

1/47

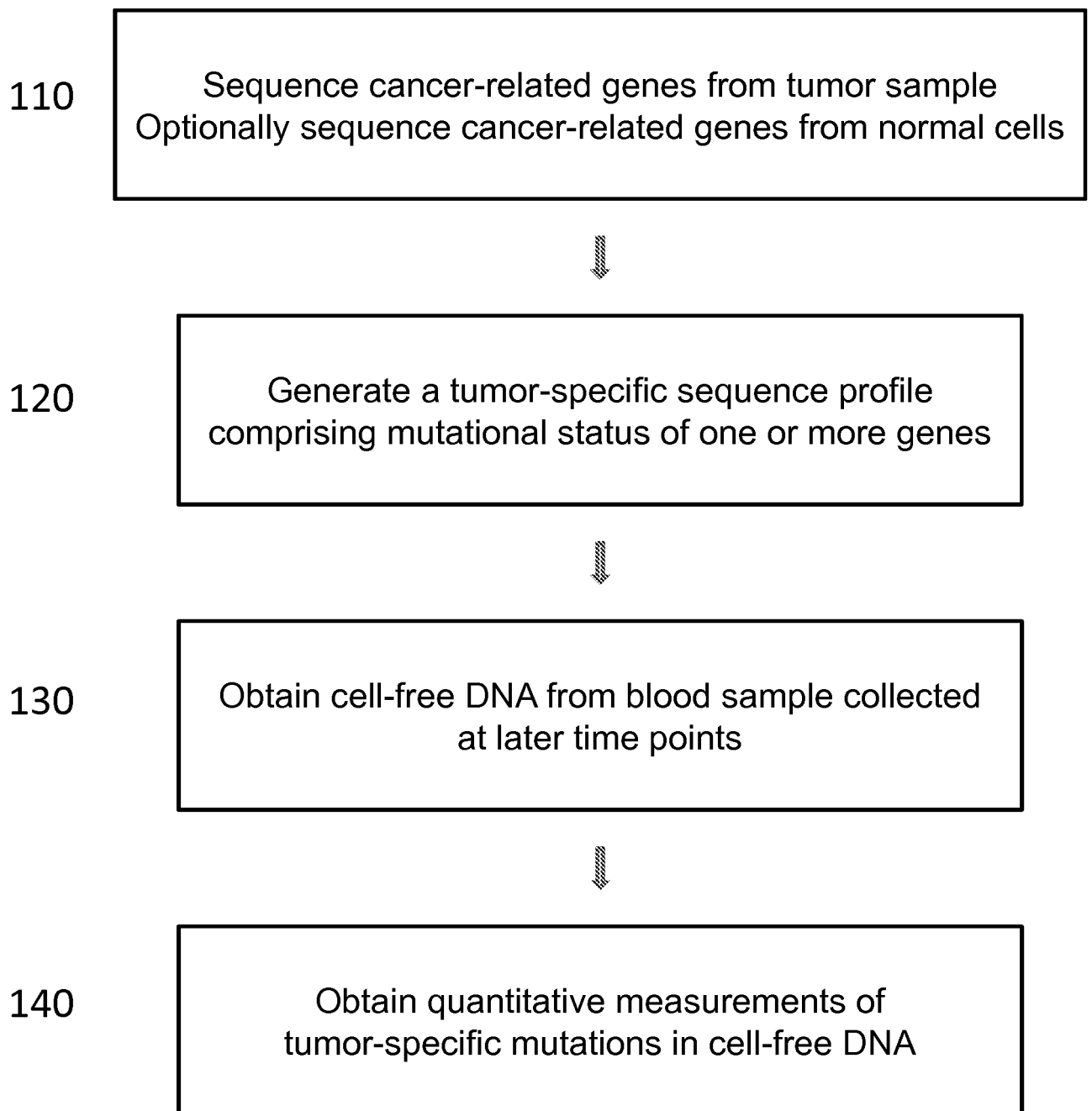


FIG. 1

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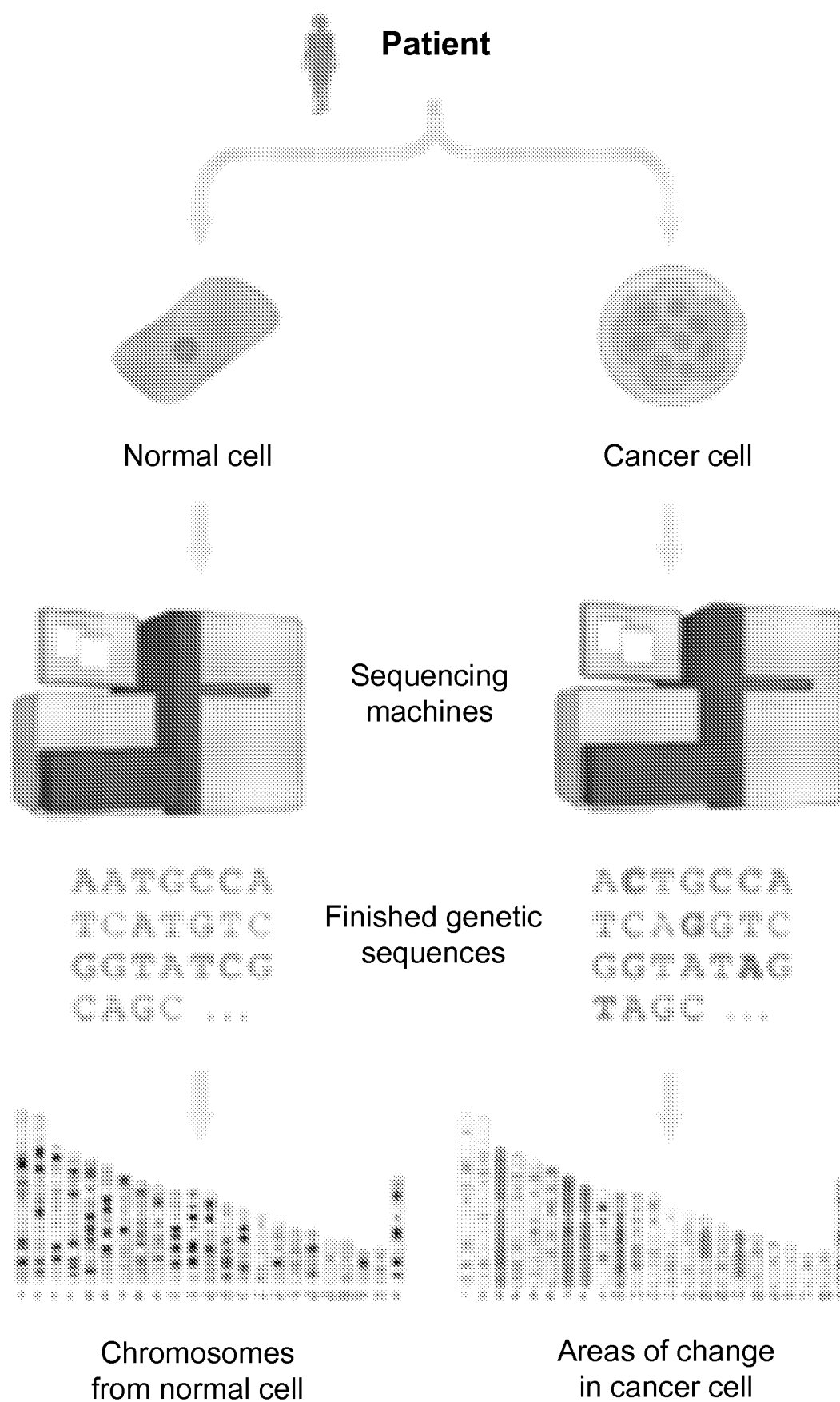


FIG. 2

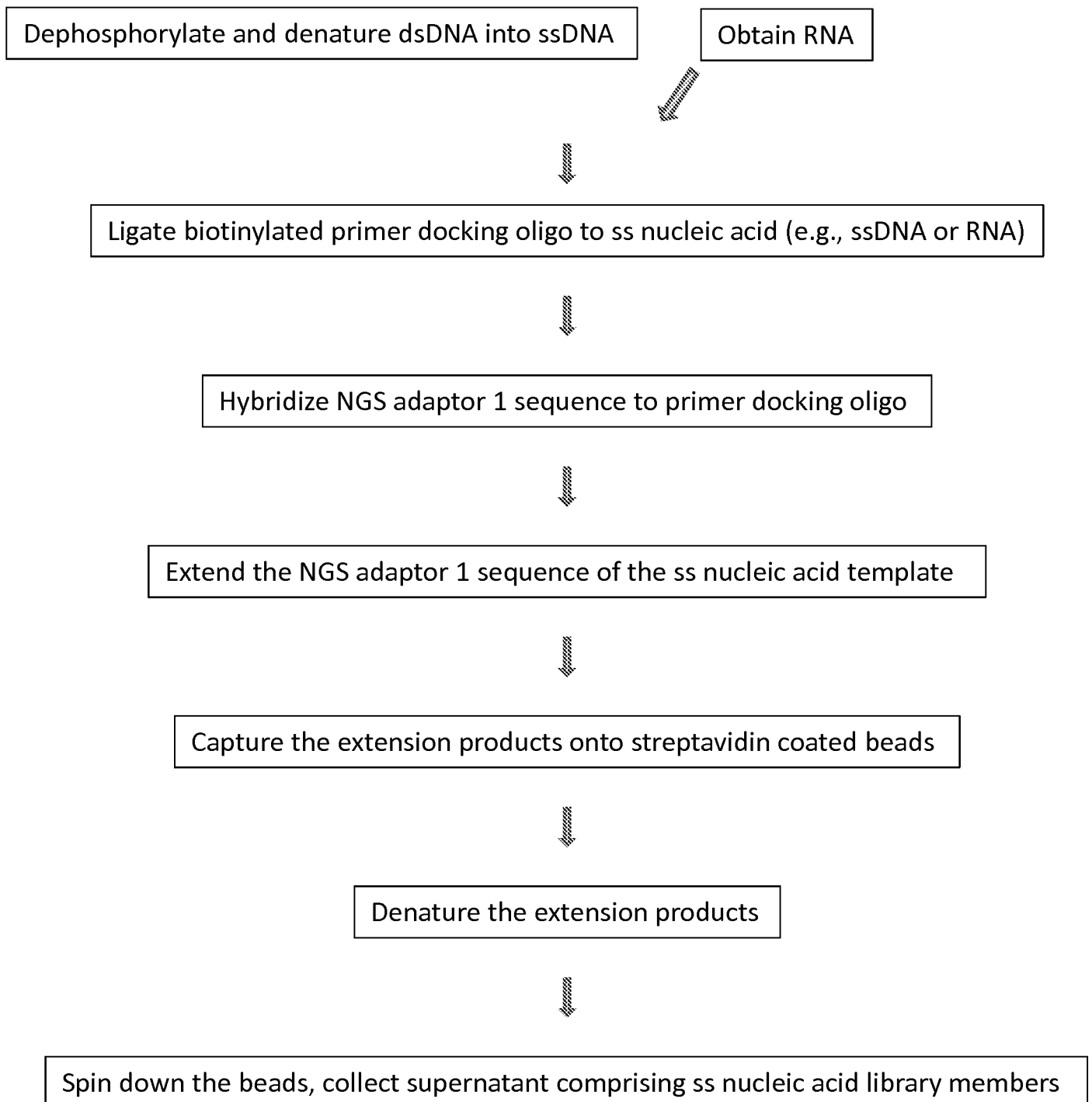


FIG. 3

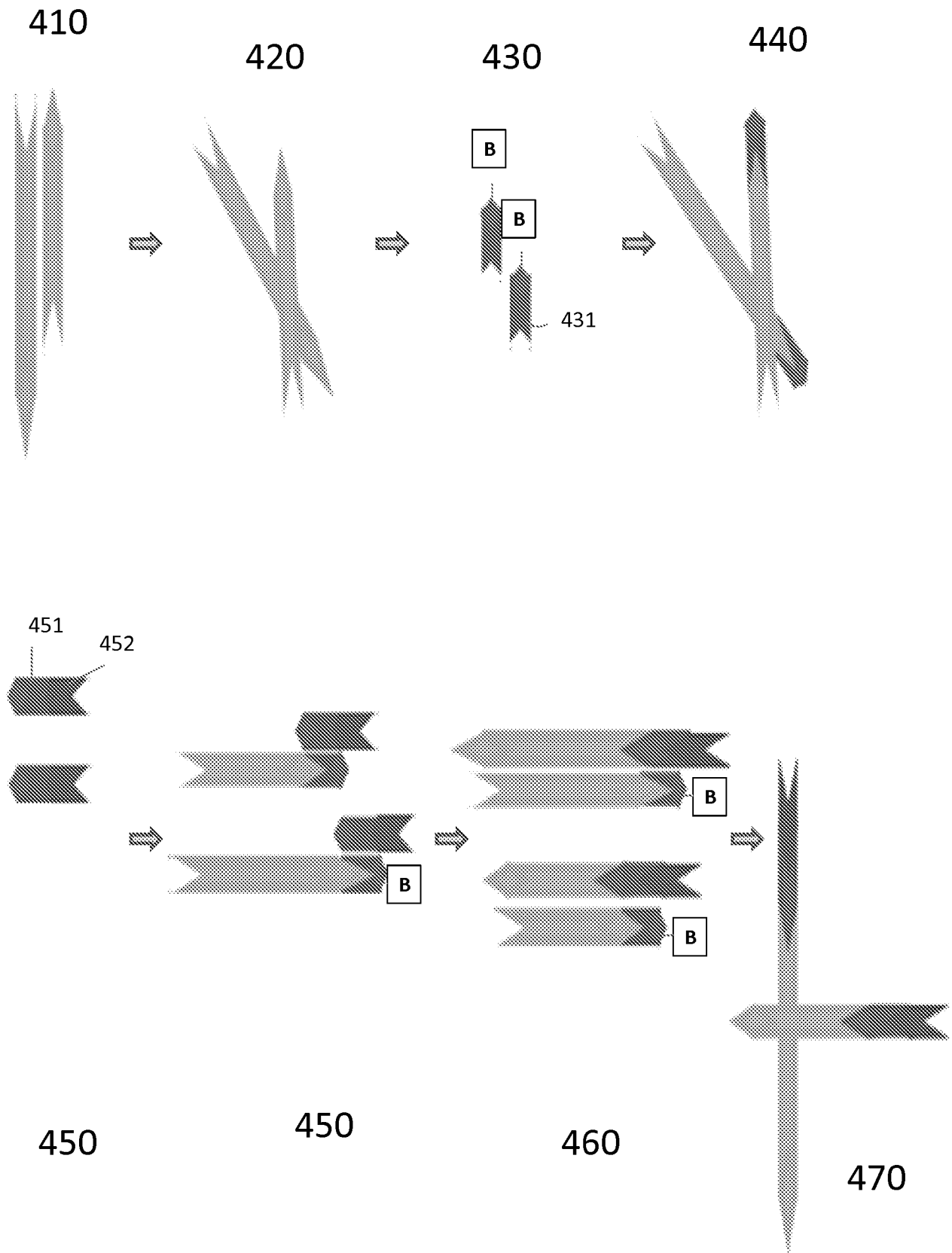


FIG. 4

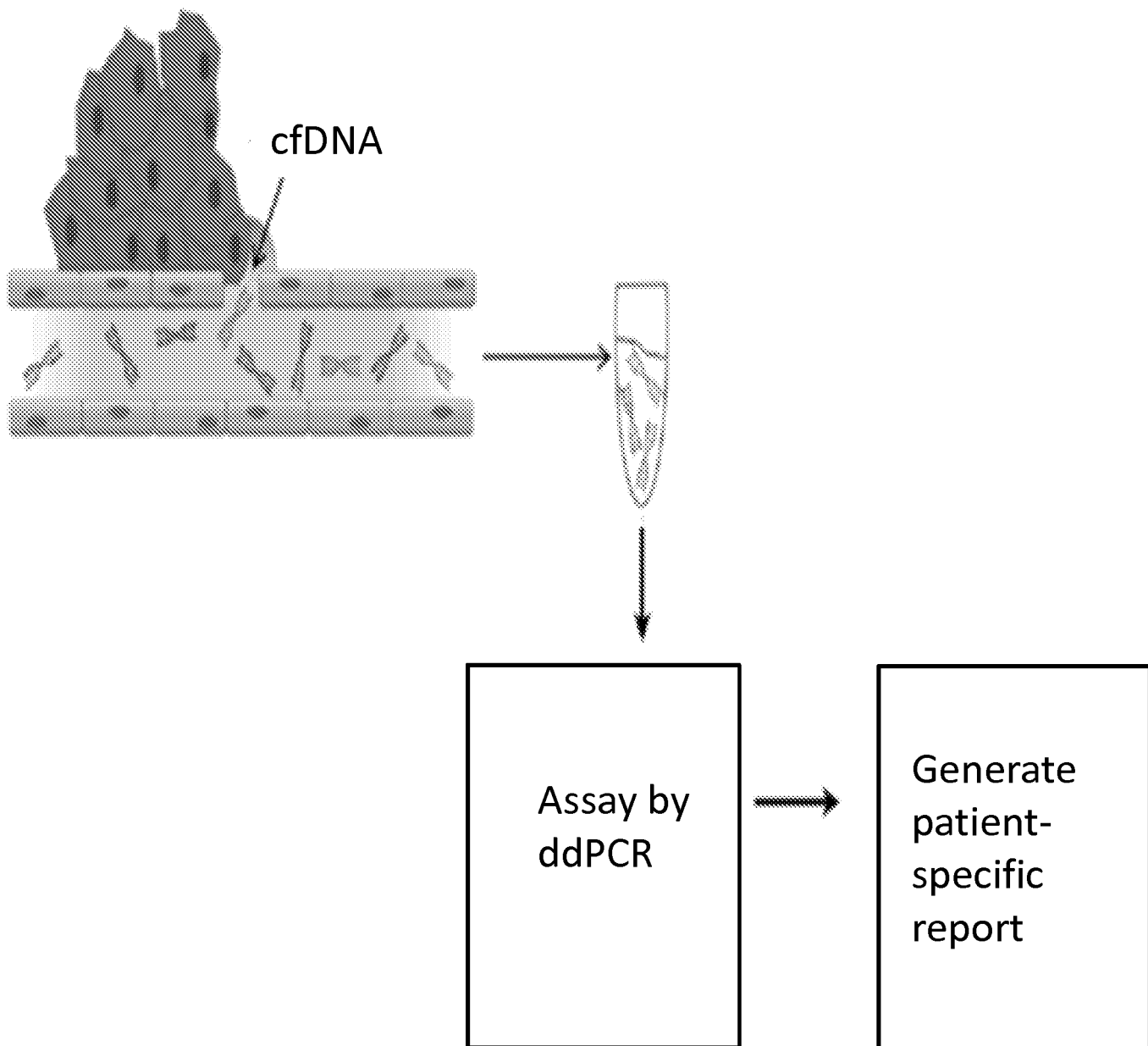


FIG. 5

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600

601

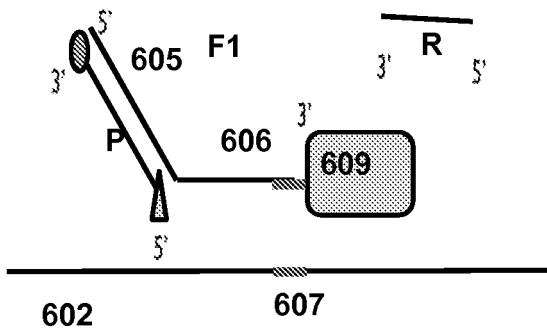
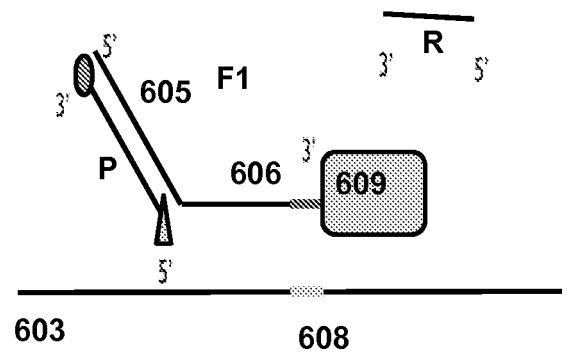
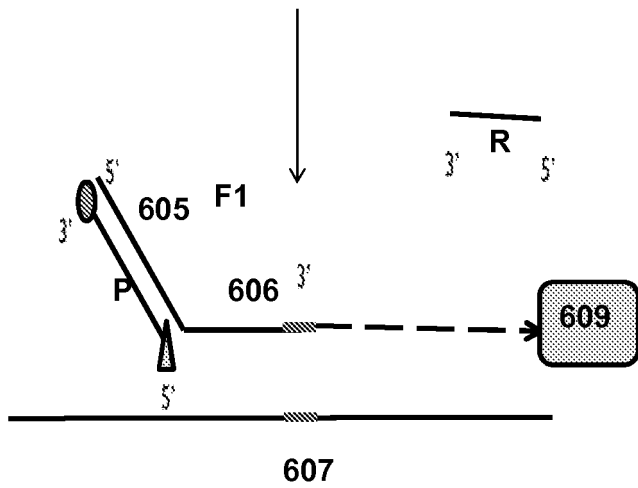
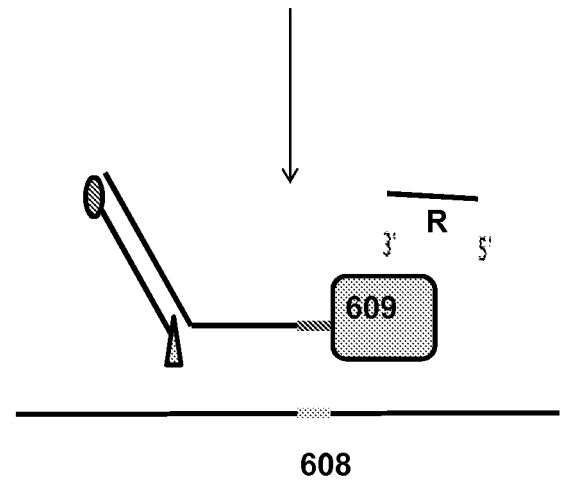
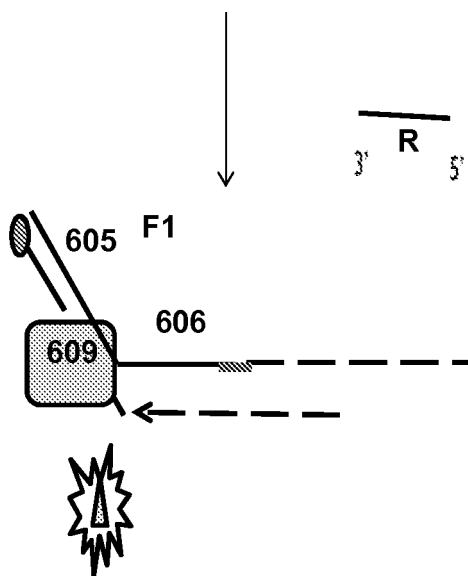
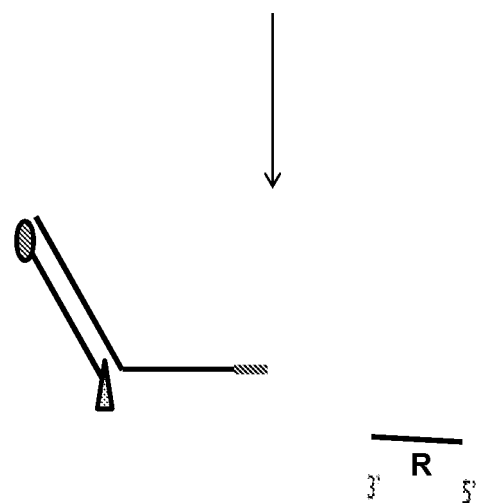
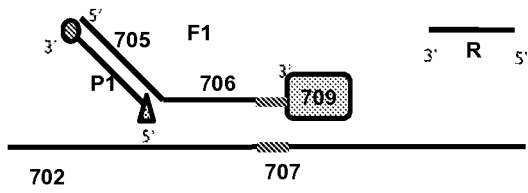
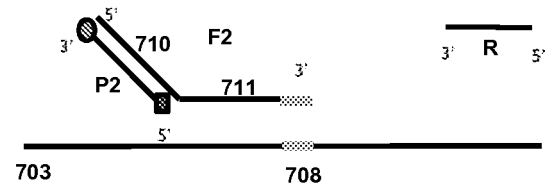
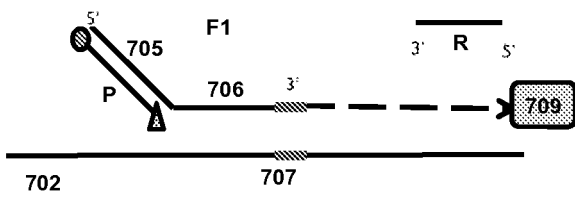
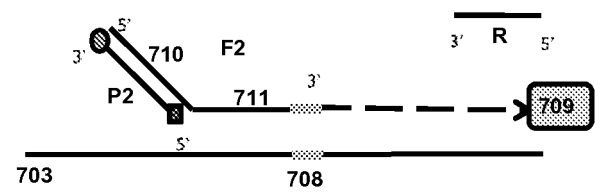


FIG. 6

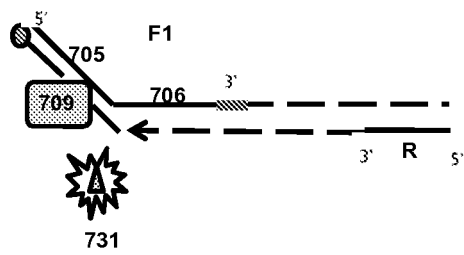
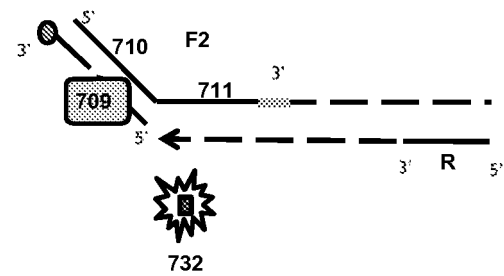
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740



750



760

FIG. 7

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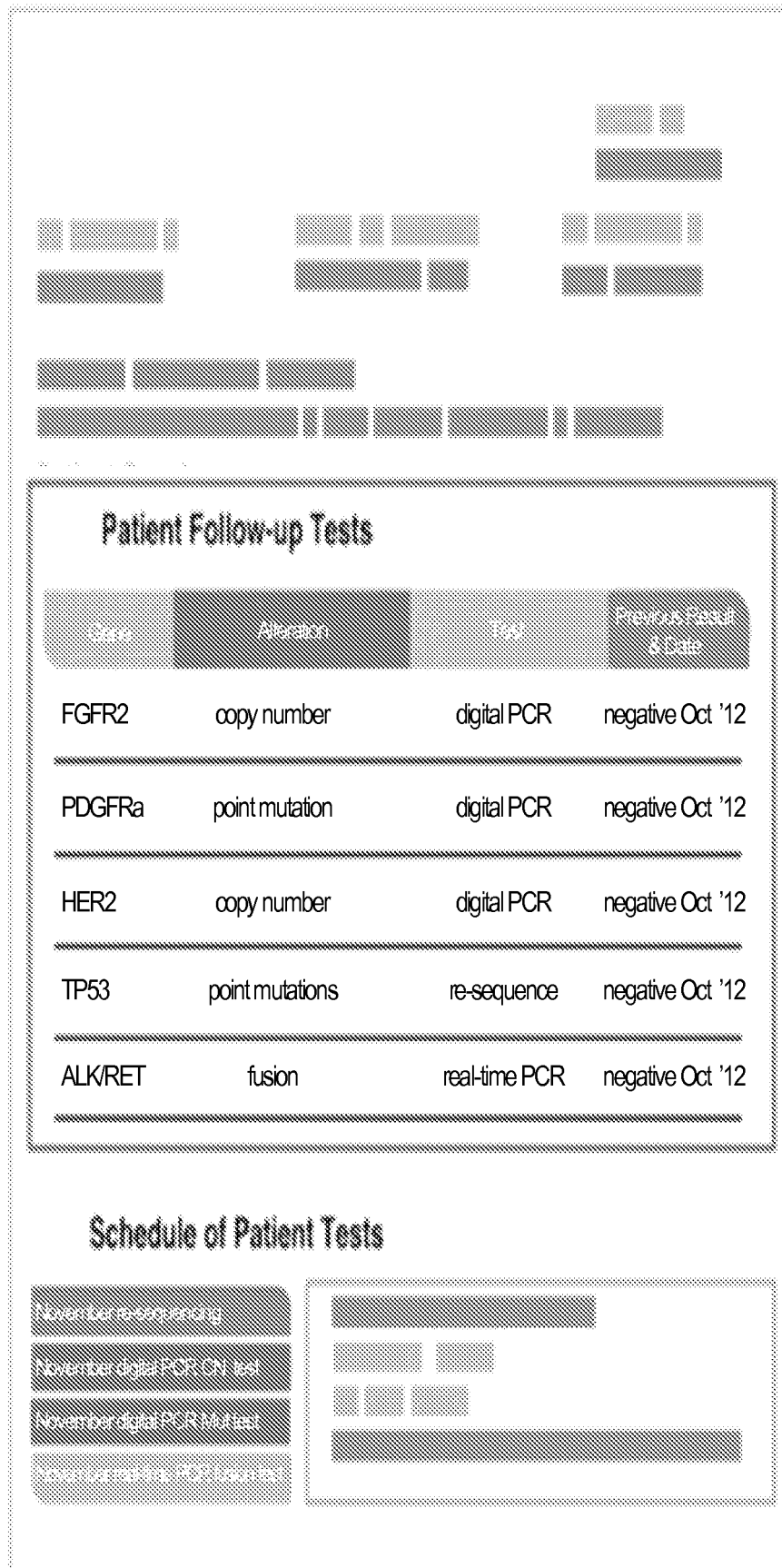


FIG. 8

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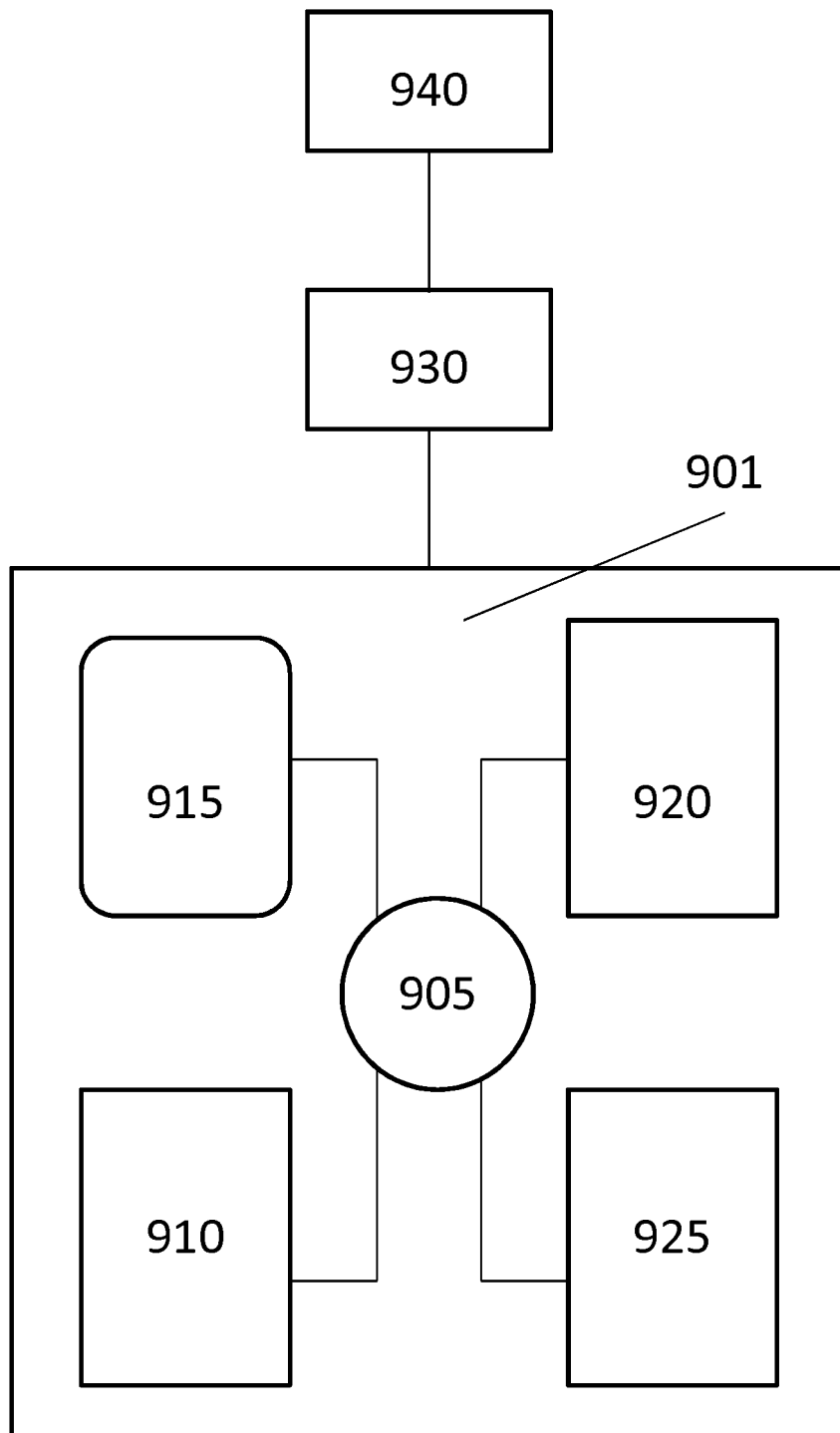
**900**

FIG. 9

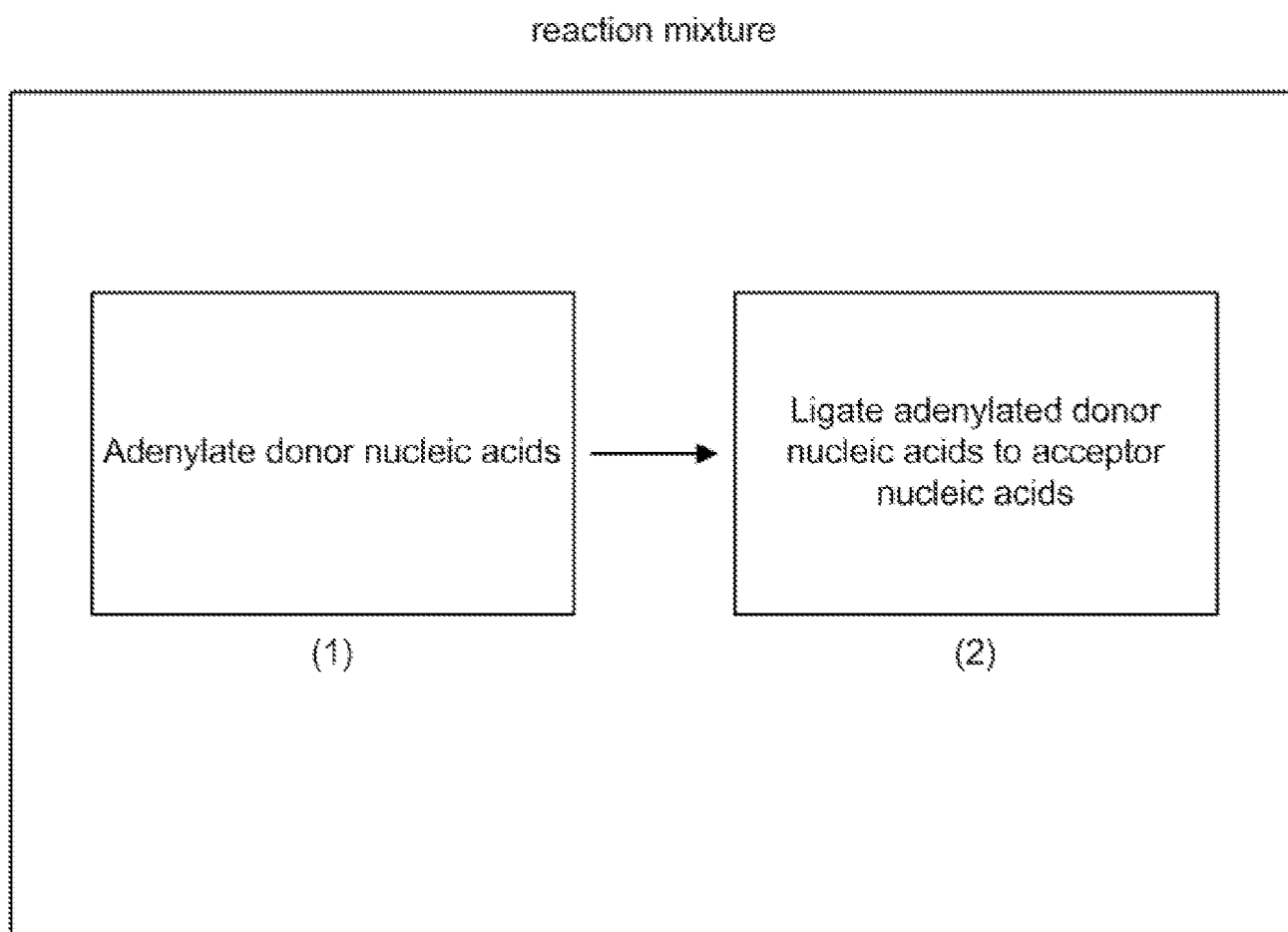


FIG. 10A

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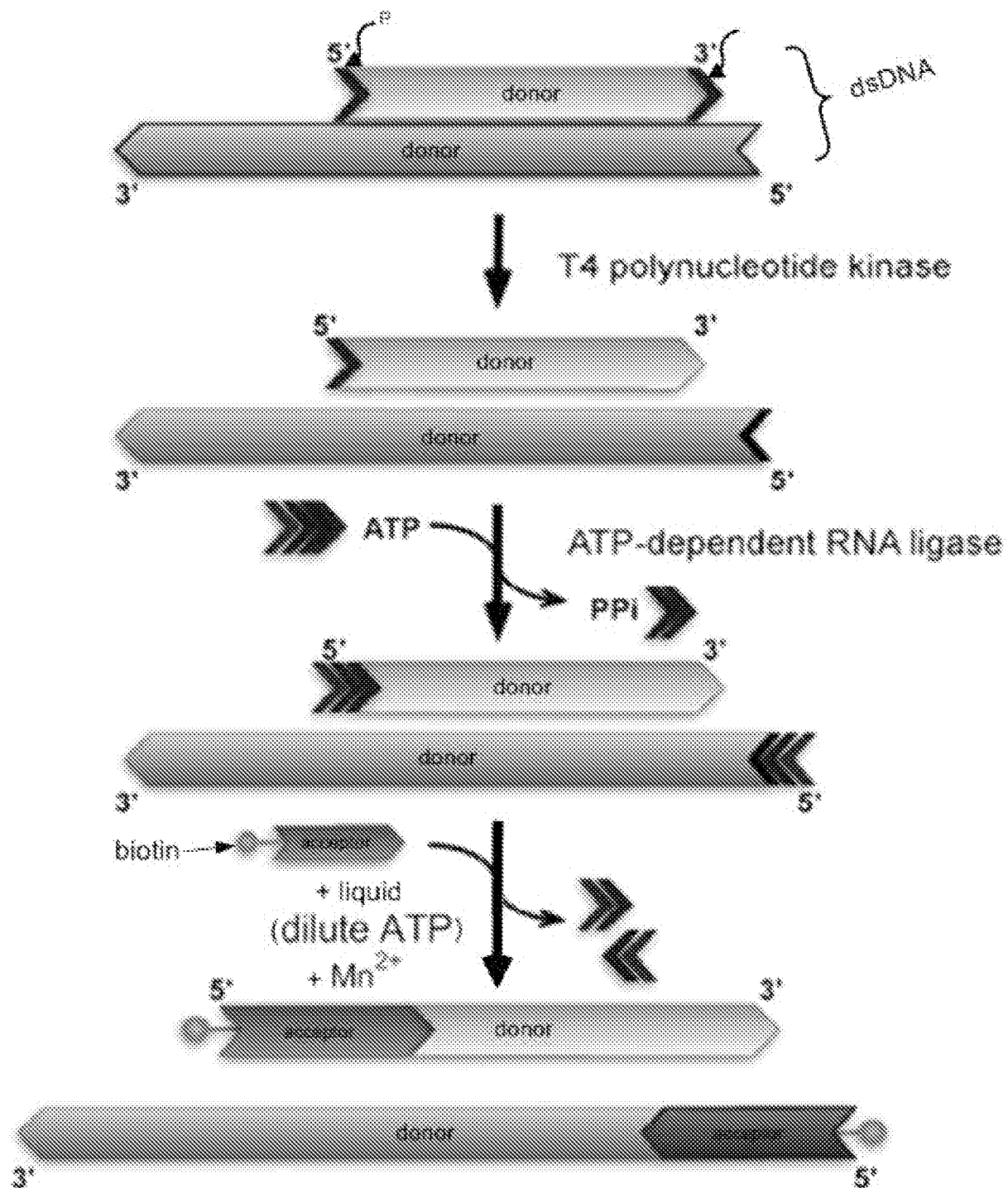


FIG. 10B

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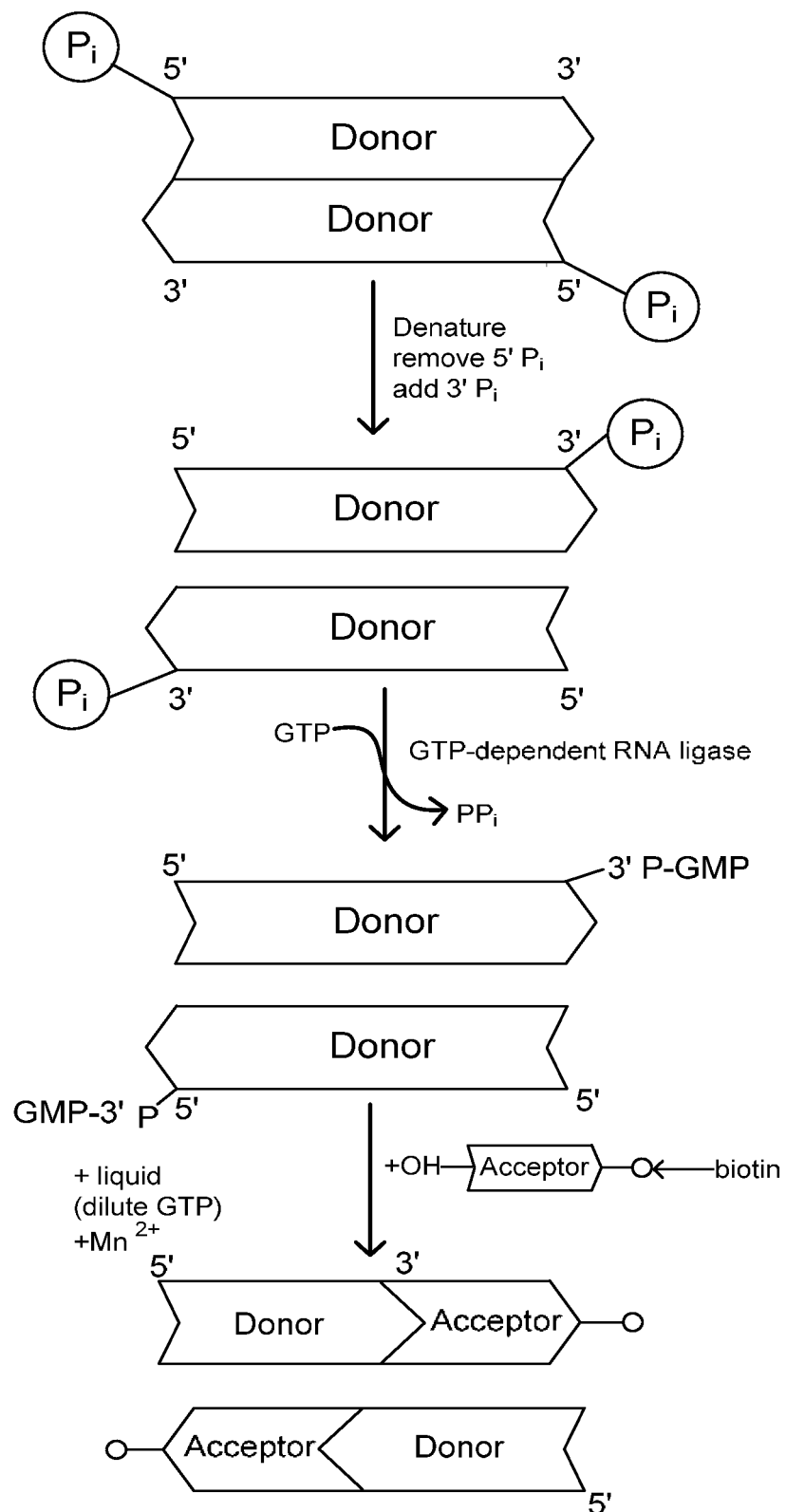


FIG. 11

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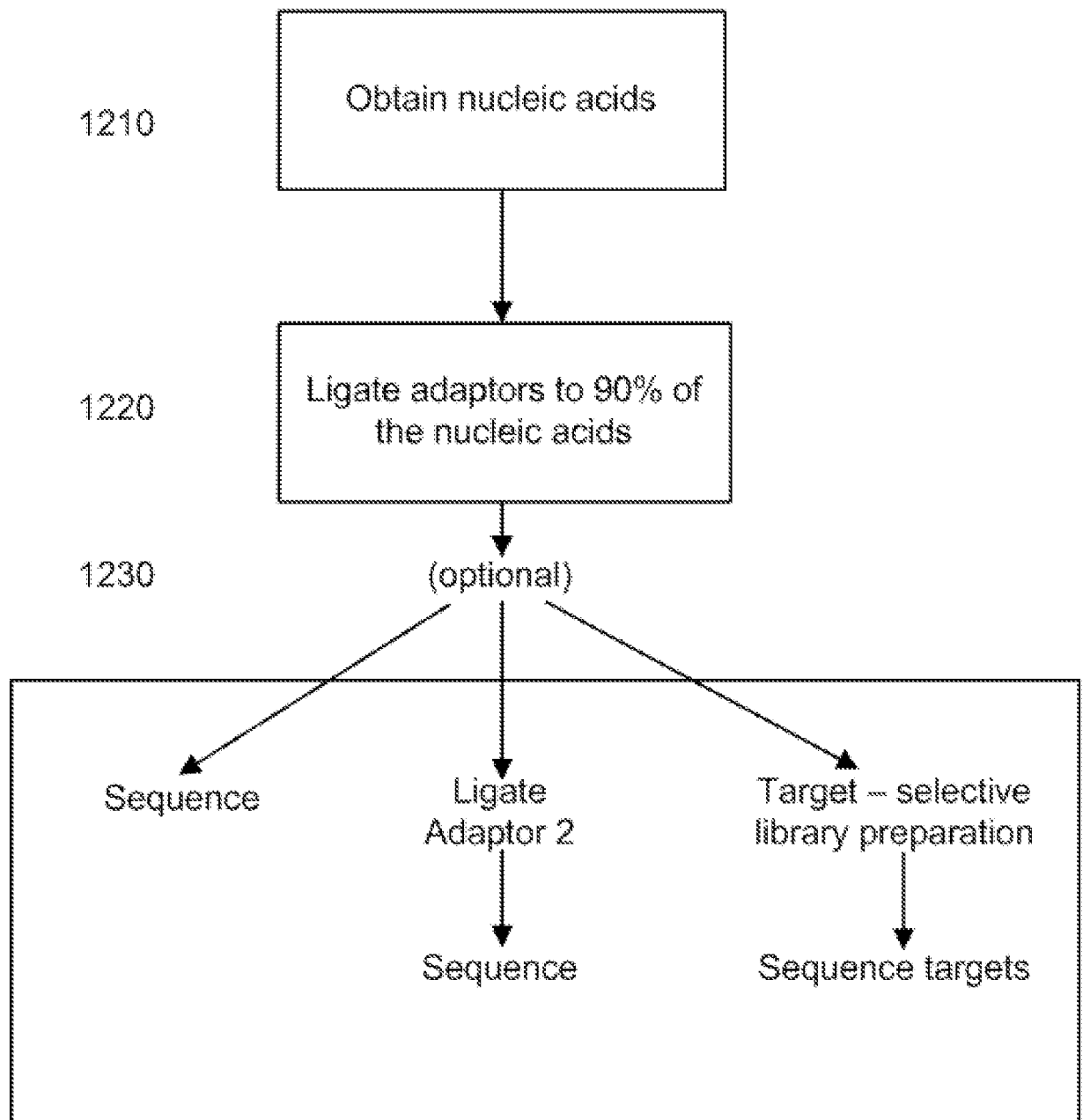


FIG. 12

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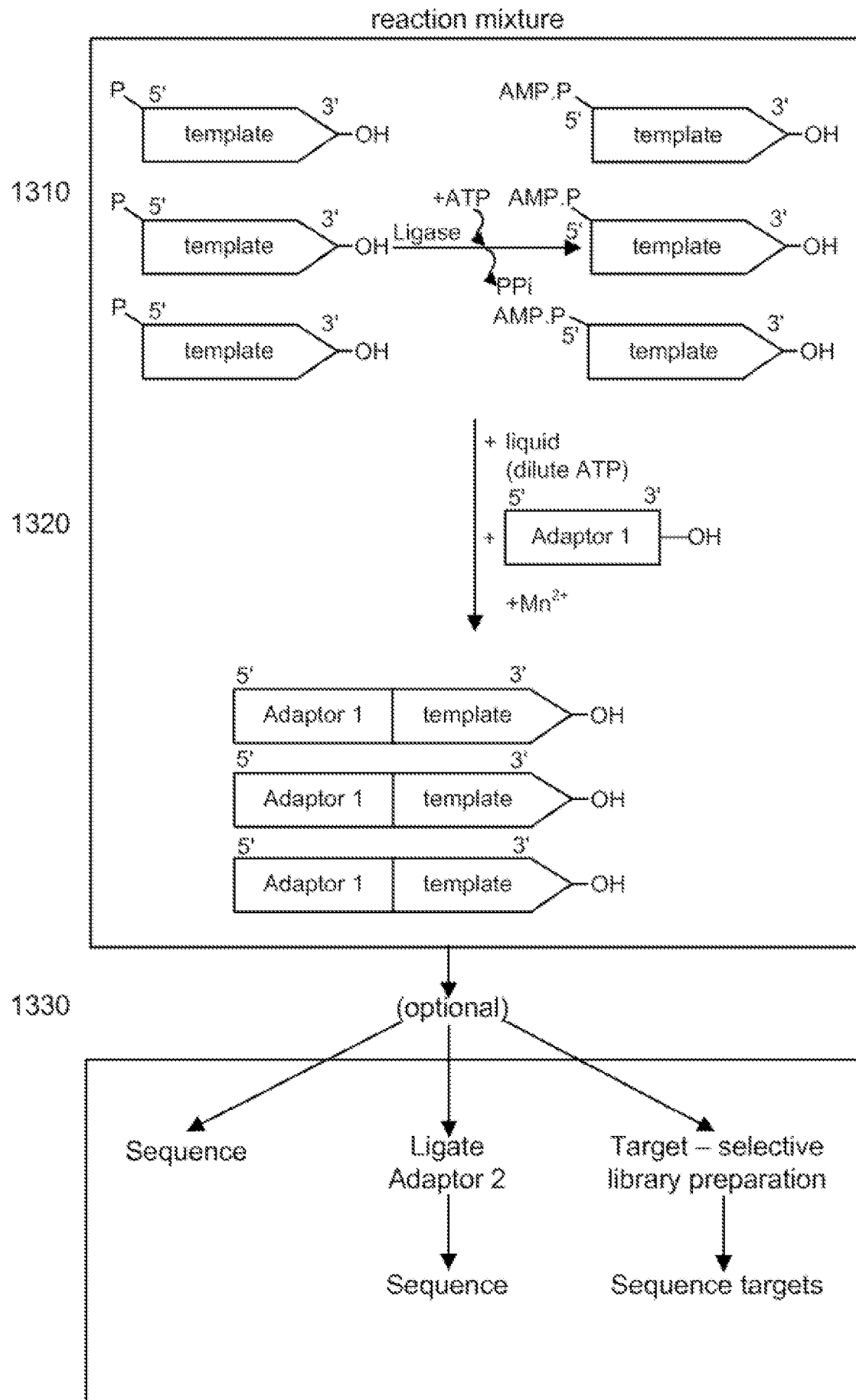


FIG. 13A

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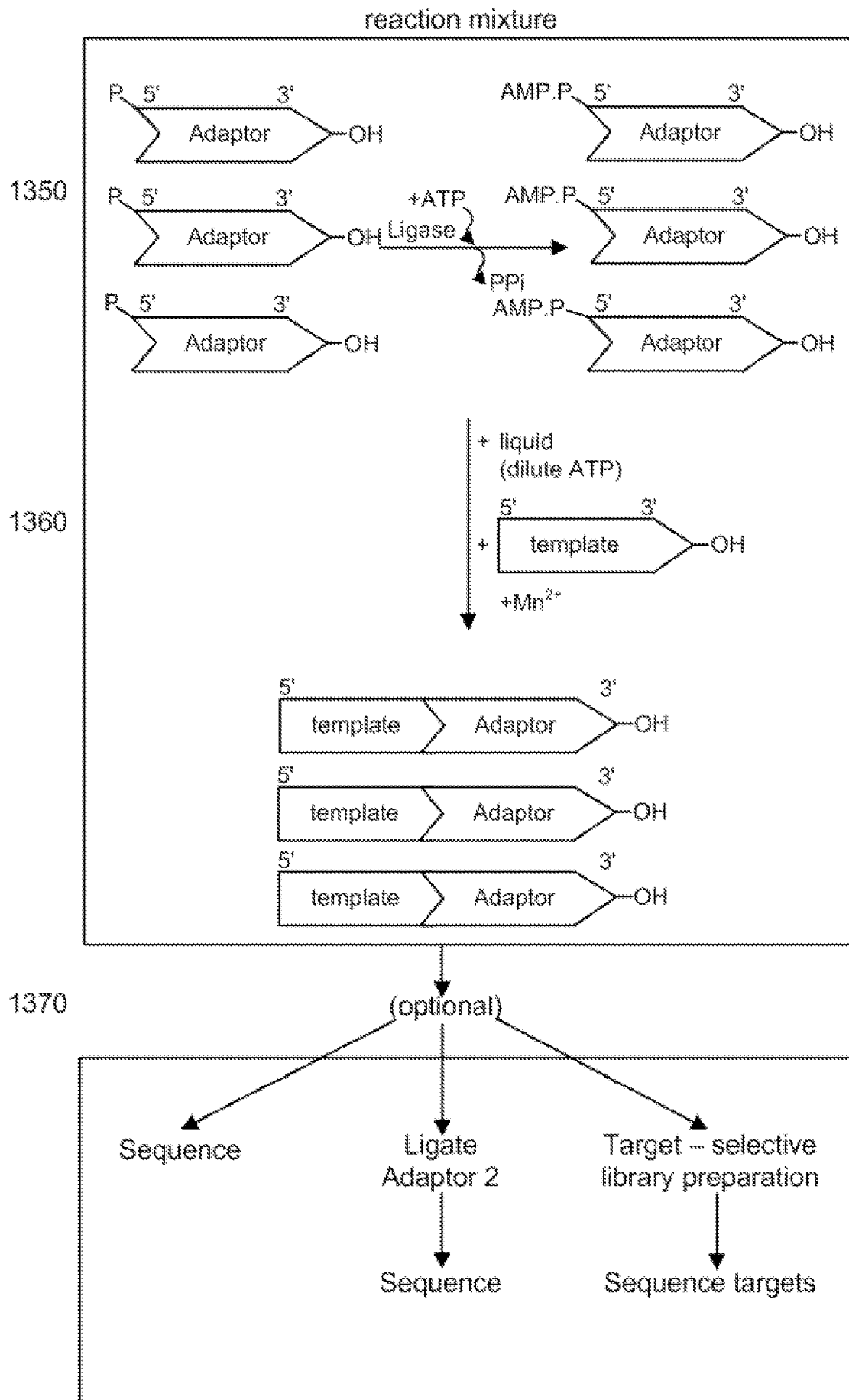


FIG. 13B

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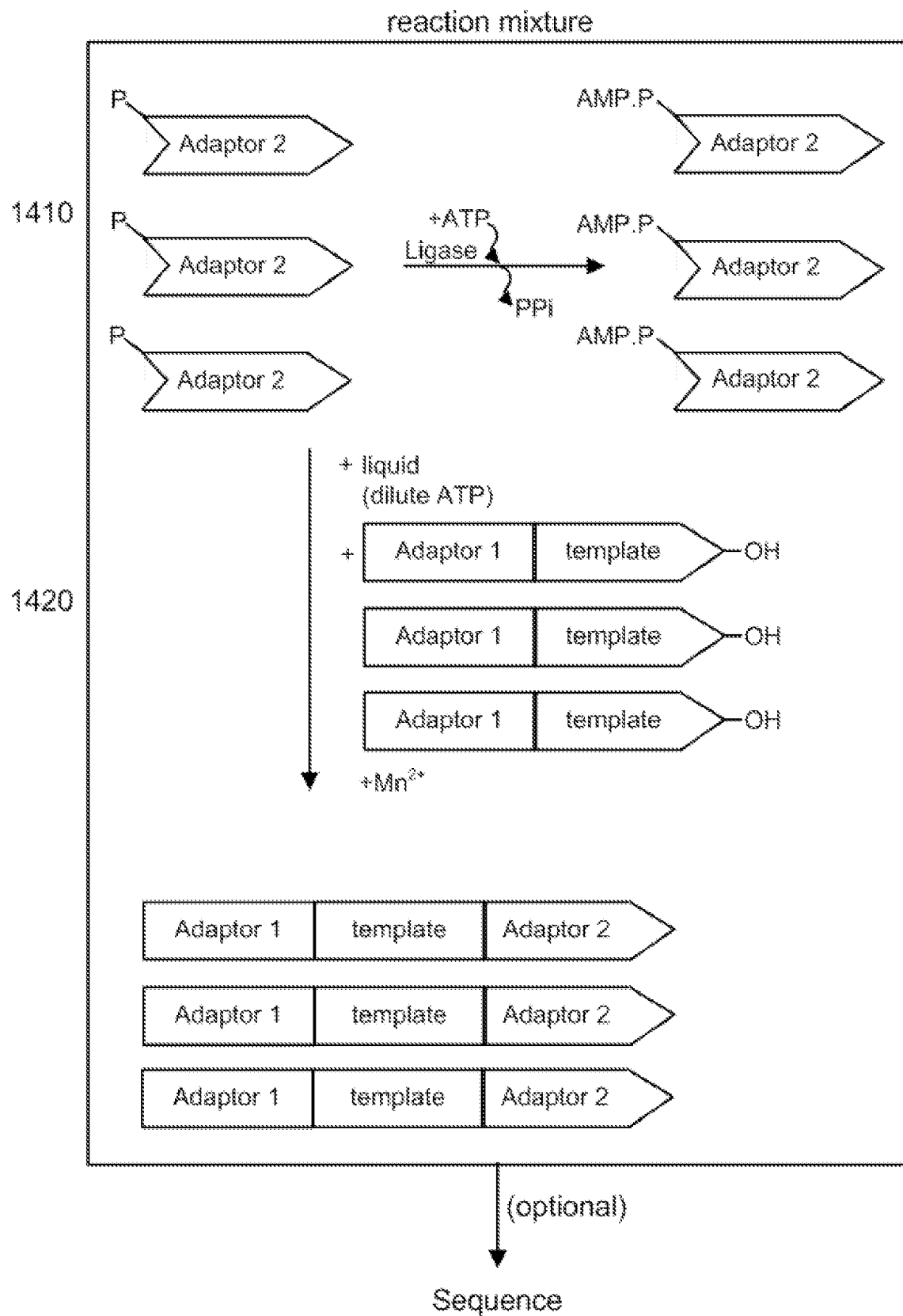


FIG. 14A

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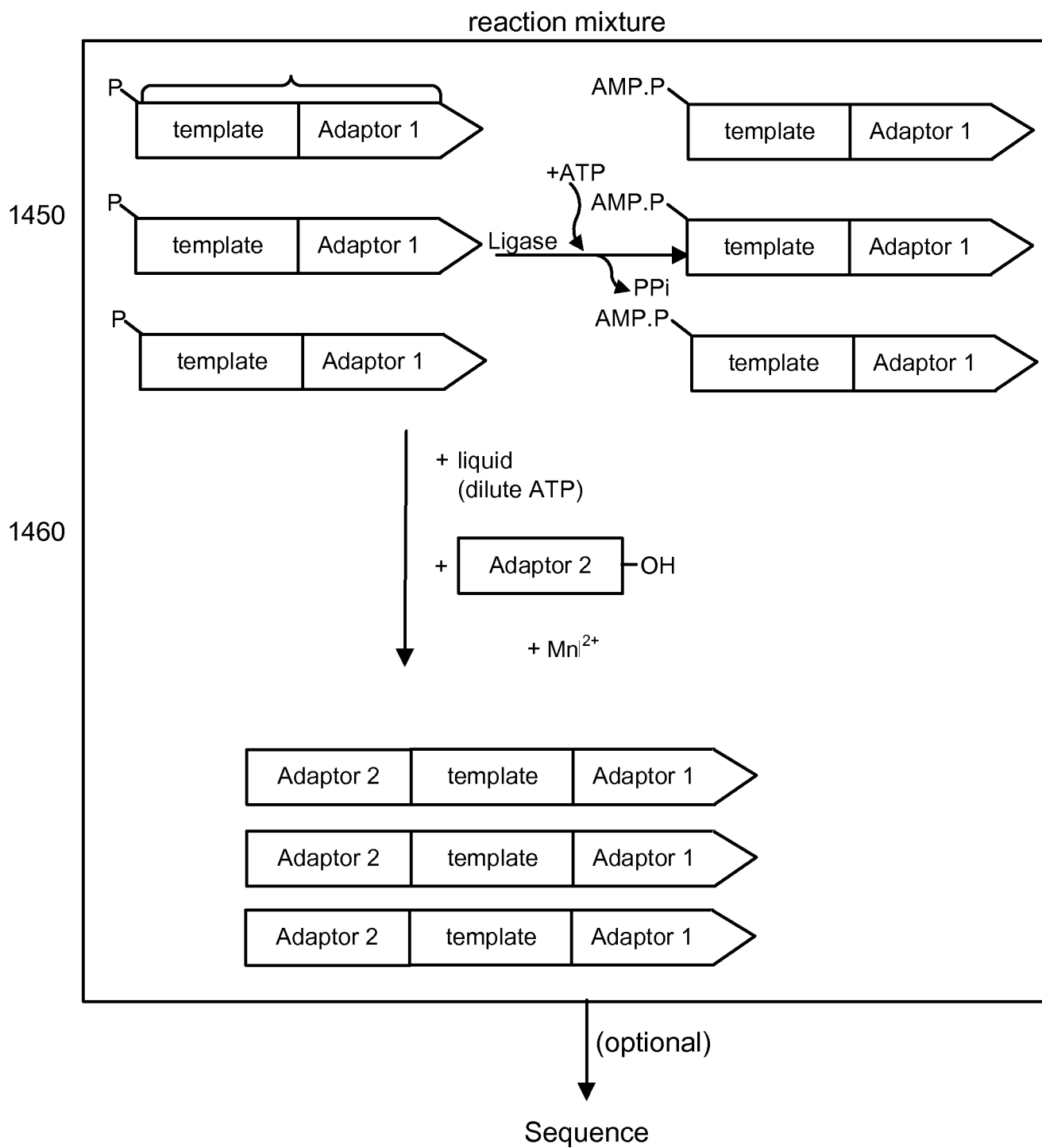


FIG. 14B

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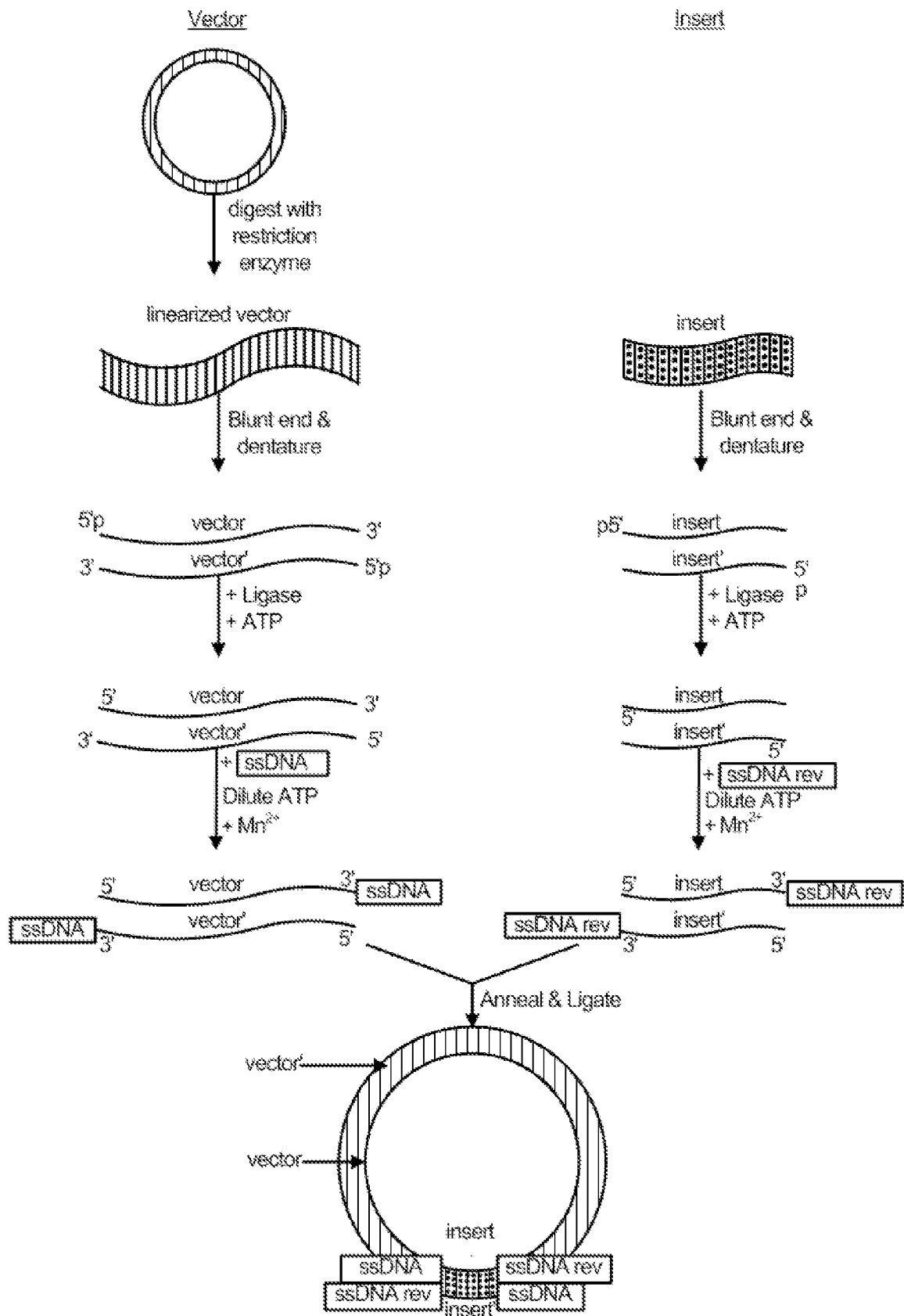


FIG. 15

1600

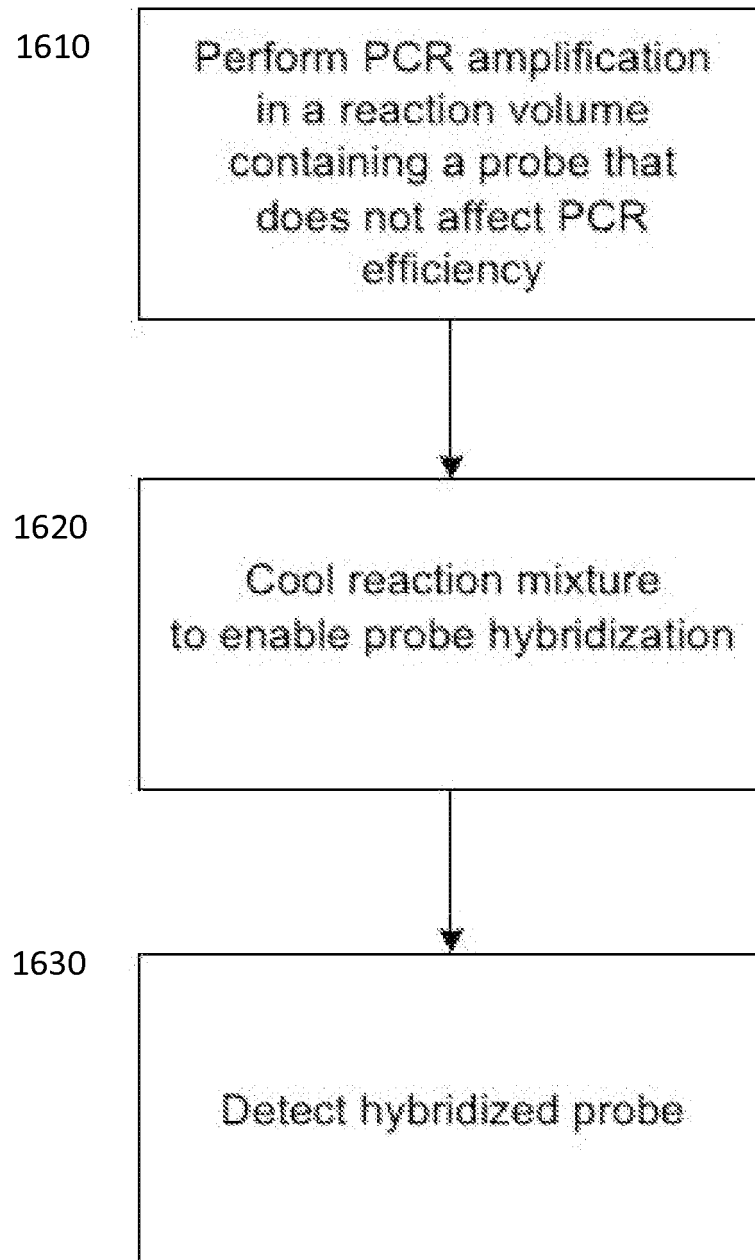


FIG. 16

1700

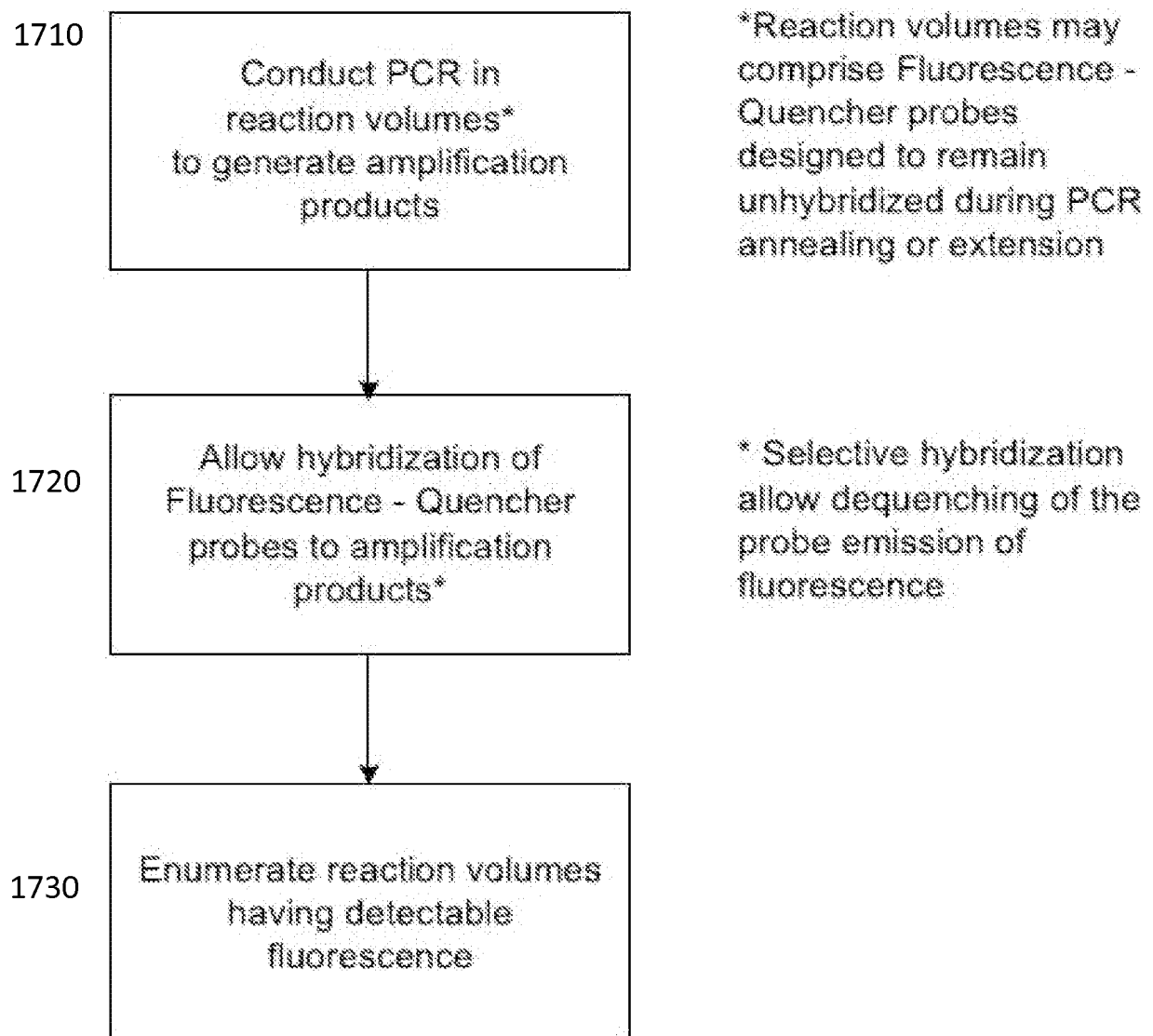


FIG. 17

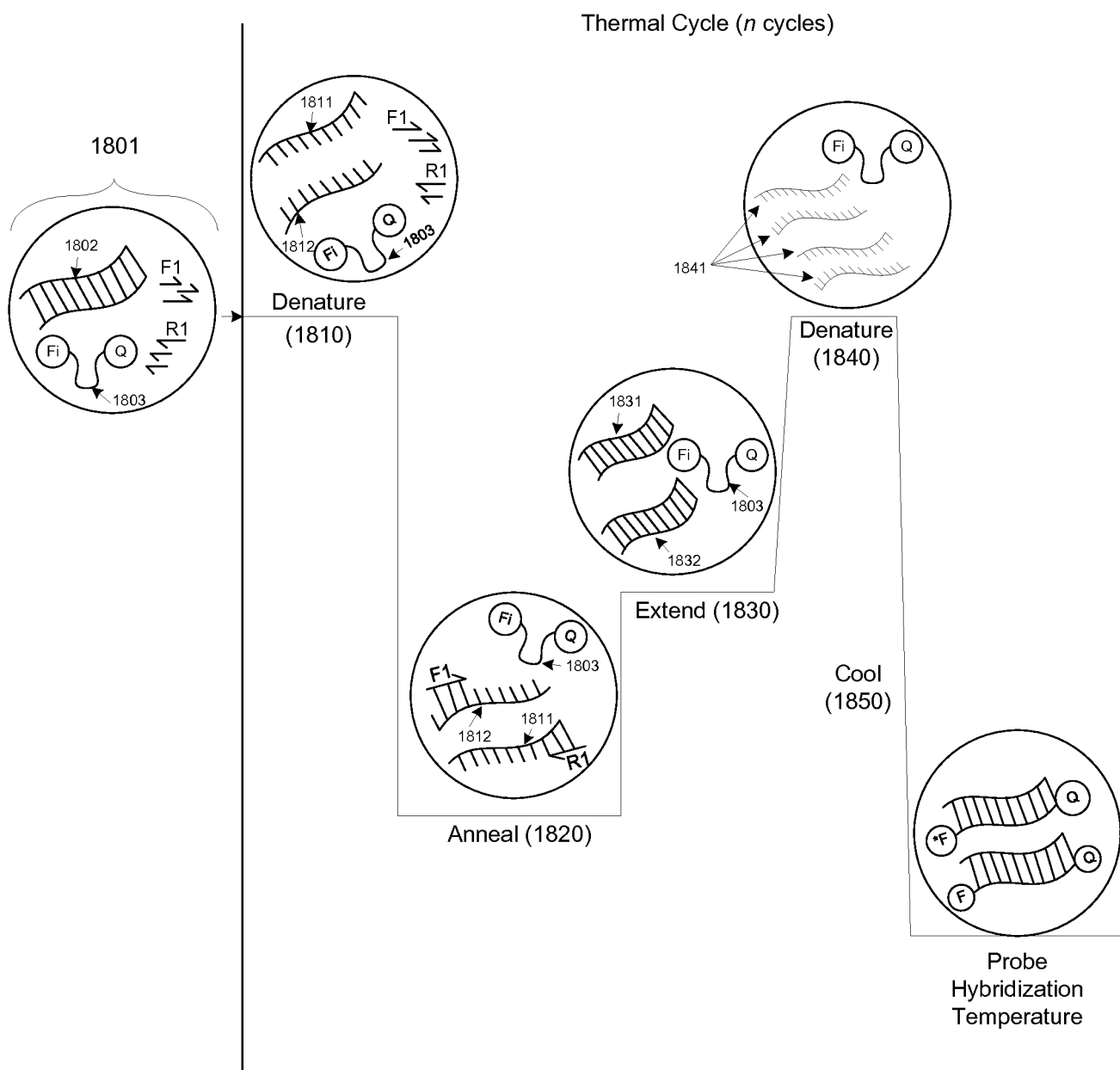


FIG. 18

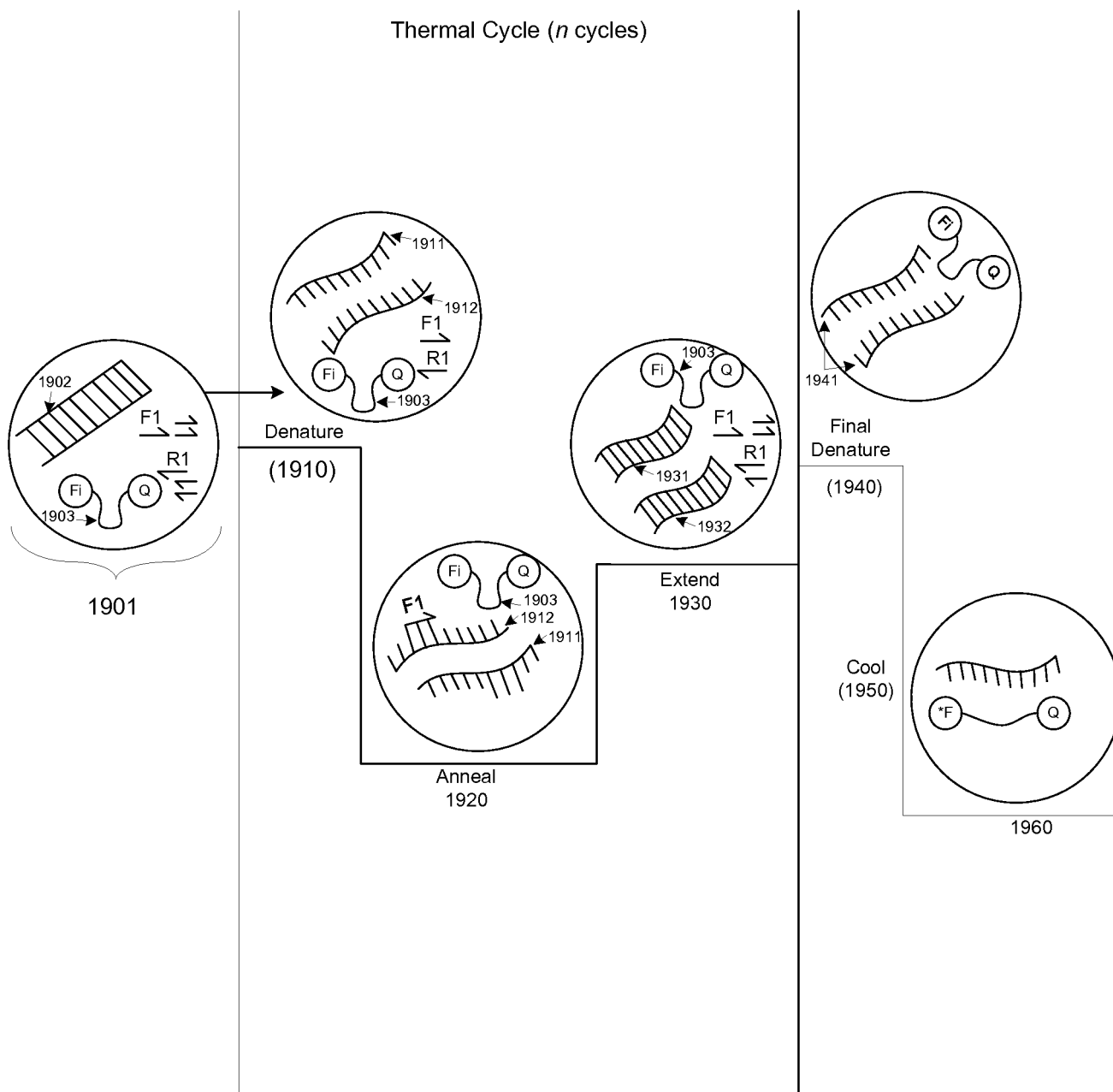


FIG. 19

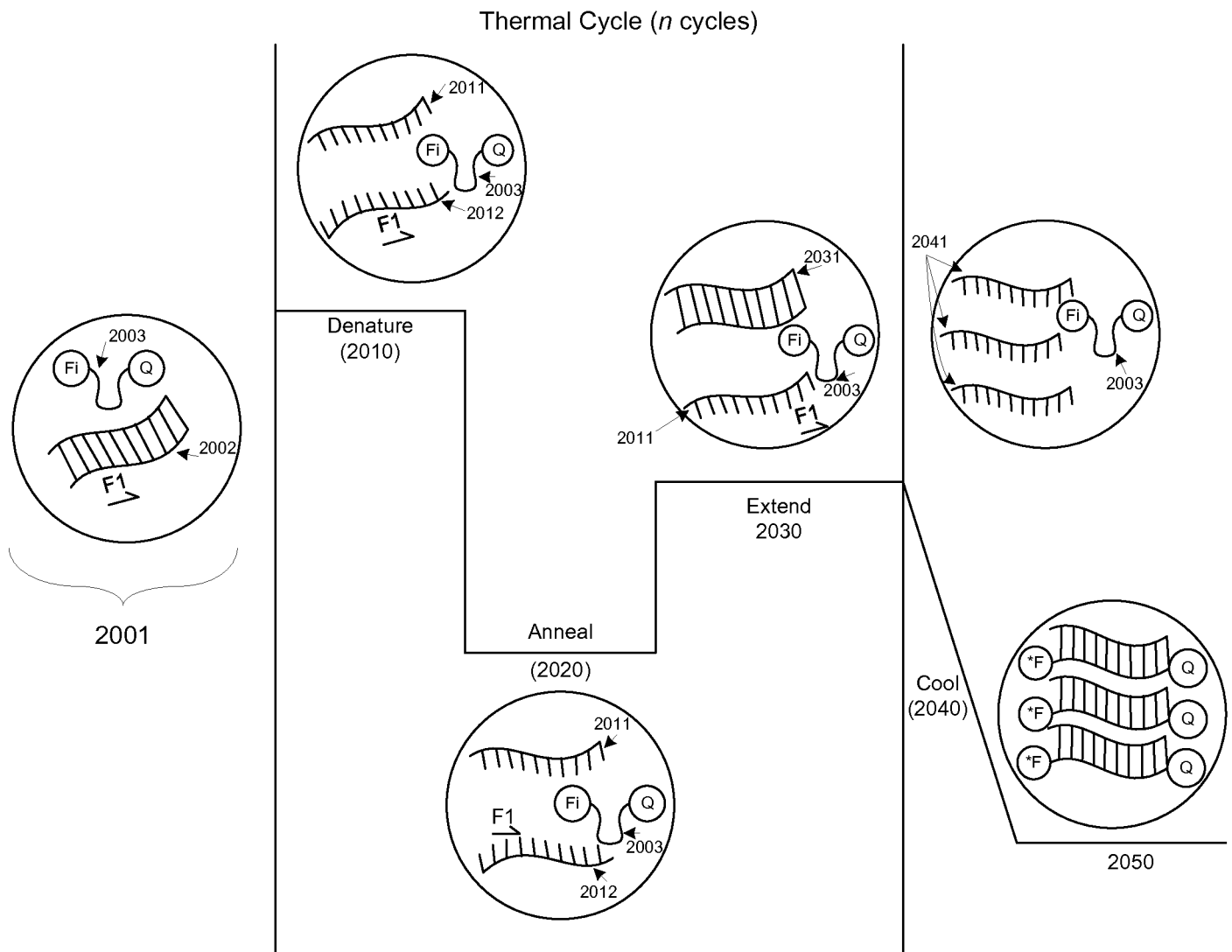


FIG. 20

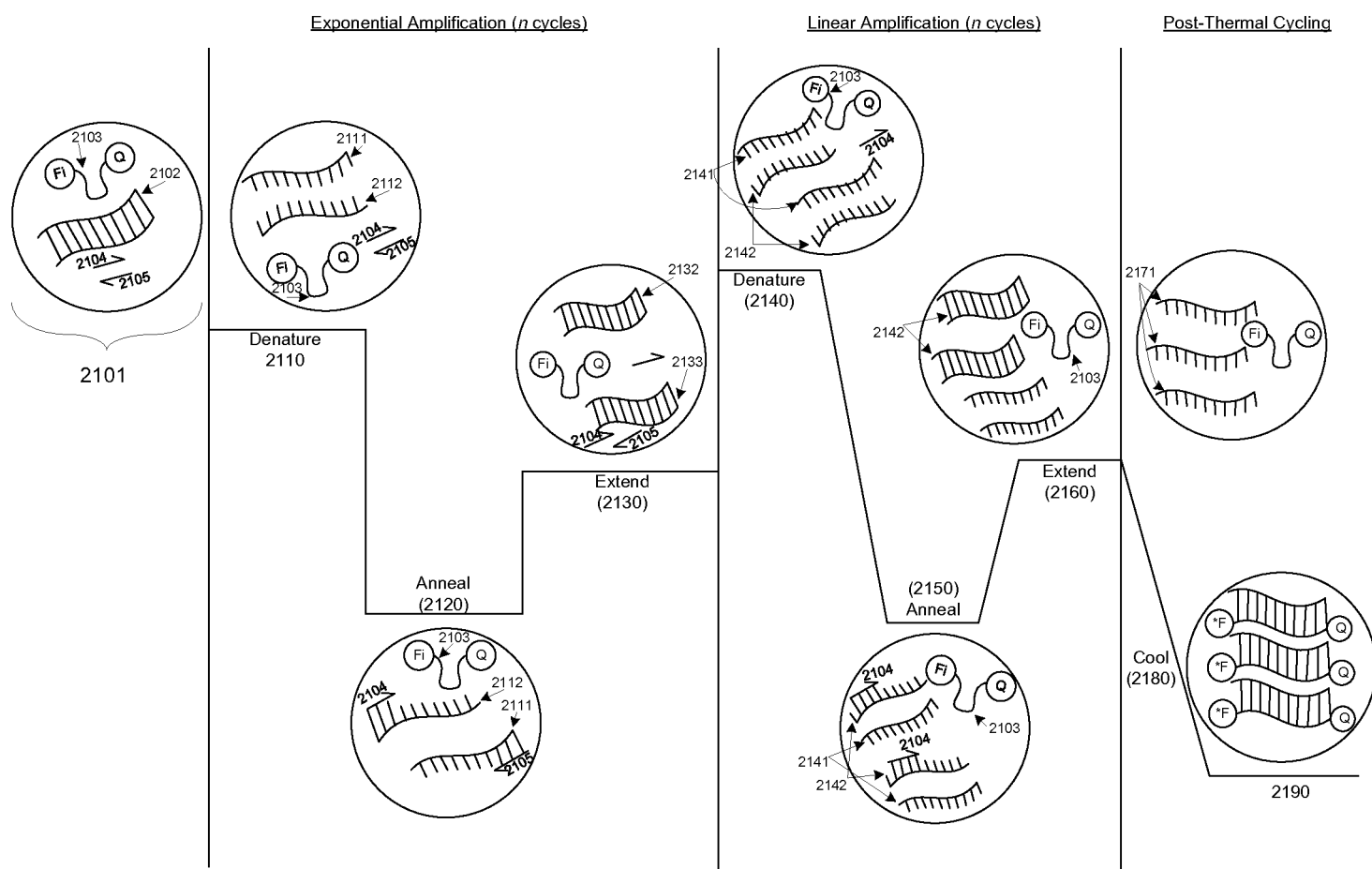


FIG. 21

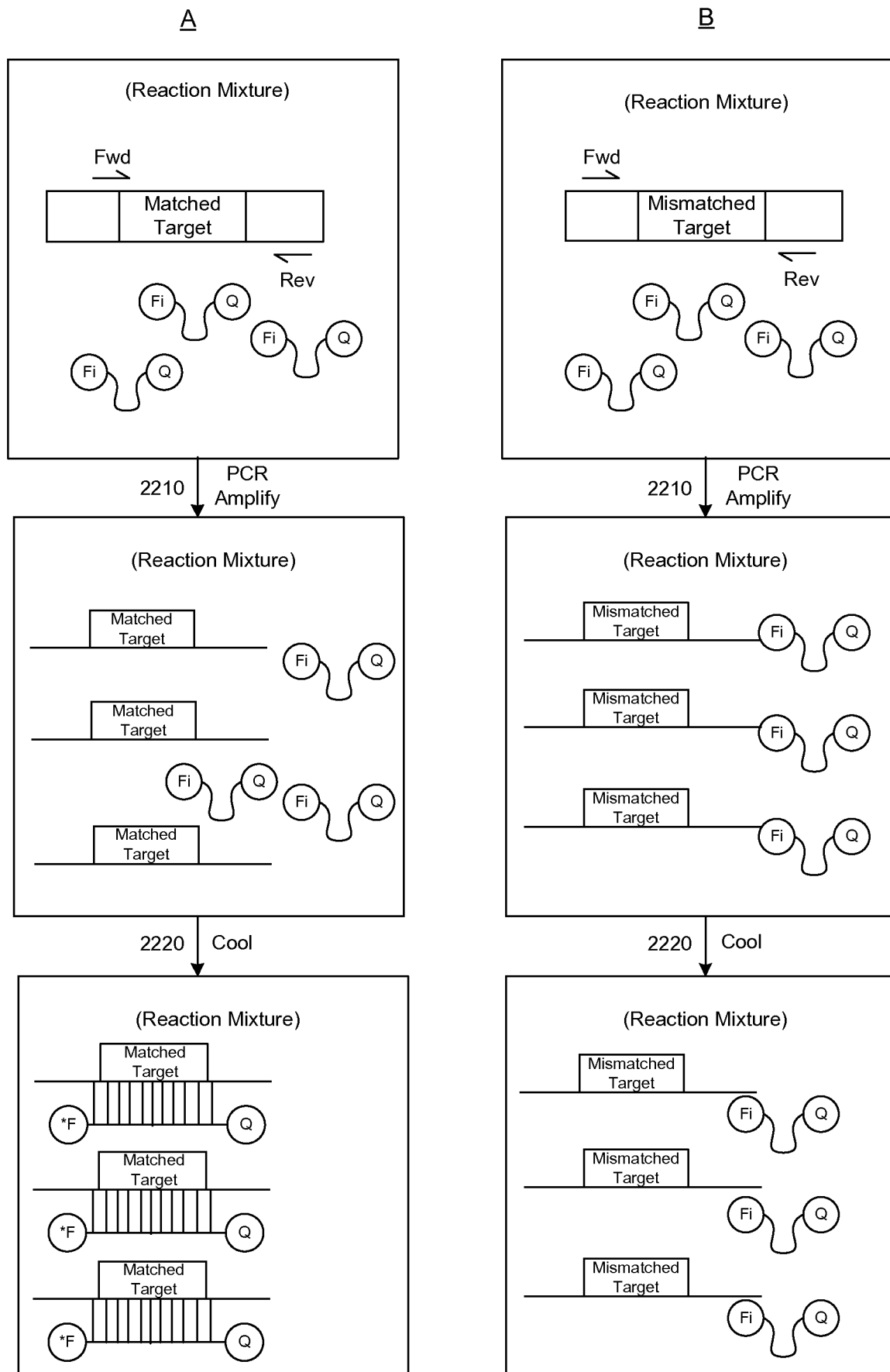


FIG. 22

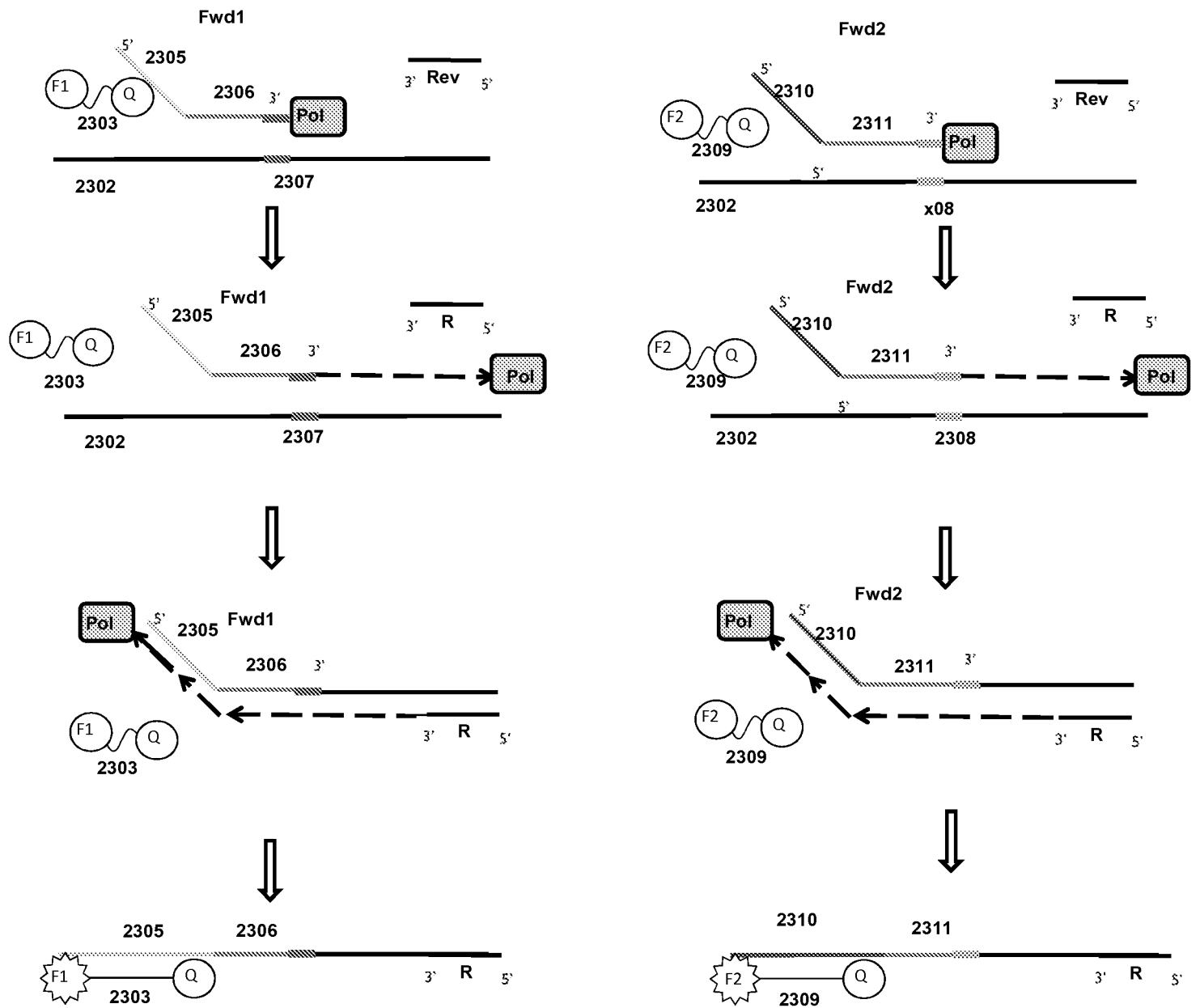
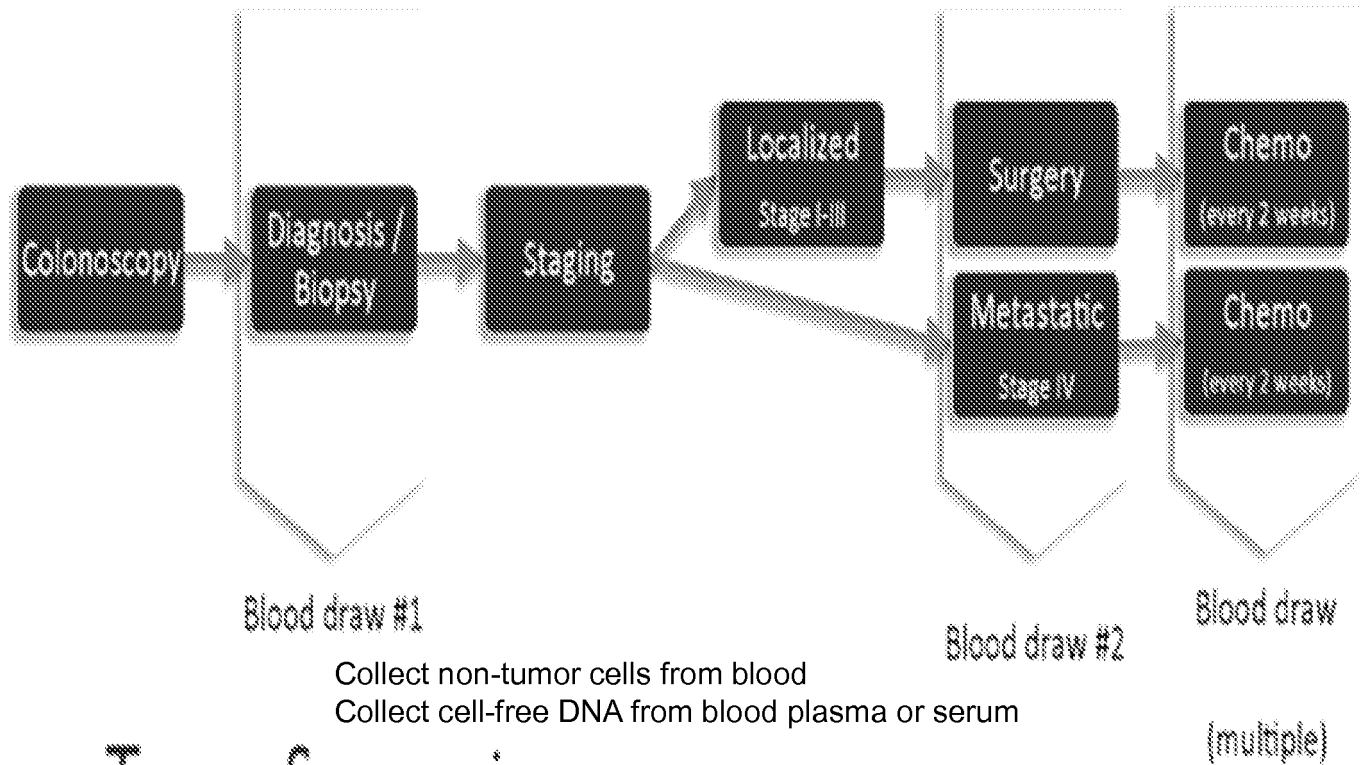


FIG. 23

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## Tumor Sequencing

### Mutation(s)

| Gene | Nucleotide Change | Amino Acid Change | Exon | COSMIC ID | Reference(s) / Comments |
|------|-------------------|-------------------|------|-----------|-------------------------|
| APC  | c.3916G>T         | p.E1306*          | 16   | 18760     | confirmed               |
| KRAS | c.34G>A           | p.G12S            | 2    | 430       | confirmed               |
| TP53 | c.273G>A          | p.W91*            | 4    | 44492     | confirmed               |

FIG. 24

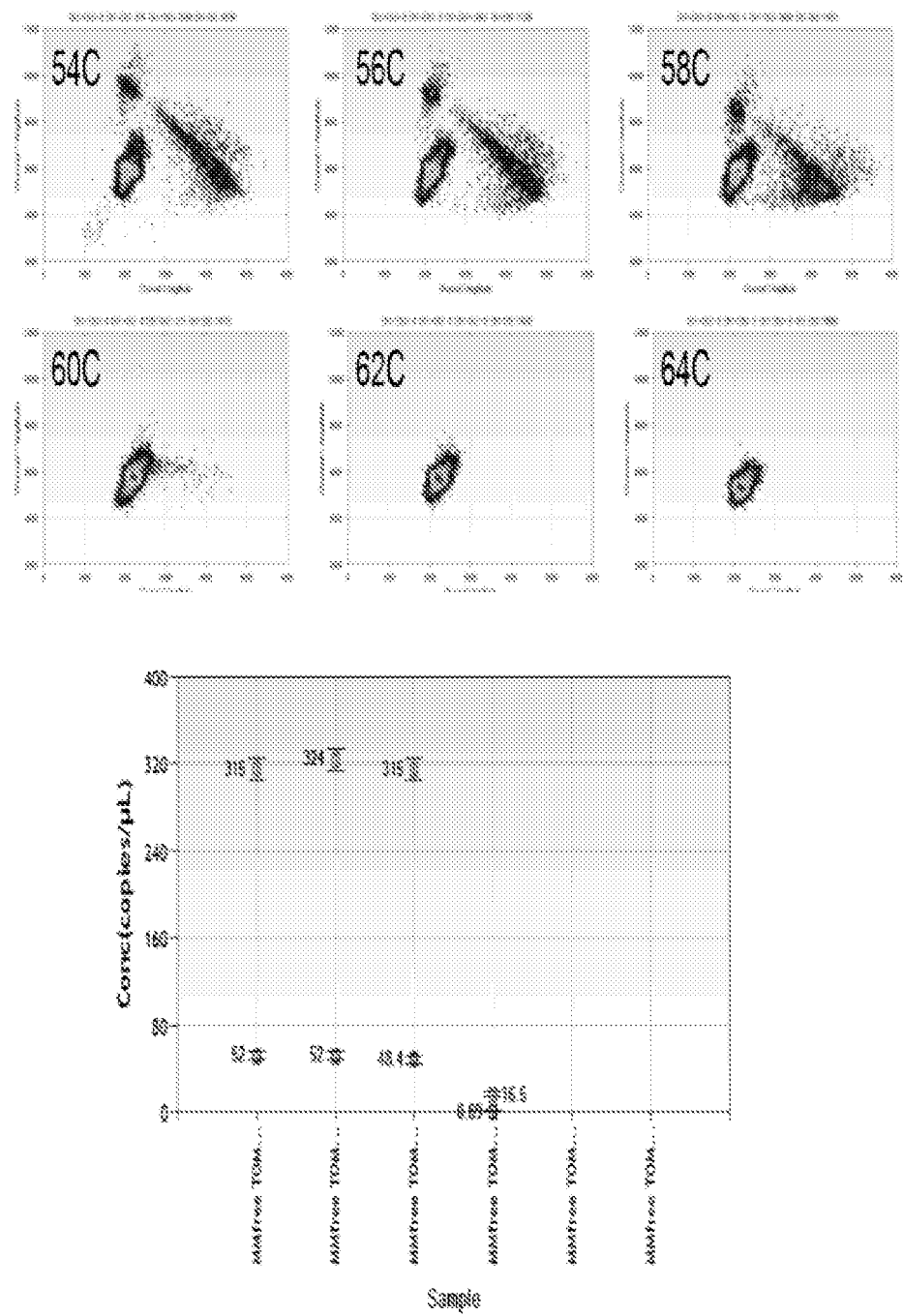


FIG. 25



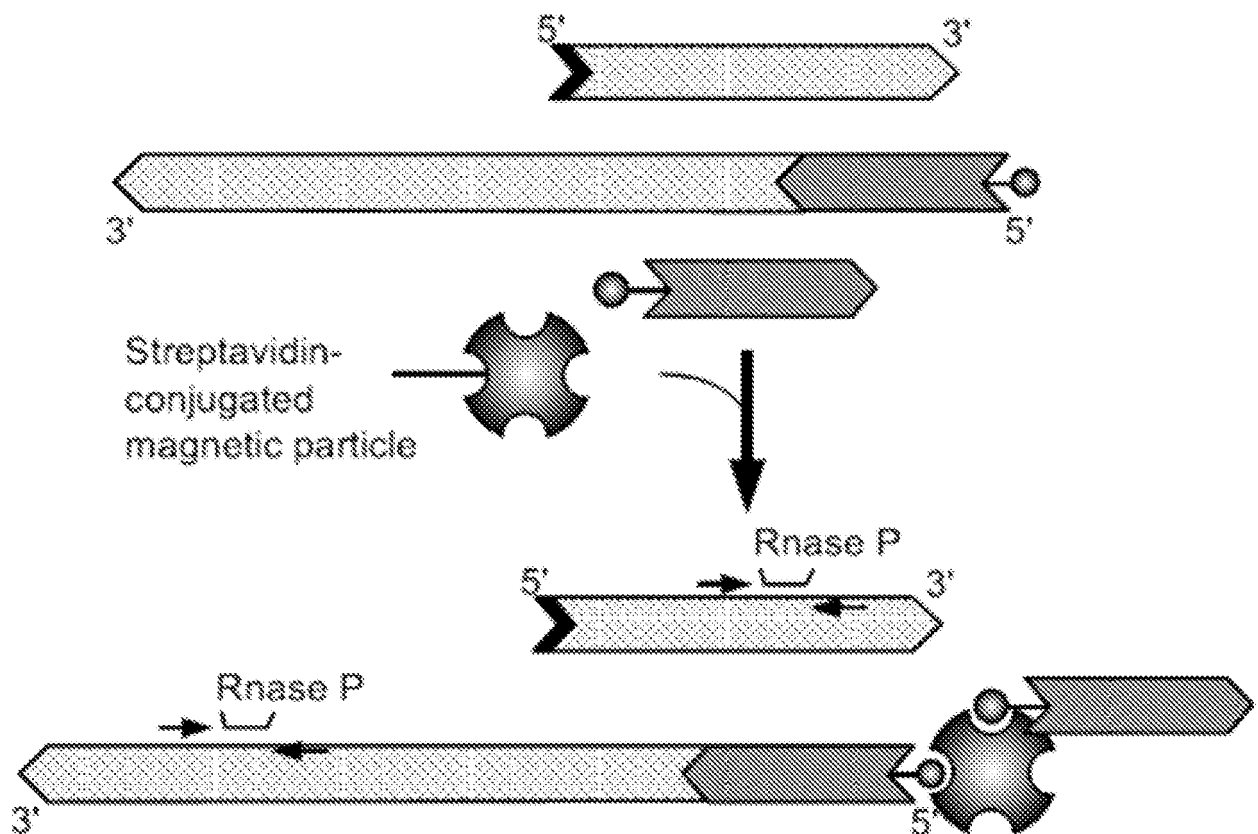


FIG. 27

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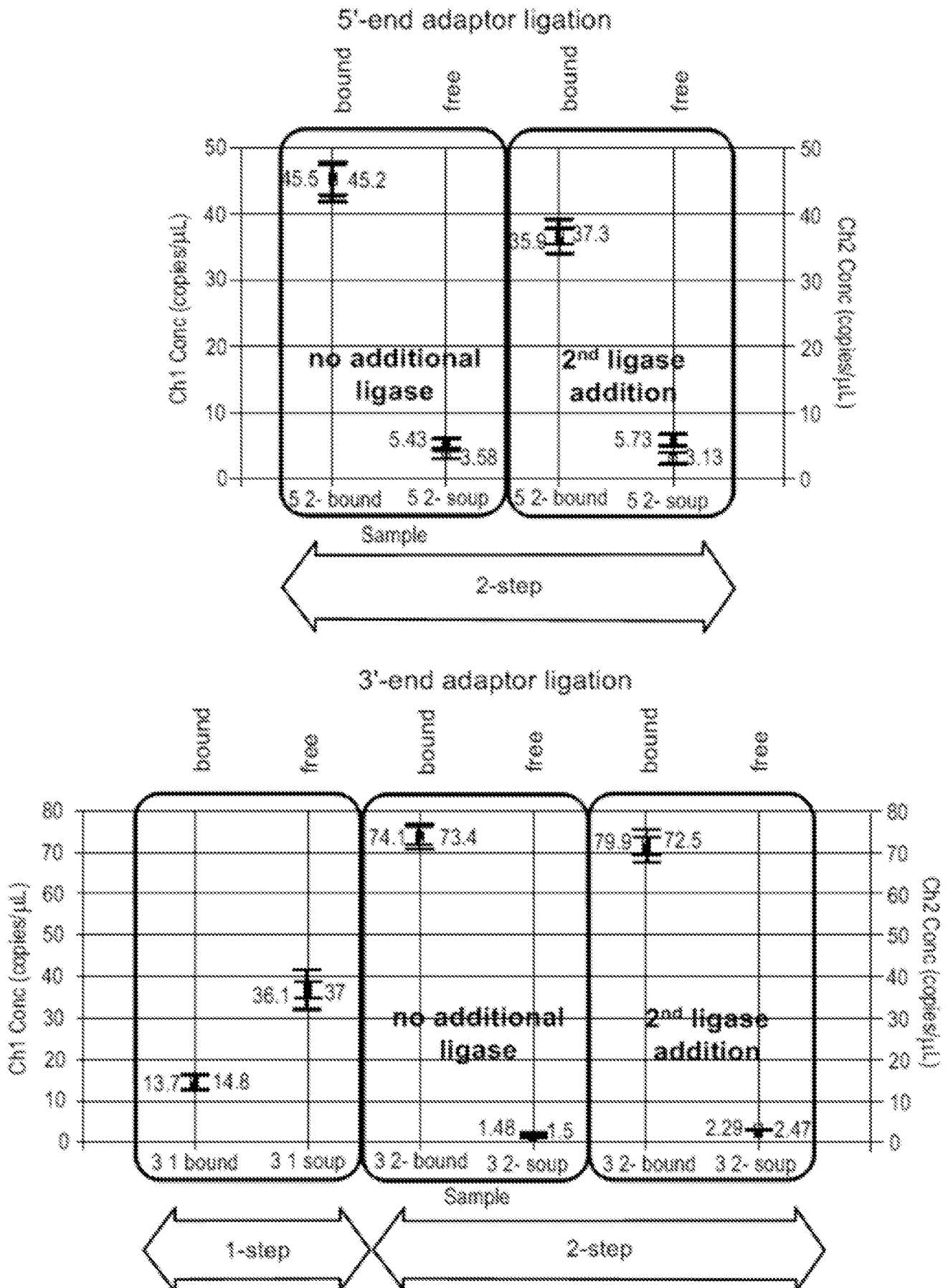


FIG. 28

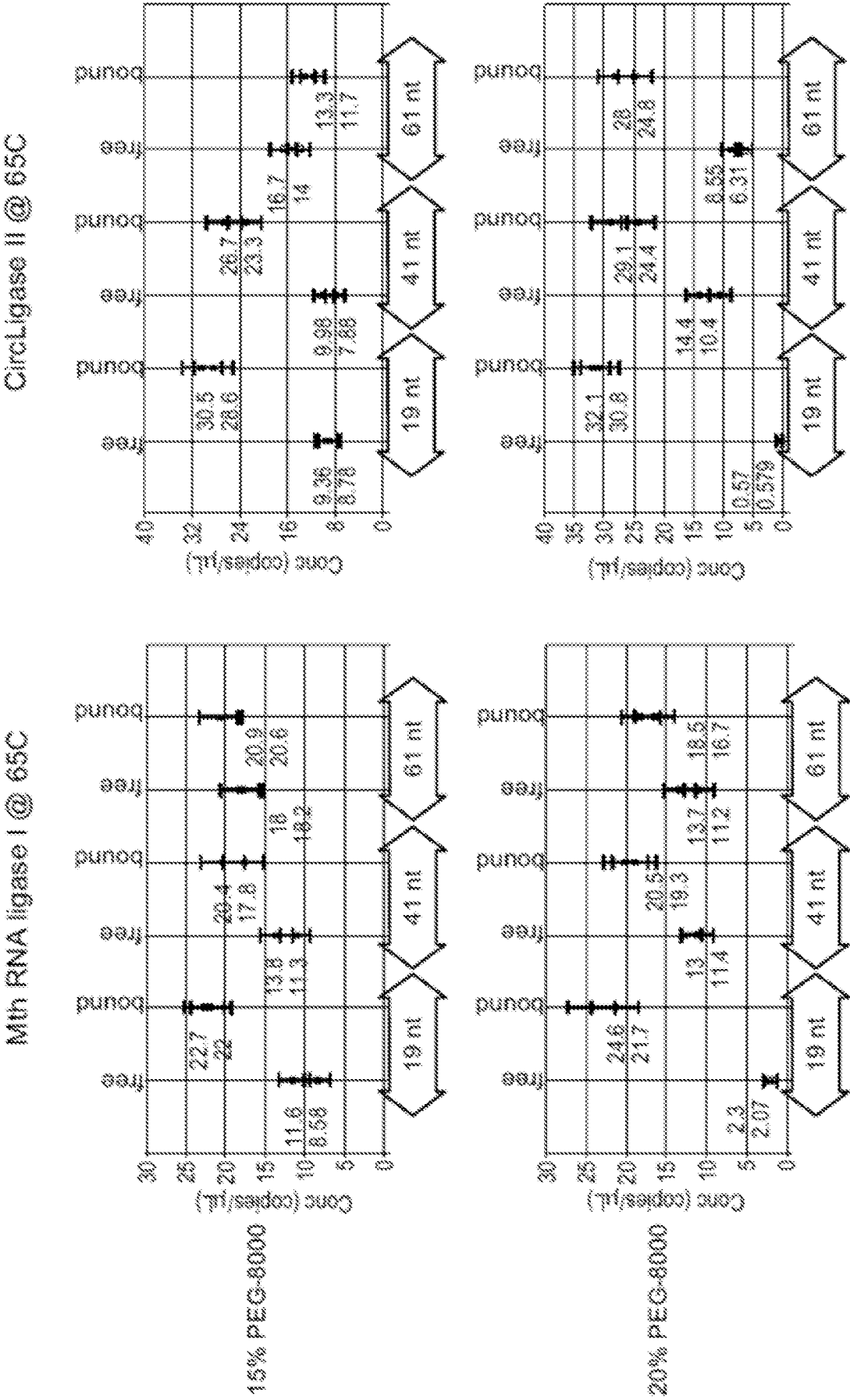


FIG. 29

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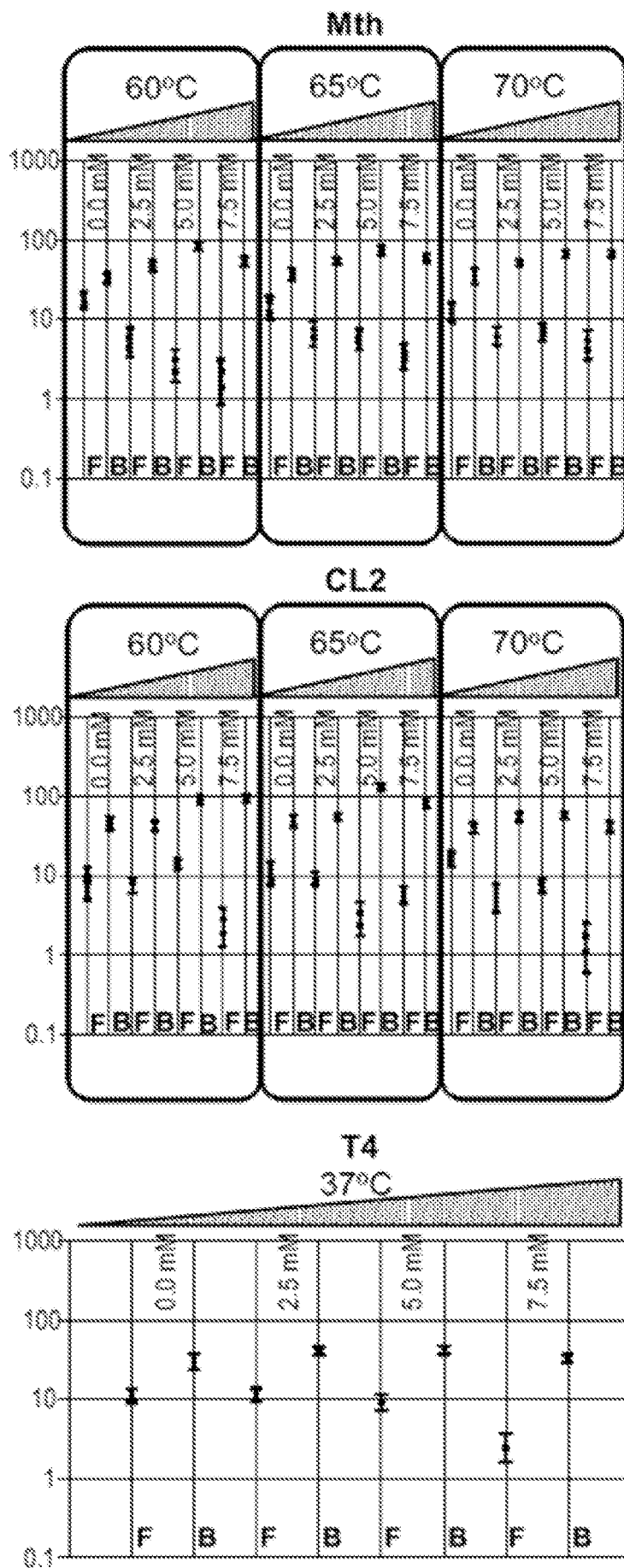


FIG. 30

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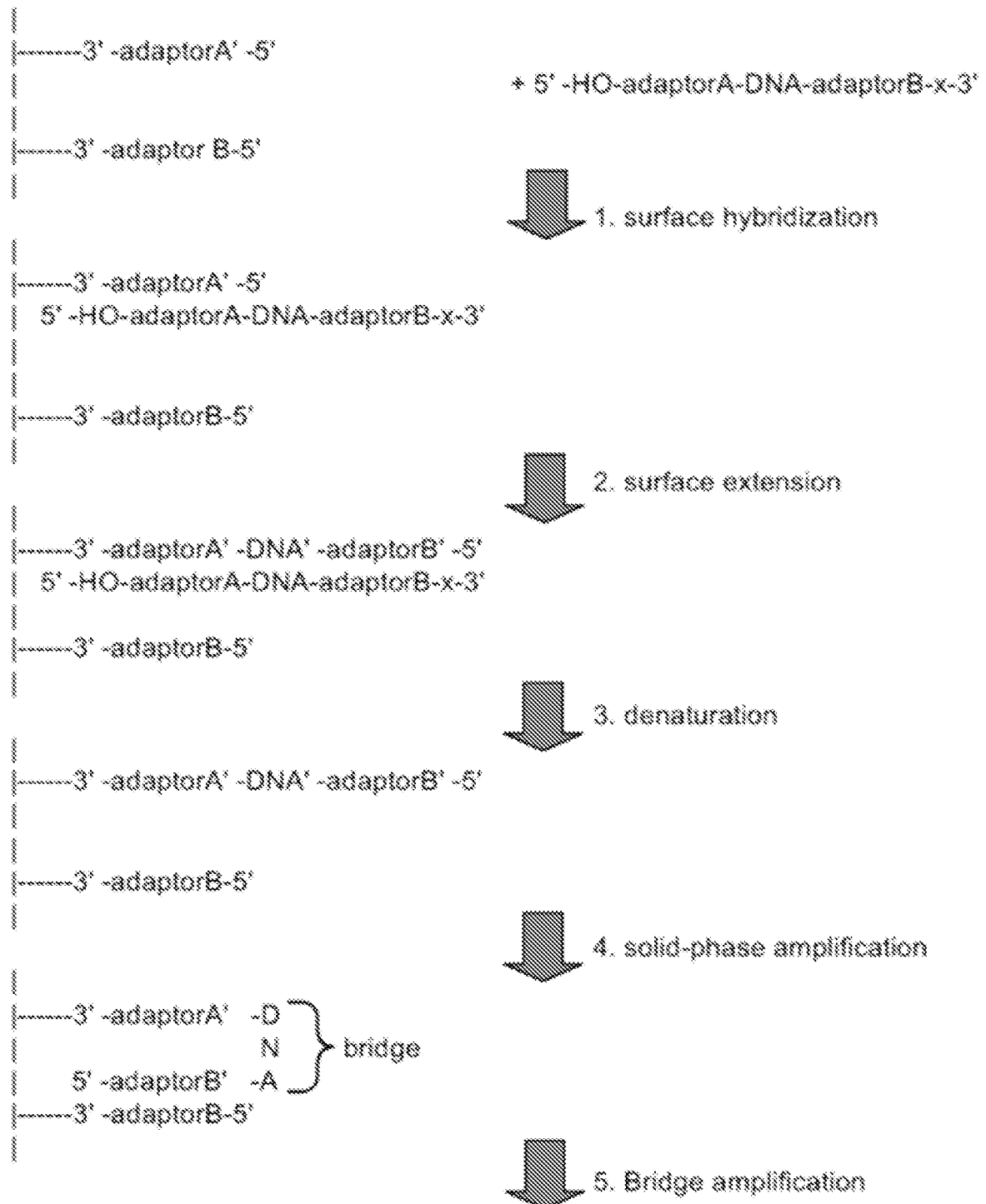


FIG. 31



FIG. 32

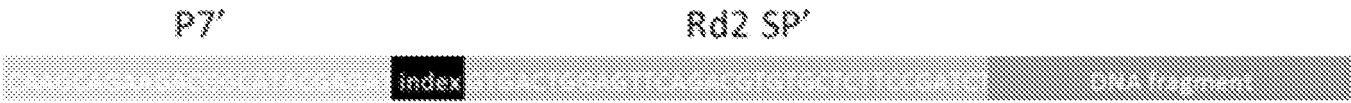
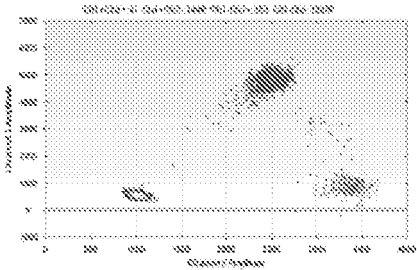


FIG. 33

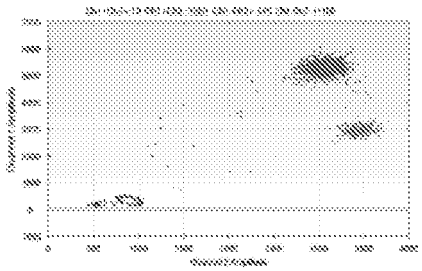
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A.

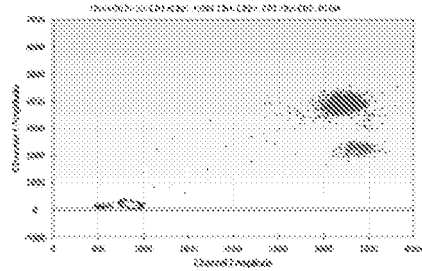


B.

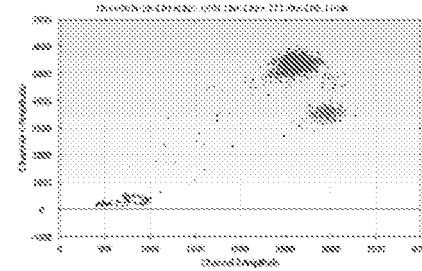
Wt probe: HEX-ACCCTGCAATAGCAGAAATAAAAGAAAAG-IBlkFq  
Mu probe: FAM-ACCCTGCAATAGCATAATAAAAGAAAAG-IBlkFq



Wt probe: MGB-AP525-TTATTTCTGCTATTTG  
Mu probe: MGB-FAM-TTTATTTATGCTATT\*T\*G

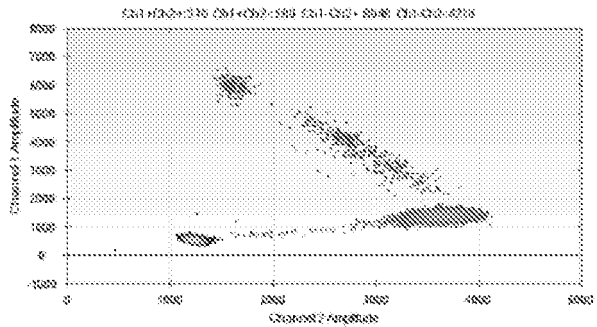


Wt probe: MGB-AP525-TTATTTCTGCTAT\*T\*T\*G  
Mu probe: MGB-FAM-TTTATTTATGCTA\*TTT\*GC

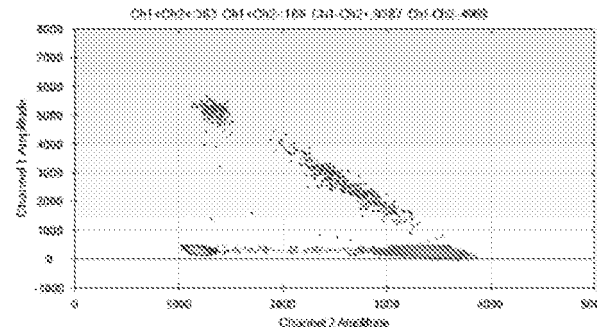


Wt probe: MGB-AP525-TTATTTCTGCTAT\*T\*T\*GC  
Mu probe: MGB-FAM-TTTAT\*T\*TATGCTA\*TTT\*GC

C.



Wt probe: MGB-AP525-TTATTT CTGCT  
Mu probe: MGB-FAM-TTATT\*T ATGCT\*



Wt probe: MGB-AP525-TTATTT CTGC  
Mu probe: MGB-FAM-TTATT\*T ATGC

FIG. 34A-C

D.

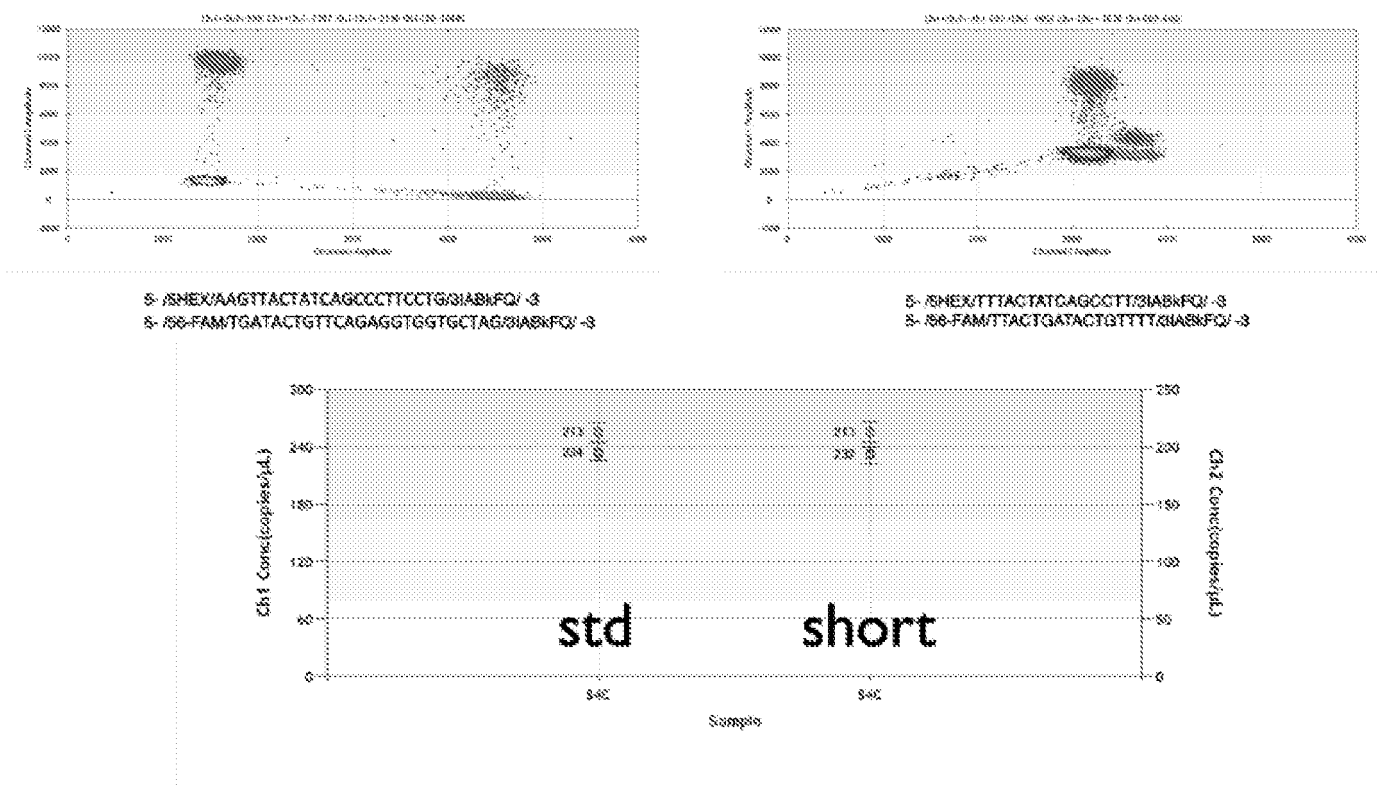


FIG. 34D

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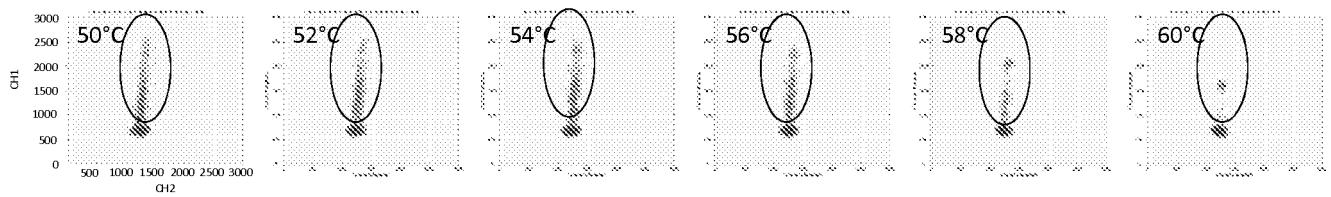
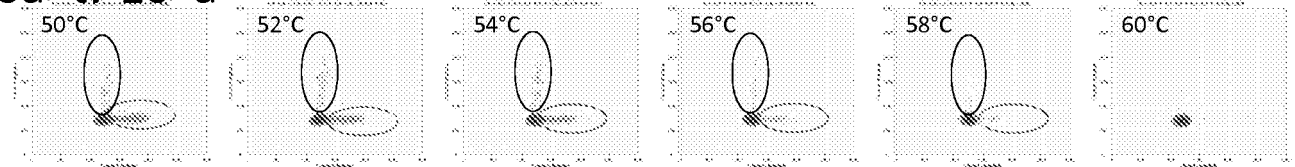
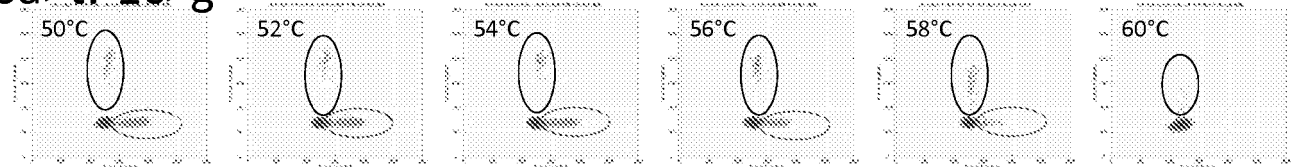
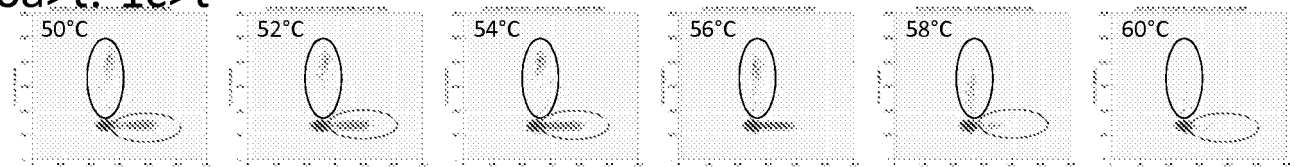
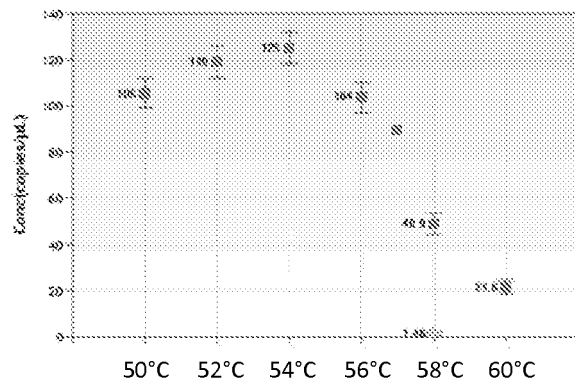
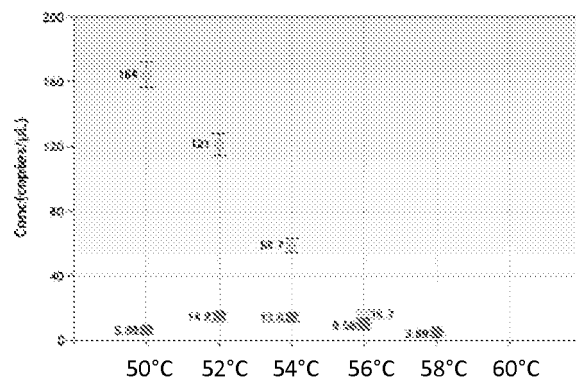
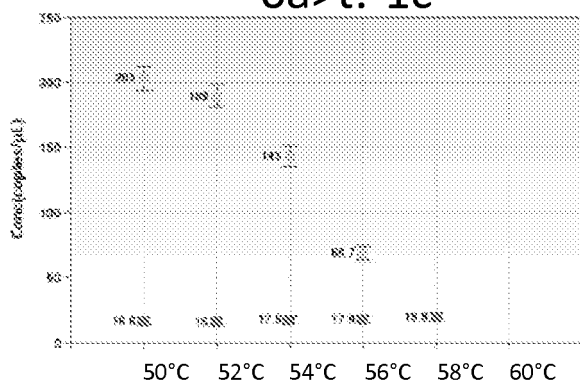
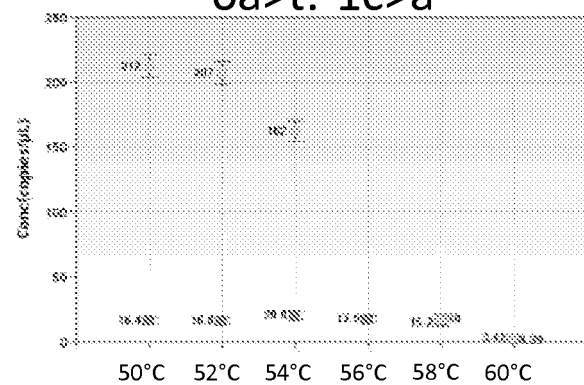
**A****0a>t:-1c****0a>t:-1c>a****0a>t:-1c>g****0a>t:-1c>t****B****0a>t:-1c****0a>t:-1c>a****0a>t:-1c>g****0a>t:-1c>t**

FIG. 35

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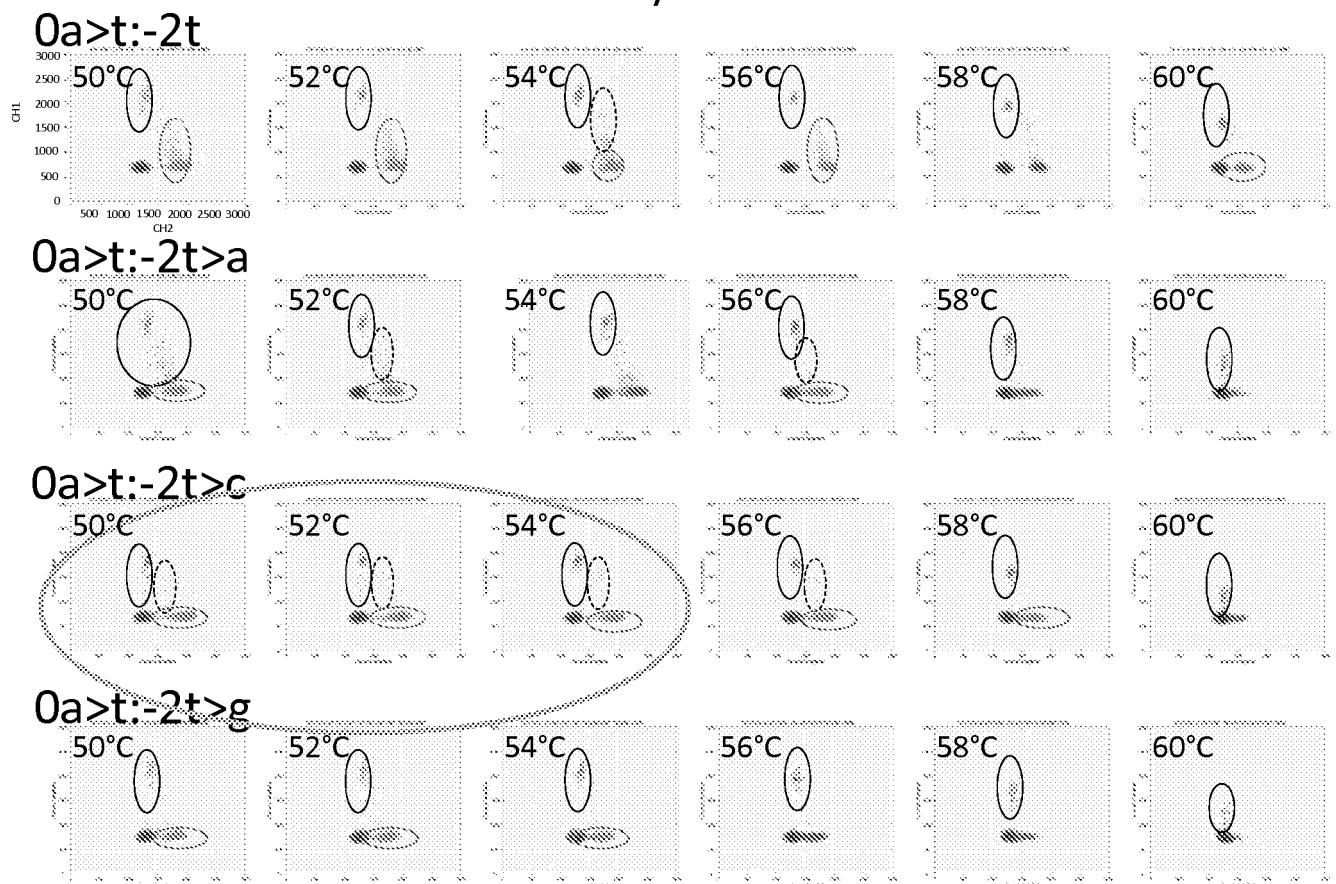
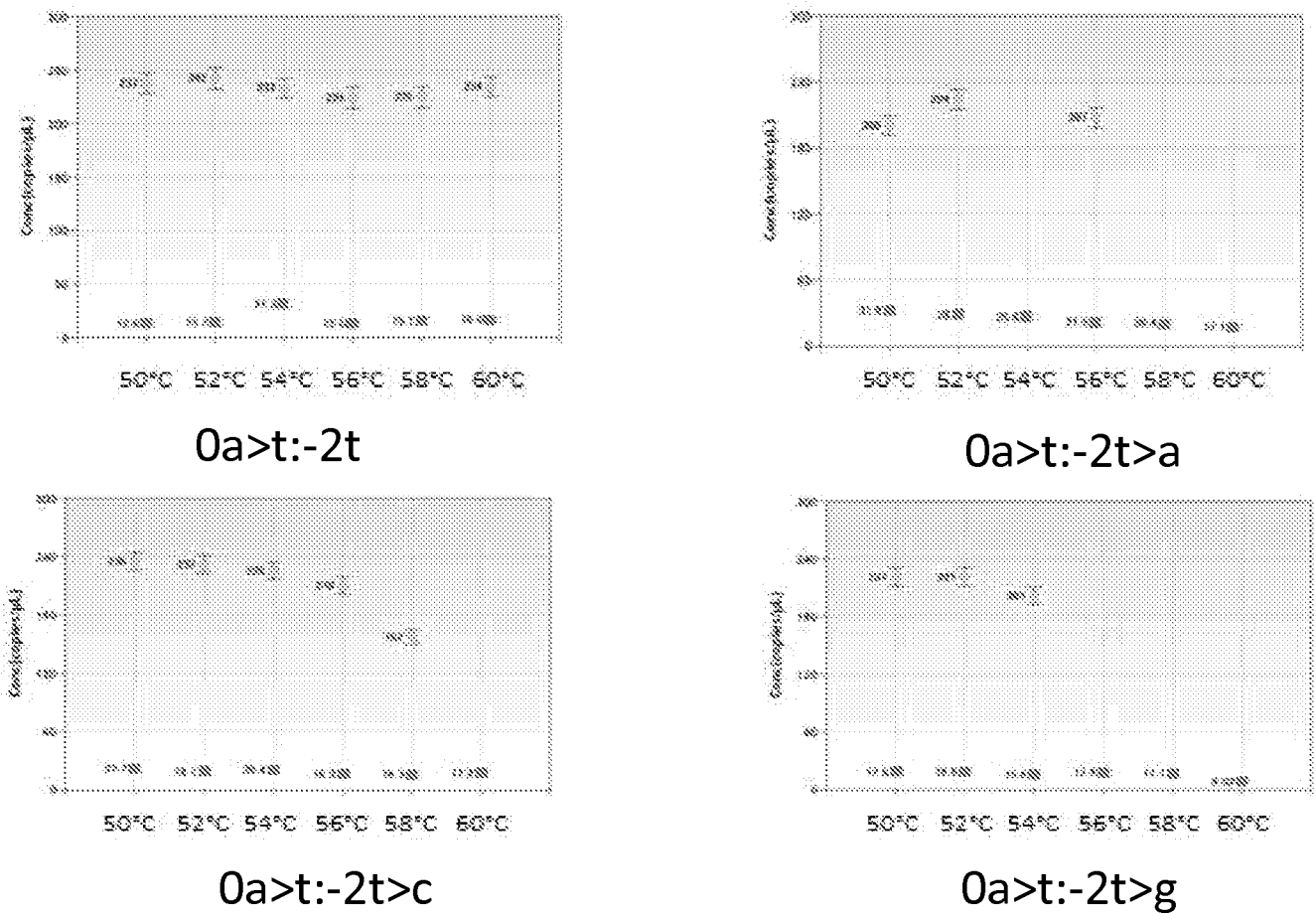
**A****B**

FIG. 36

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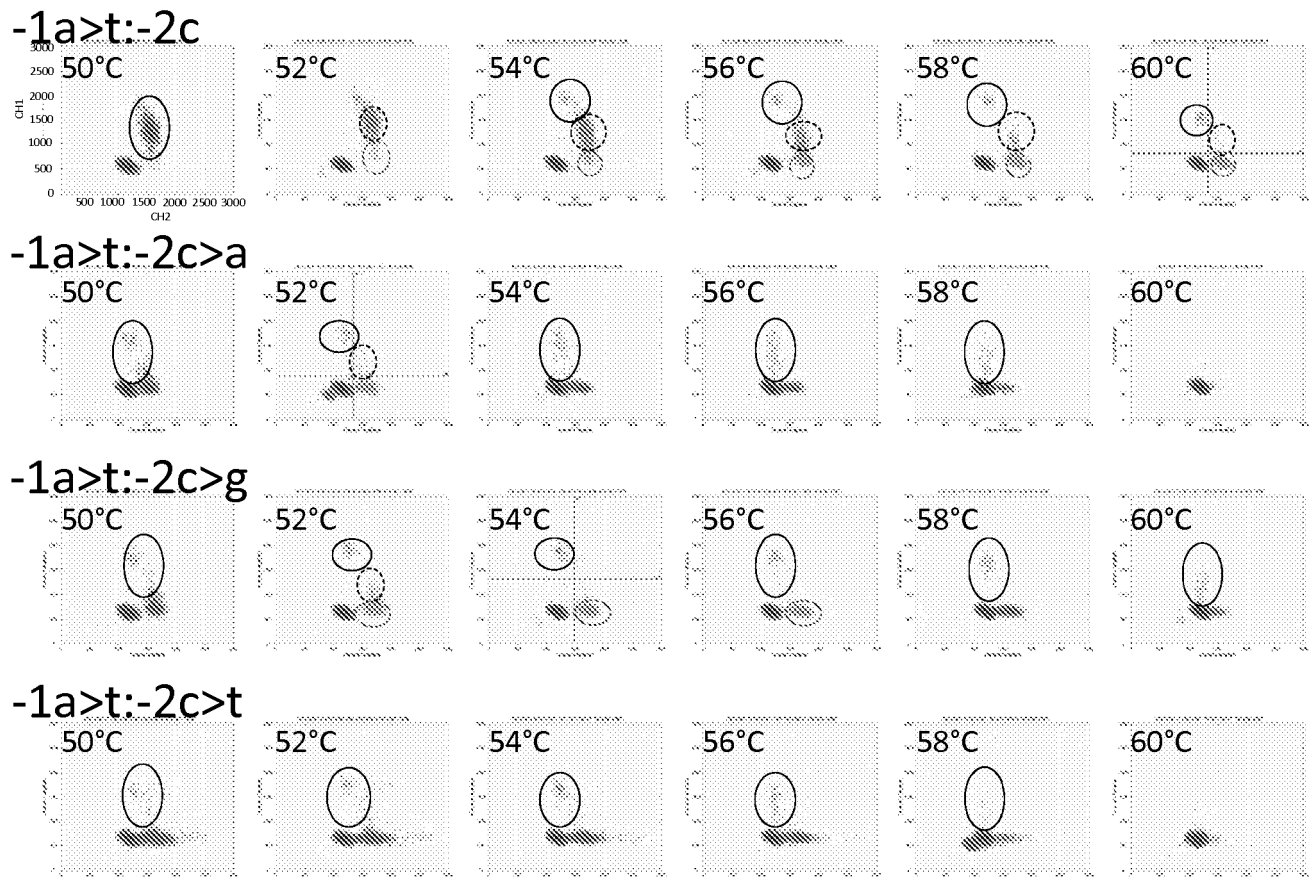
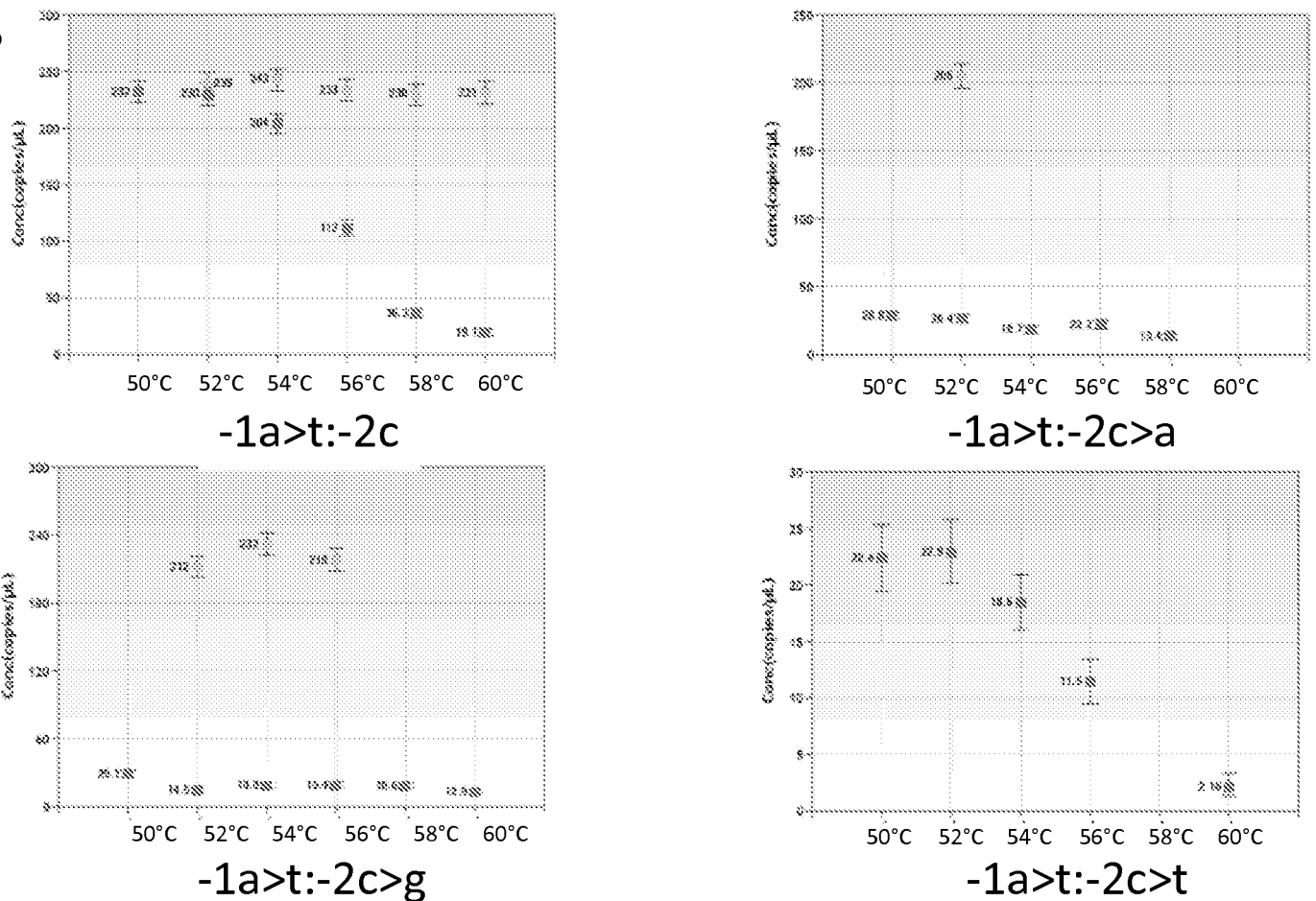
**A****B**

FIG. 37

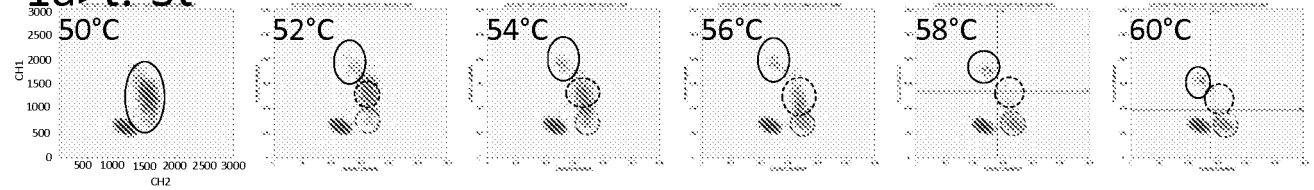
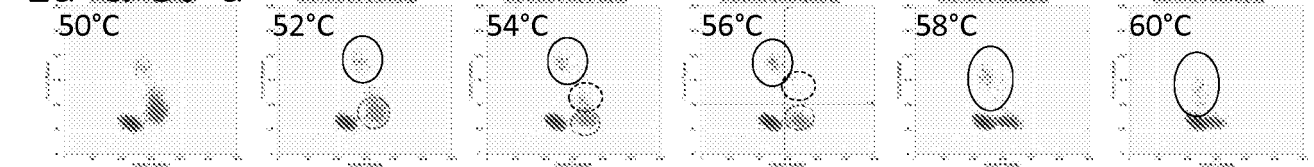
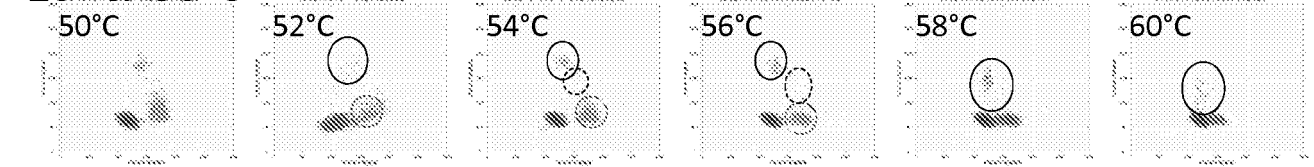
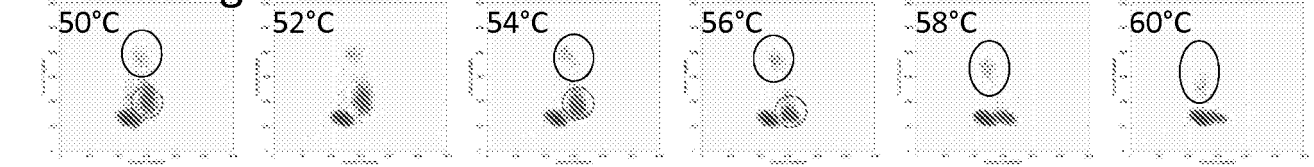
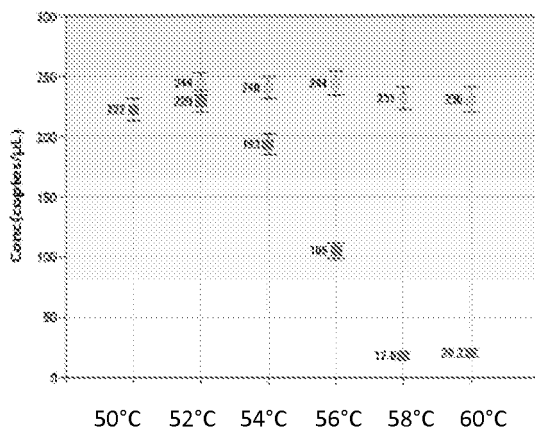
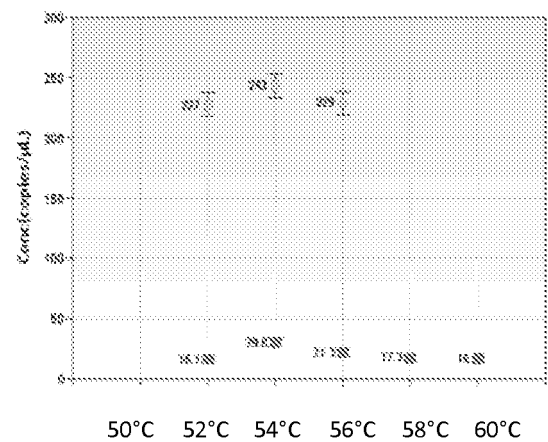
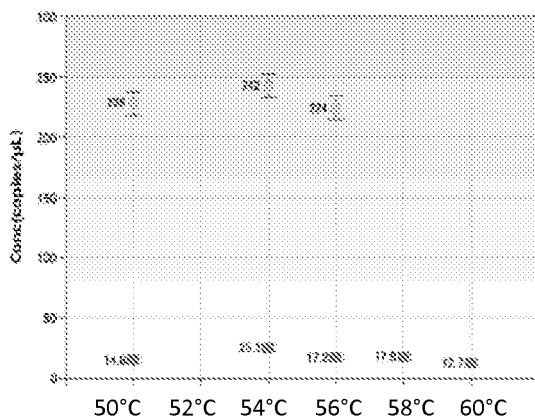
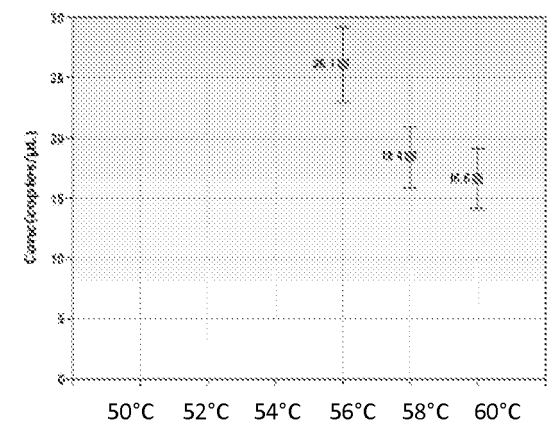
**A****-1a>t:-3t****-1a>t:-3t>a****-1a>t:-3t>c****-1a>t:-3t>g****B****-1a>t:-3t****-1a>t:-3t>a****-1a>t:-3t>c****-1a>t:-3t>g**

FIG. 38

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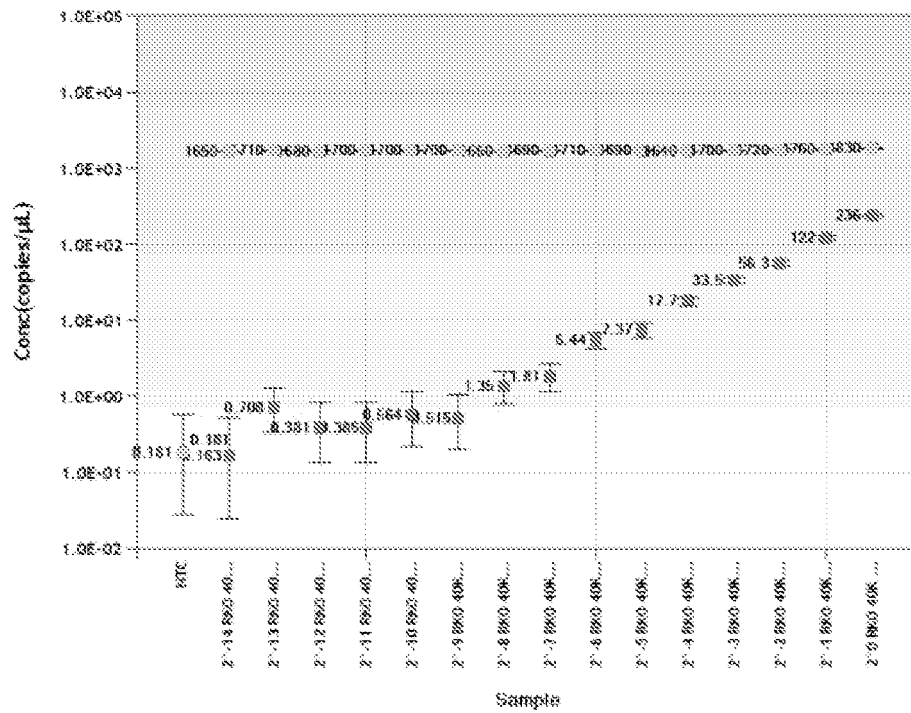


FIG. 39

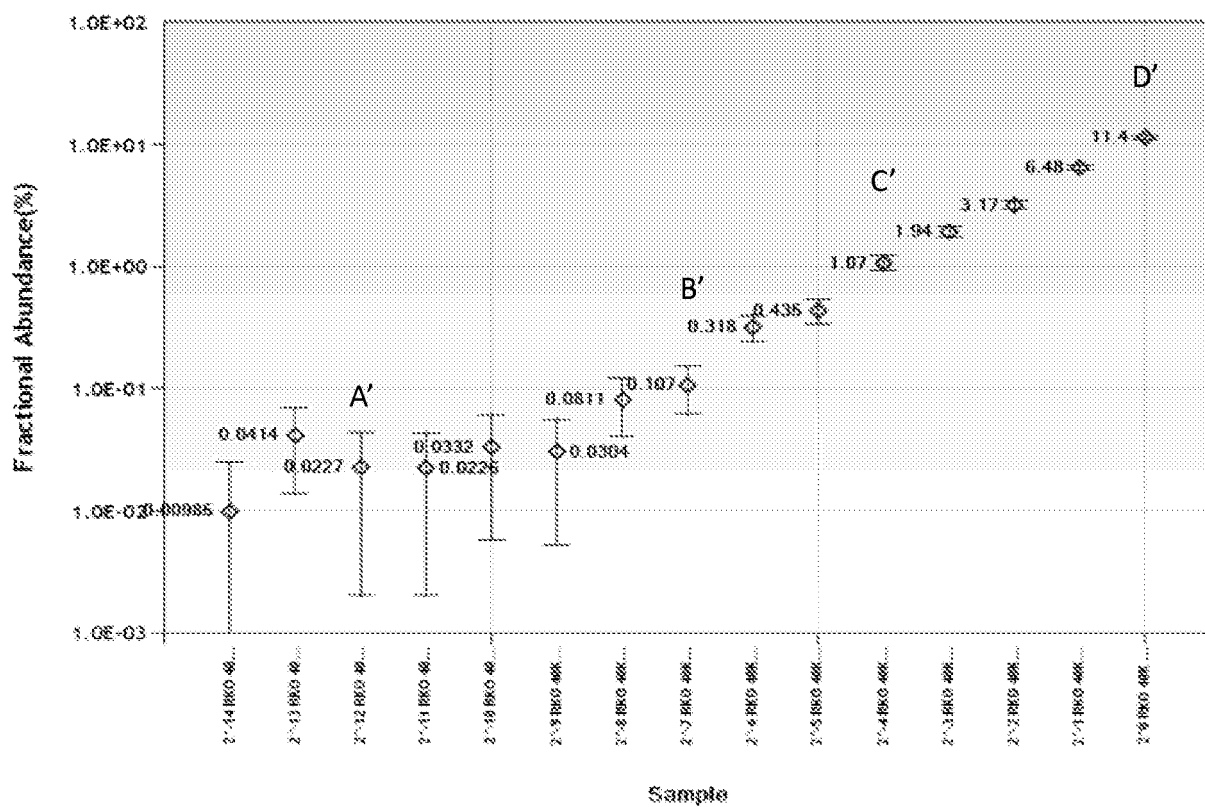
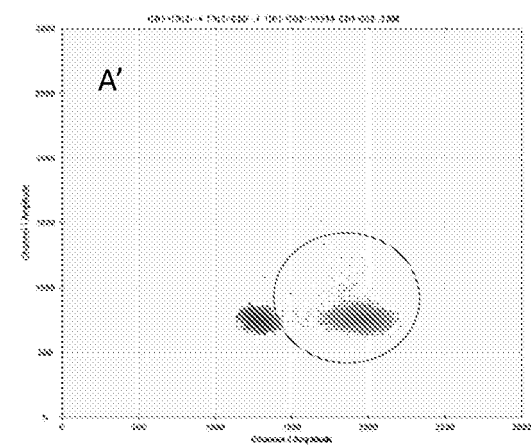
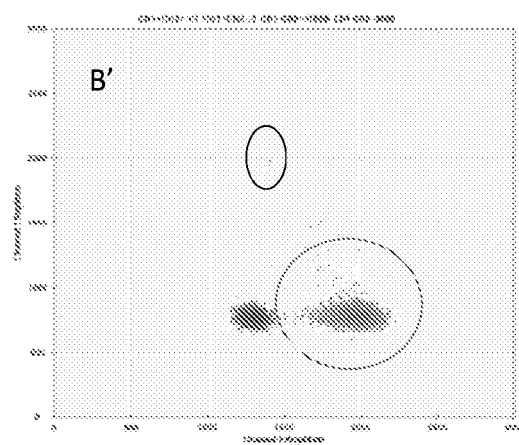
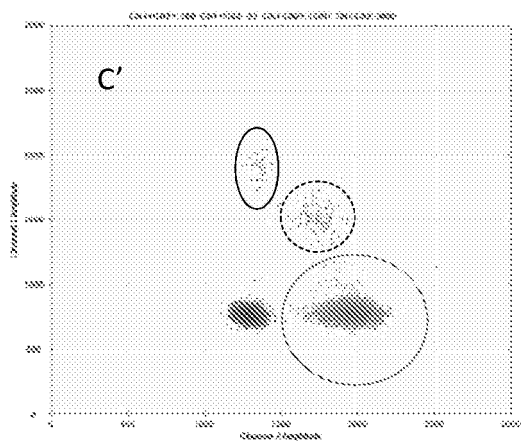
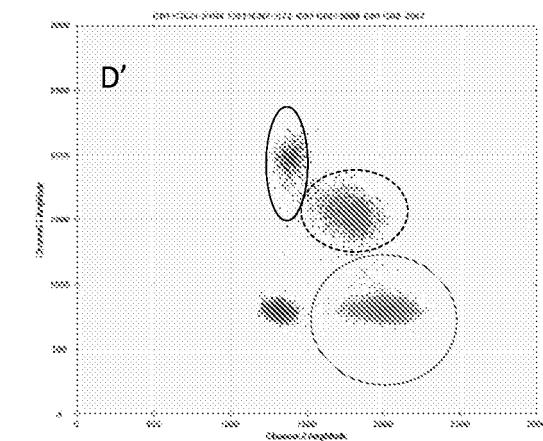


FIG. 40

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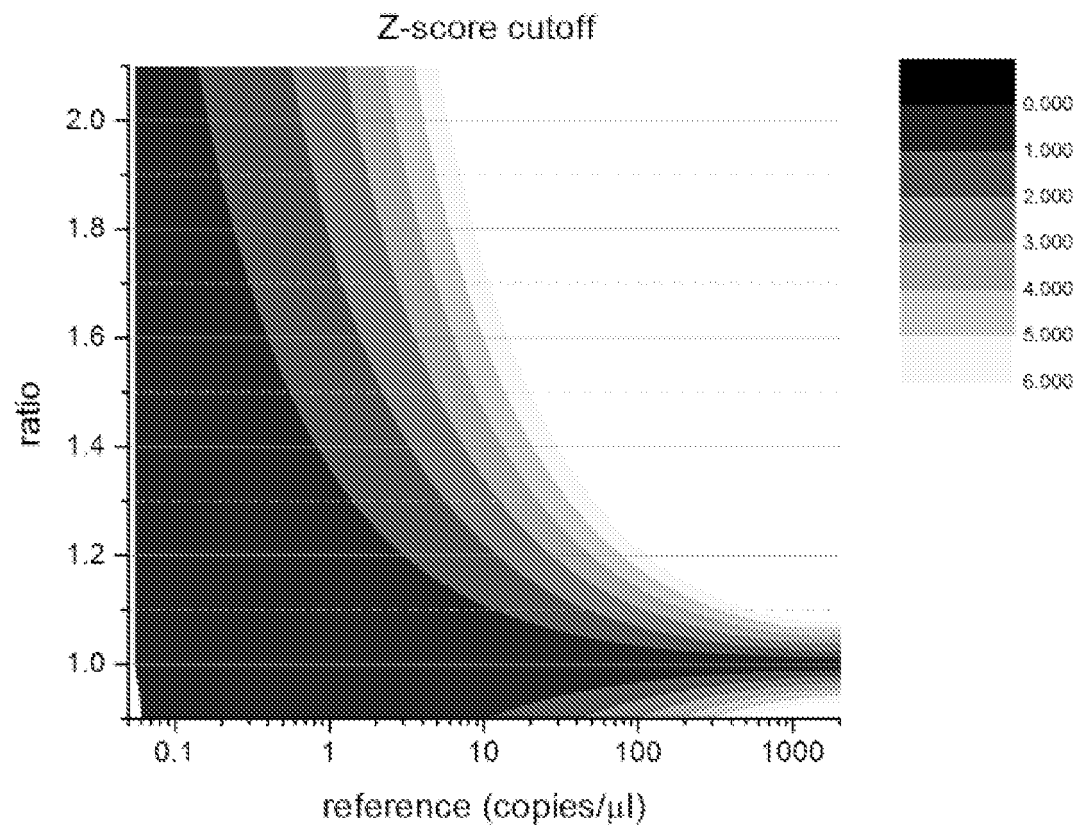
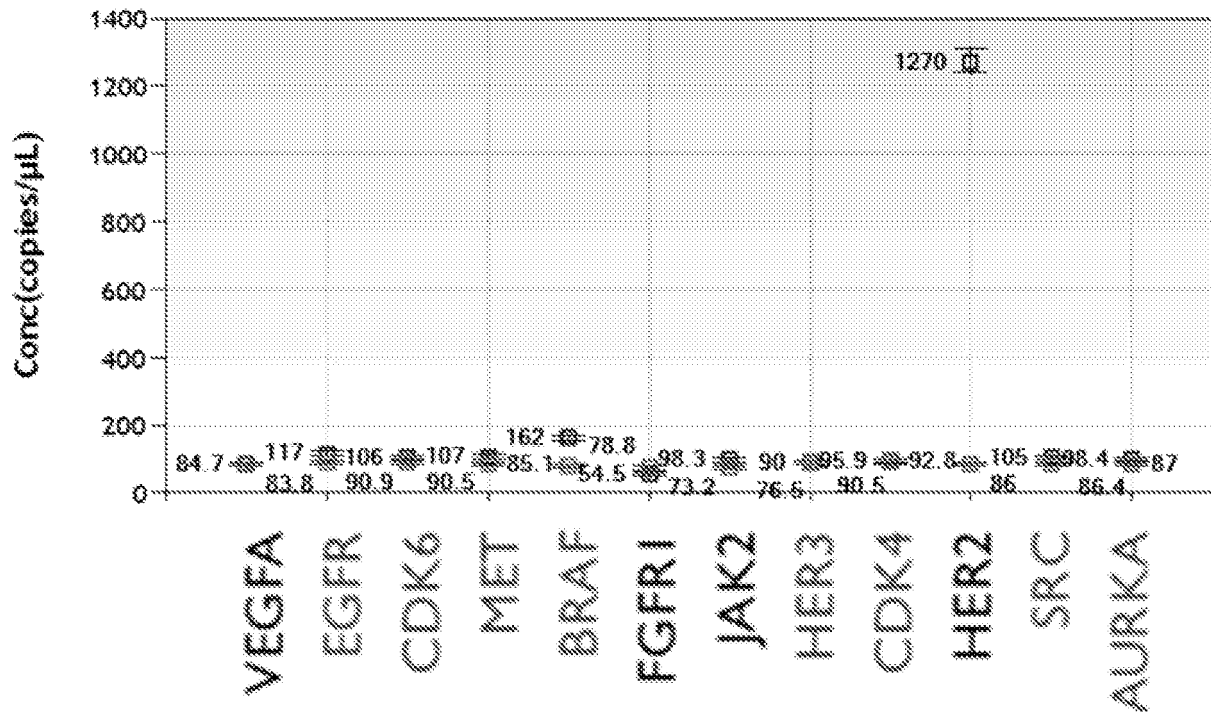


FIG. 41

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A



B

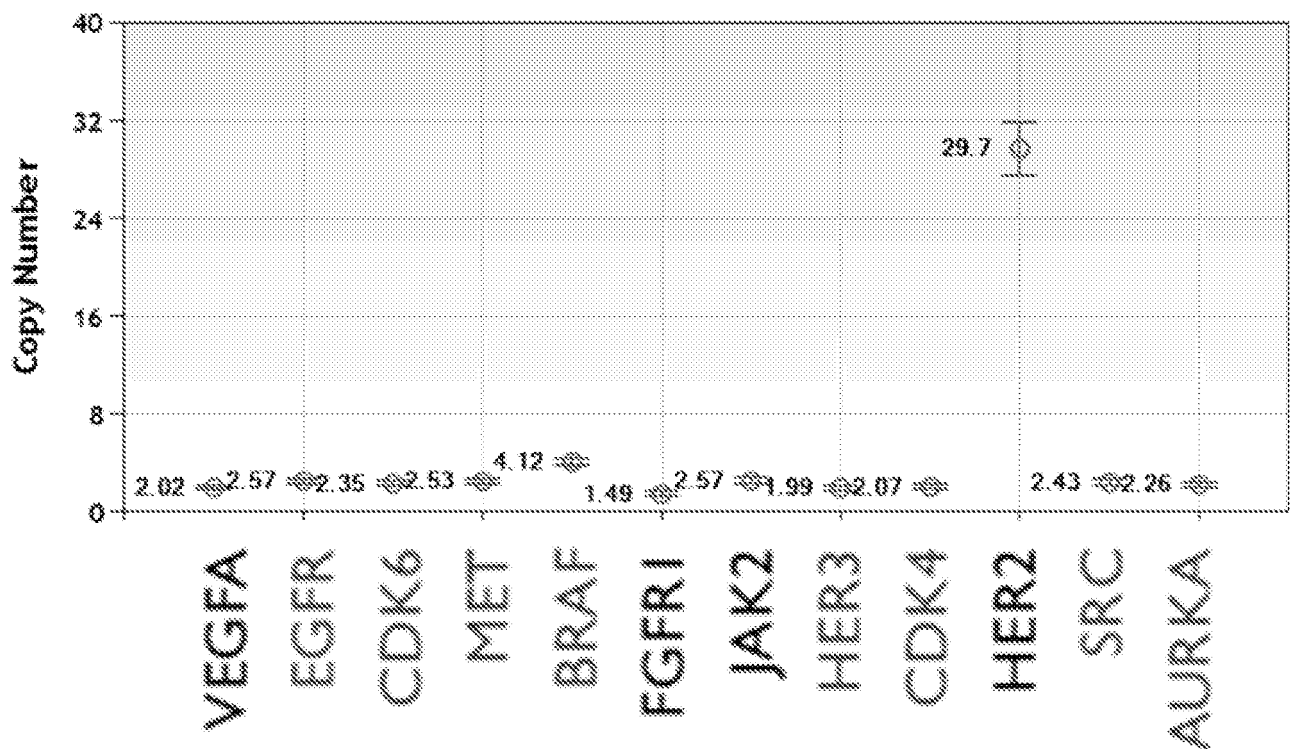


FIG. 42

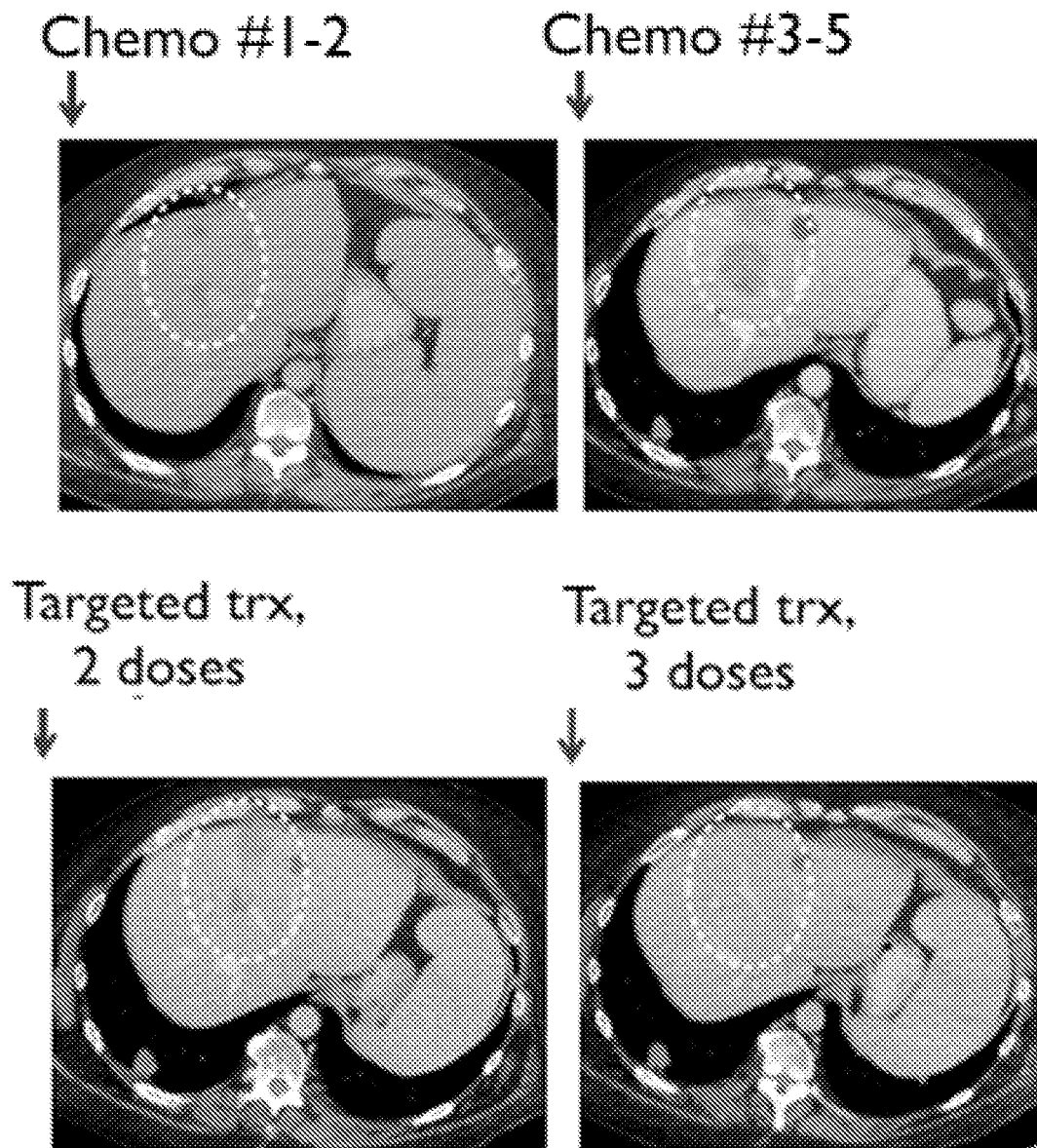


FIG. 43

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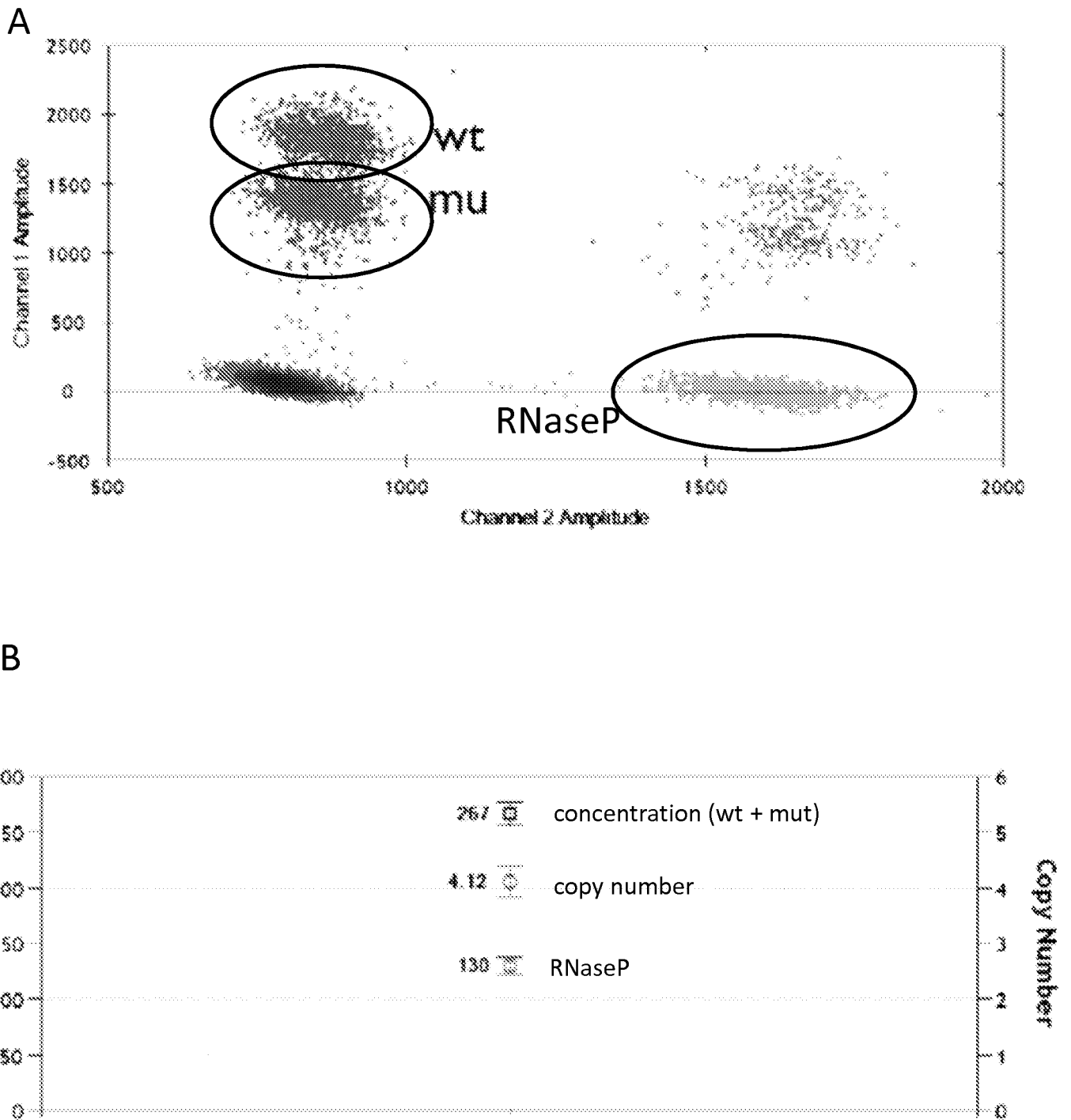


FIG. 44