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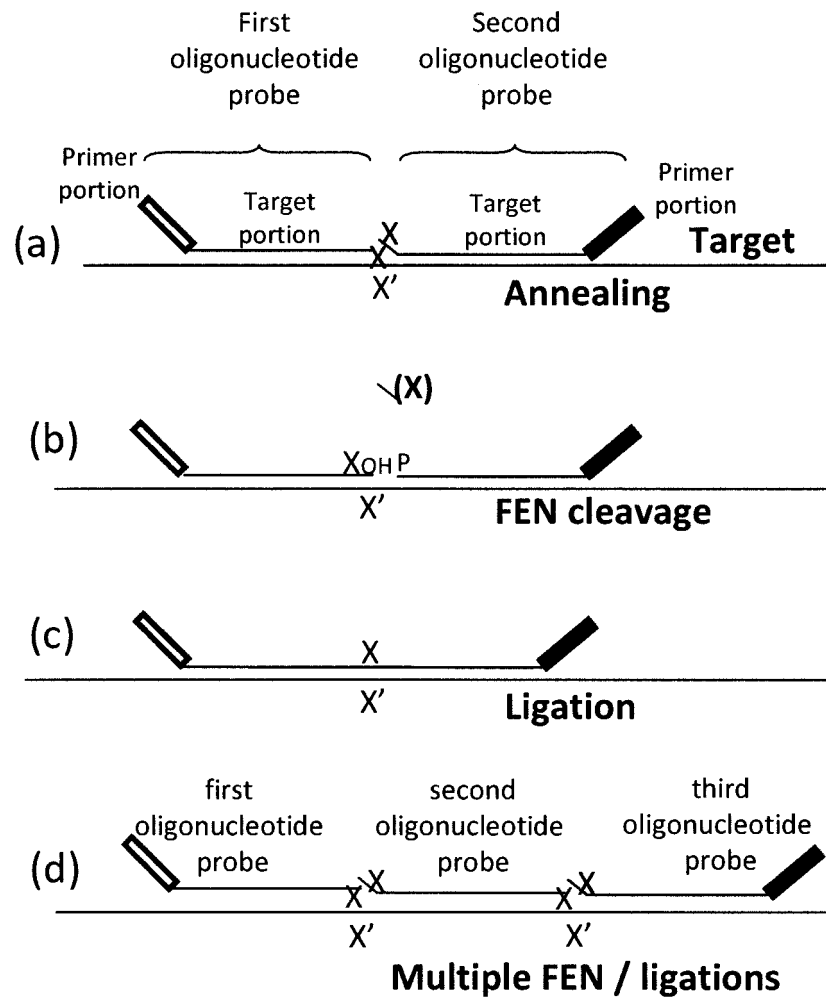


Figure 1

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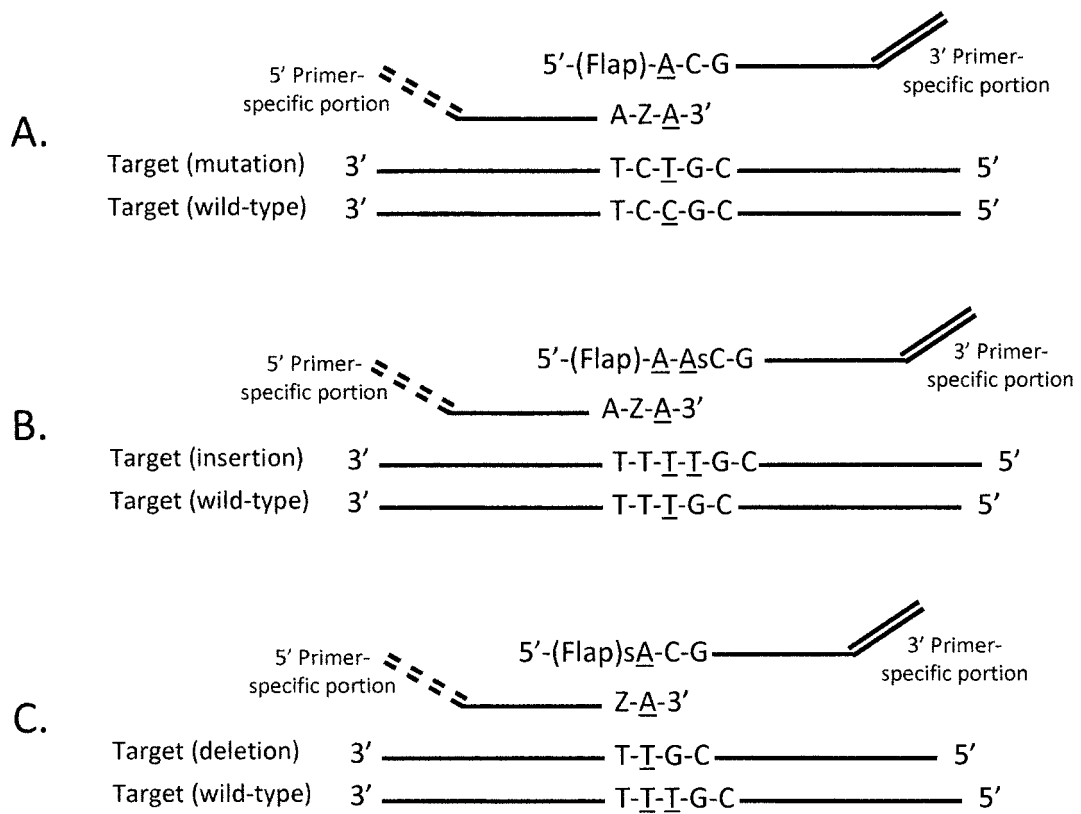
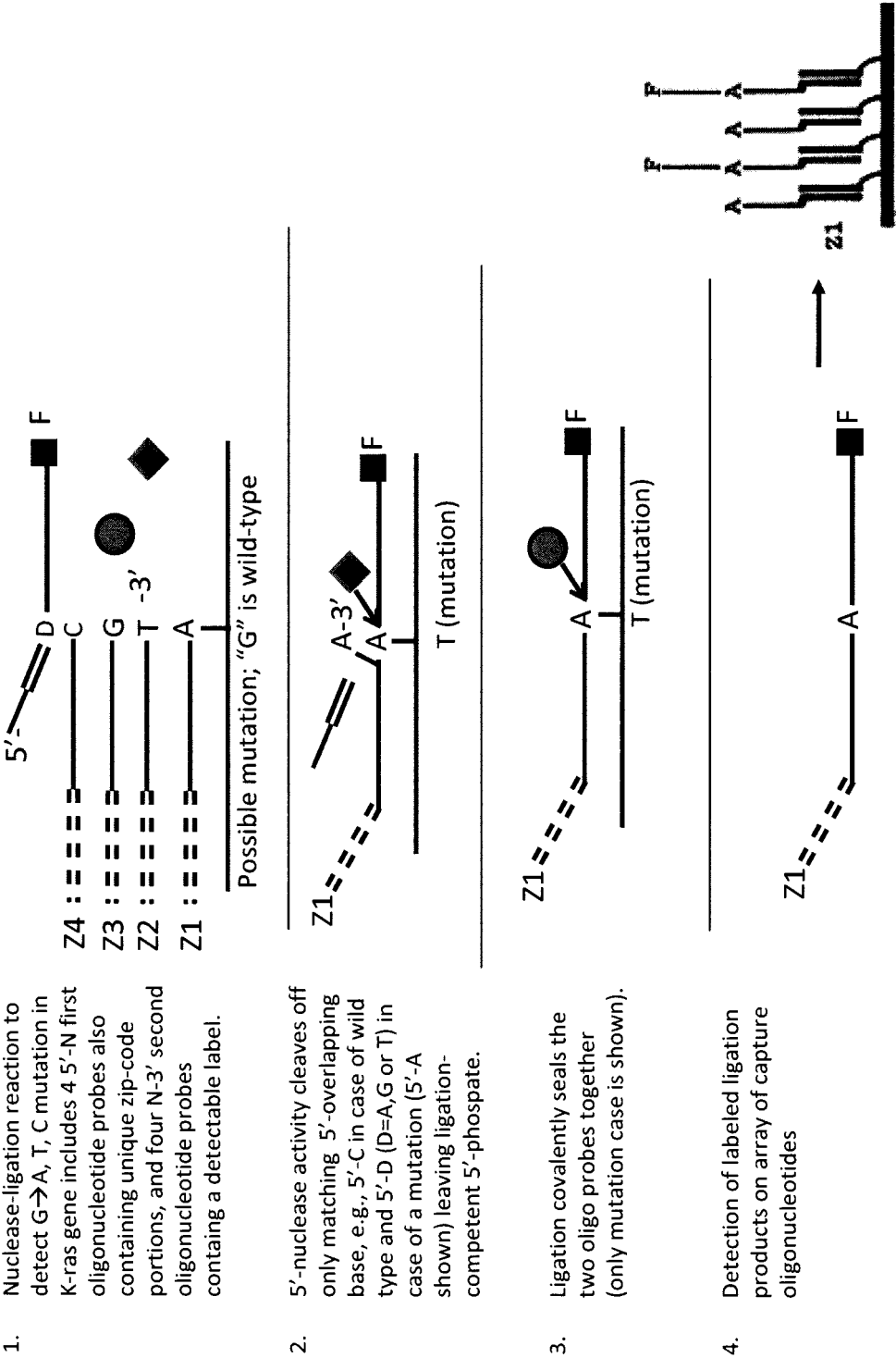
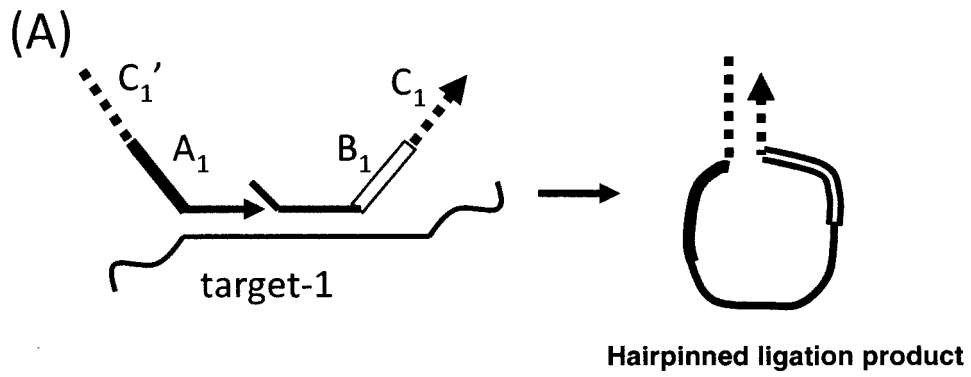
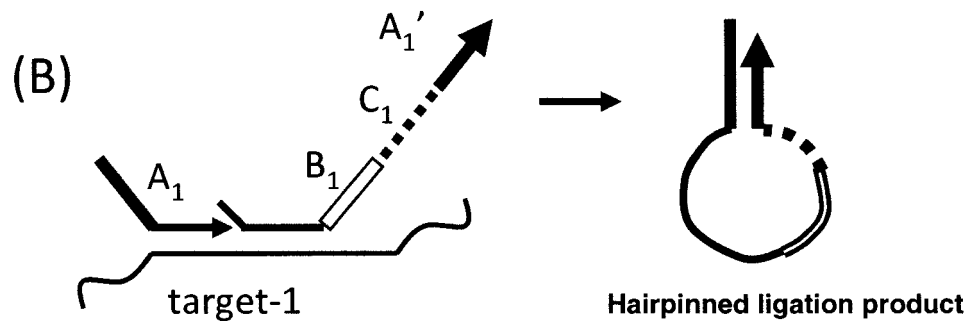


Figure 2



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Figures 4A-4B

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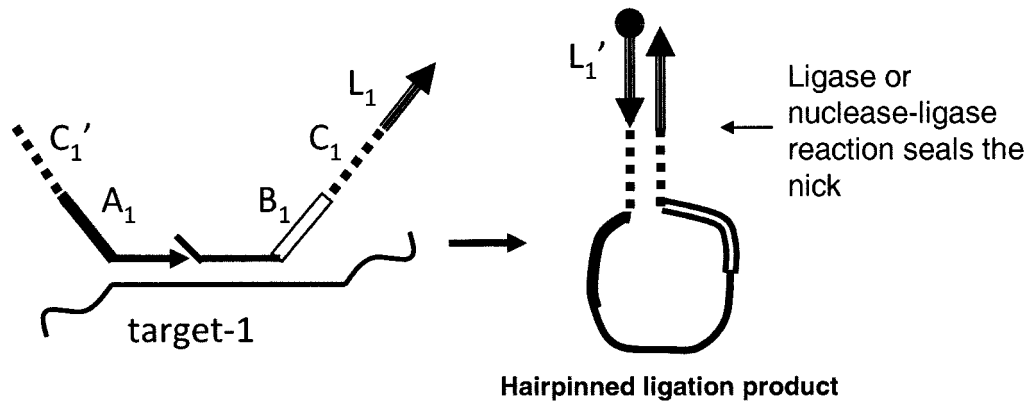


Figure 4C

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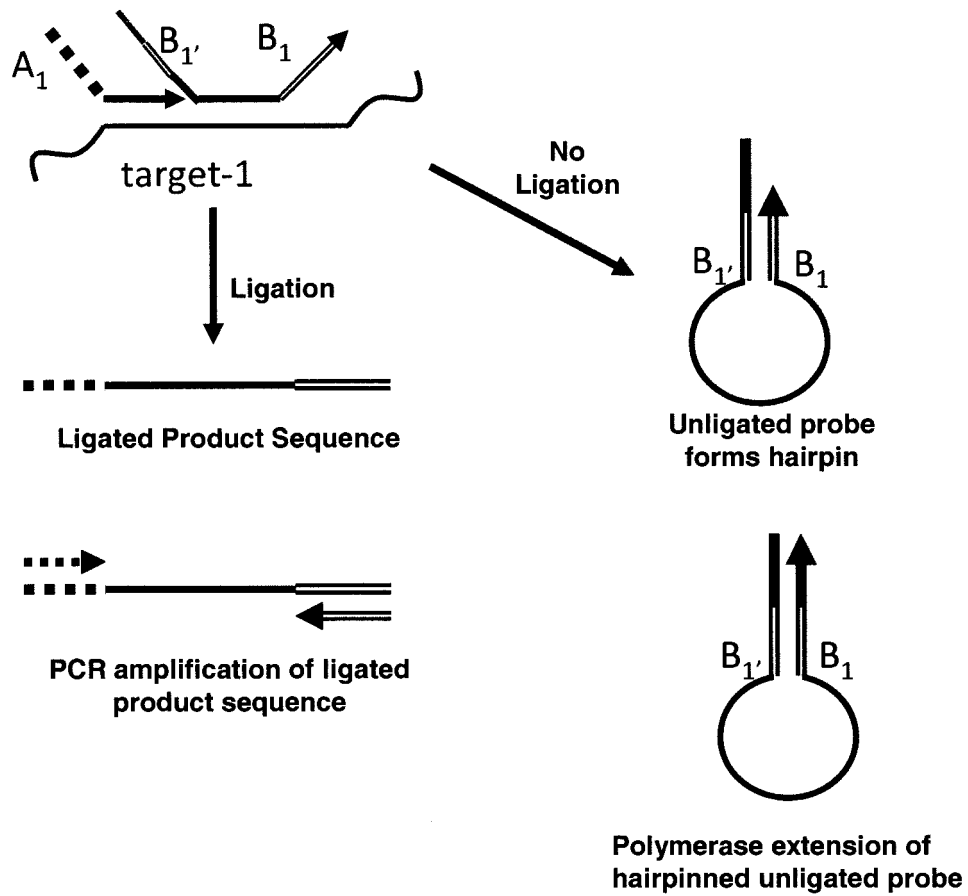
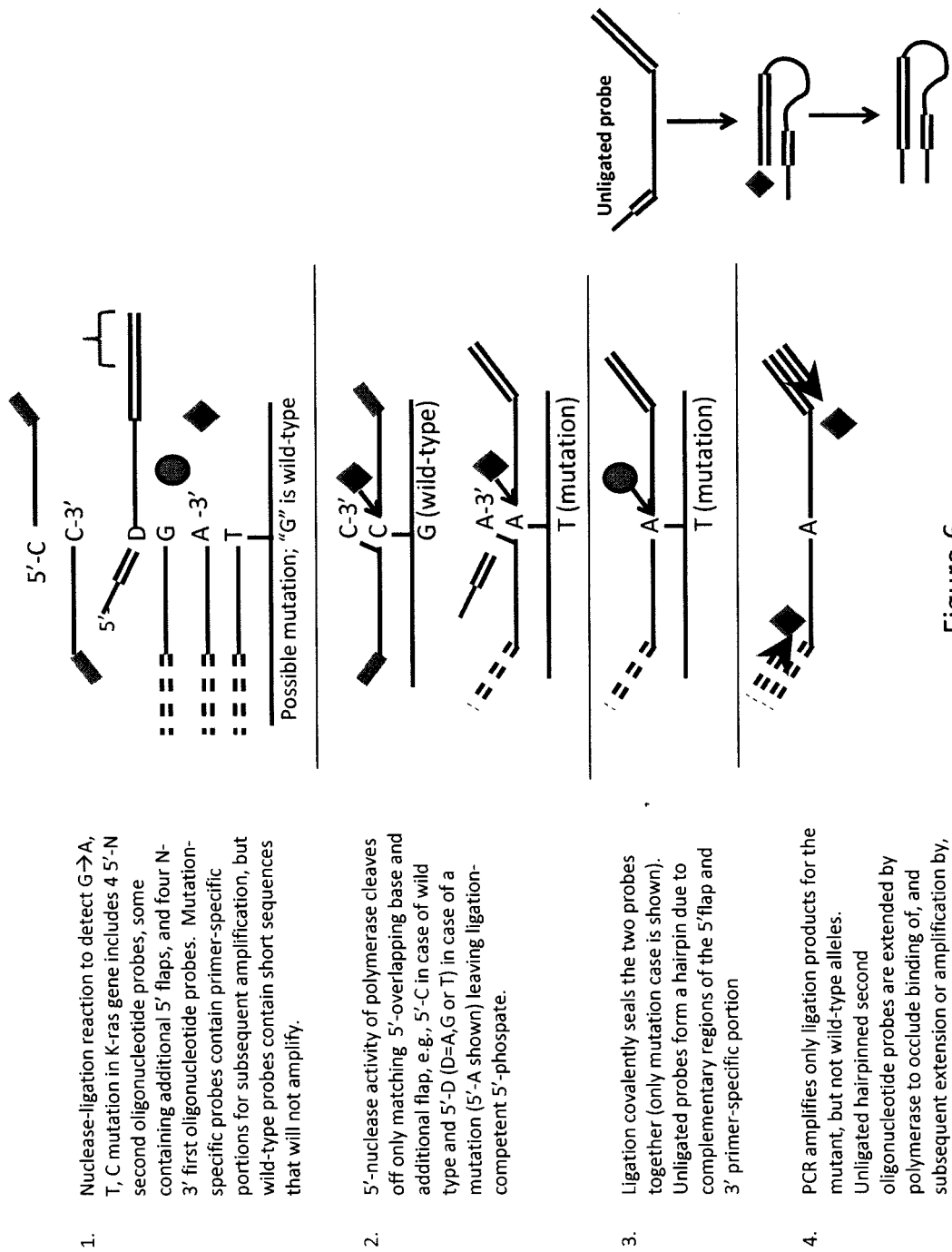


Figure 5



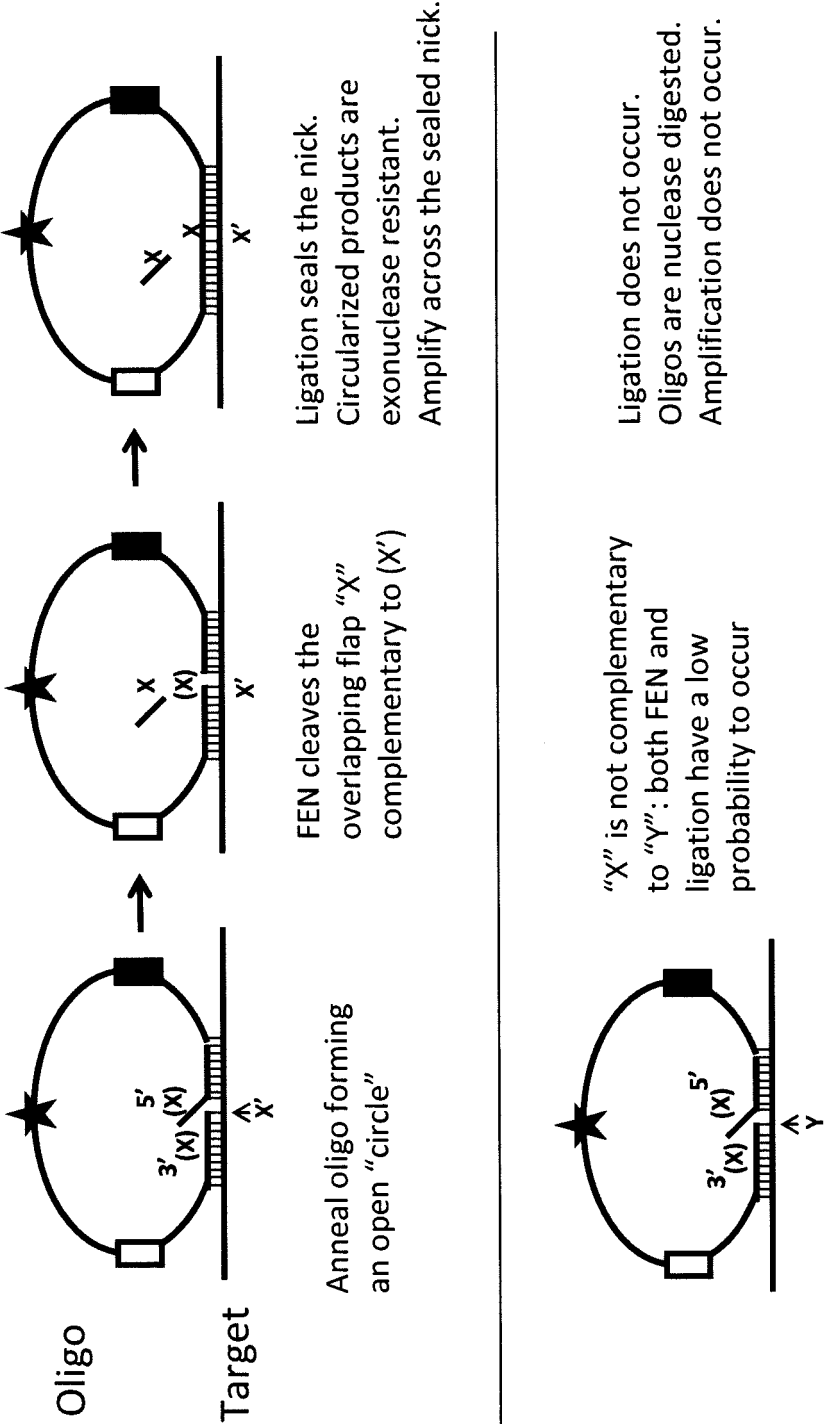


Figure 7

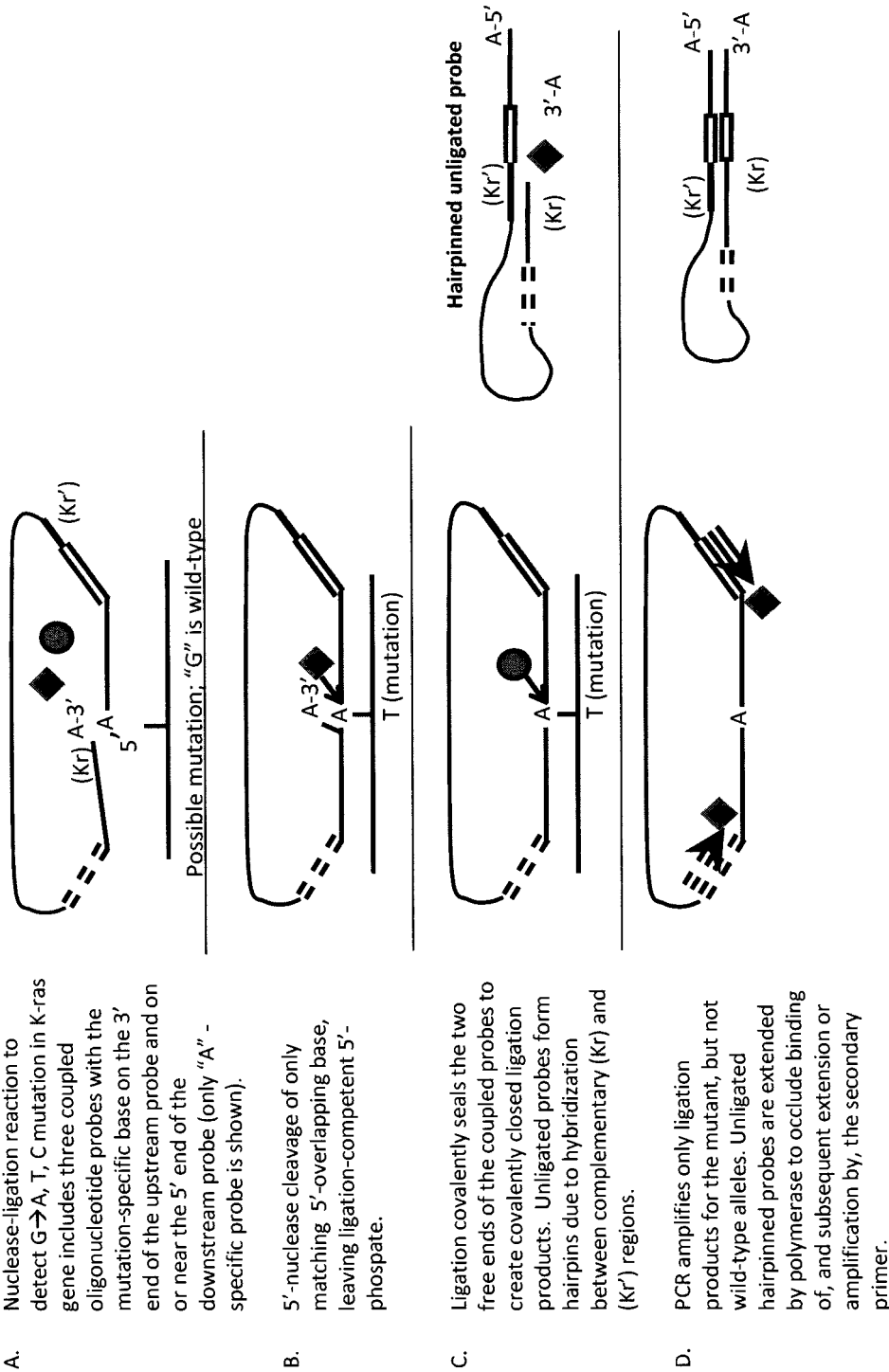
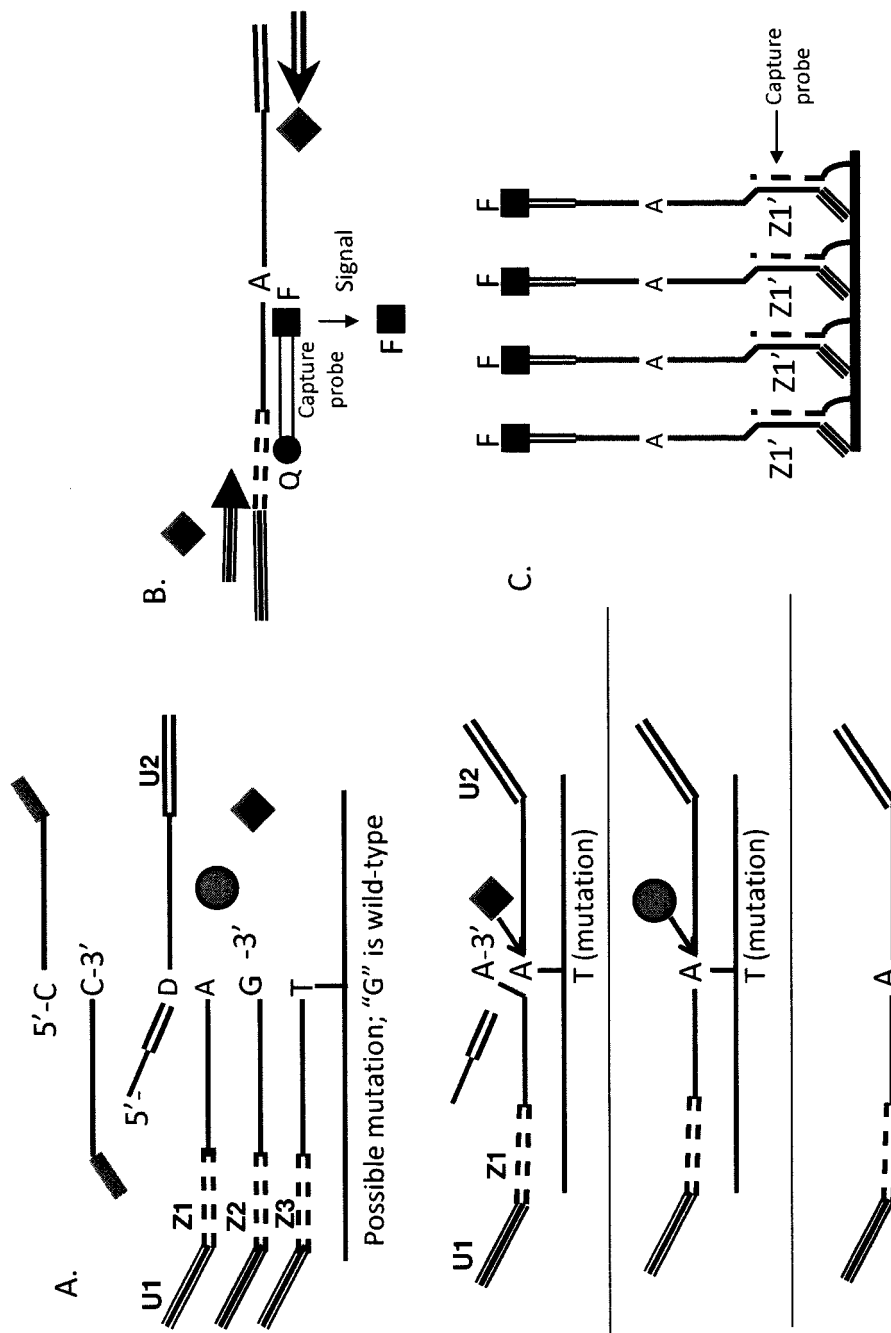


Figure 8



Figures 9A-9C

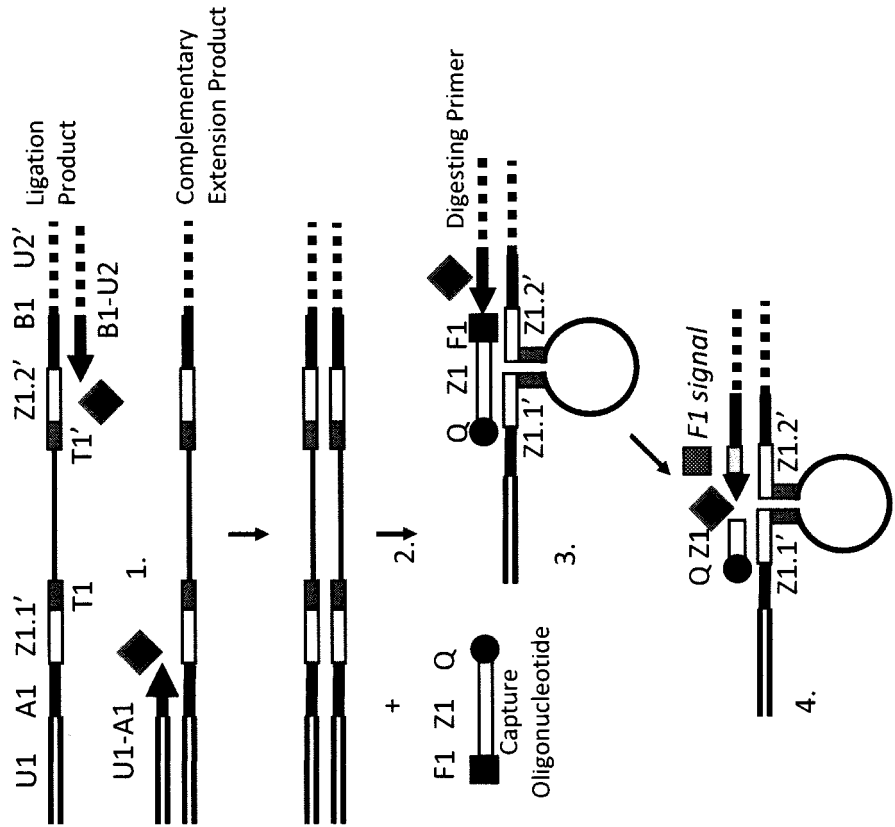


Figure 10

1. Priming on the tag-encoded ligation product and complementary extension product thereof.
2. dsDNA products of PCR.
3. Hairpin formation: after dsDNA melts and the temperature decreases hairpin forms with the stem between Z1.1' + Z1.2'.
4. Signal is generated by 5' nuclease activity of polymerase when it extends primer, the "digesting primer". As soon as polymerase has traversed Z1.2', the short stem between Z1.2' and Z1.1' falls apart and polymerase continues extending to create the dsDNA product.

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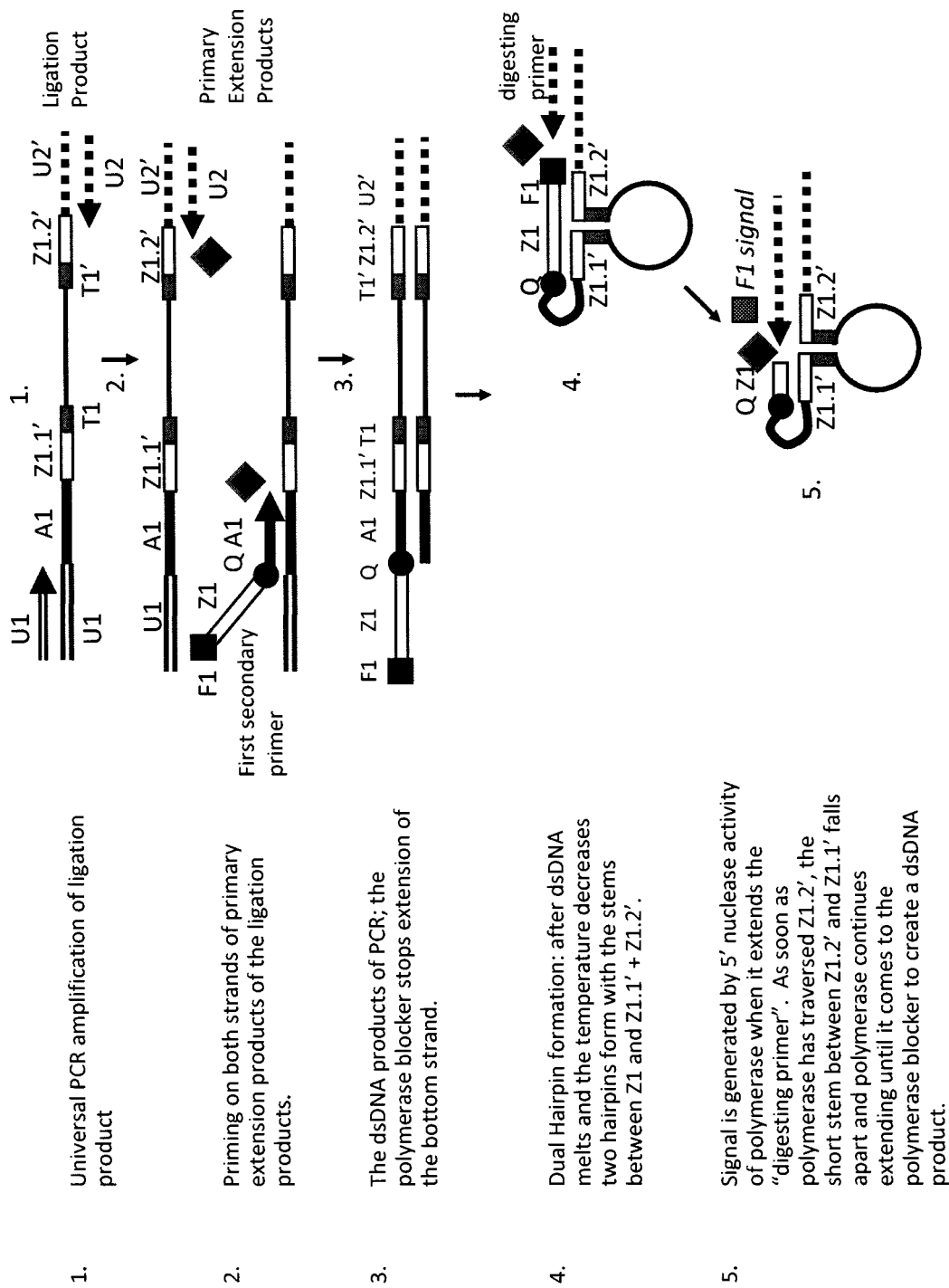
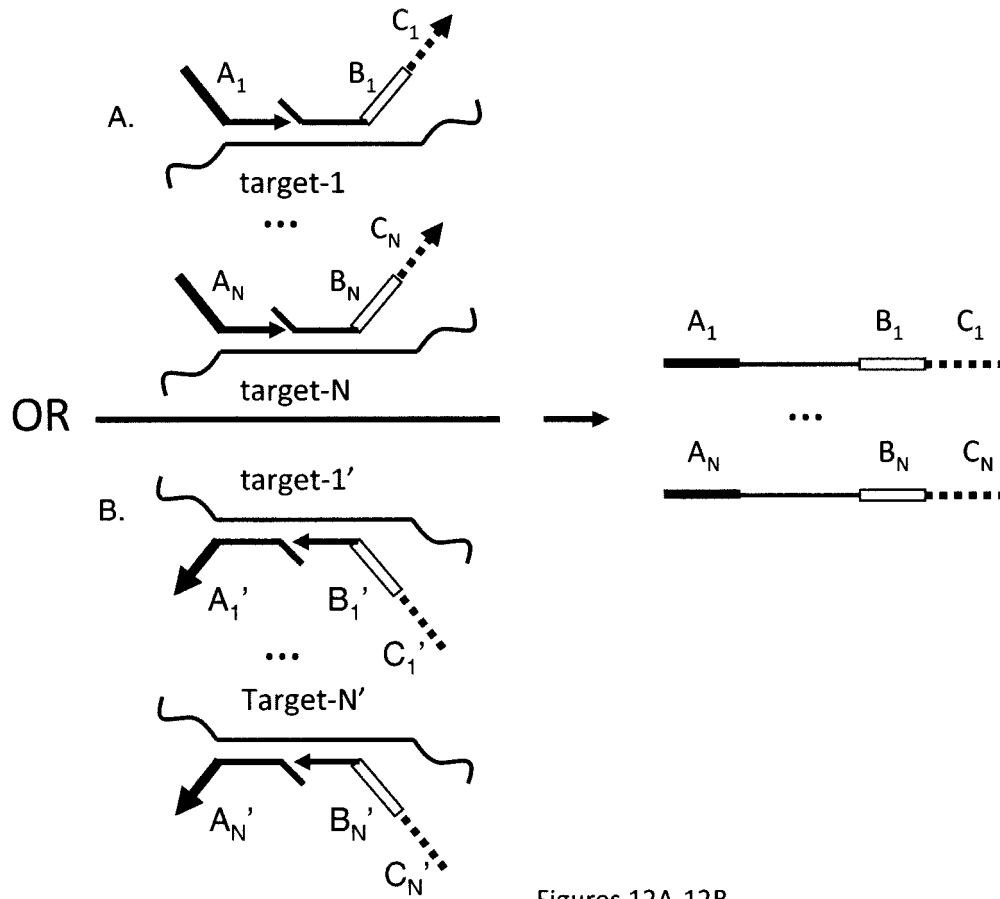


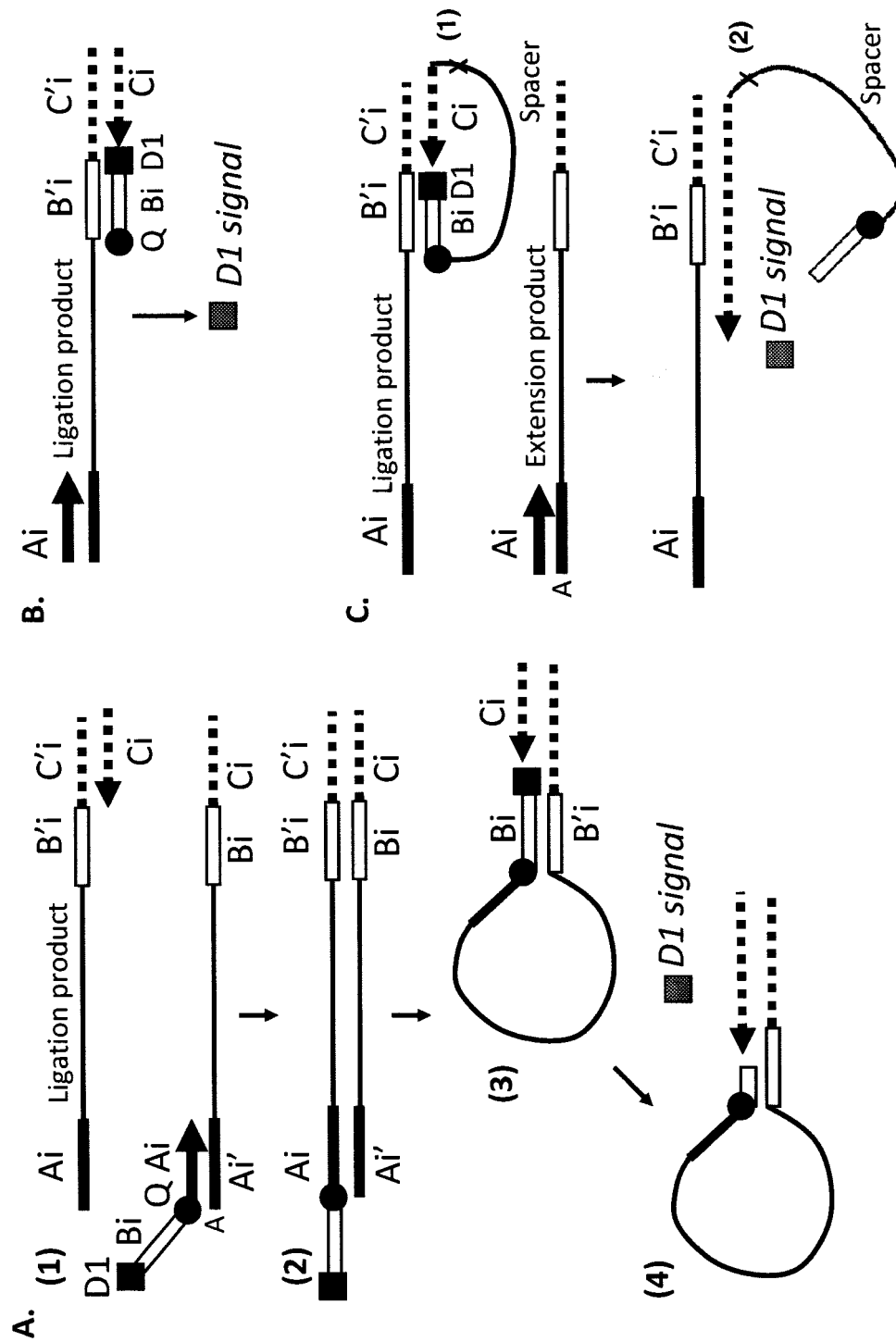
Figure 11

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Figures 12A-12B

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Figures 13A-13C

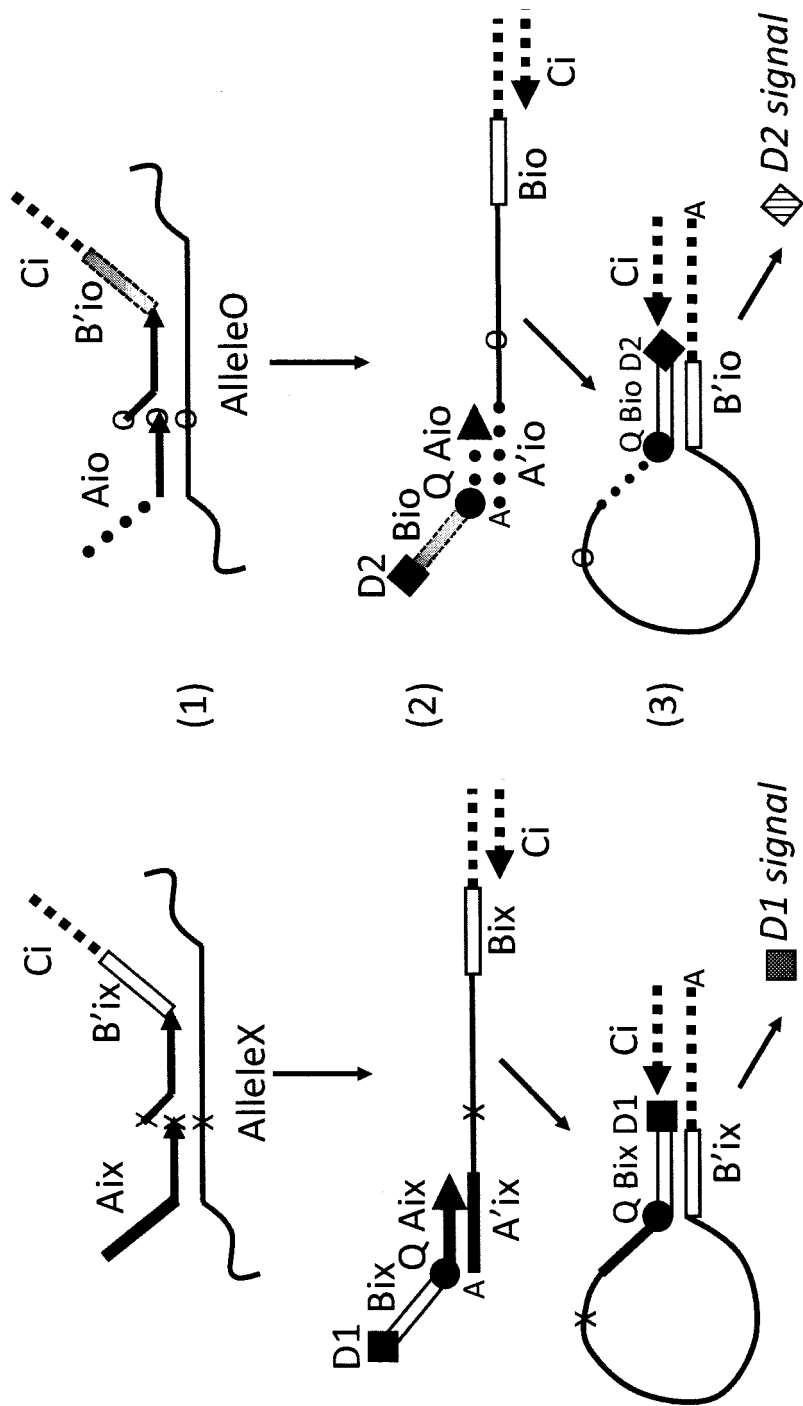


Figure 14

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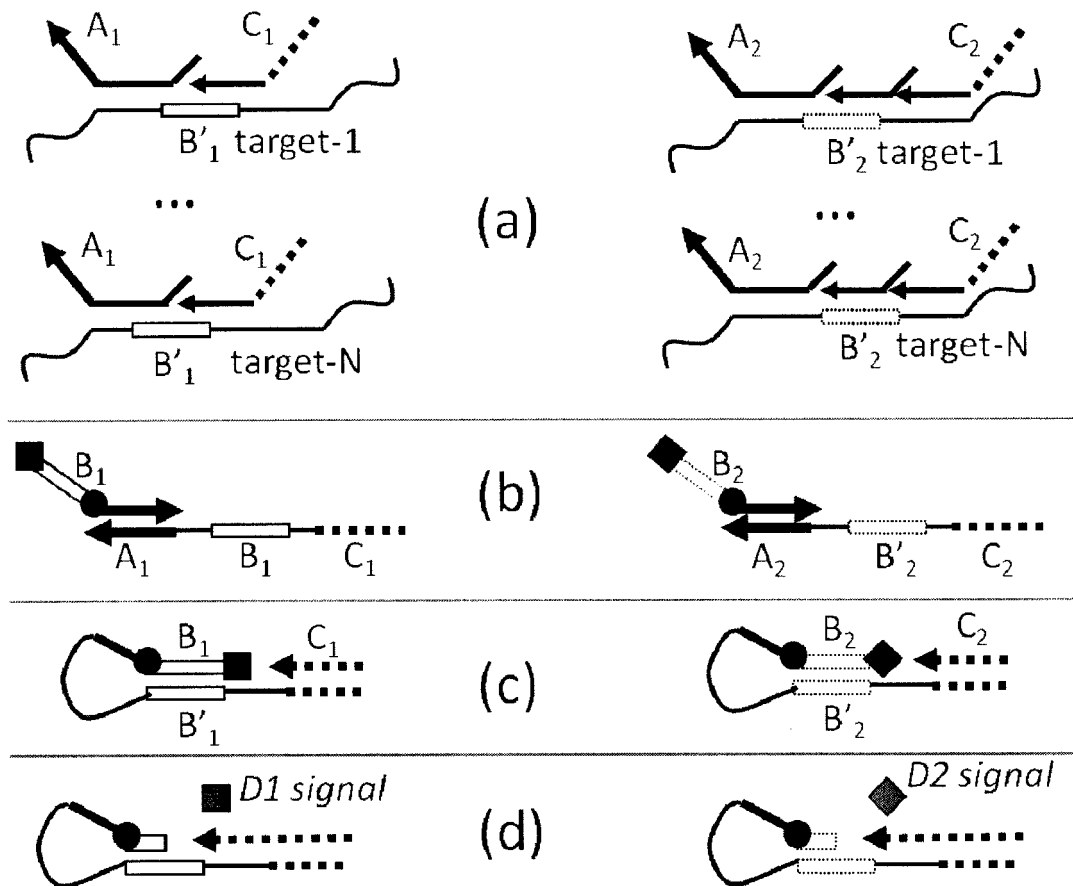


Figure 15

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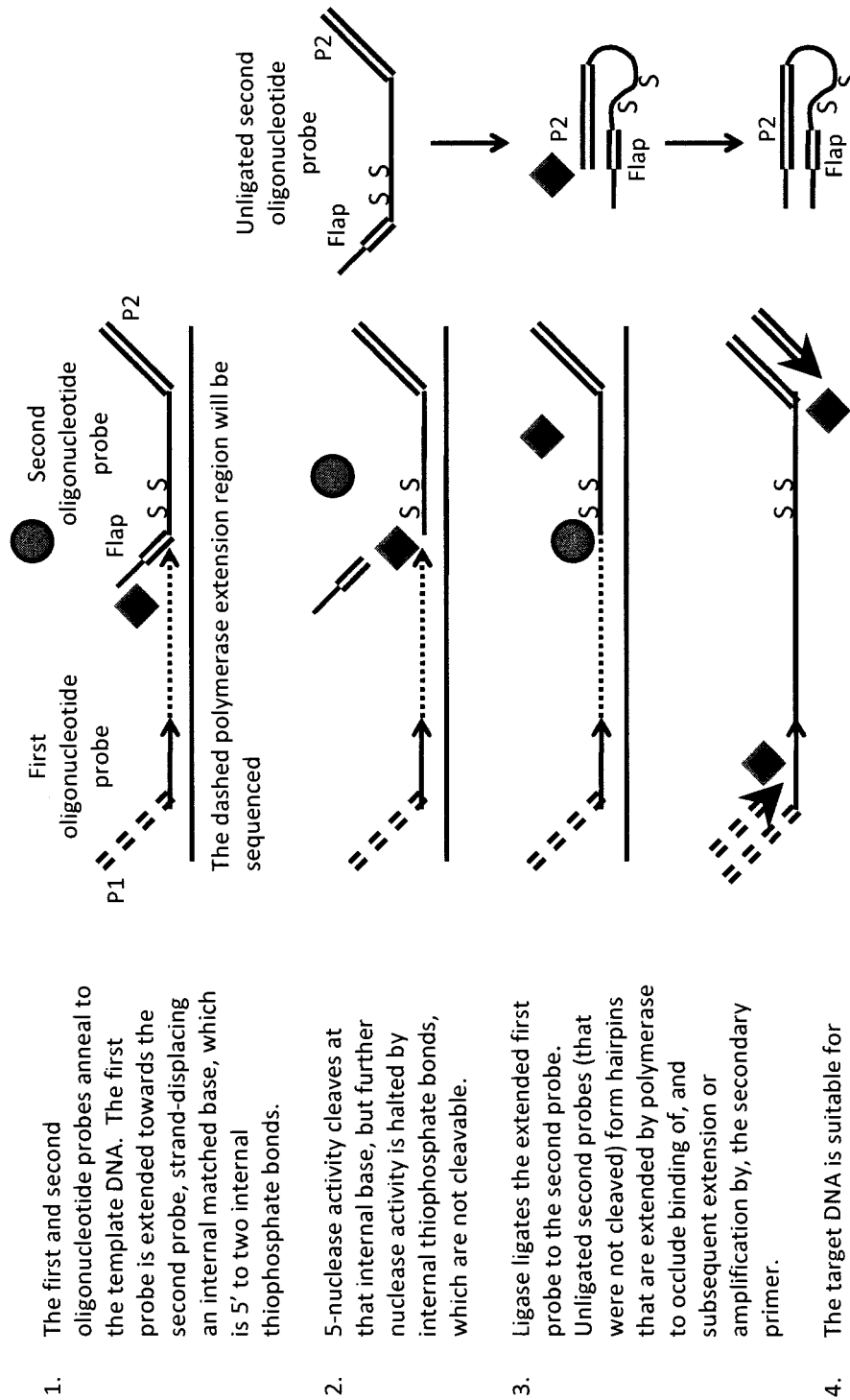


Figure 16