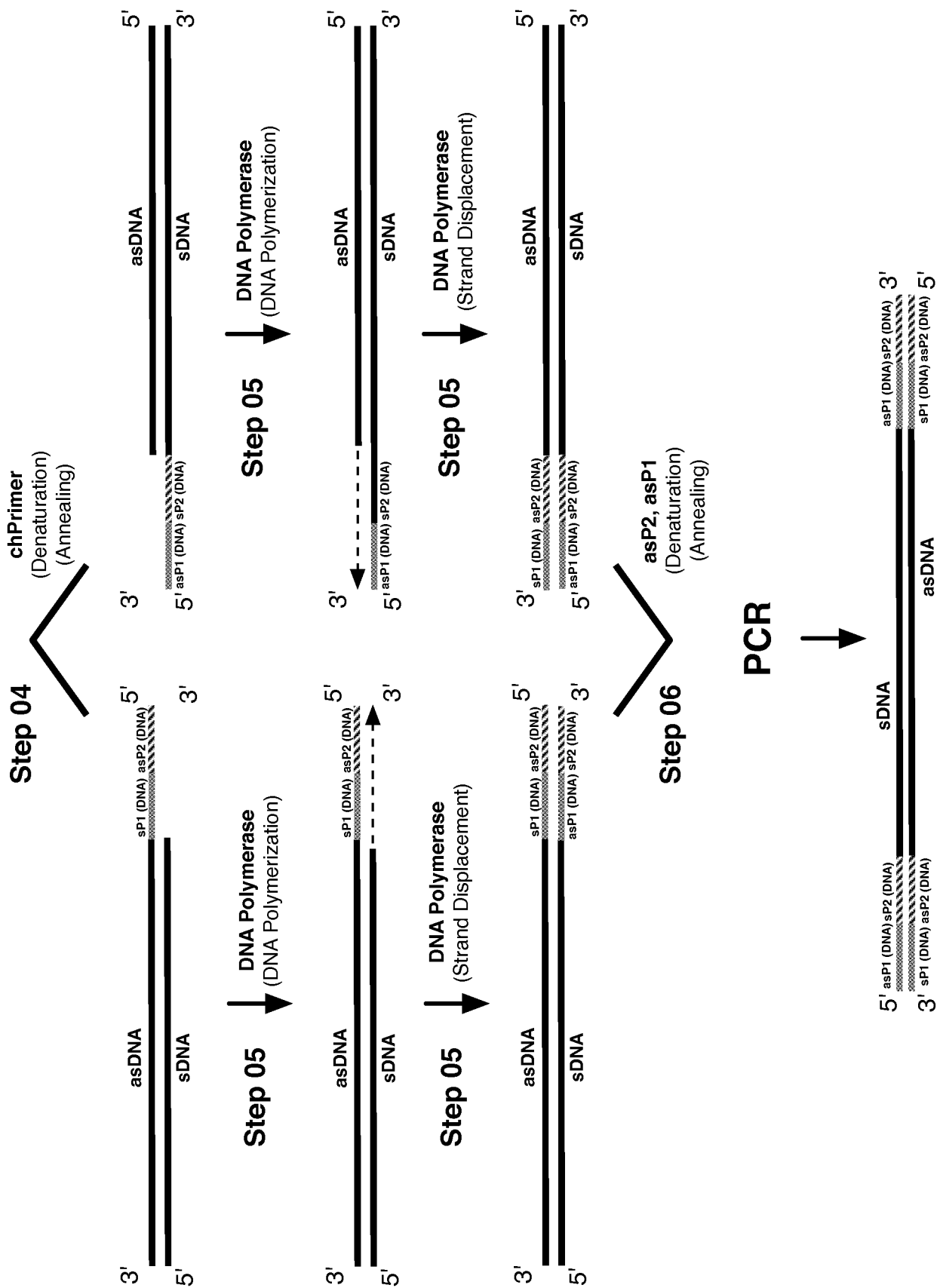


Fig. 32B

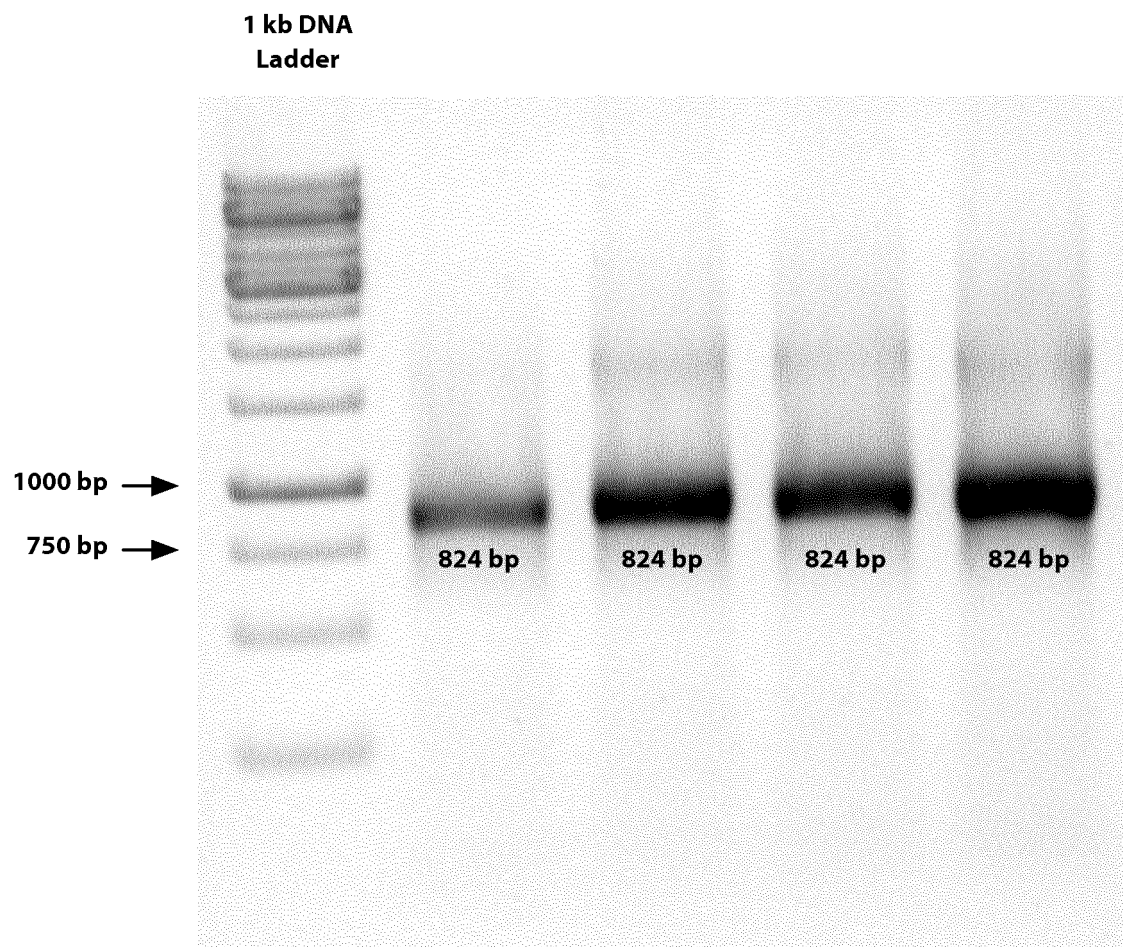


Fig. 33

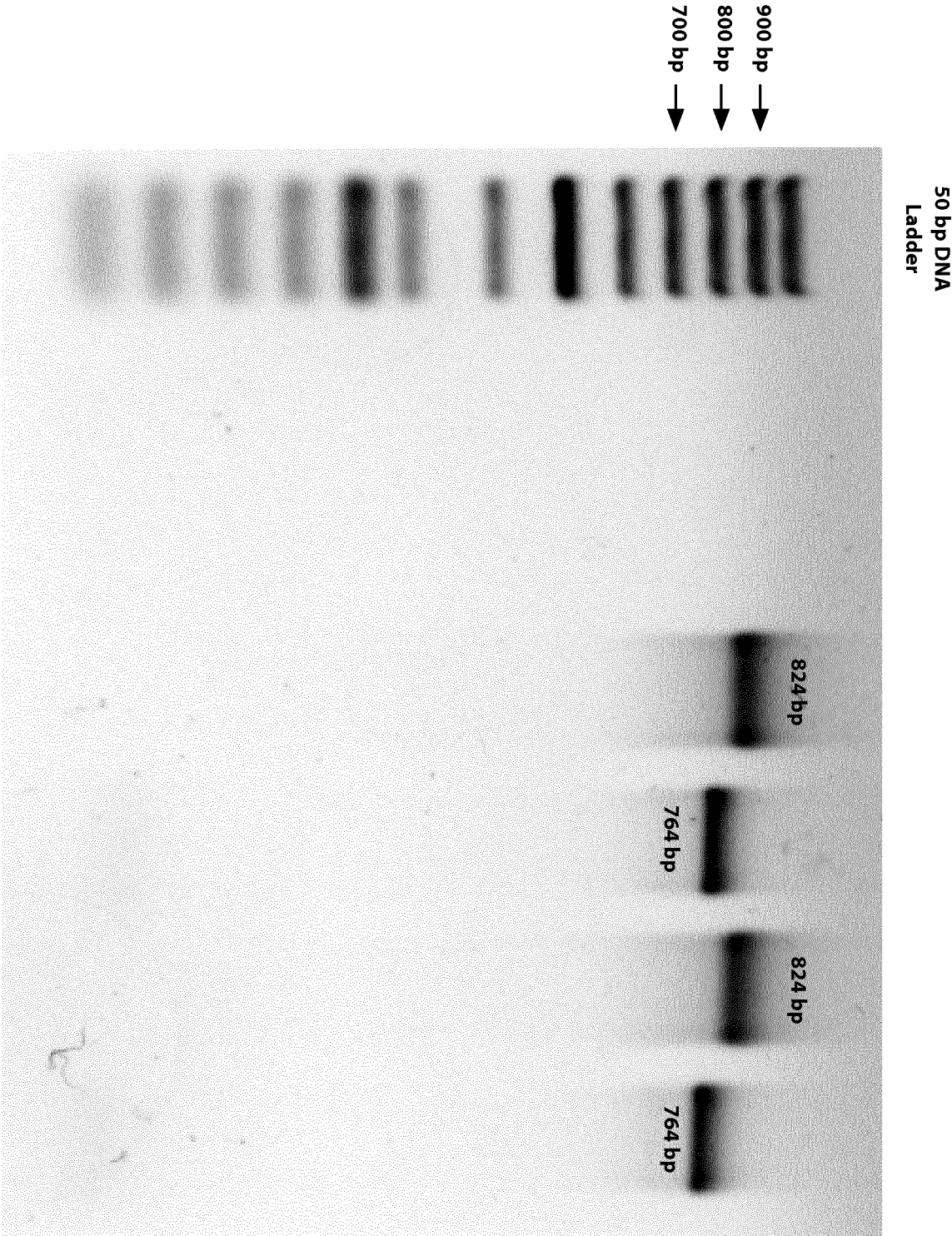


Fig. 34

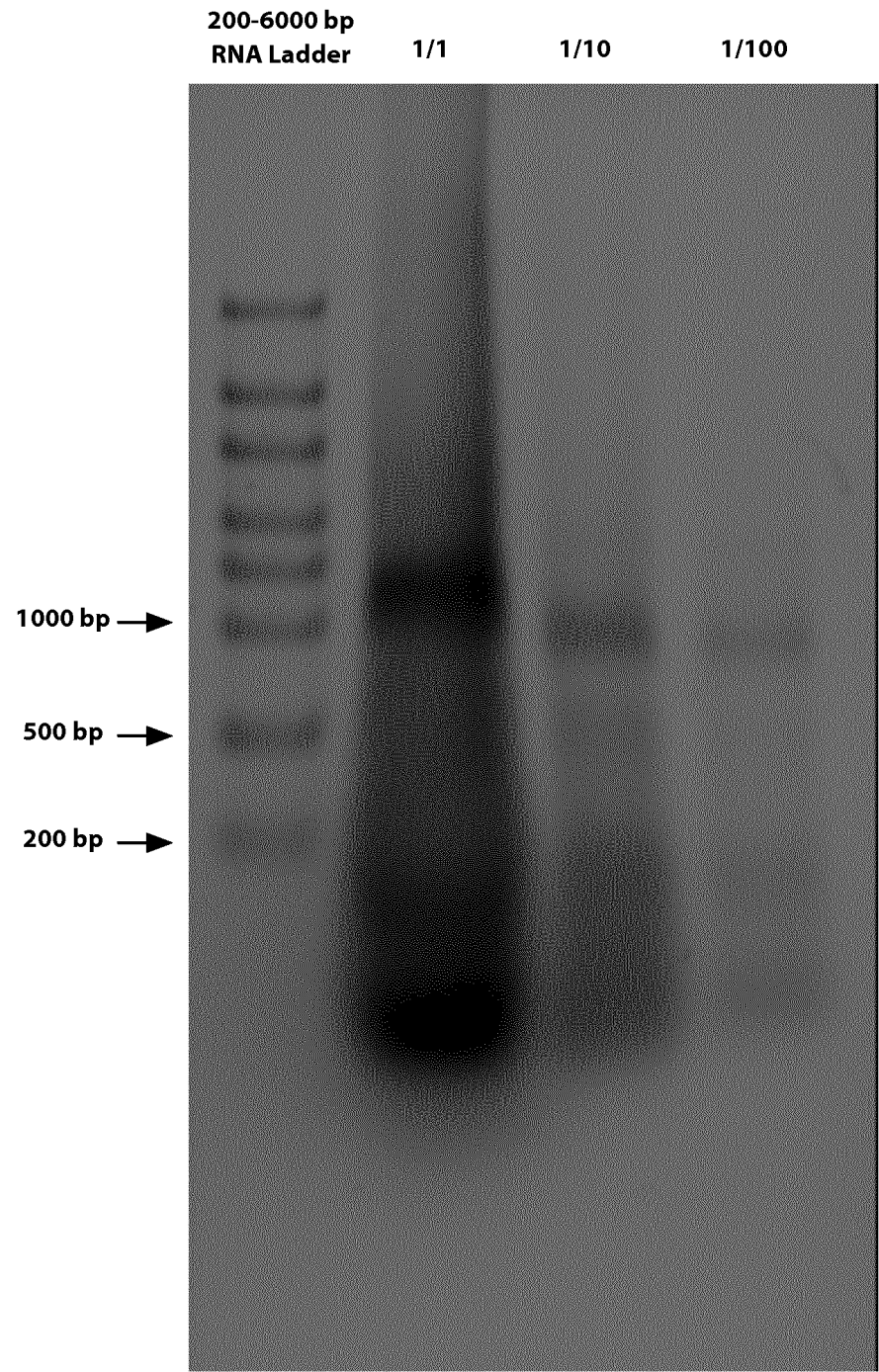


Fig. 35

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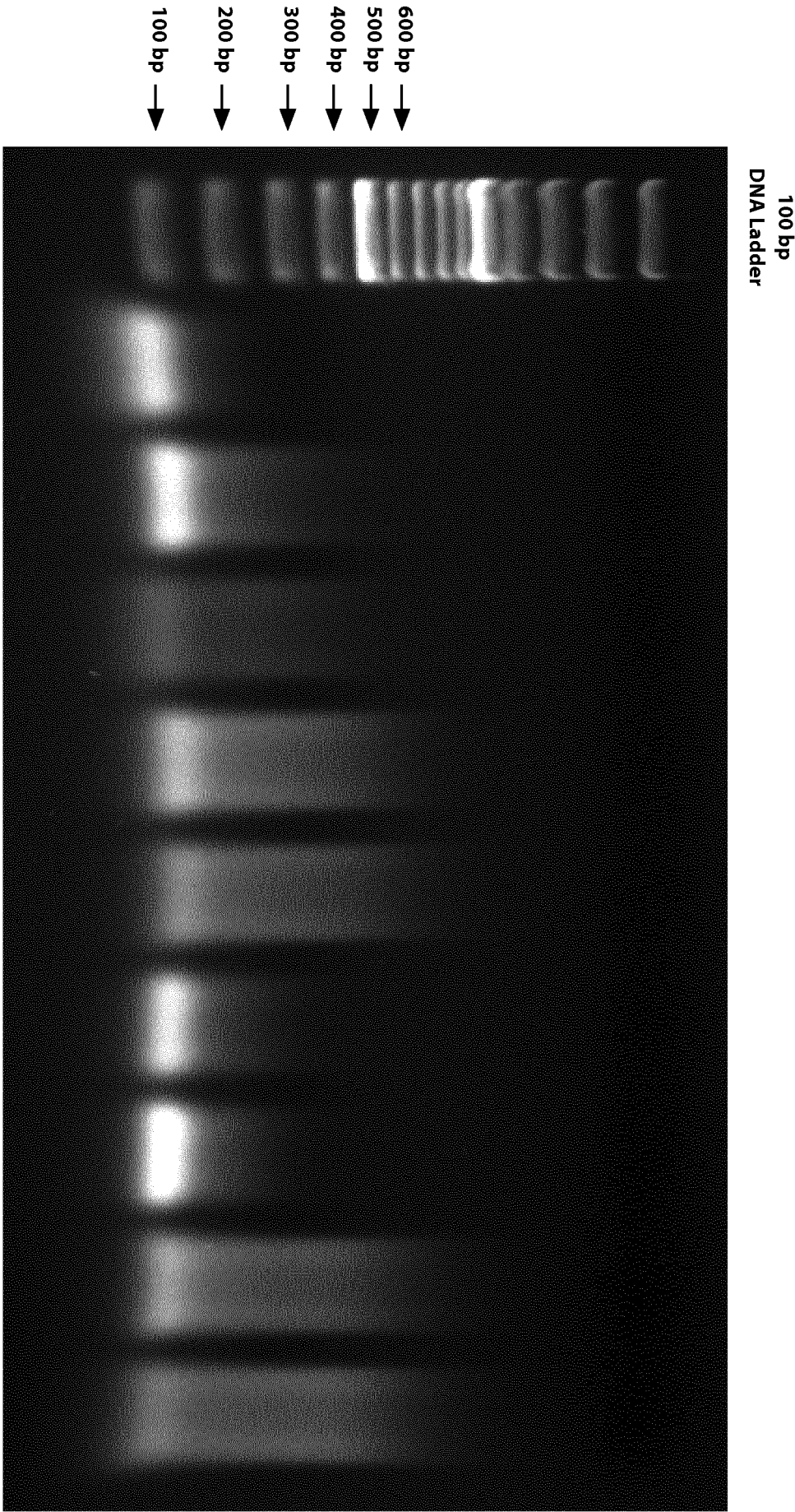


Fig. 36

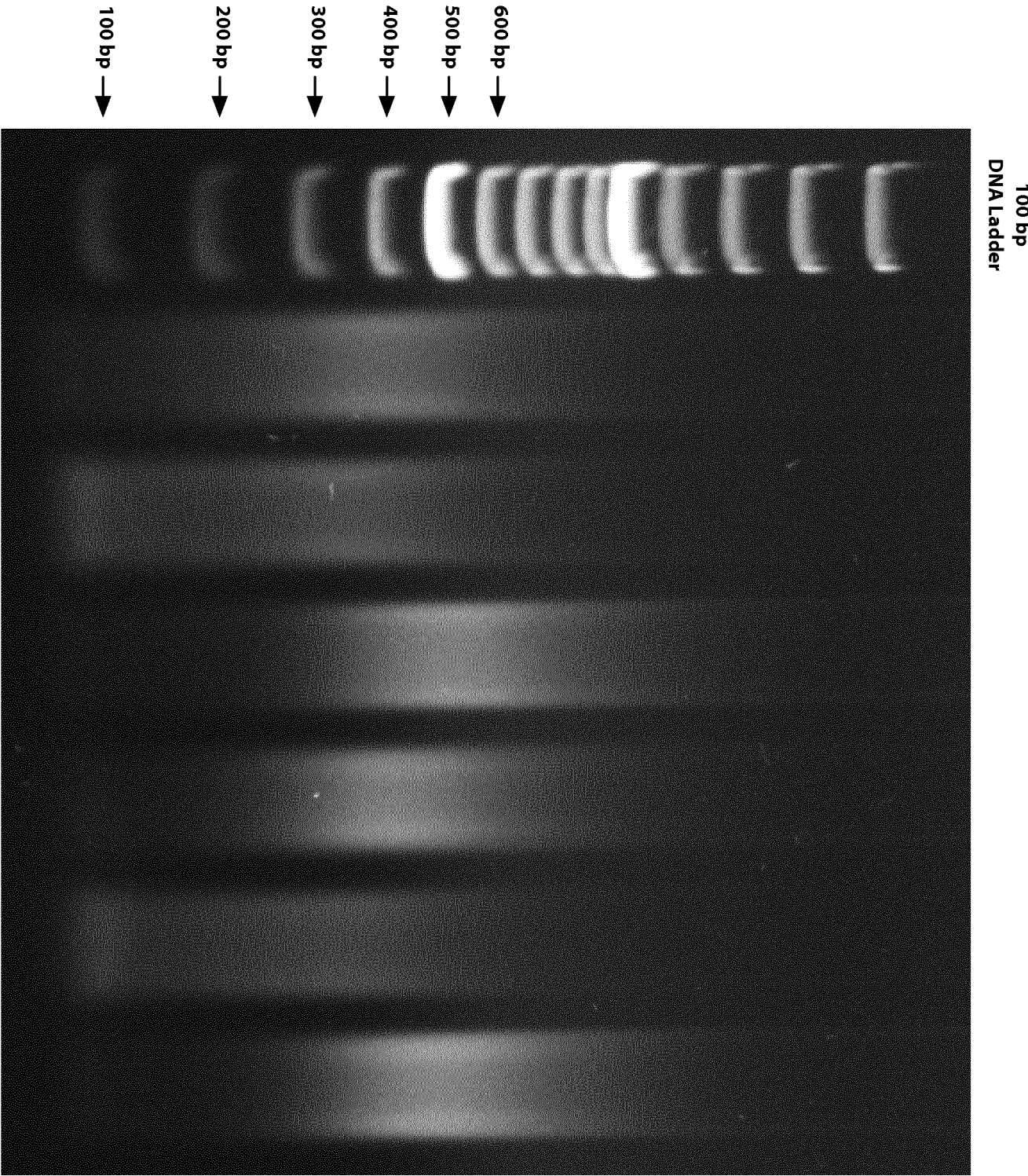


Fig. 37

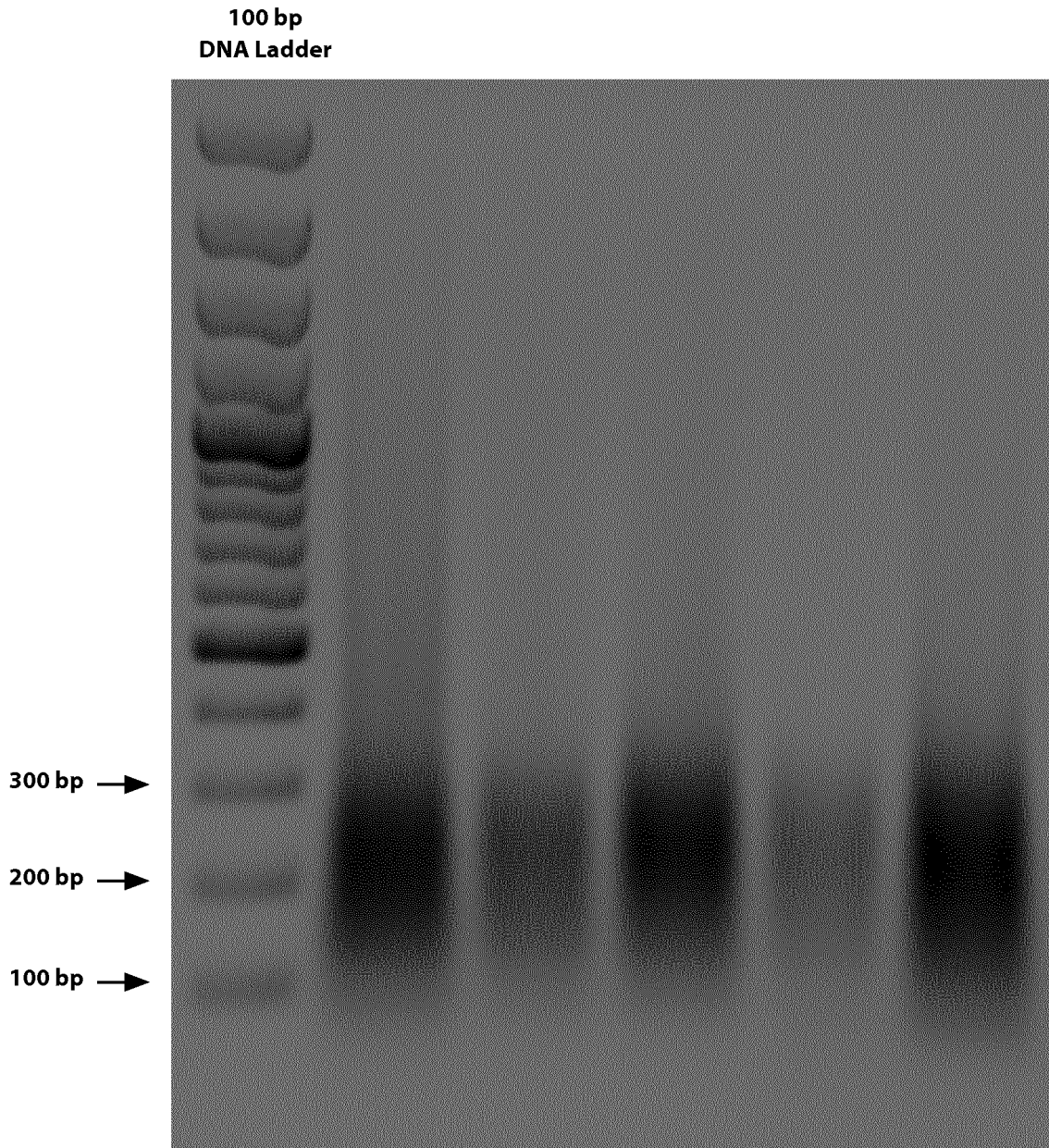


Fig. 38

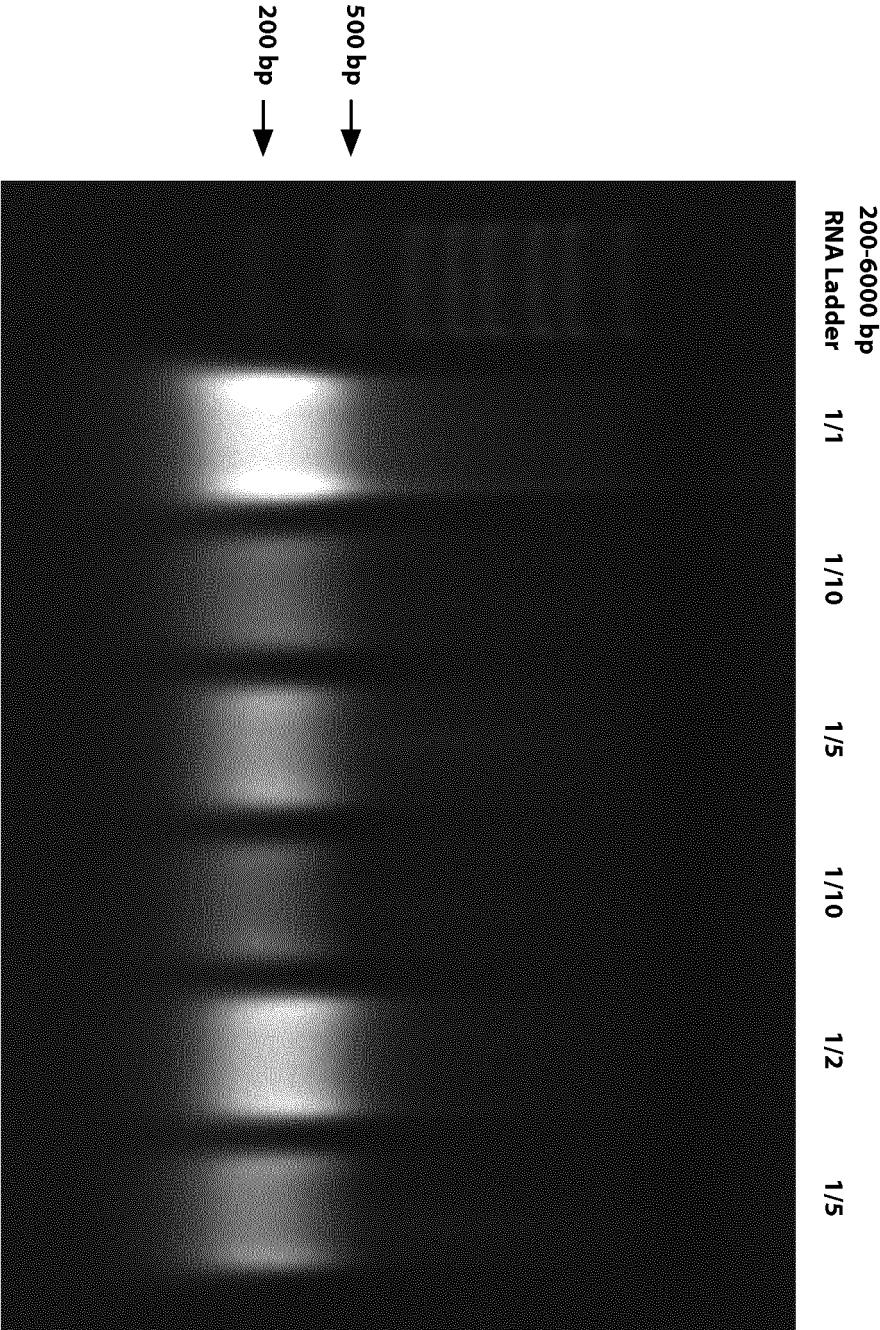


Fig. 39

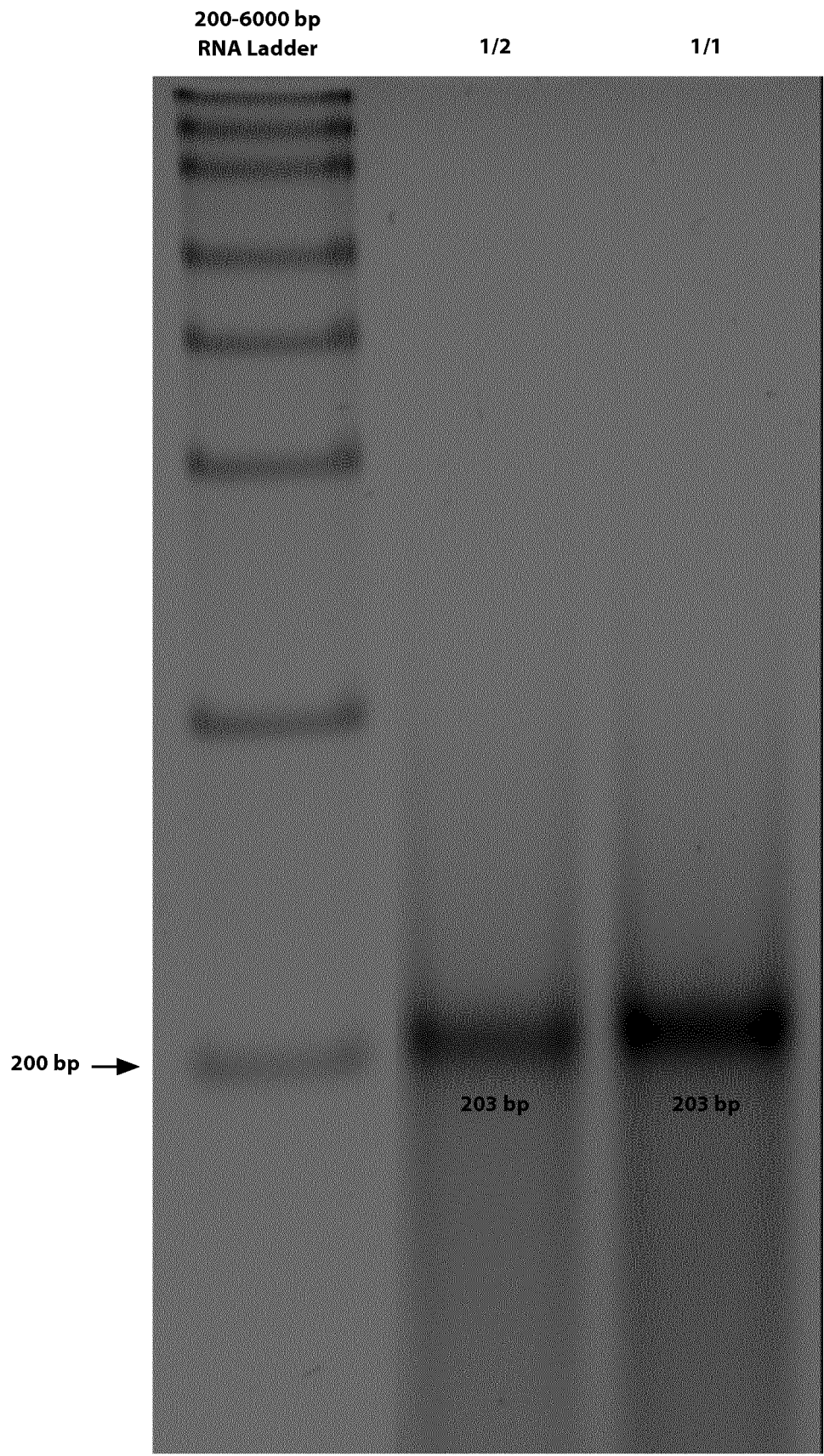


Fig. 40

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

Fig. 41

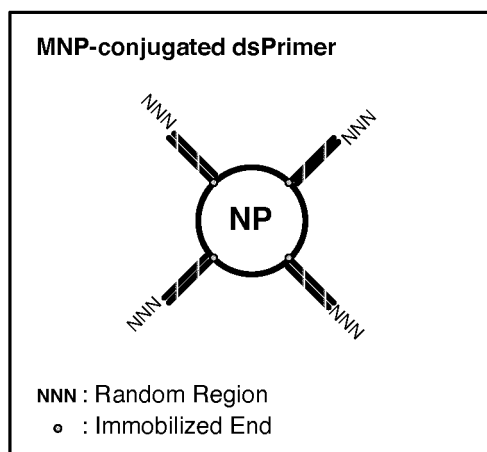
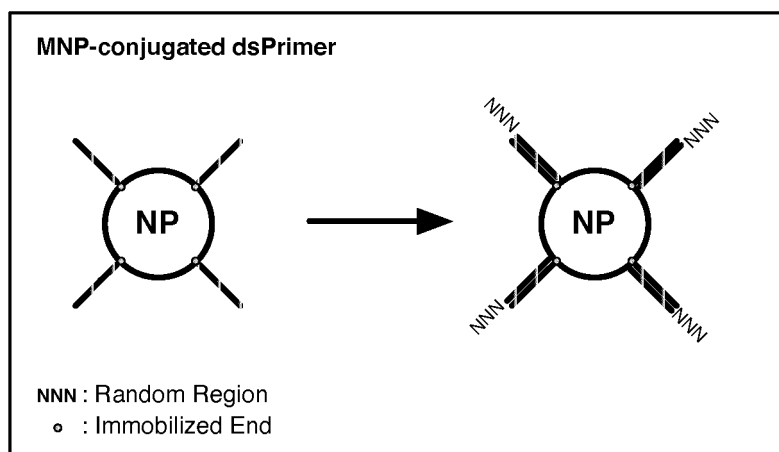
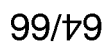
A. Magnetic Nanoparticle-conjugated dsPrimer Structure**B. Magnetic Nanoparticle-conjugated dsPrimer Formation via Hybridization**

Fig. 42





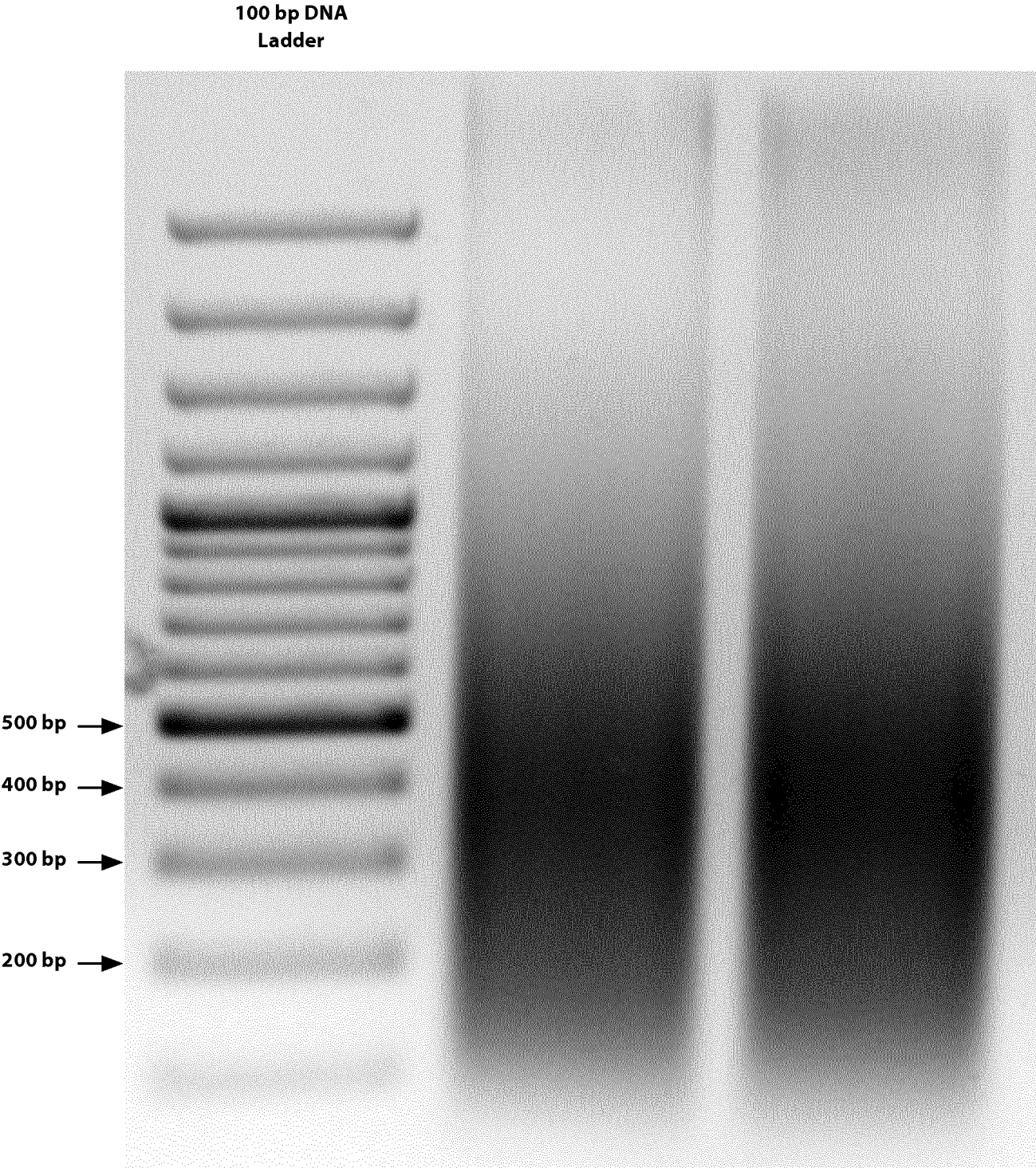


Fig. 45

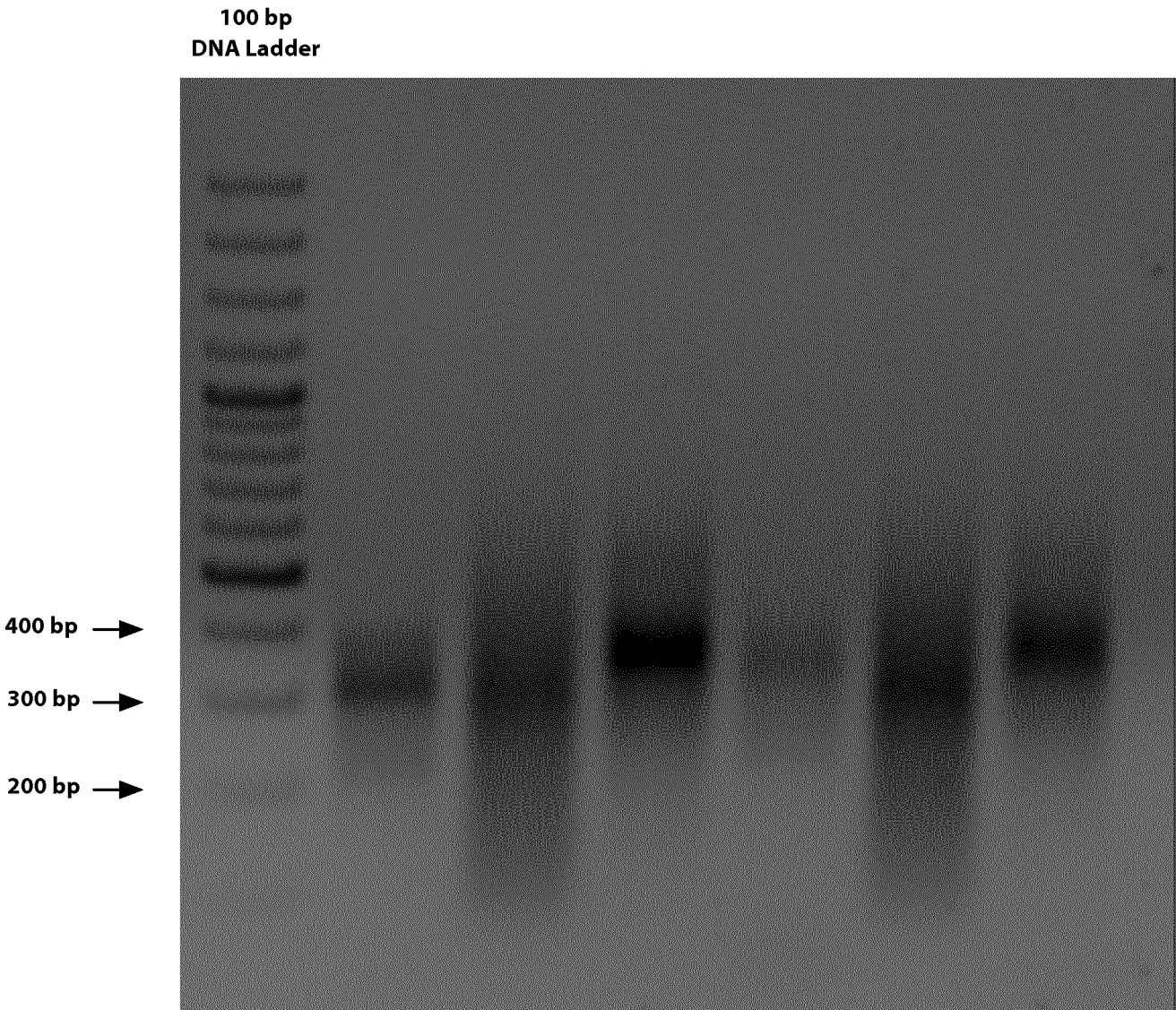


Fig. 46