

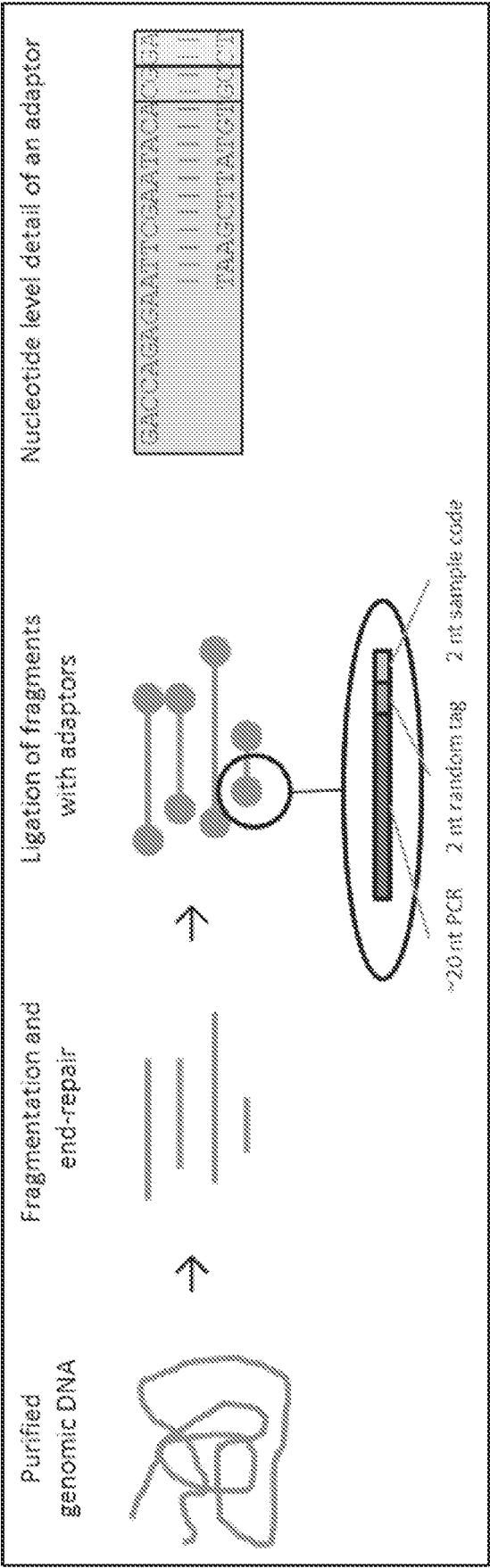


FIG. 1

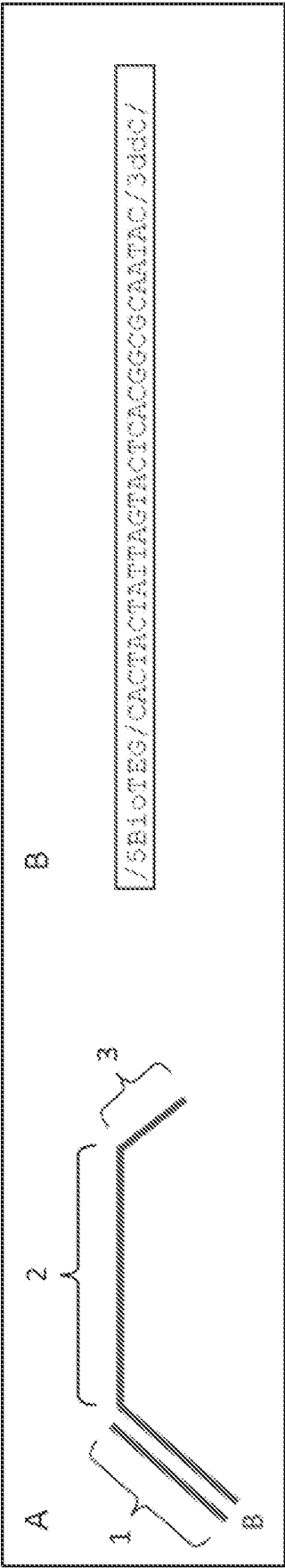


FIG. 2

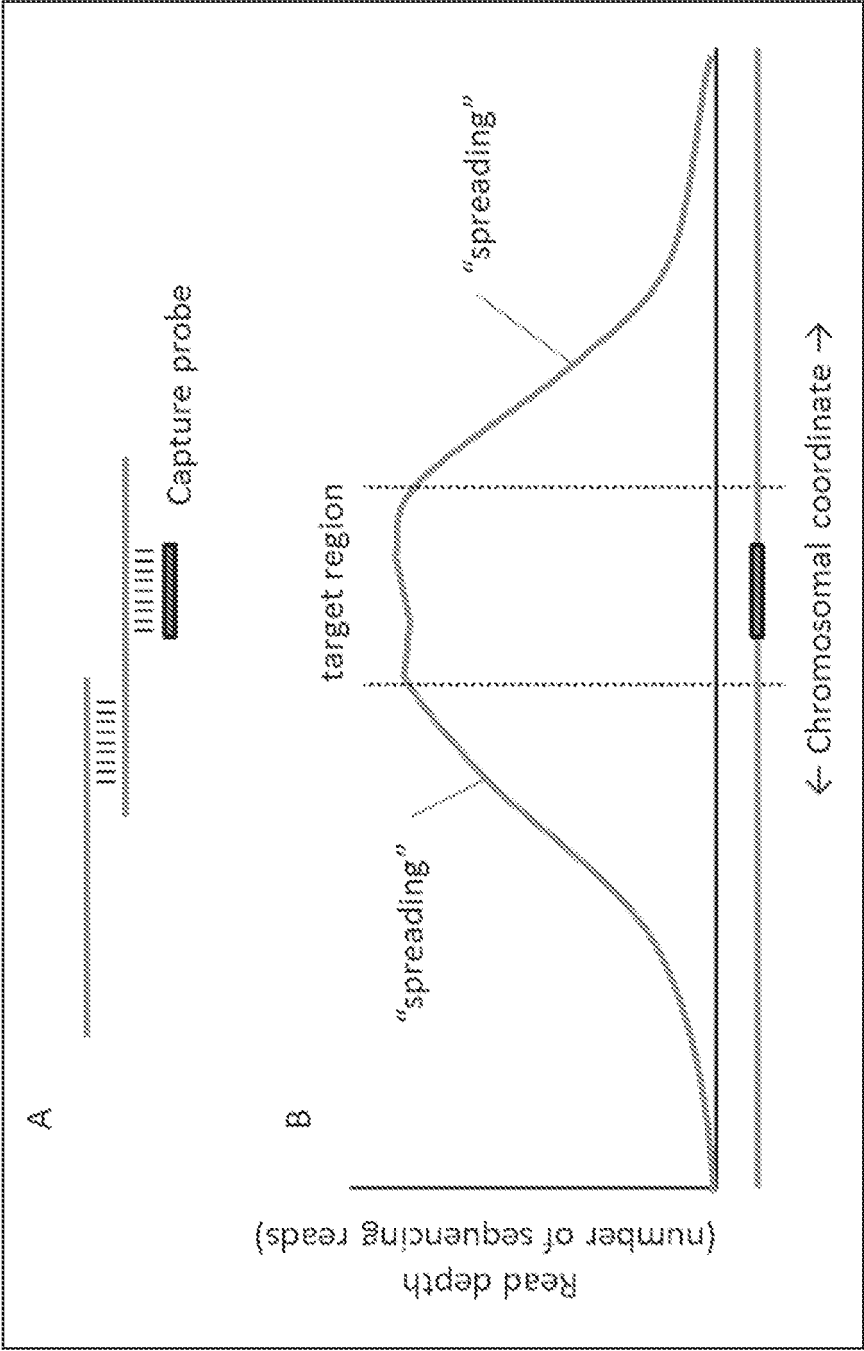


FIG. 3

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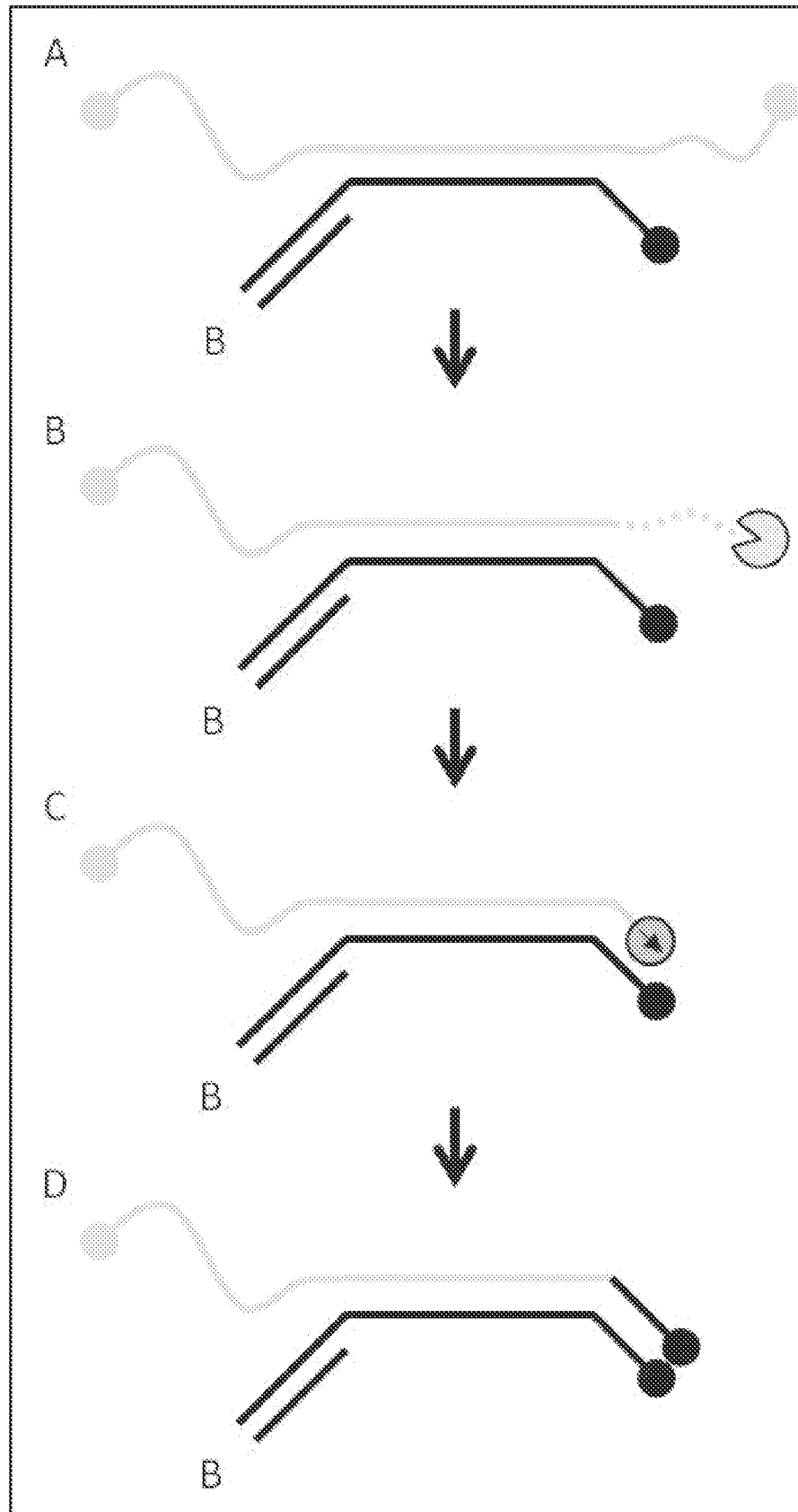


FIG. 4

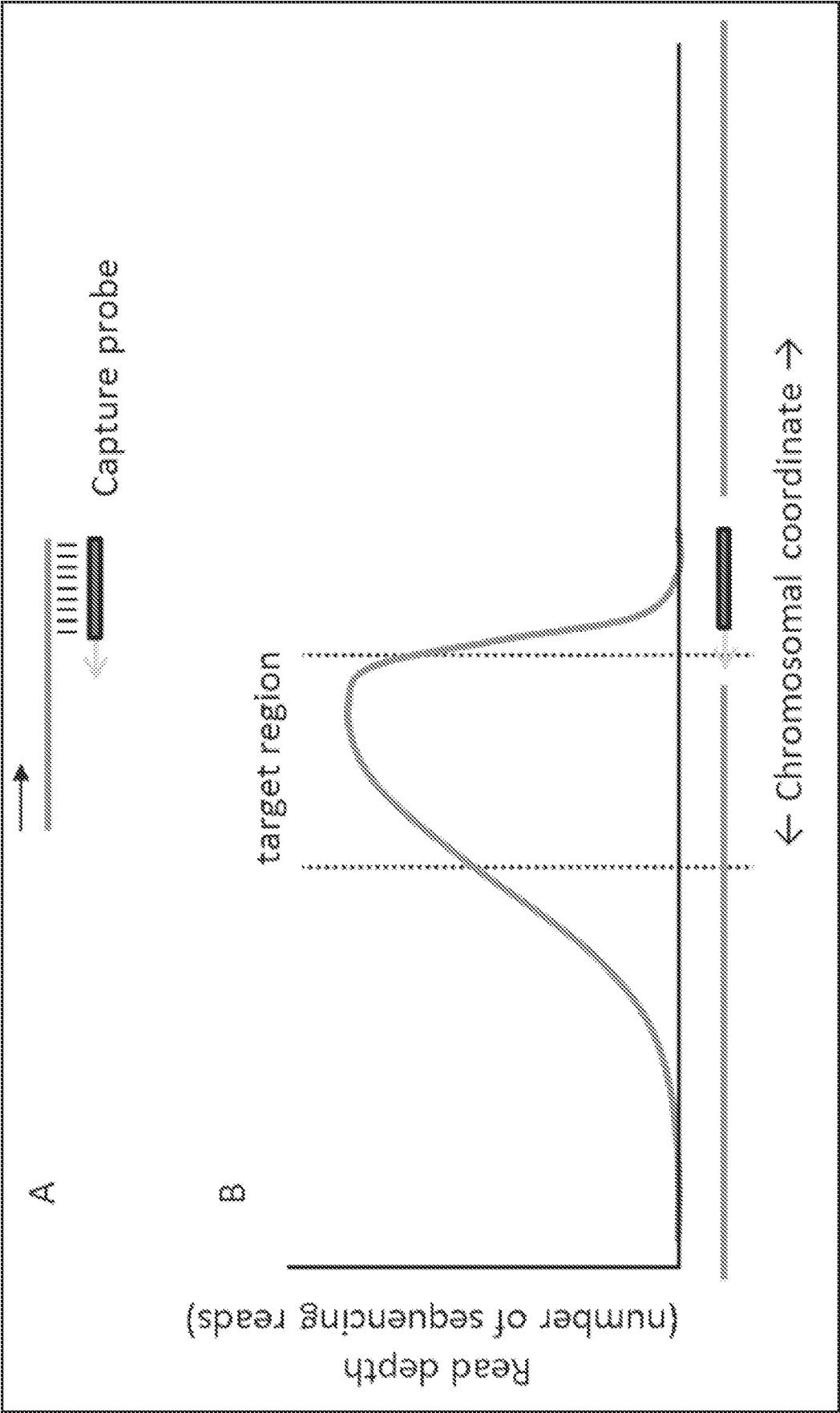


FIG. 5

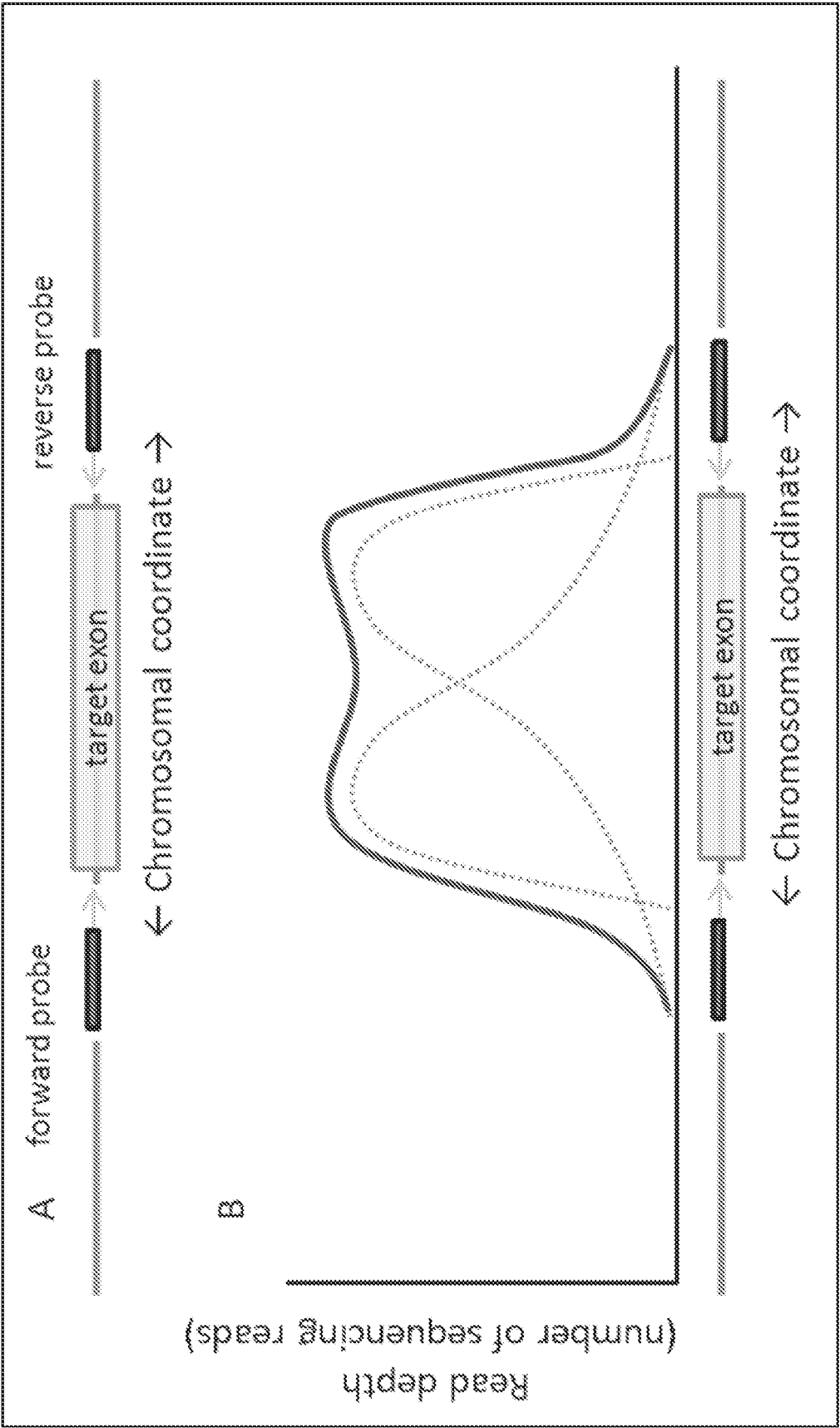


FIG. 6

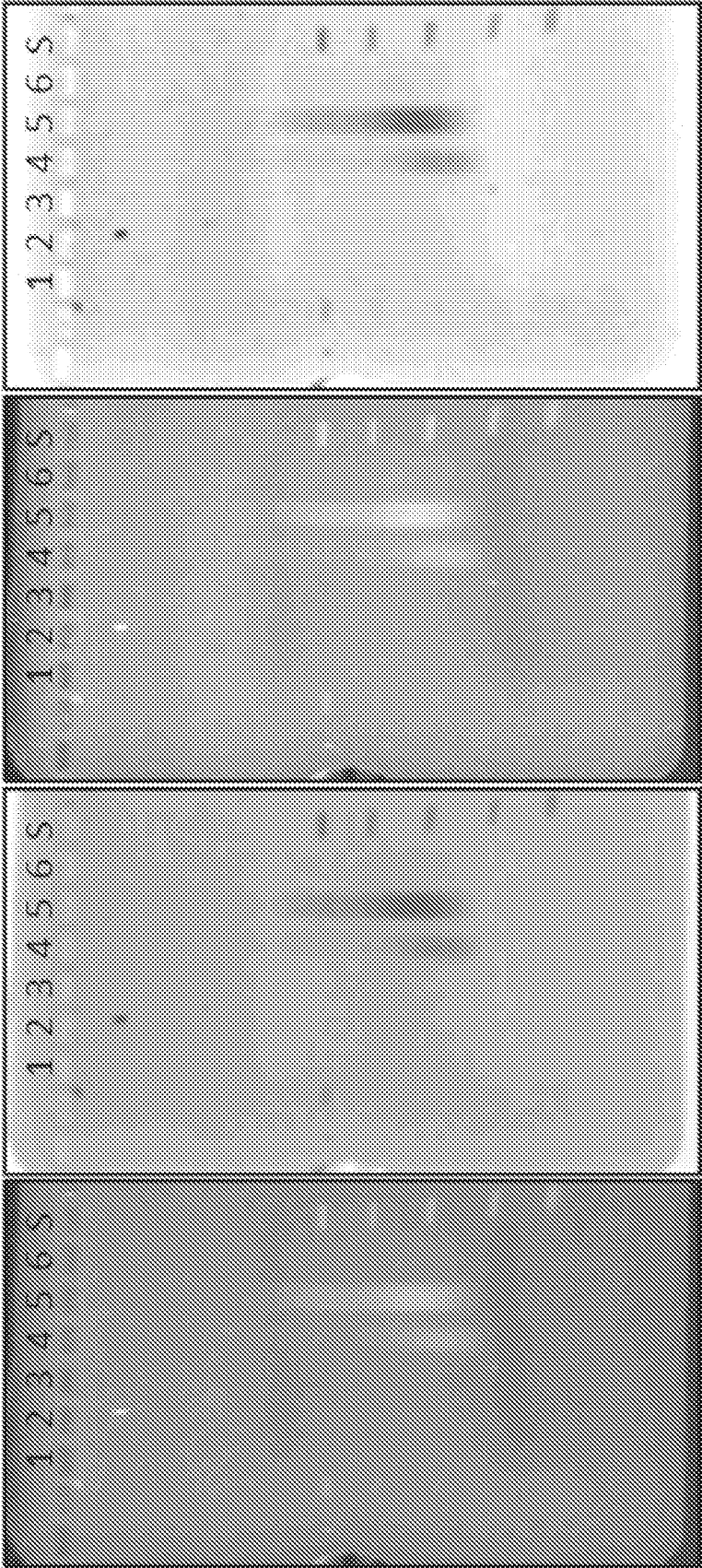


FIG. 7

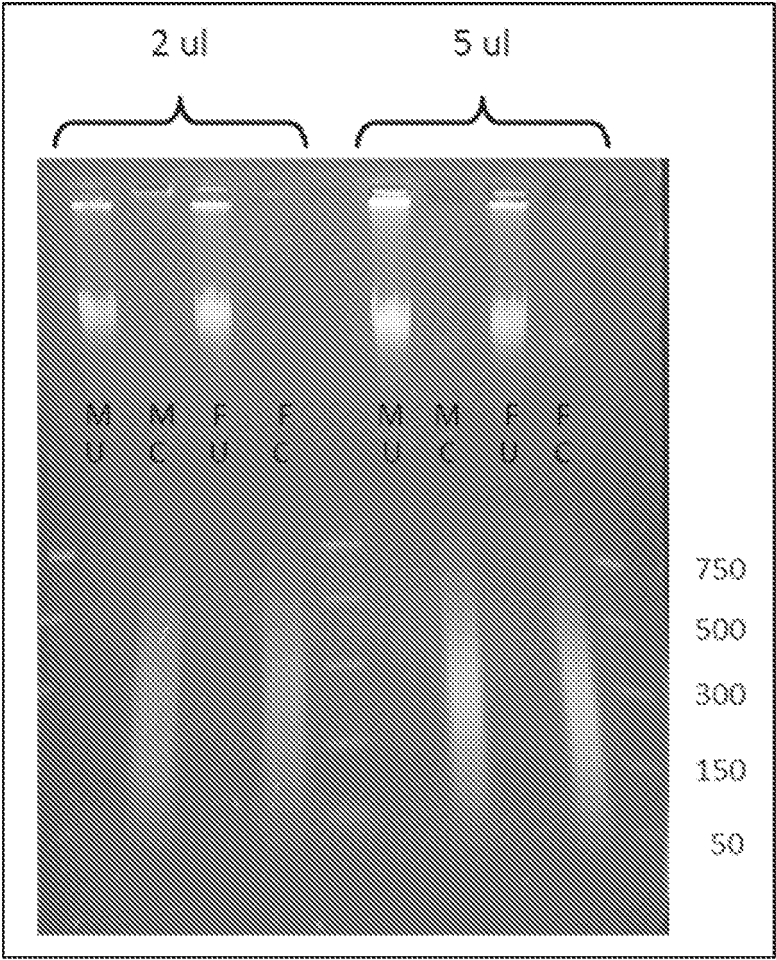


FIG. 8

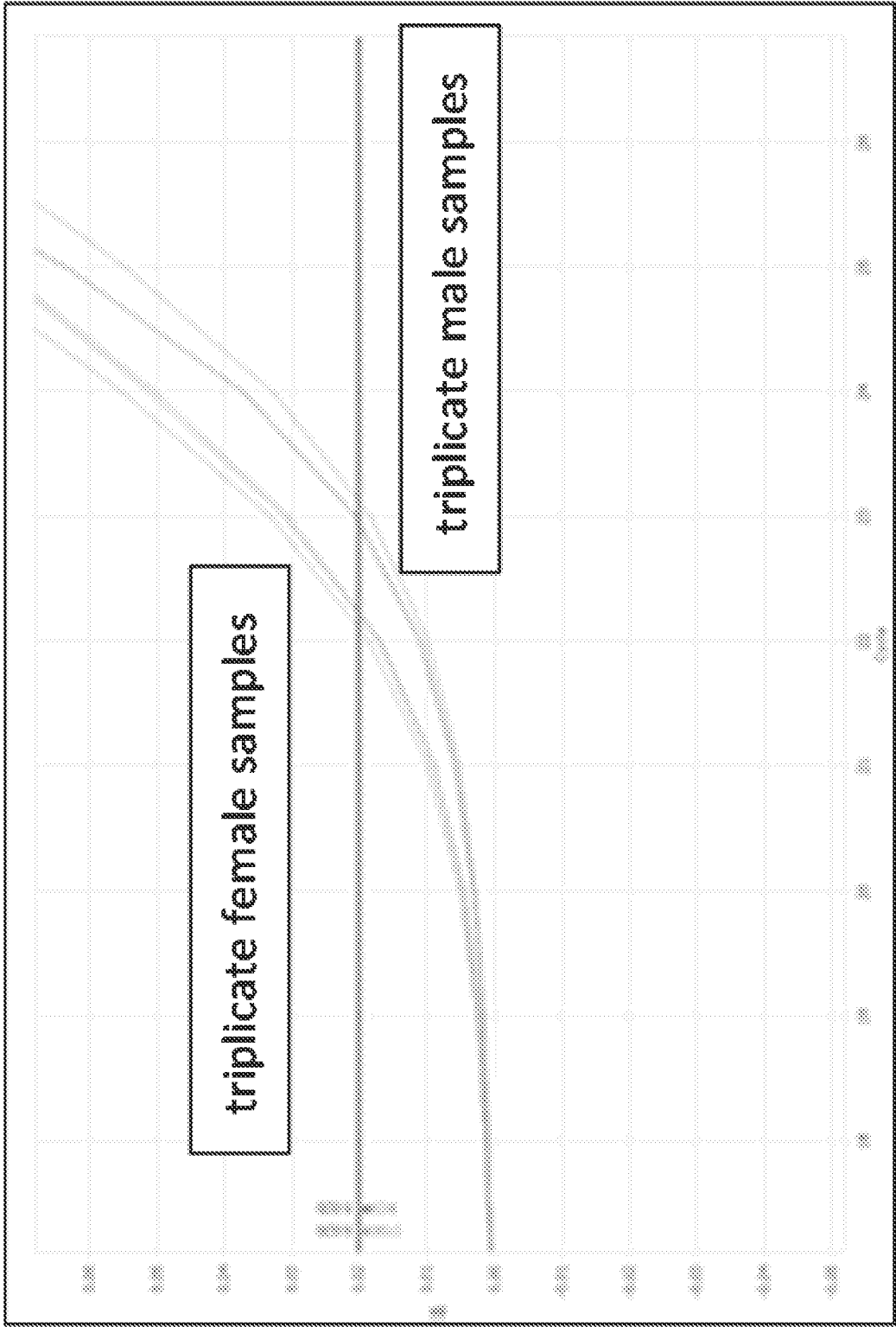
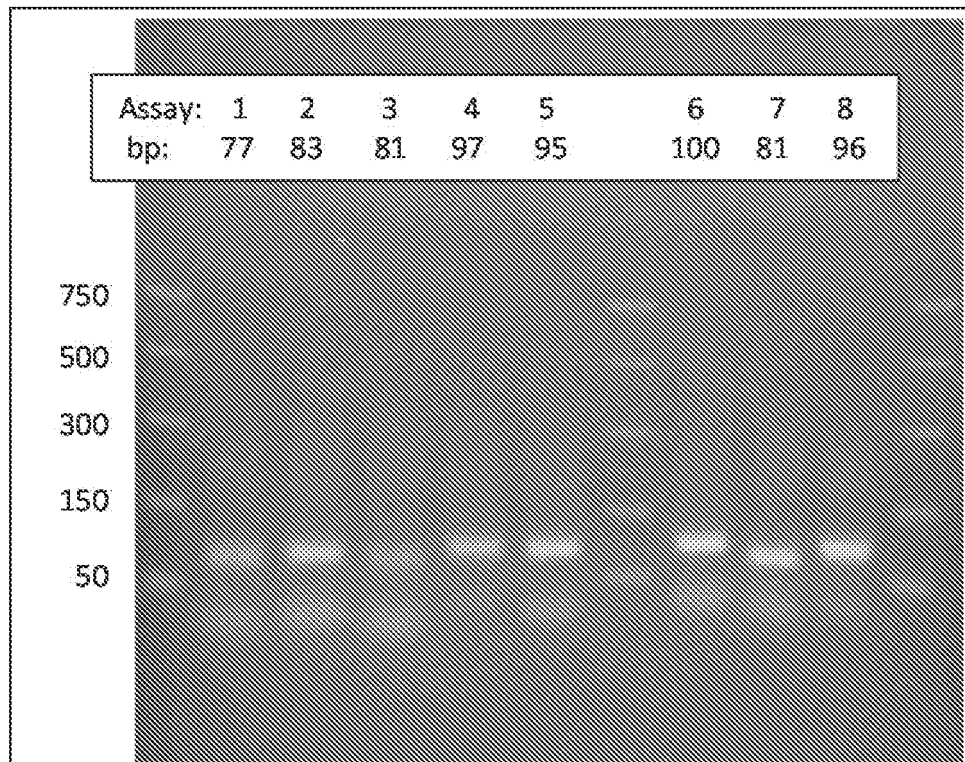


FIG. 9

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*FIG. 10*

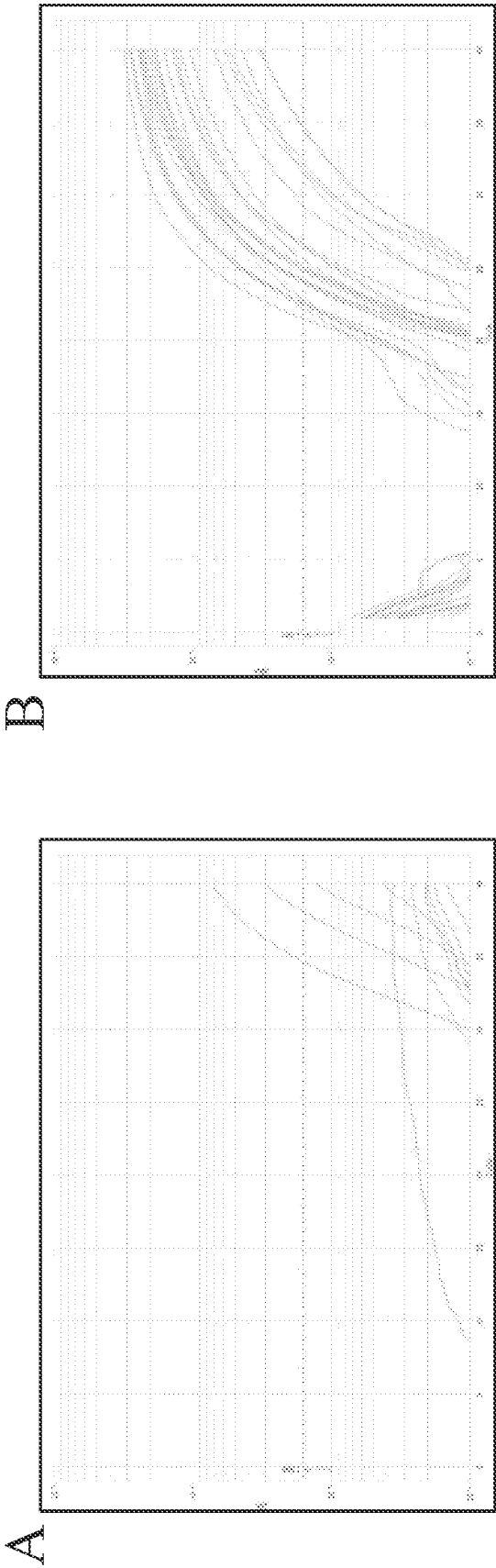
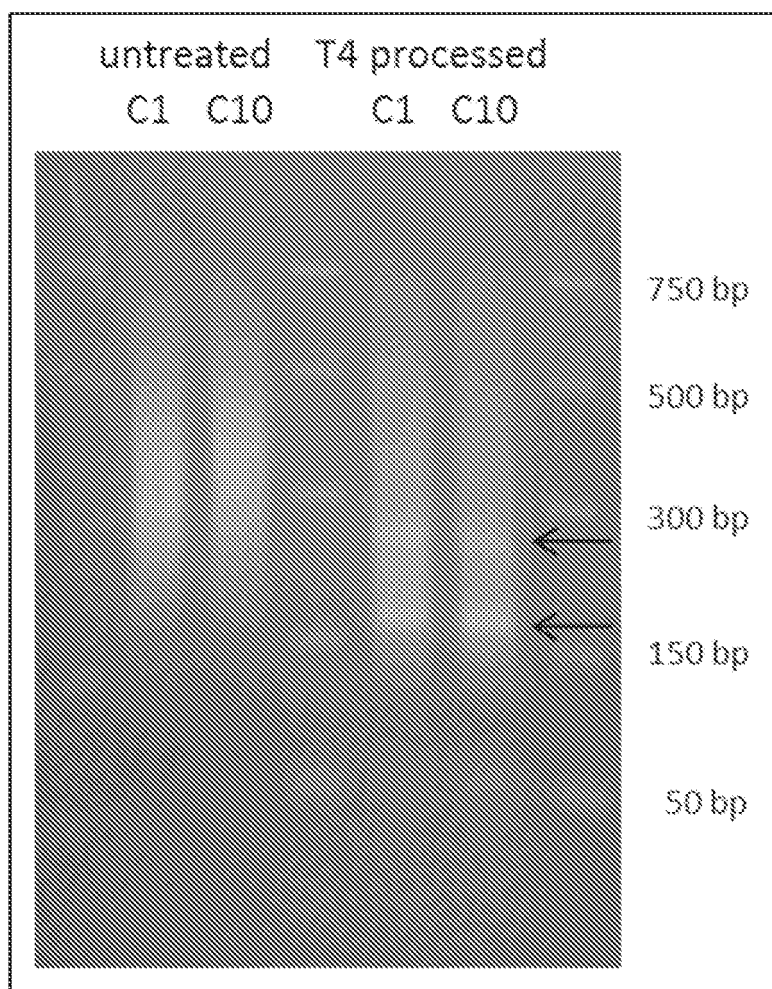
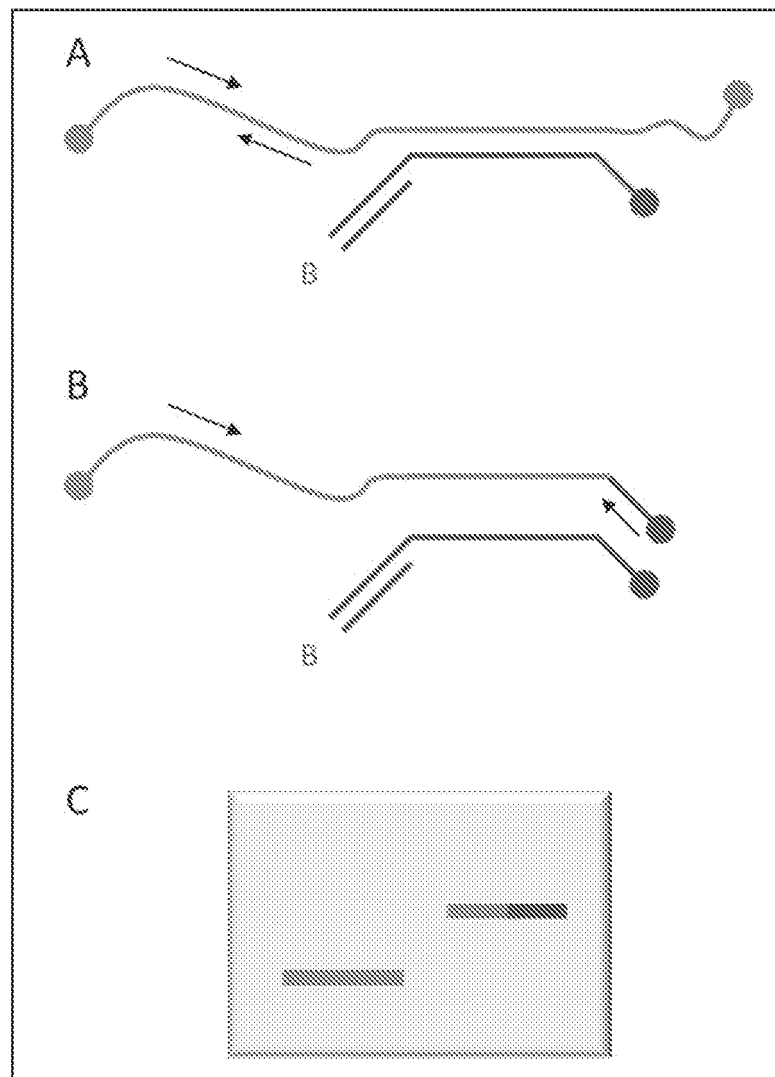


FIG. 11

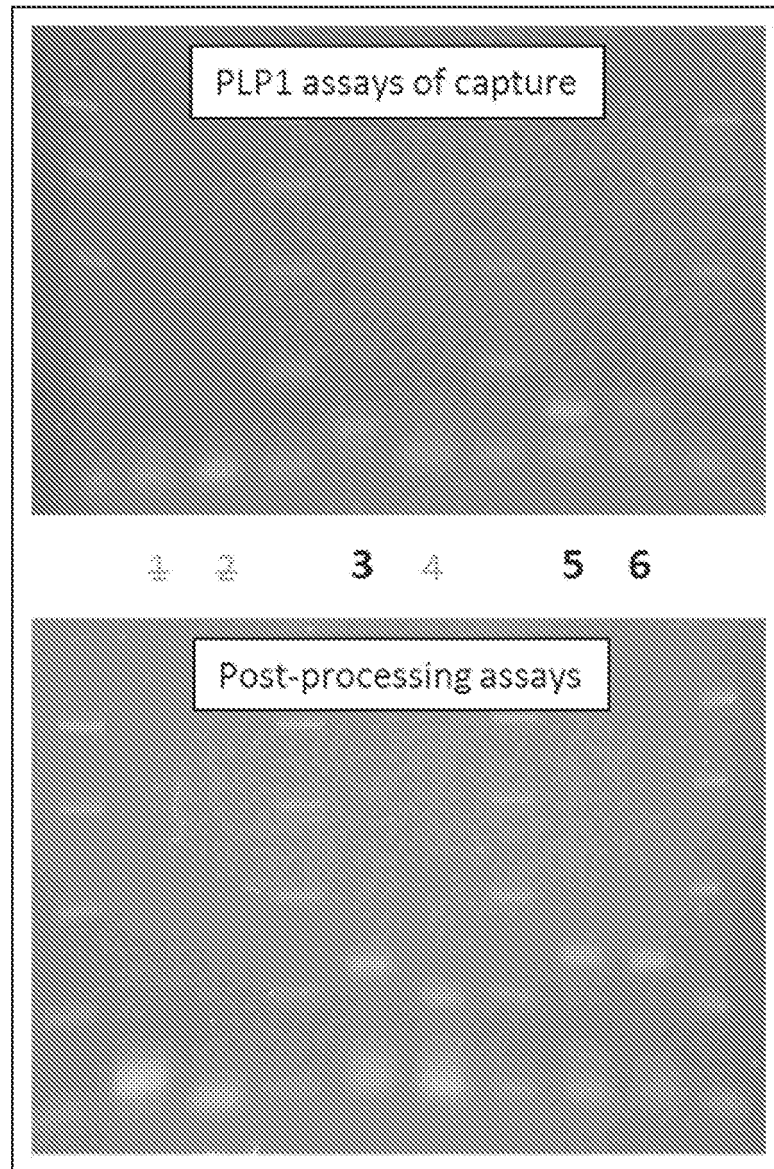
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*FIG. 12*

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*FIG. 13*

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*FIG. 14*

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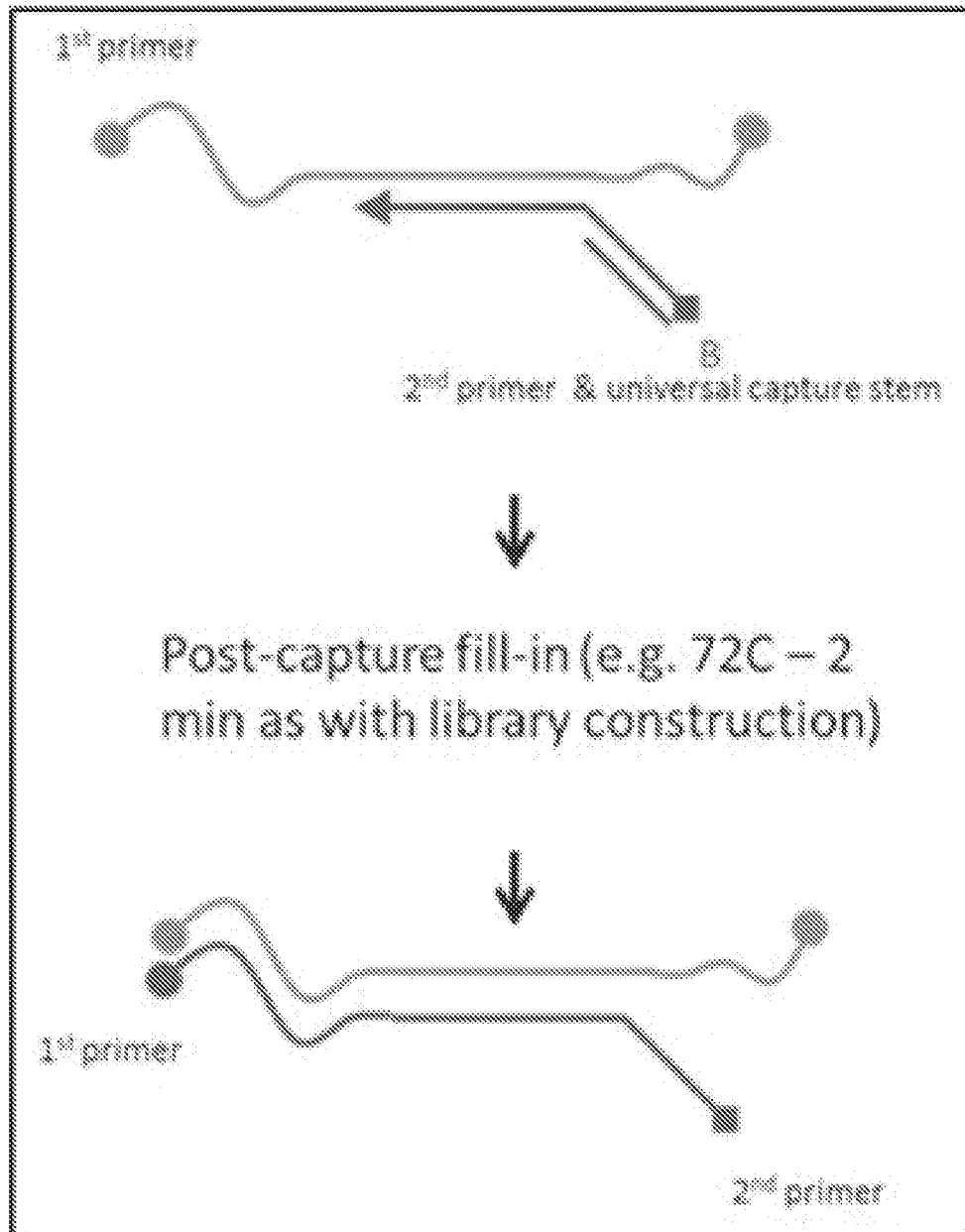


FIG. 15

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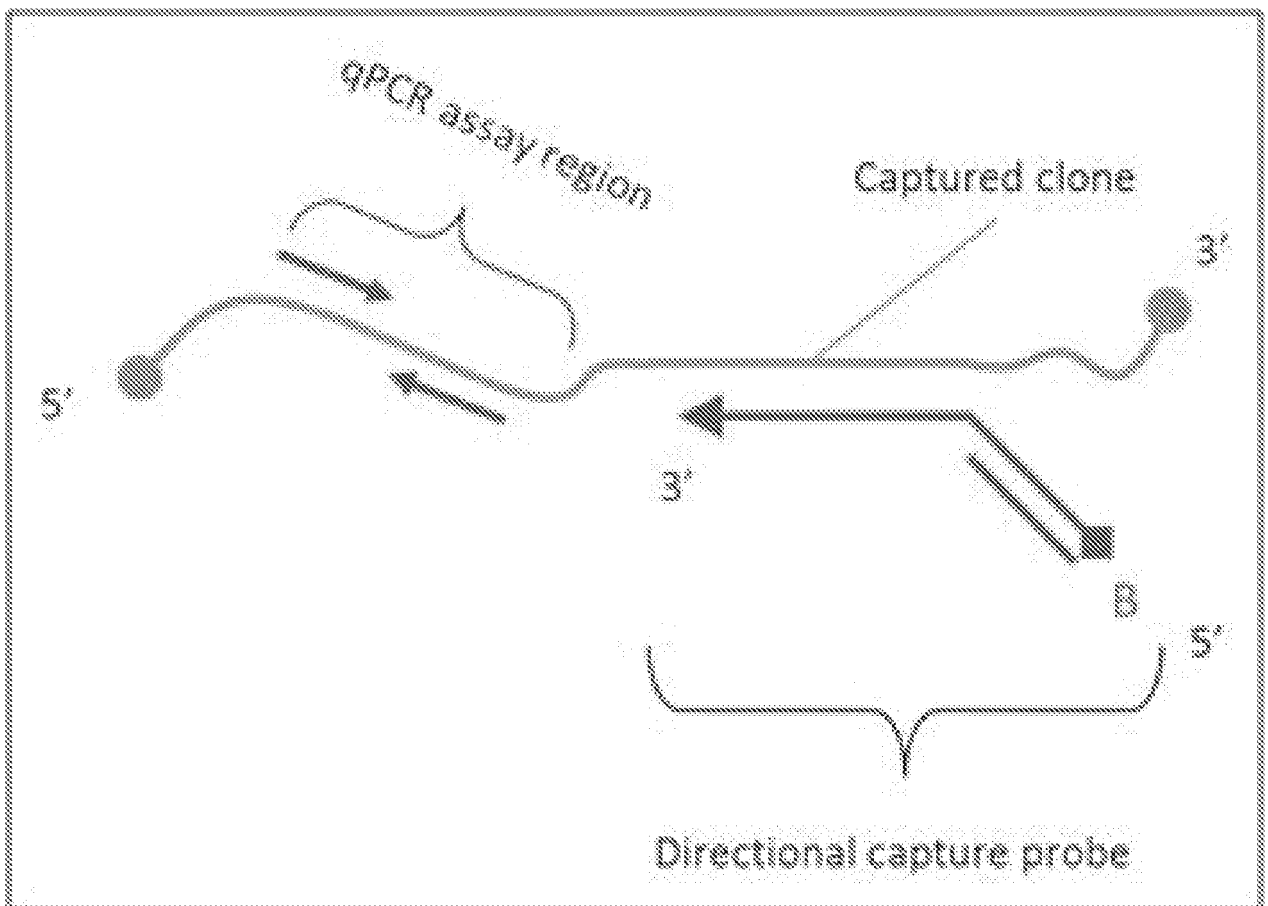
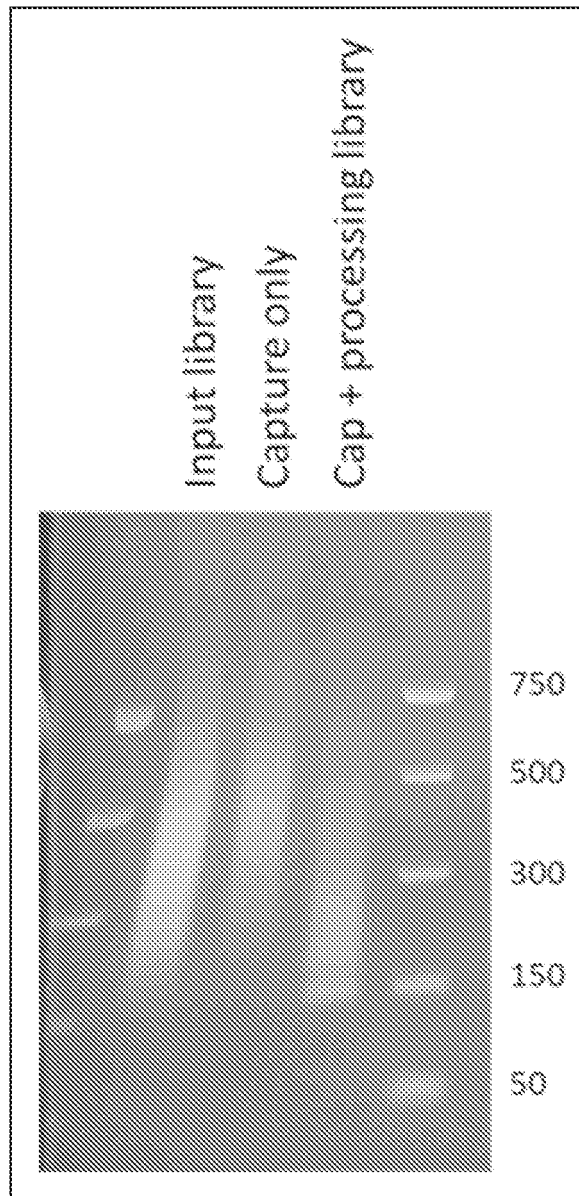


FIG. 16

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*FIG. 17*

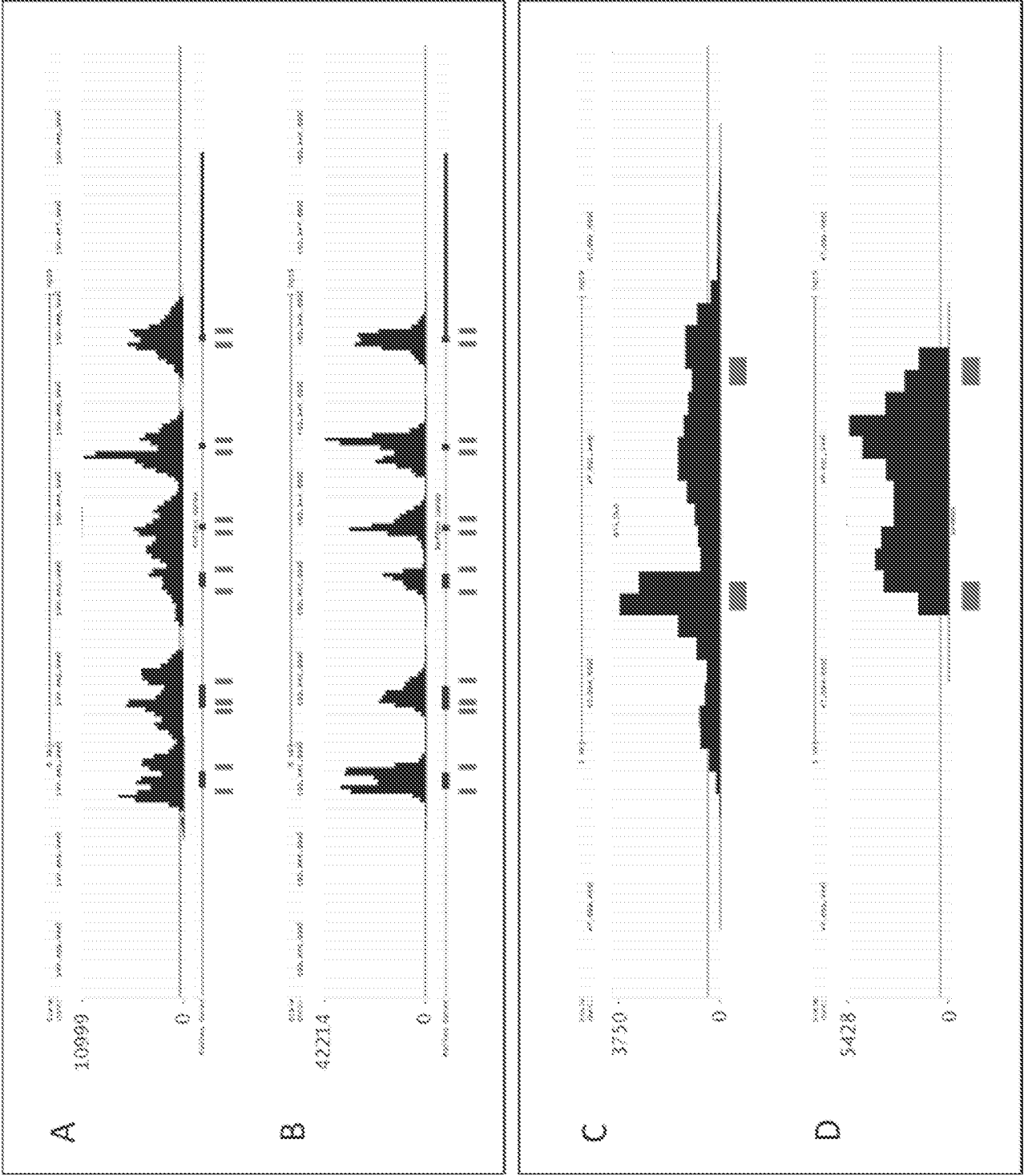


FIG. 18

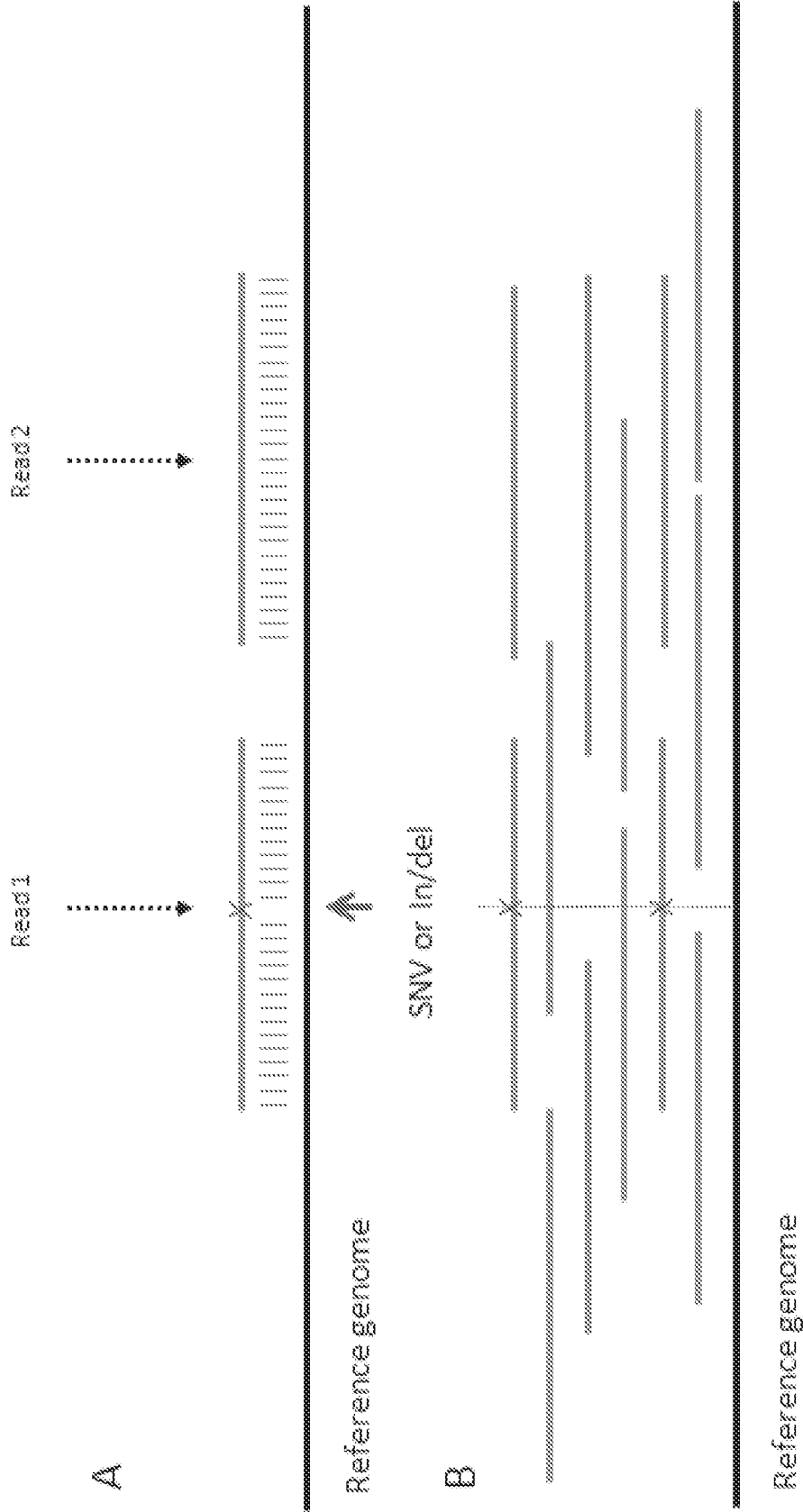


FIG. 19

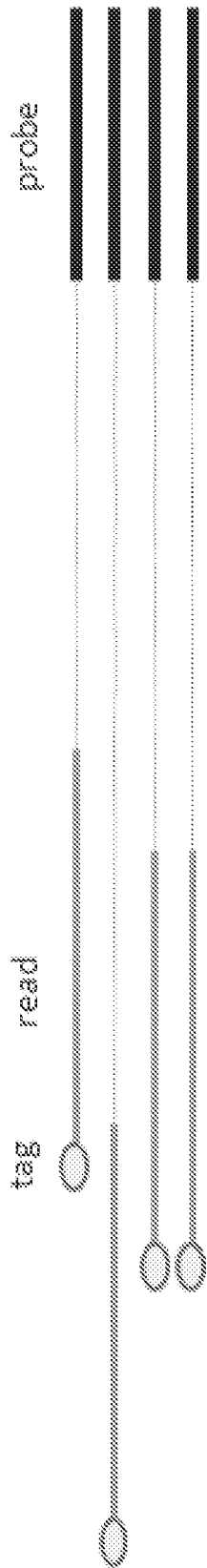


FIG. 20

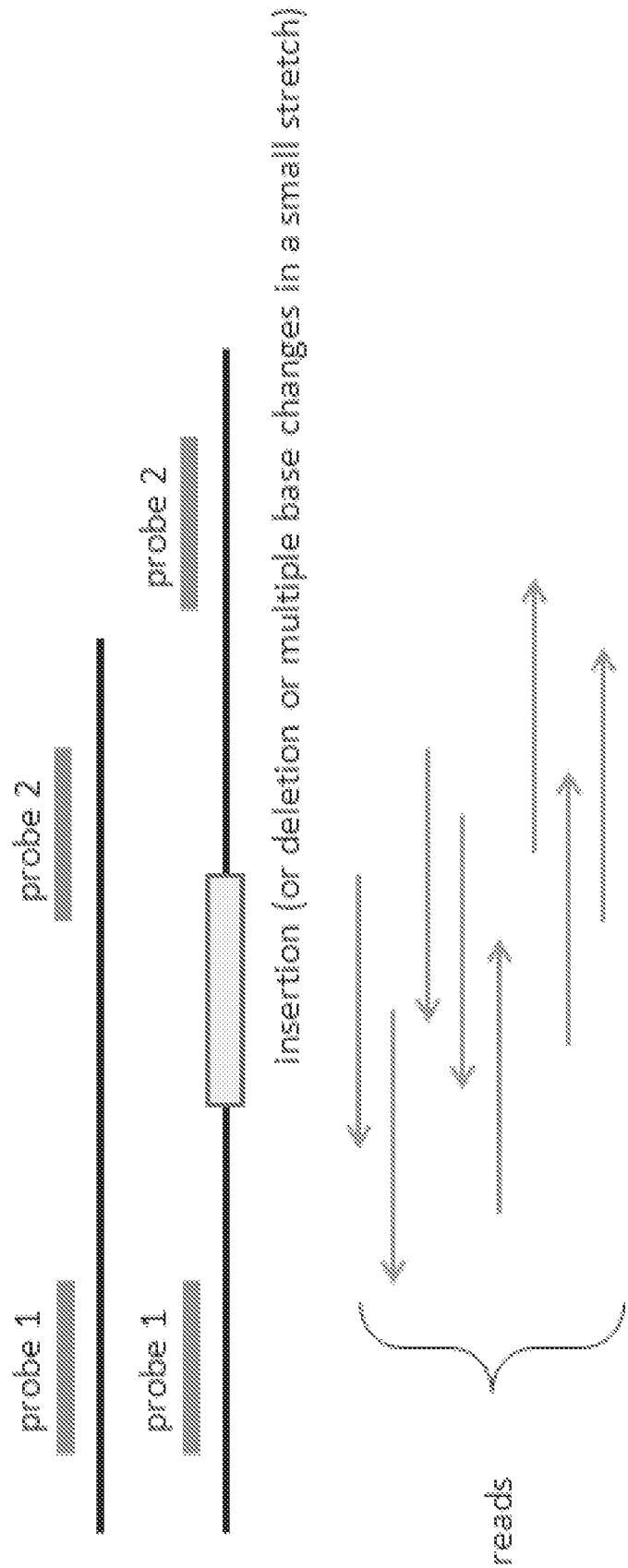


FIG. 21

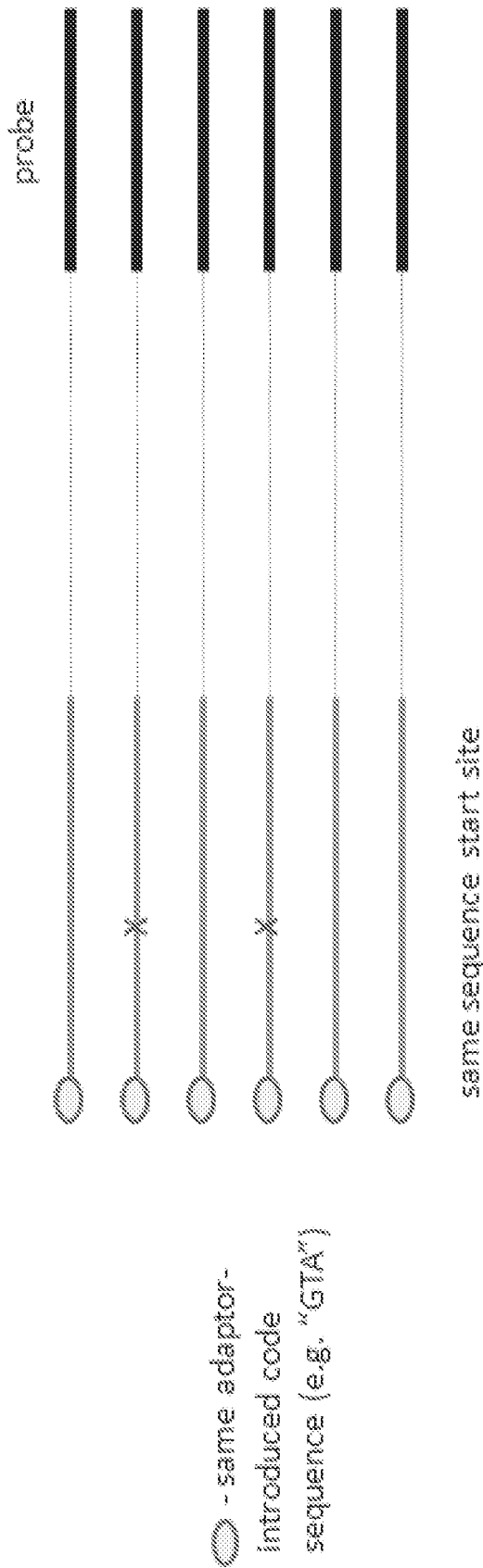


FIG. 22

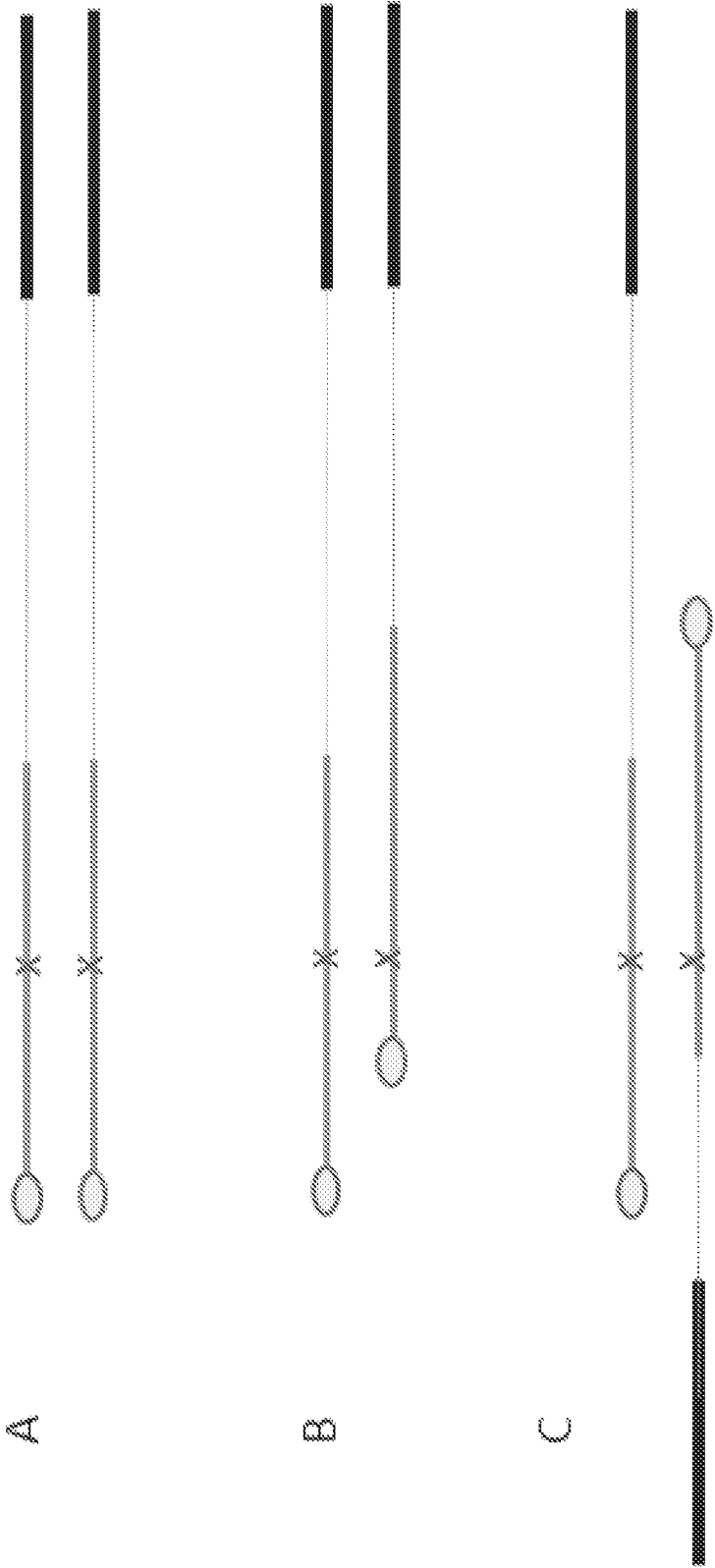


FIG. 23

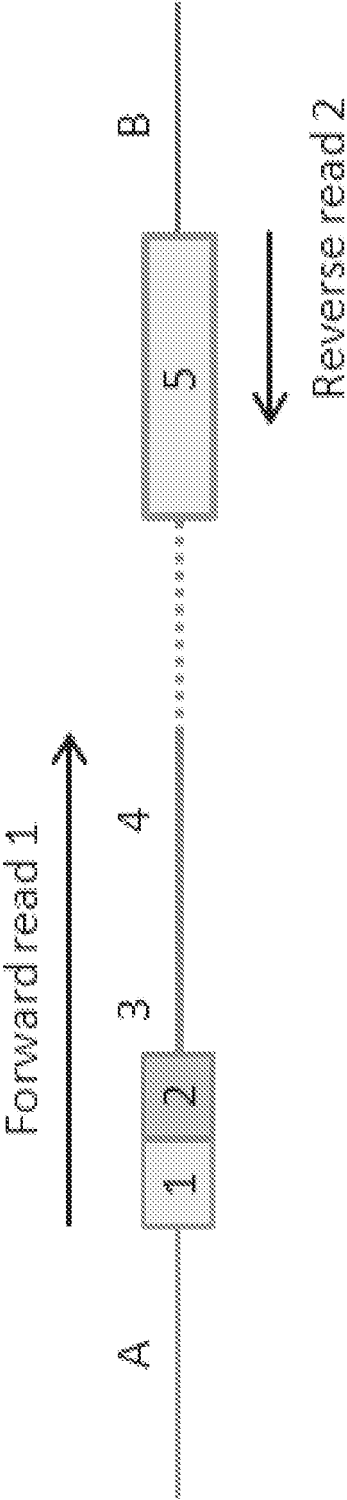


FIG. 24

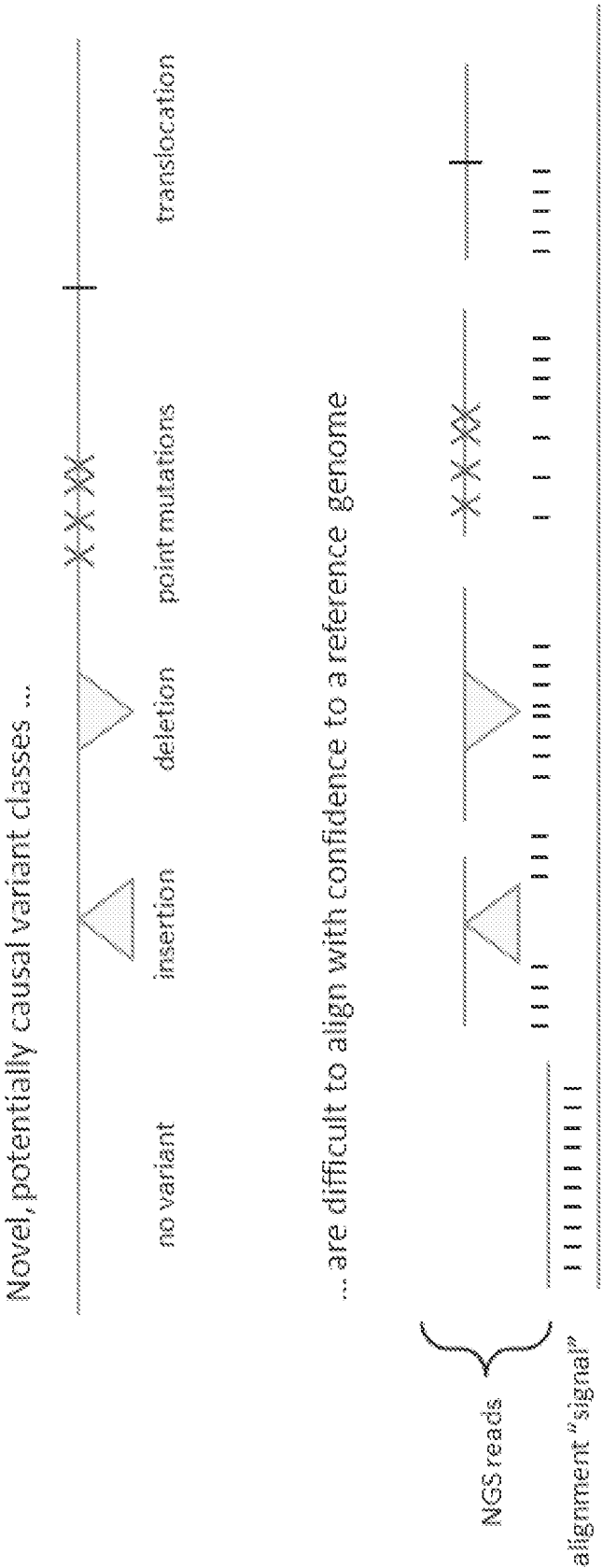


FIG. 25

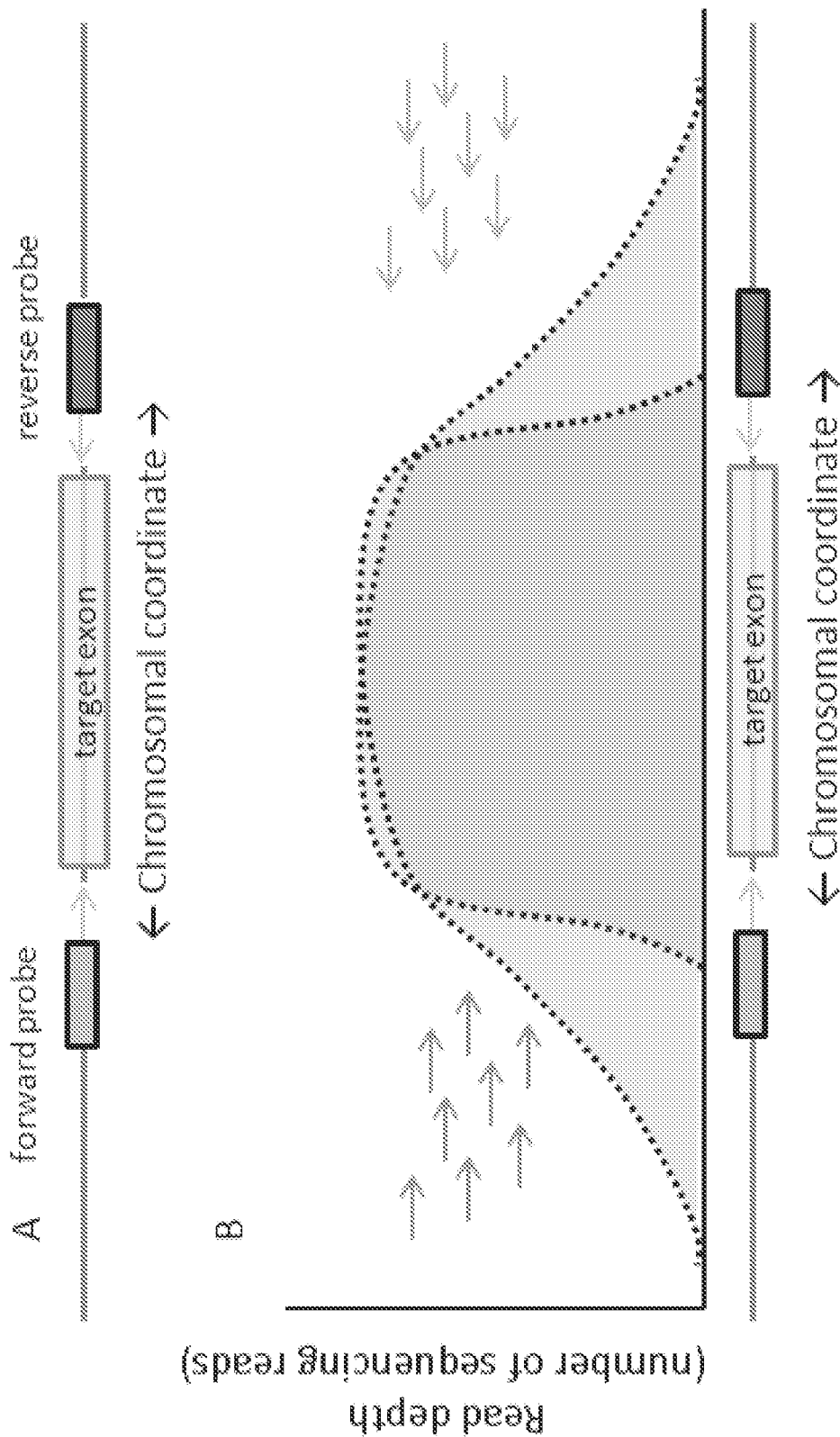
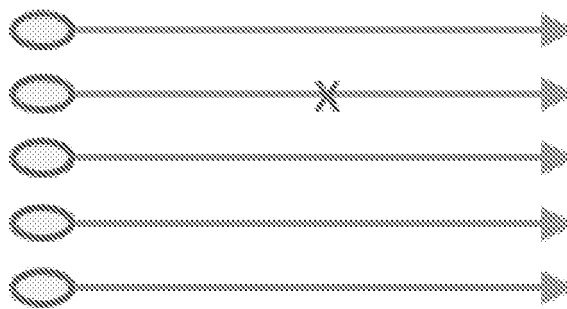


FIG. 26

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A



B

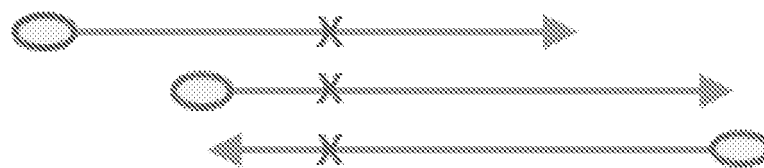
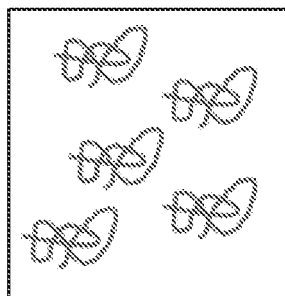
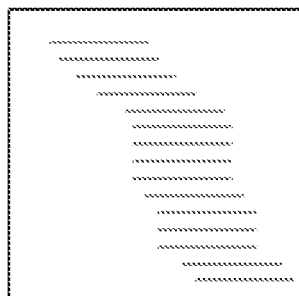


FIG. 27

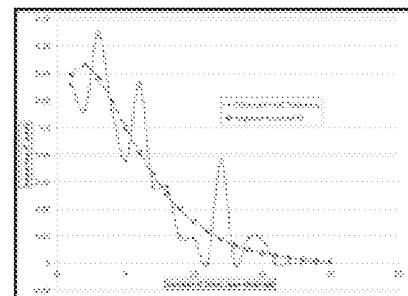
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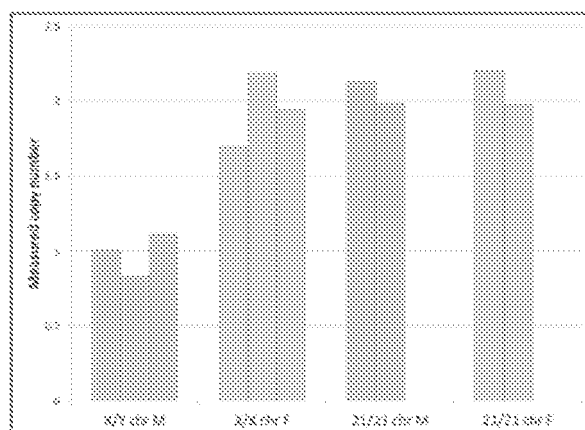
Low input genome libraries (e. g. ~50-100 genome equivalents) created with molecular annotation and subsequently captured with targeting probes.



Variant filtering for true positive read set on a probe-by-probe basis. This allows the number and frequency of observed unique reads to be determined.



Observed read frequencies are fitted to a negative binomial distribution, which allows the "inferred class" of unobserved reads to be estimated. The number of observed reads + inferred reads = copy number.



Representative copy determination at three probes for the X-chromosomal gene PLP1 in a male and a female sample. For comparison, two probes for the autosomal chromosome 21 gene TNFRSF14 gene are also shown.

FIG. 28

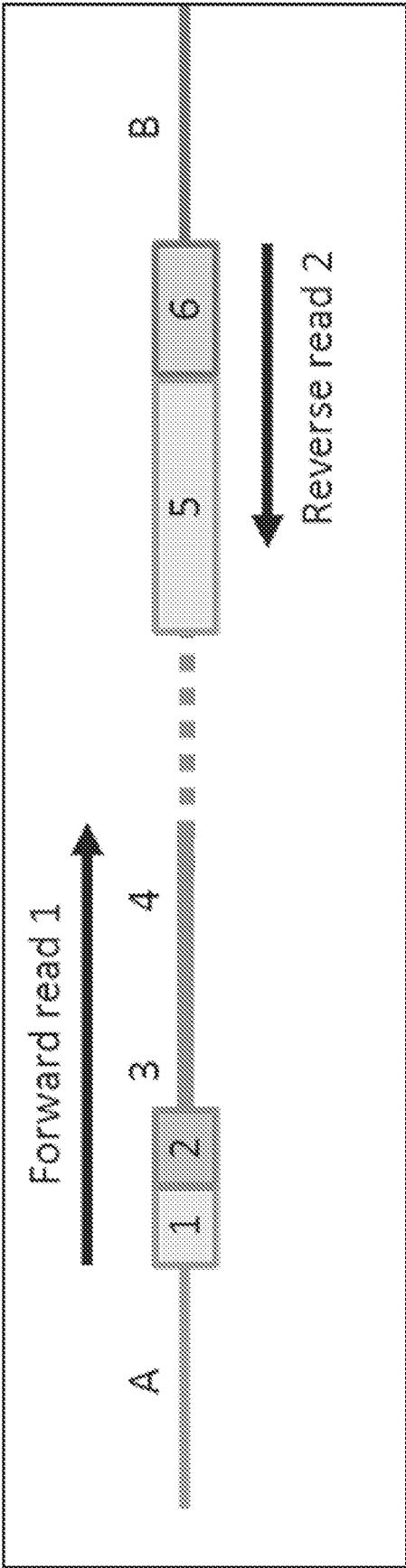


FIG. 29

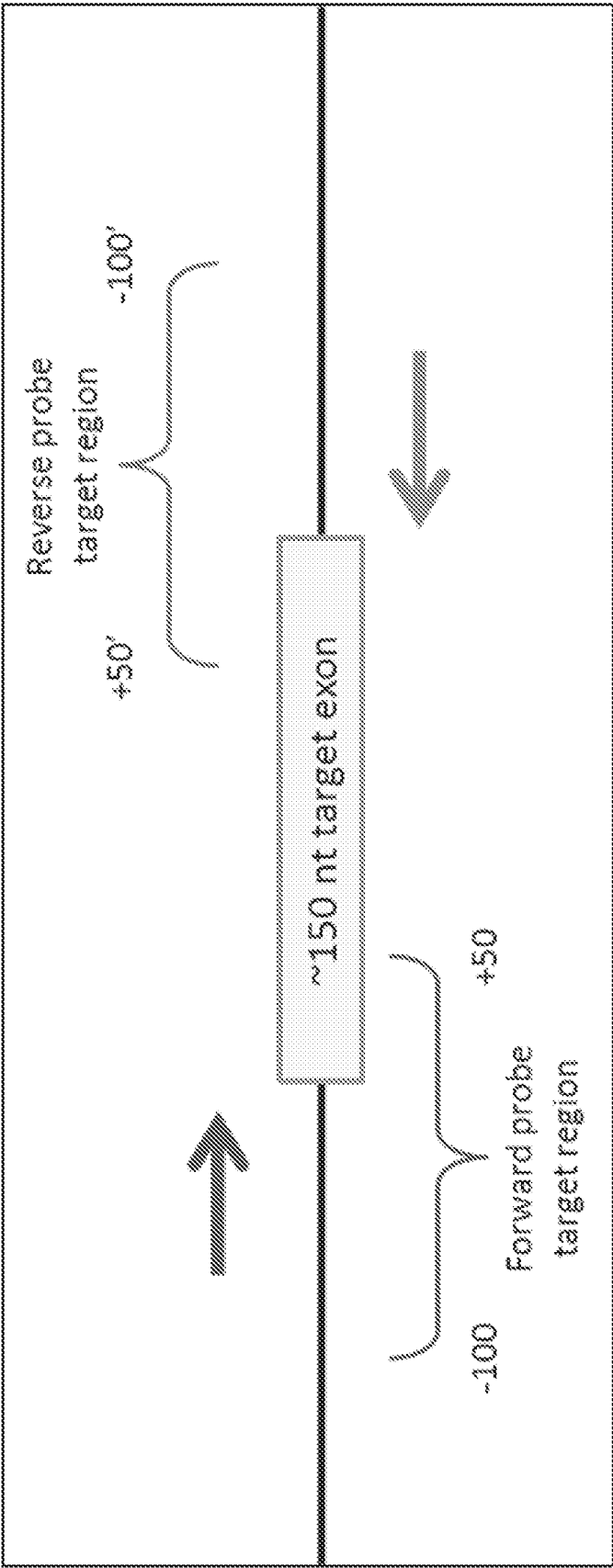
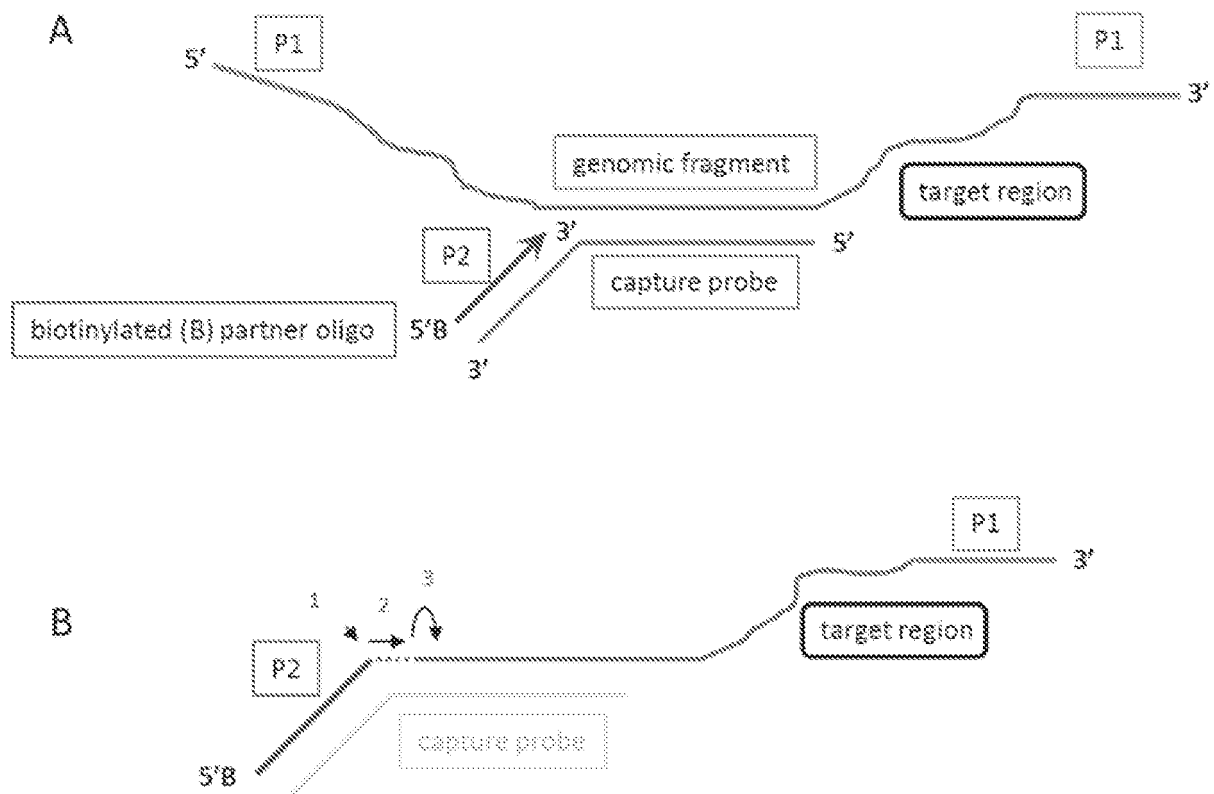


FIG. 30

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*FIG. 31*

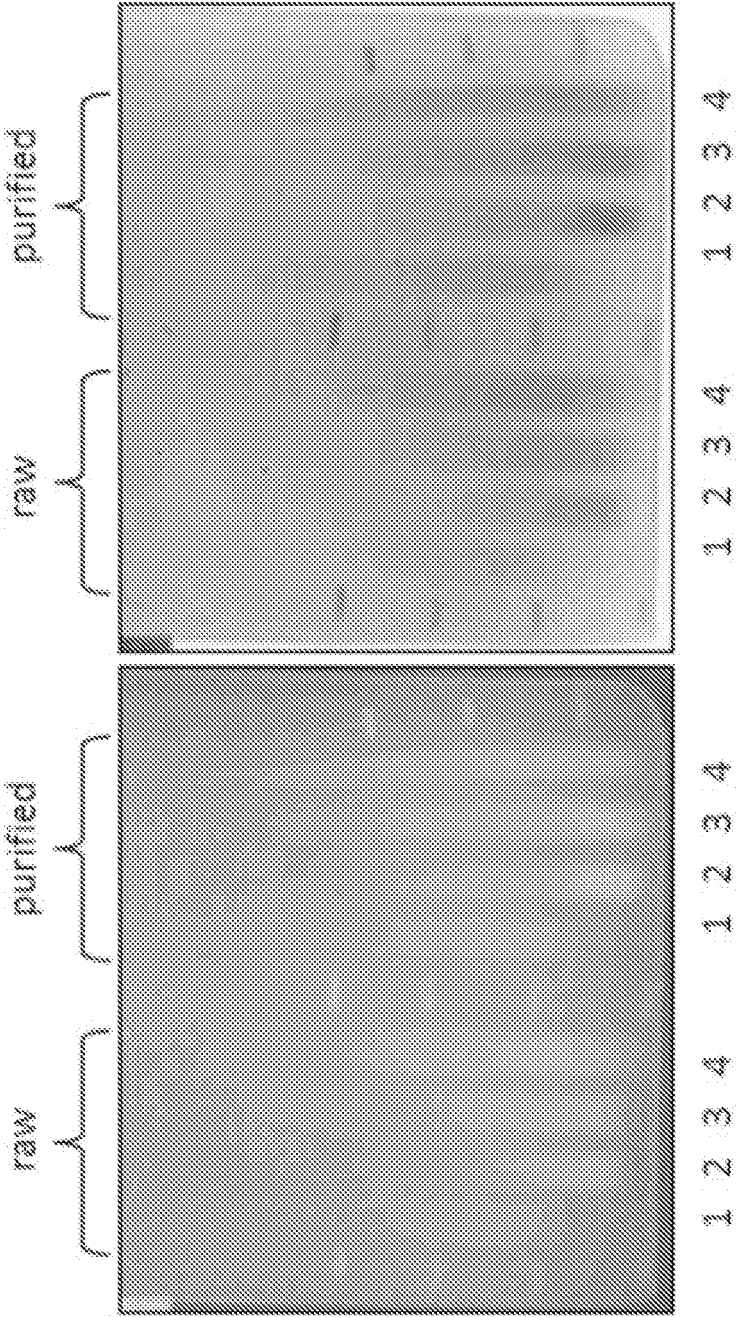


FIG. 32

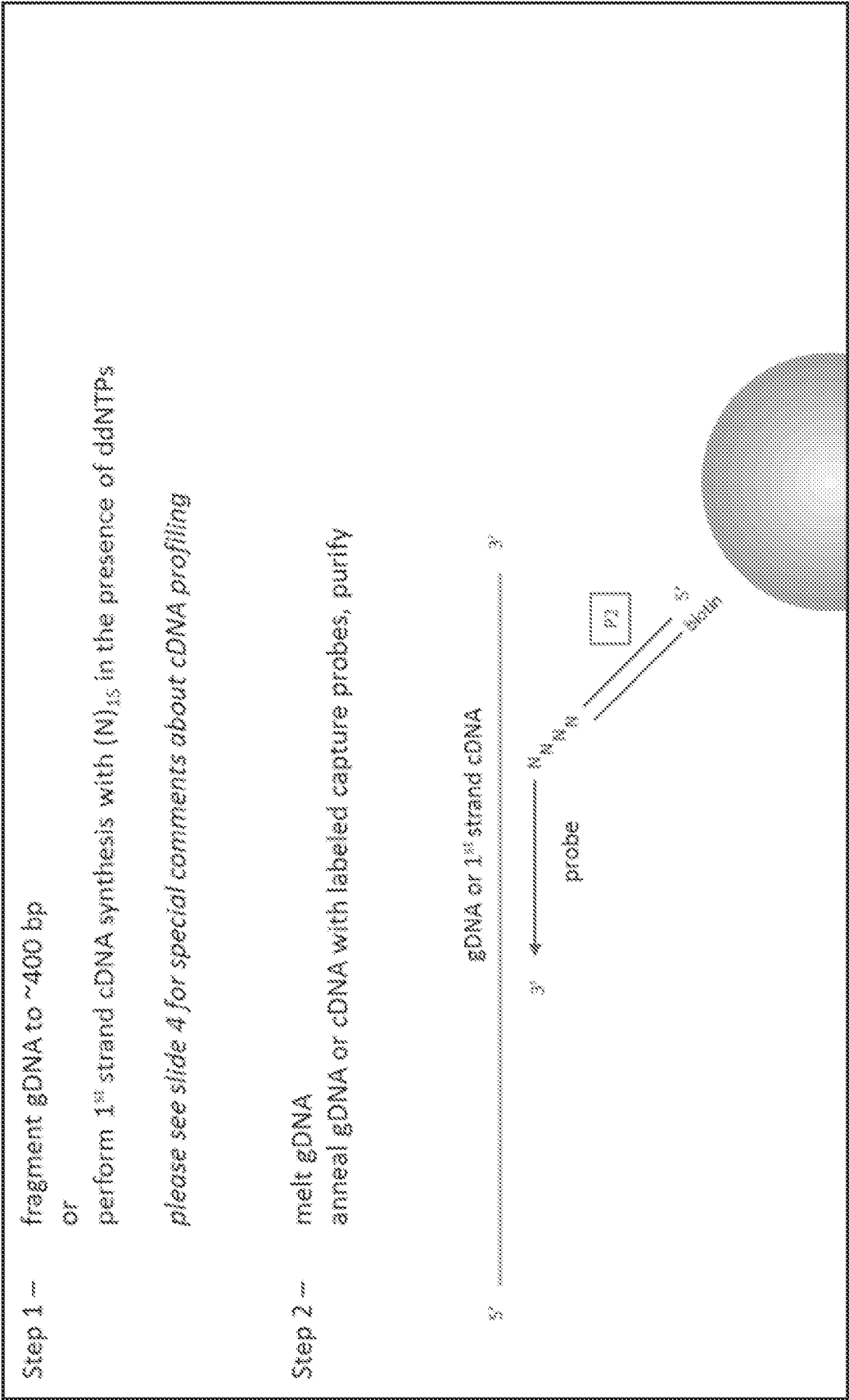


FIG. 33

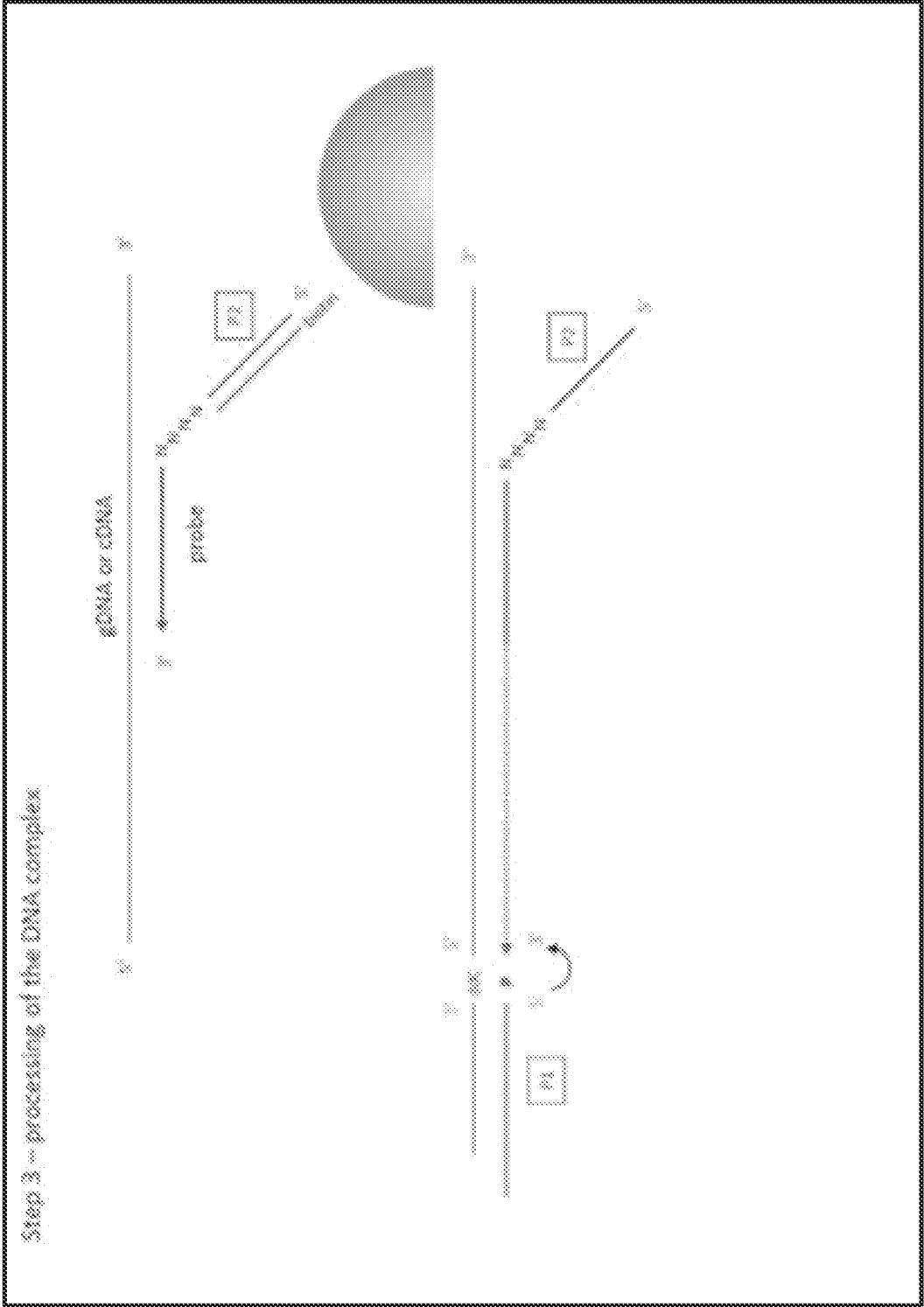


FIG. 34

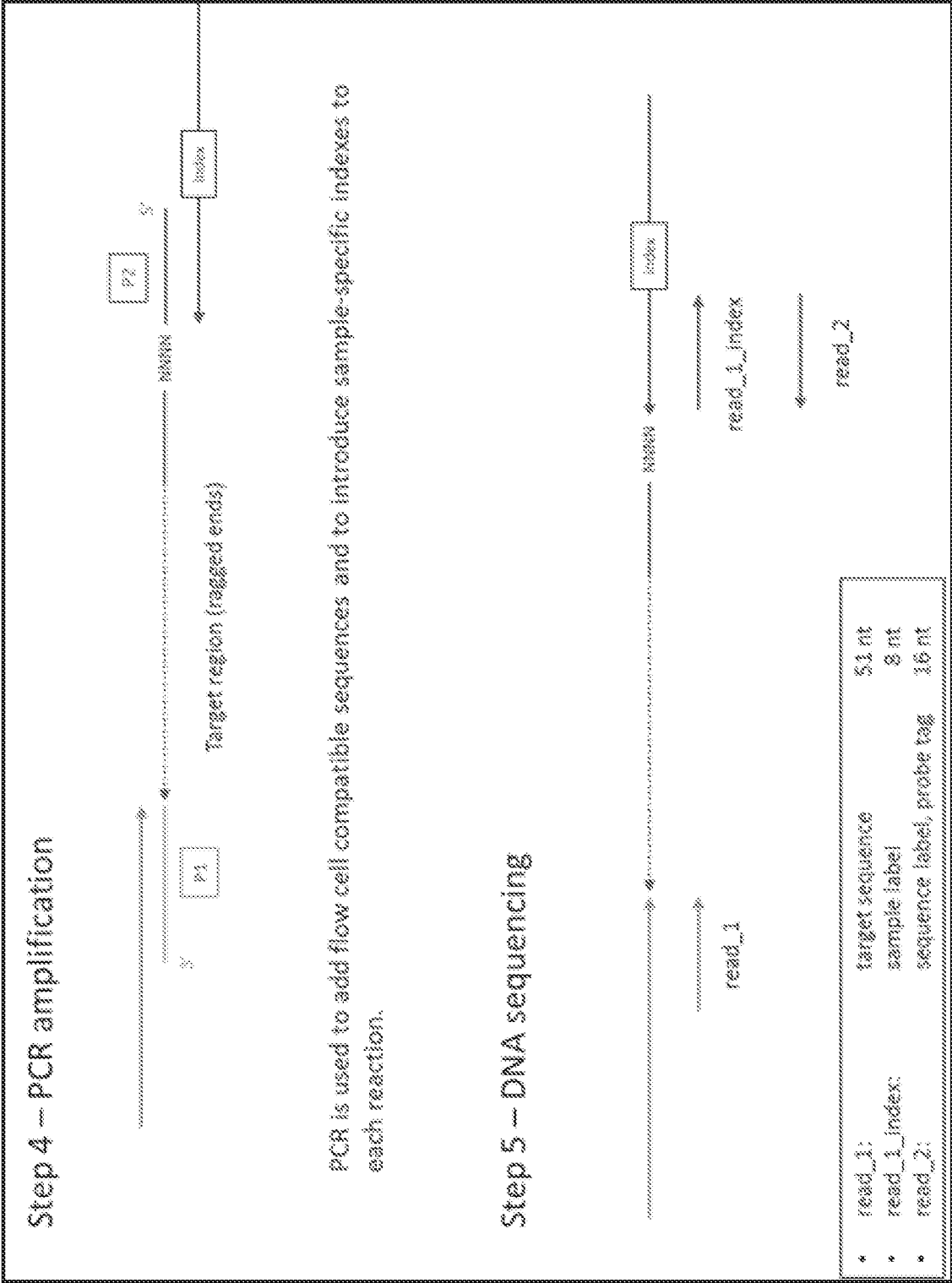


FIG. 35

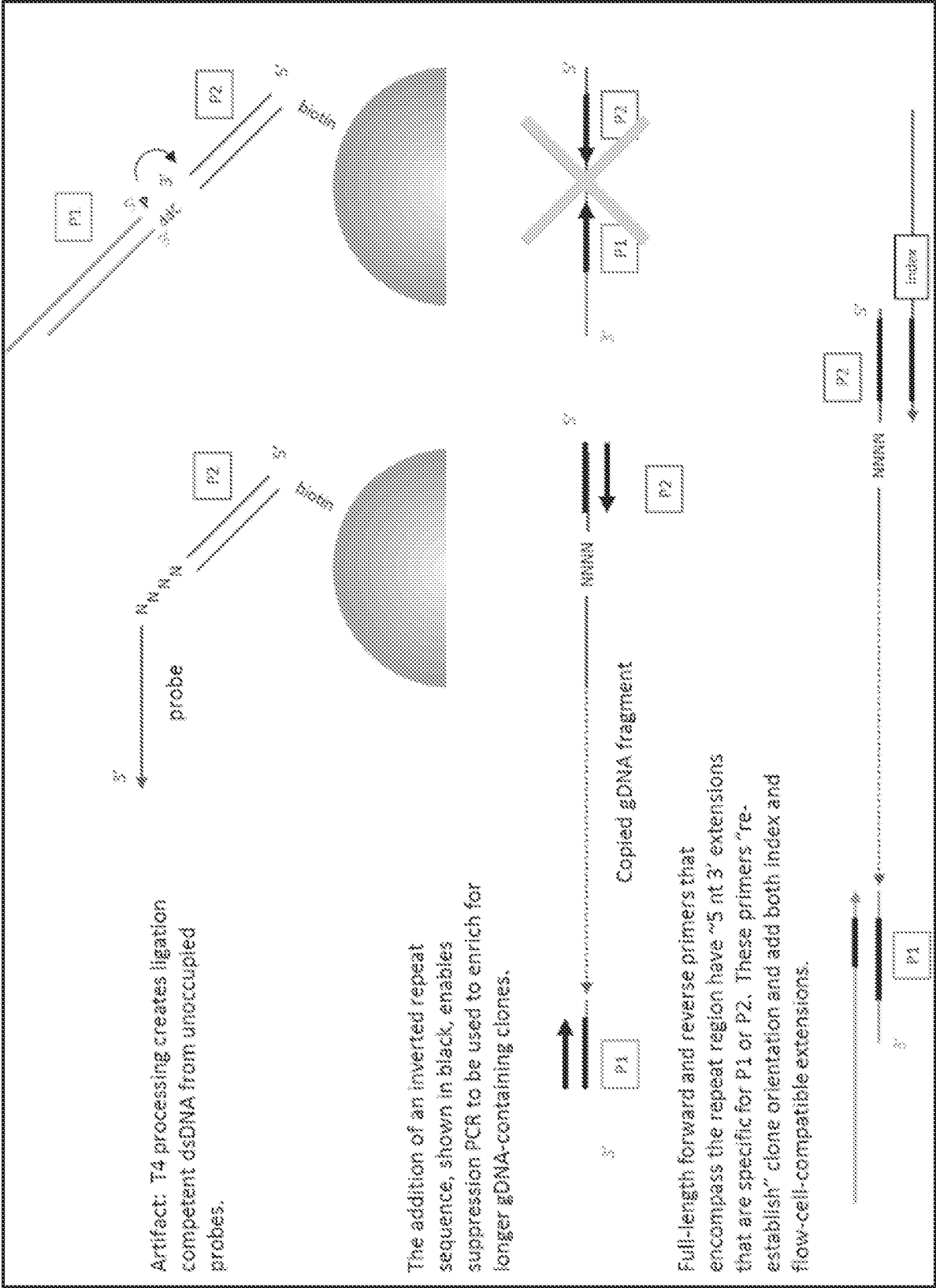


FIG. 36

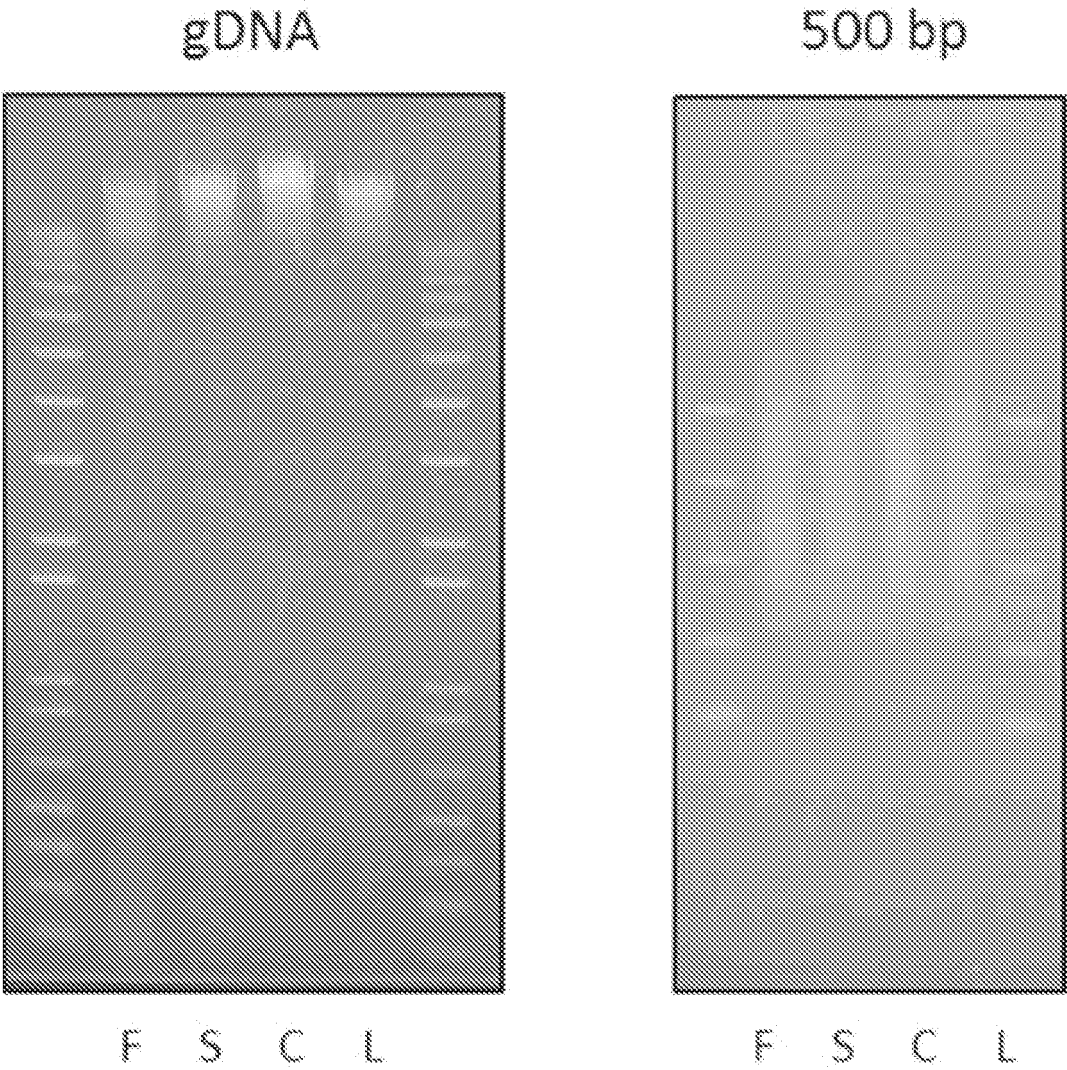


FIG. 37

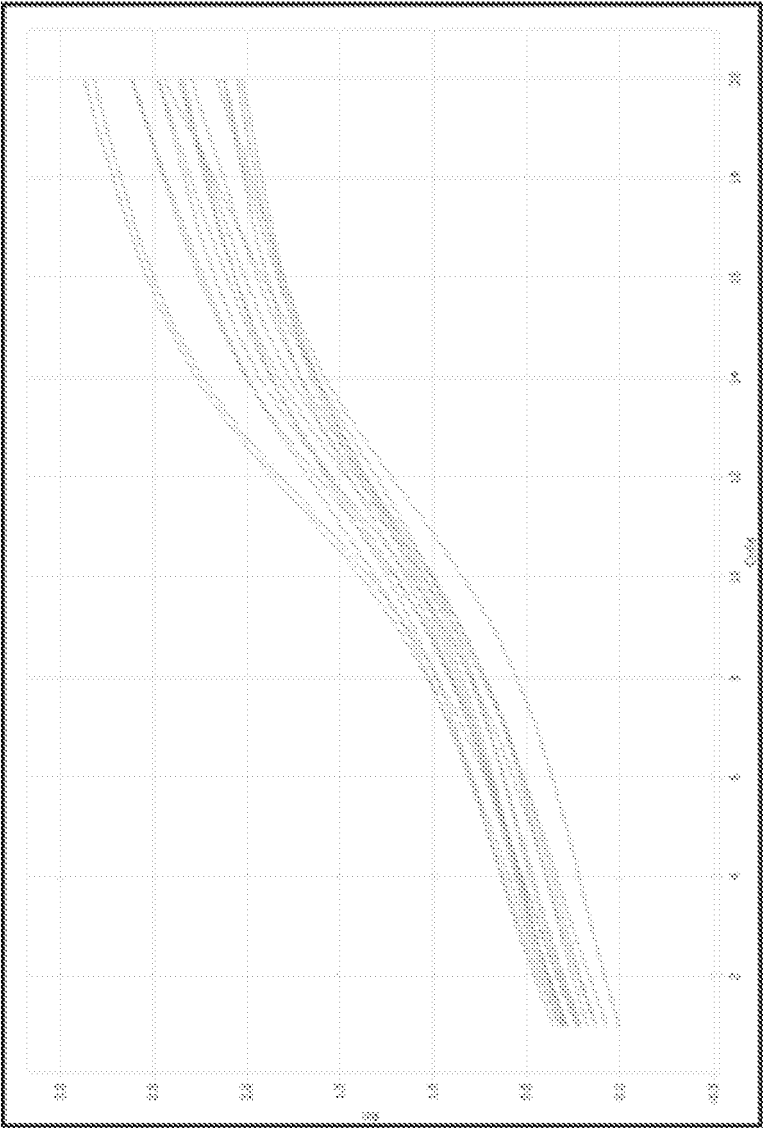
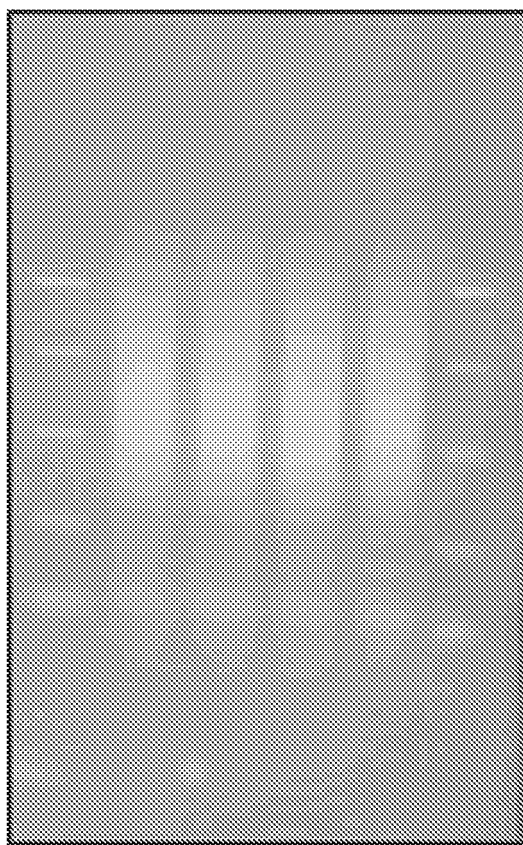


FIG. 38

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F S C L

FIG. 39

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F S C L

FIG. 40

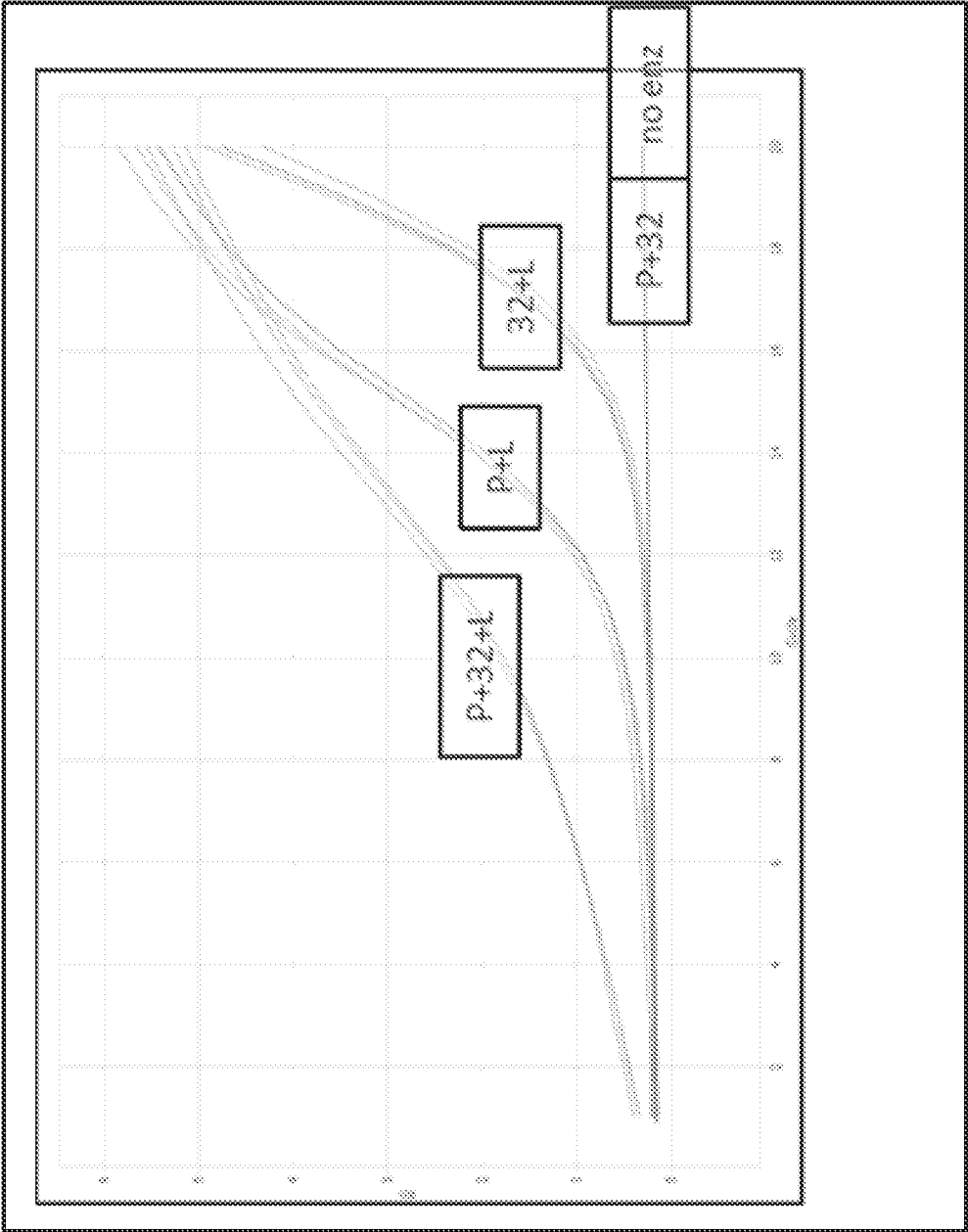
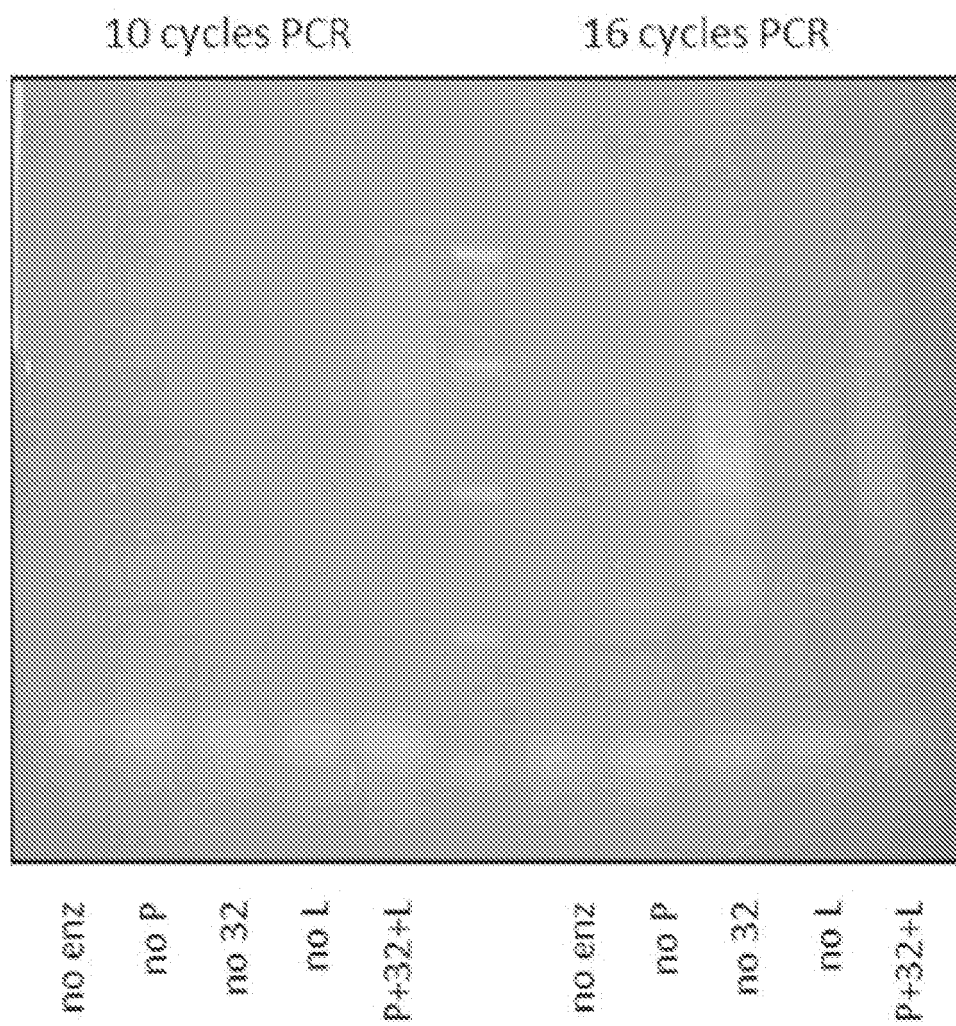
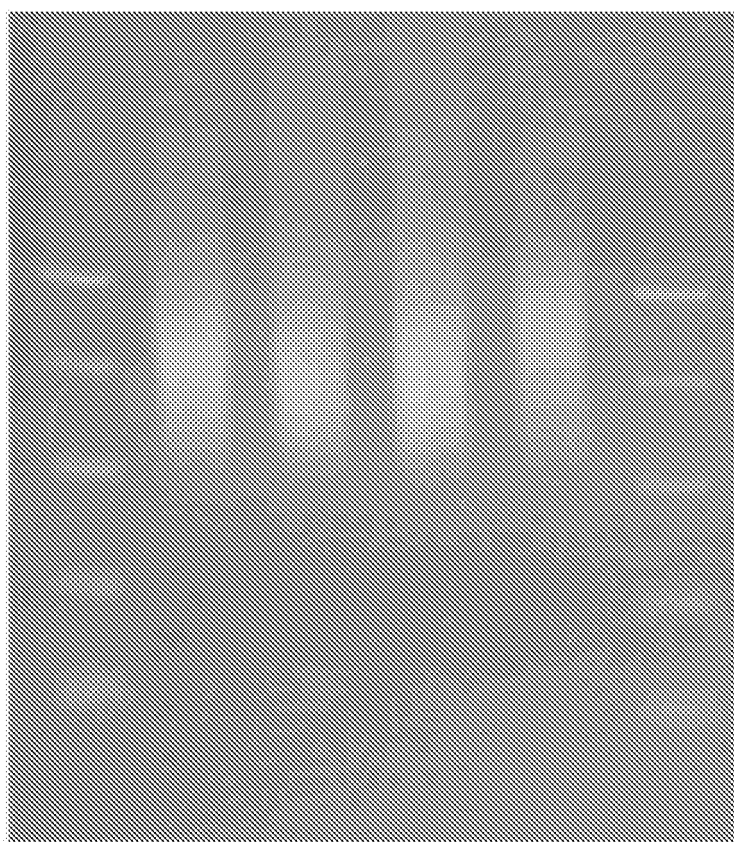


FIG. 41

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*FIG. 42*

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11 13 15 16

FIG. 43

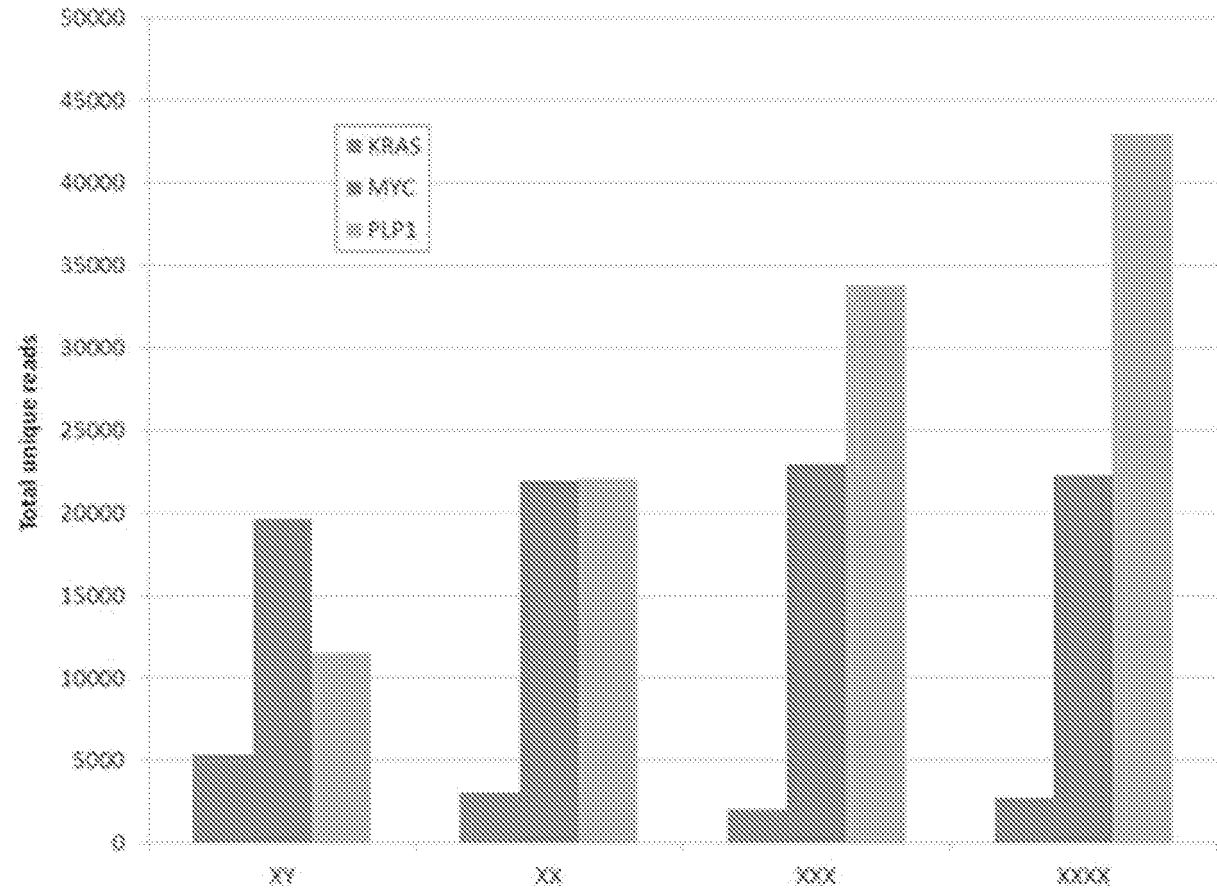


FIG. 44

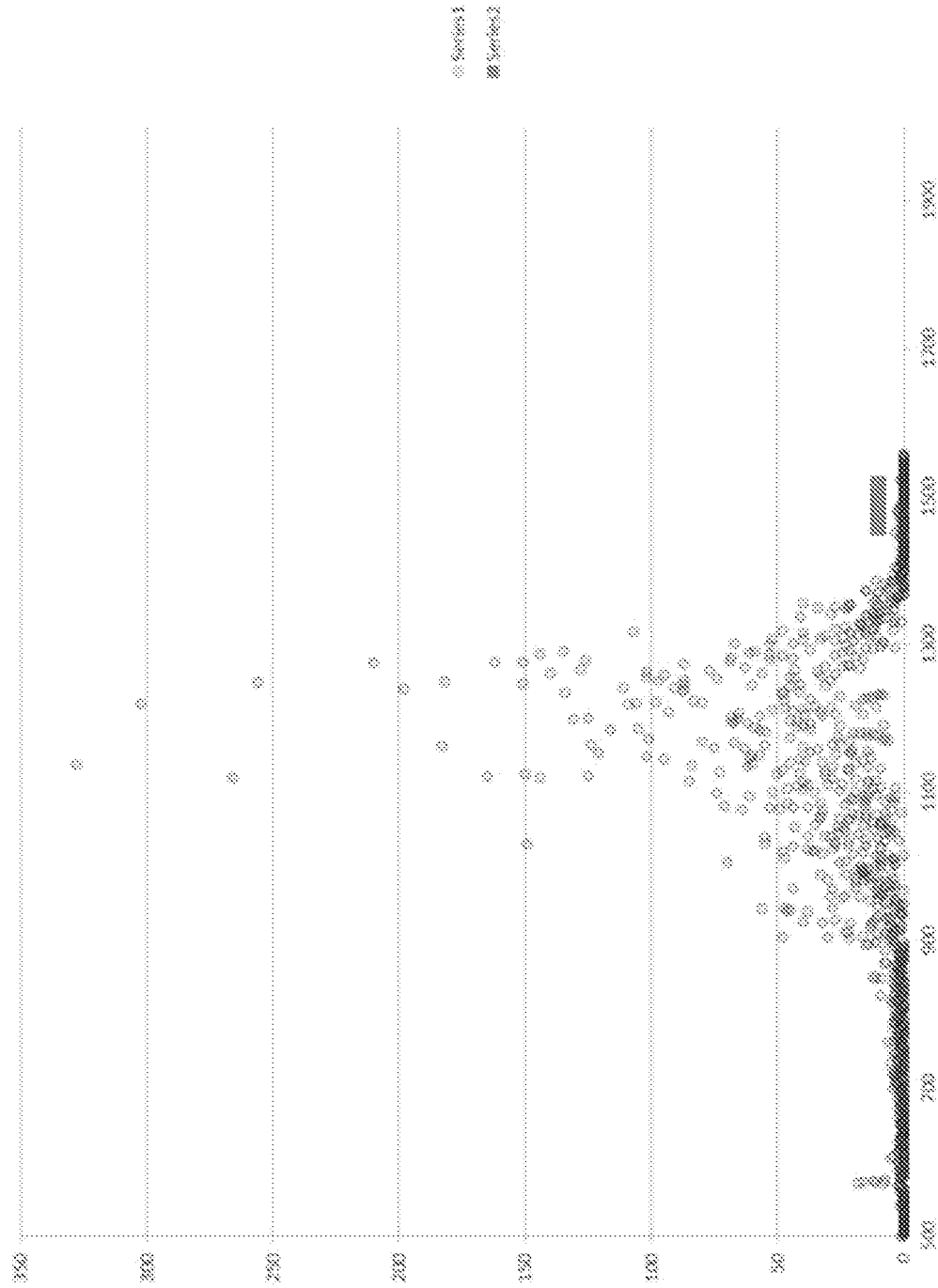


FIG. 45

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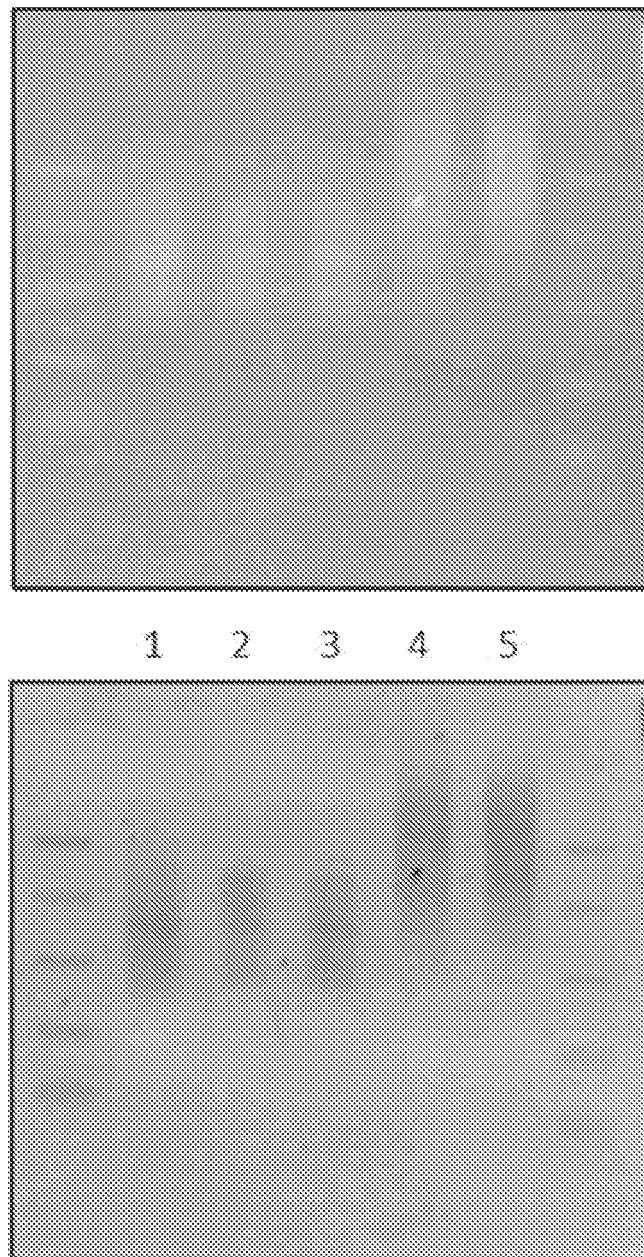


Figure 1. DNA gel of RNA-seq samples.

1. Post capture RNA-seq C+P
2. Pippin prep lane 4
3. Pippin prep lane 5
4. ACA2-20 dT library
5. ACA2_FLFP + exome CAC3_FLRP dT library

FIG. 46

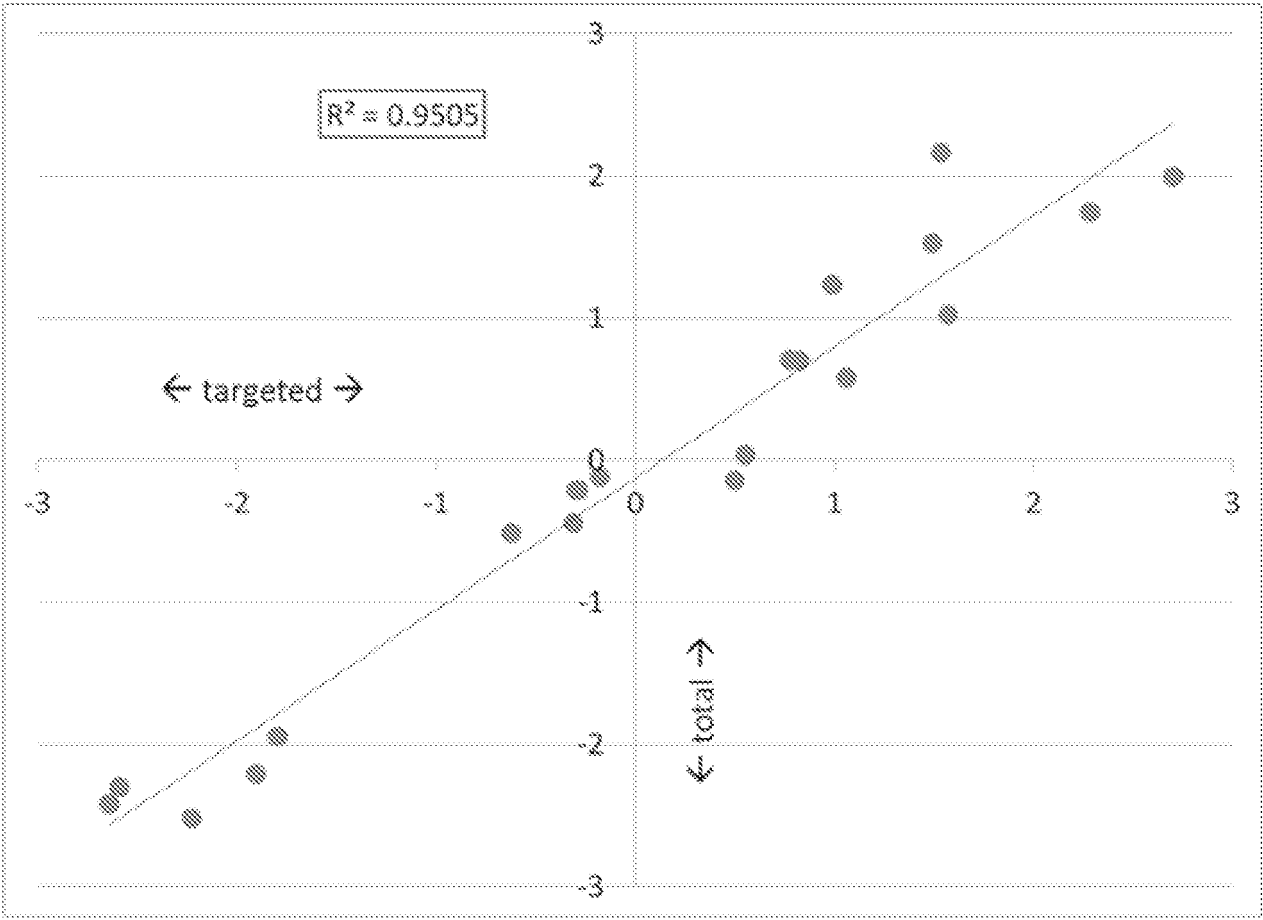


FIG. 47

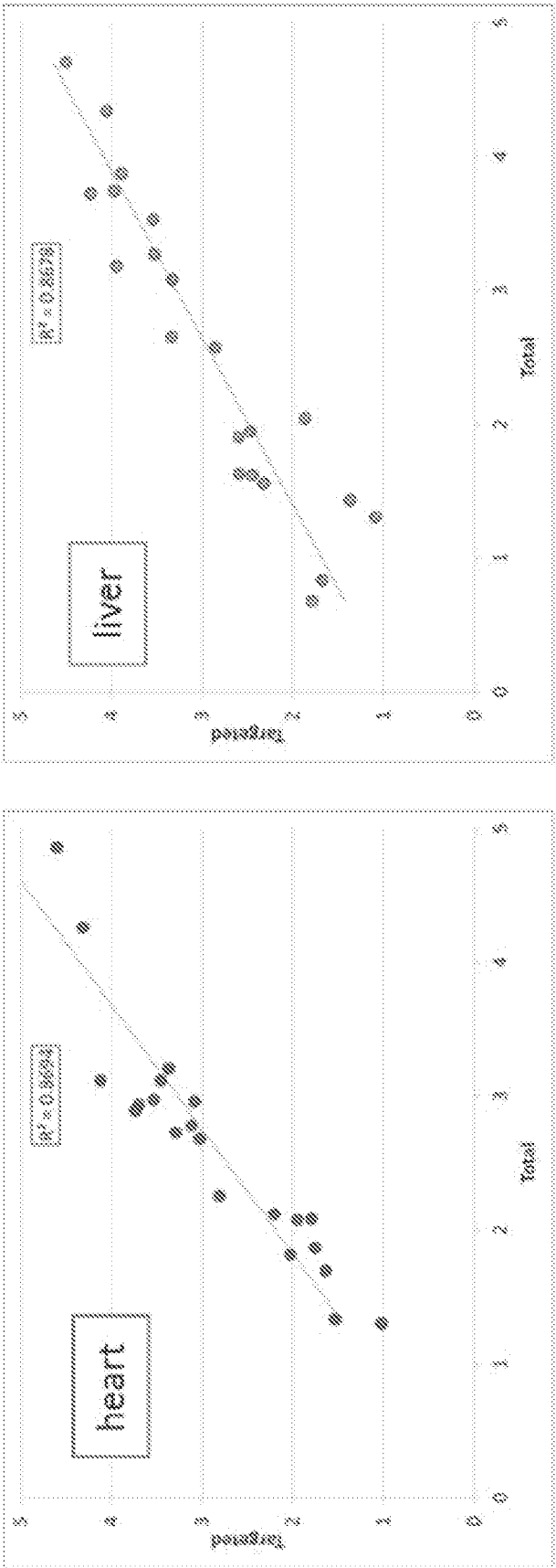


FIG. 48