

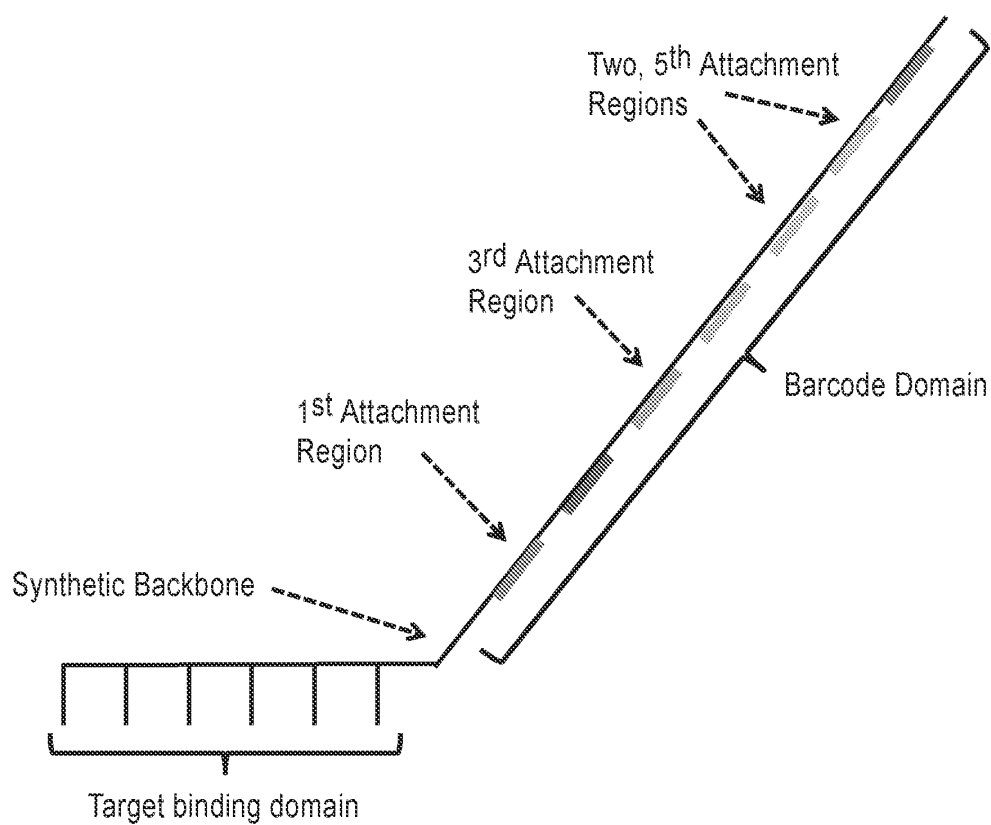


Figure 1

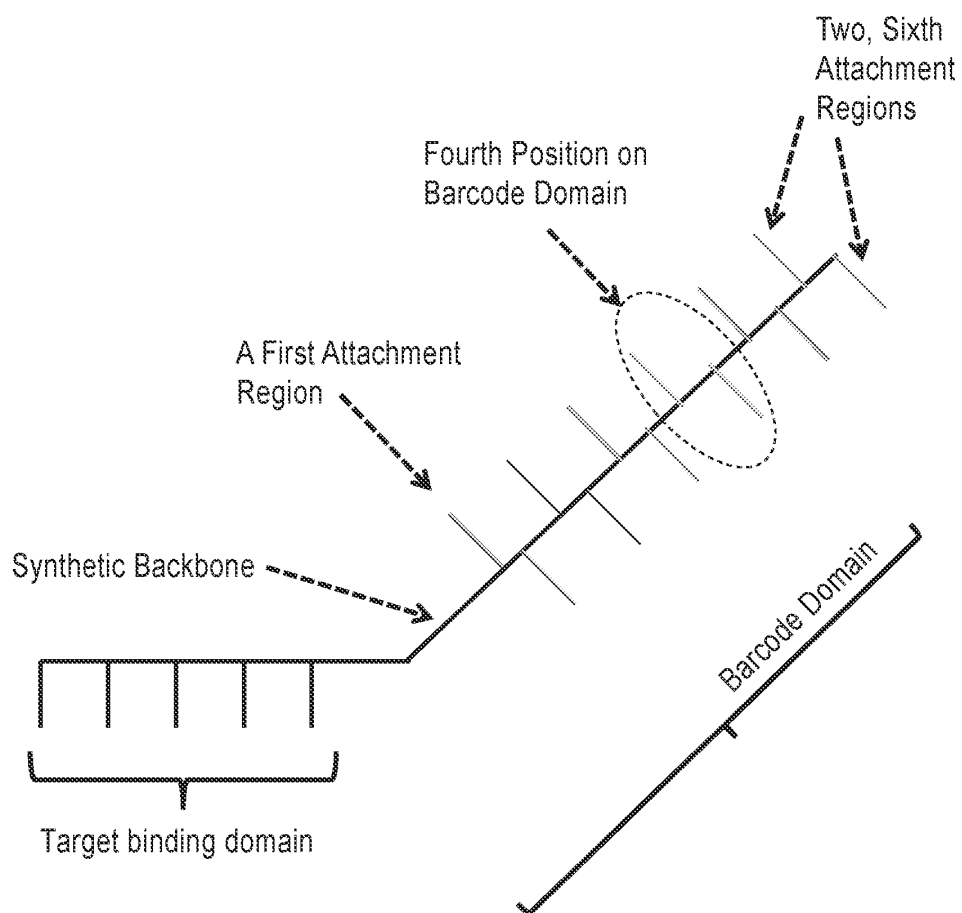


Figure 2

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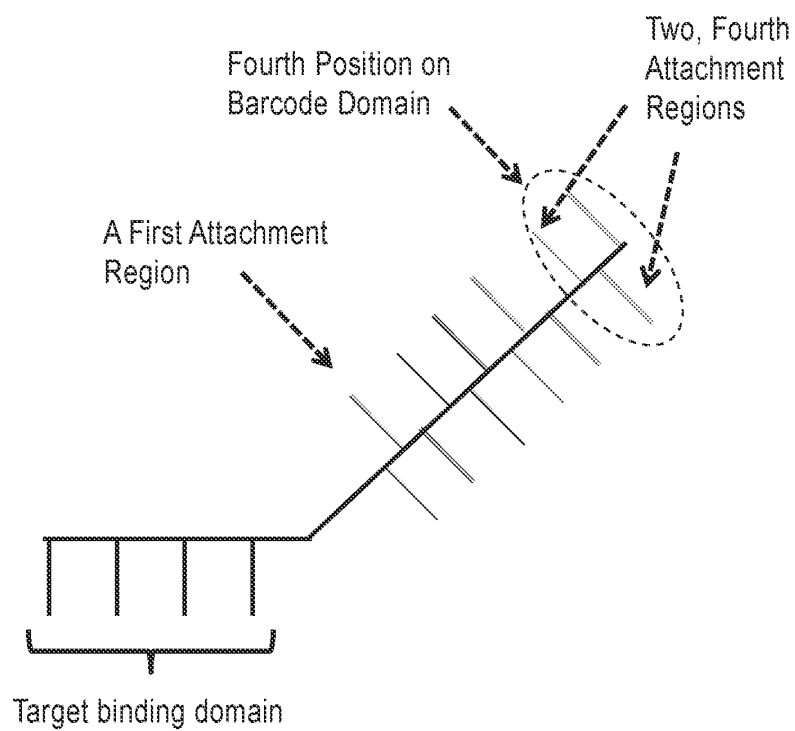


Figure 3

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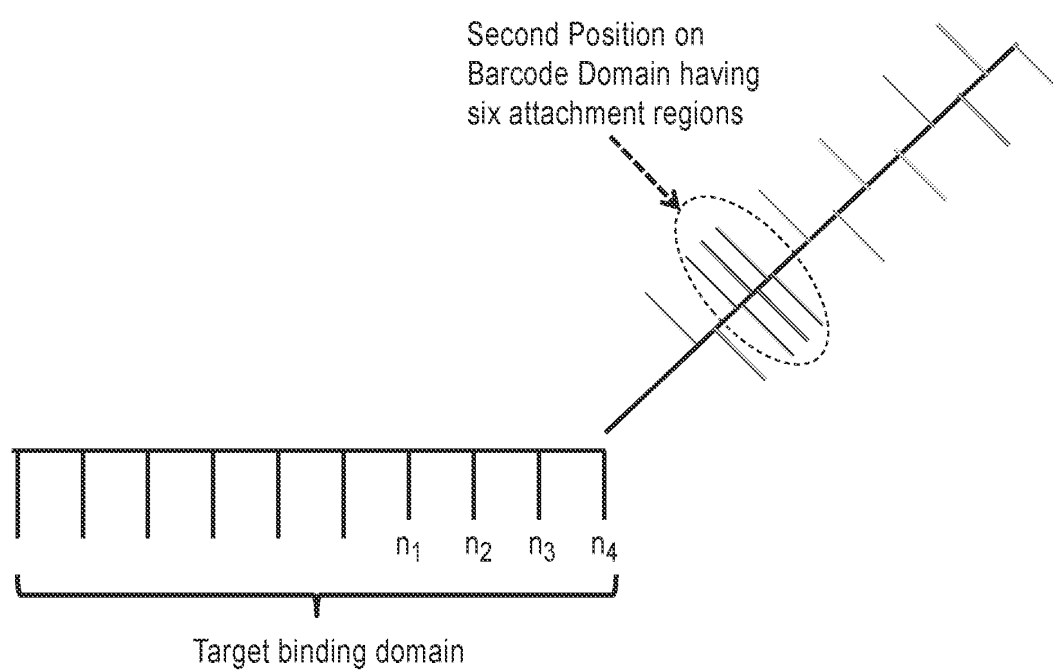


Figure 4

5/45

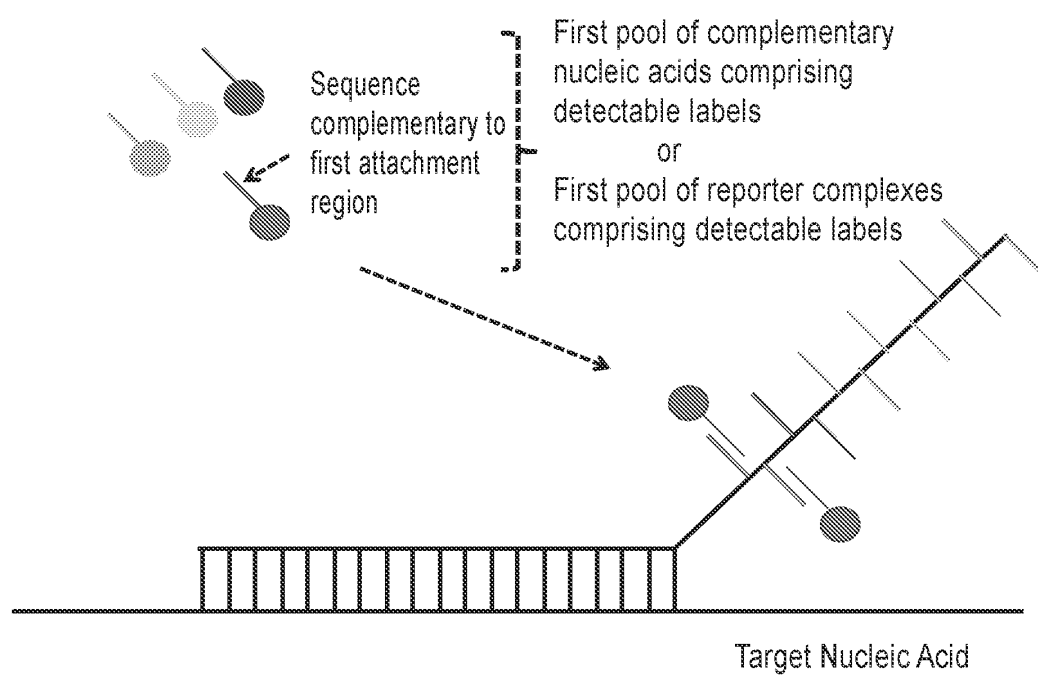


Figure 5A

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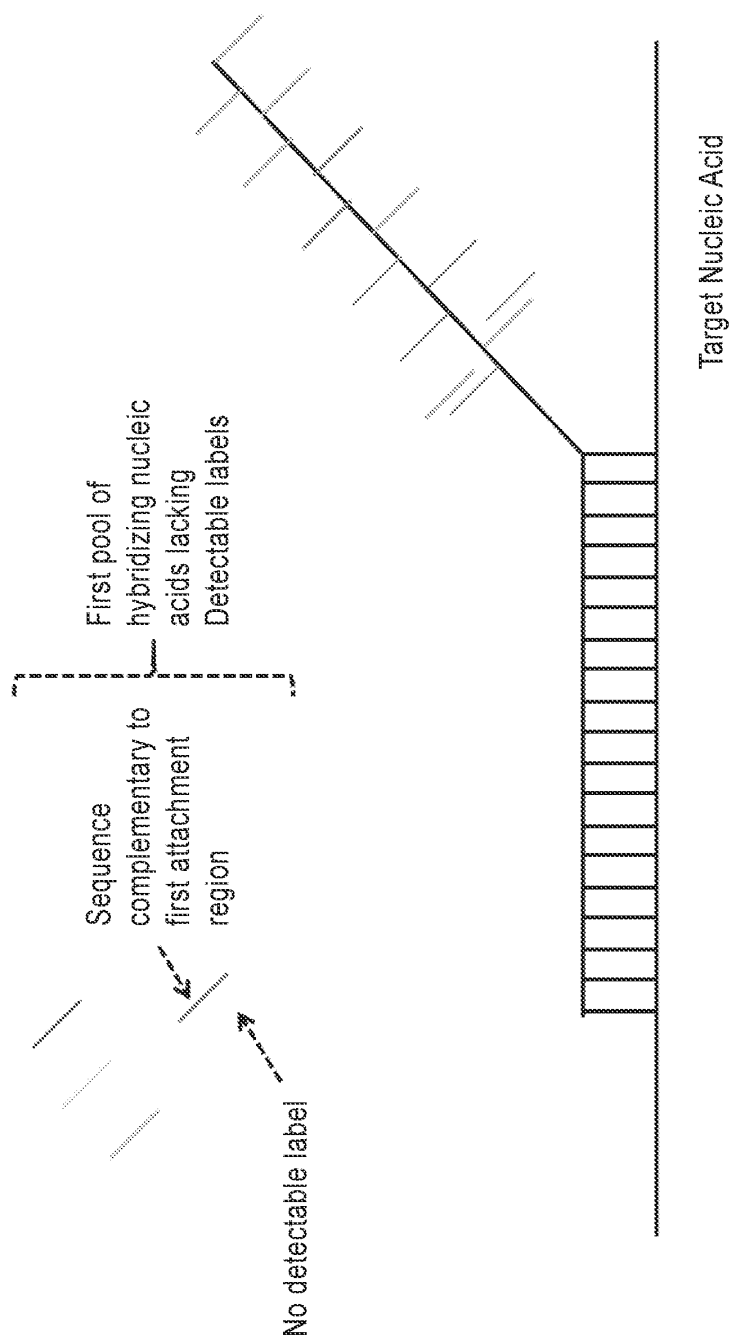


Figure 5B

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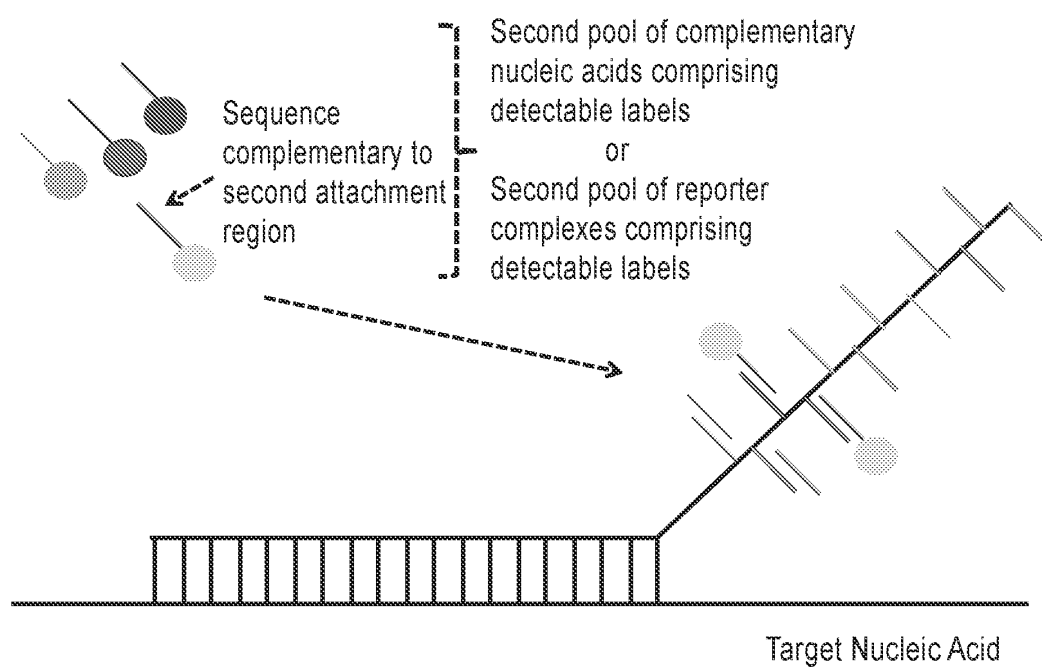


Figure 5C

8/45

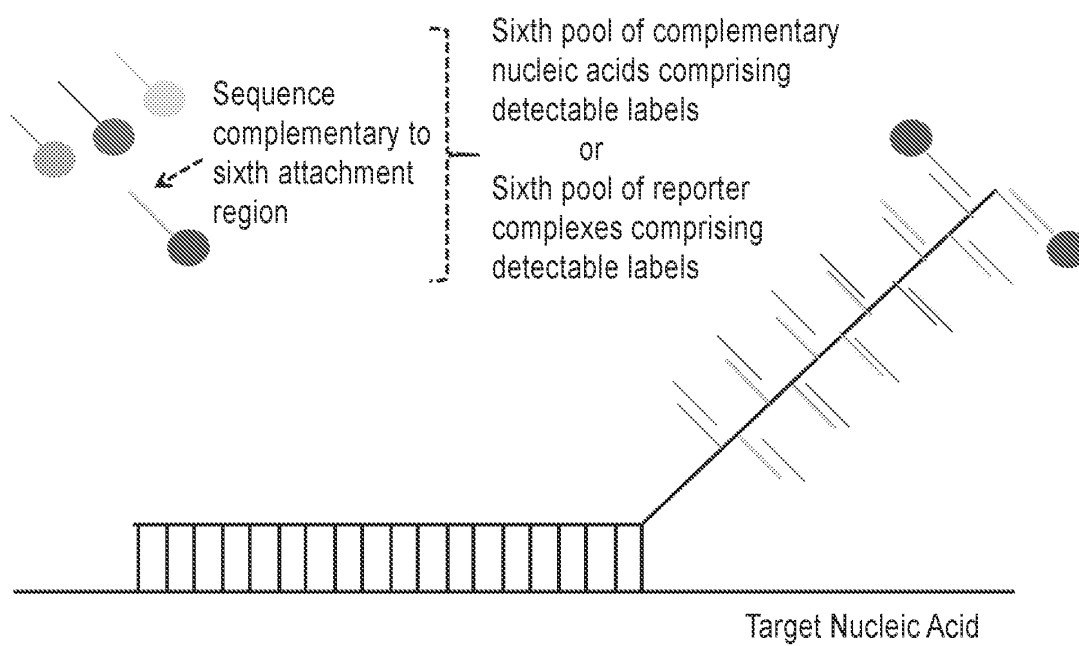


Figure 5D

9/45

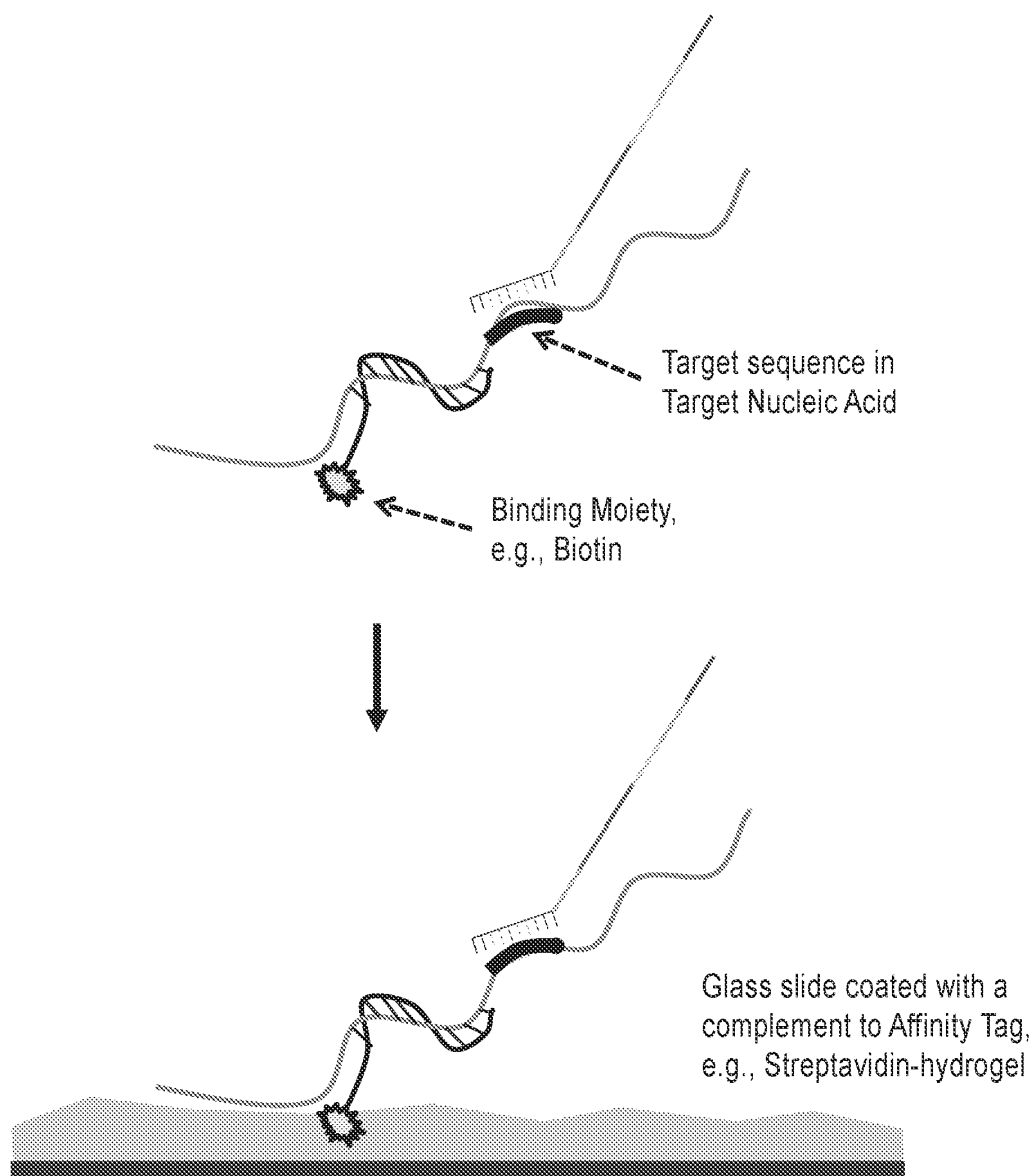


Figure 6

10/45

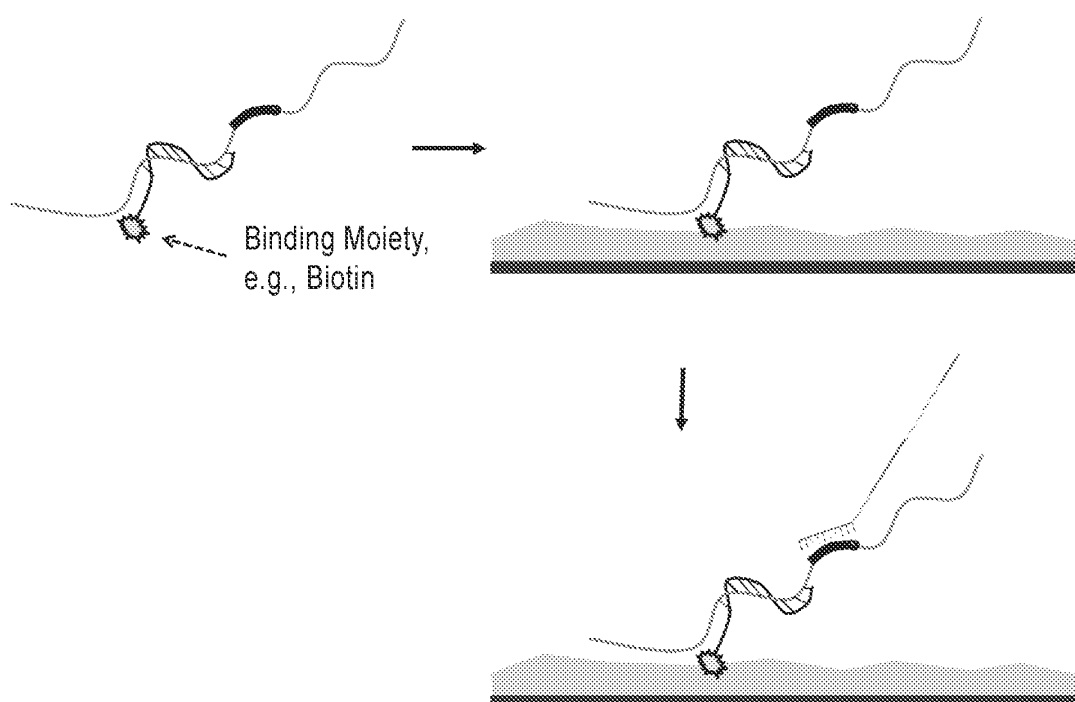


Figure 7

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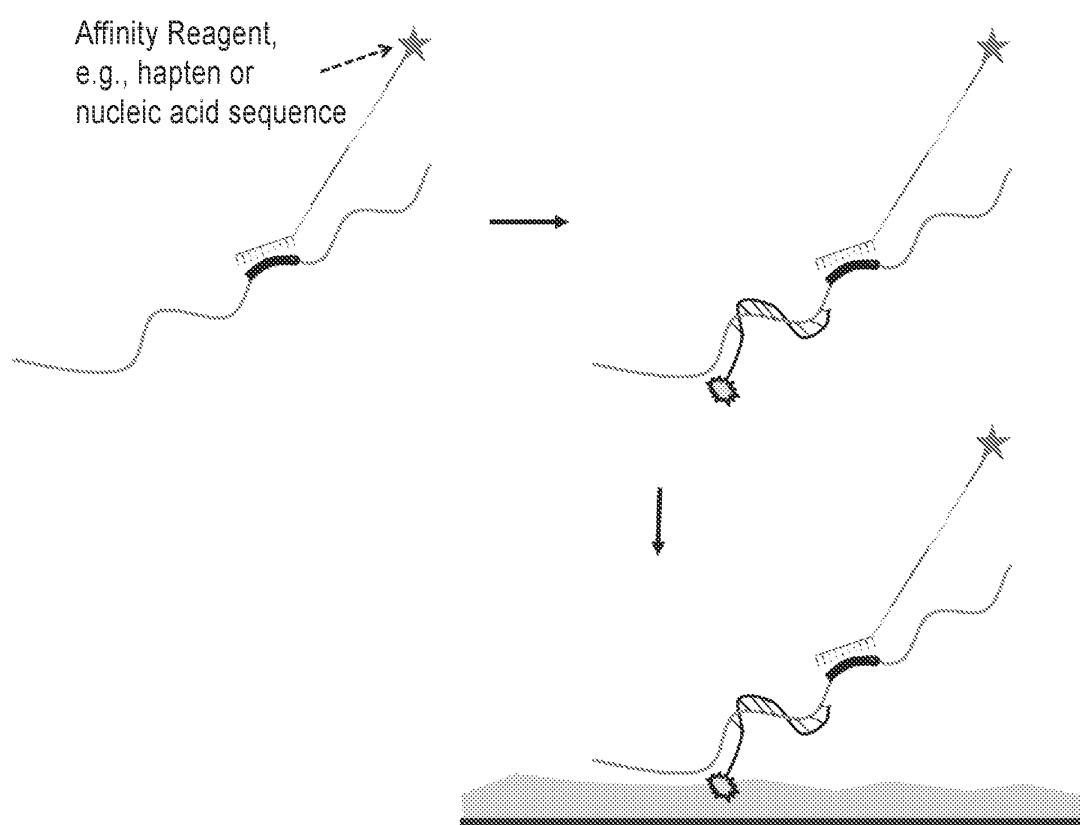


Figure 8A

12/45

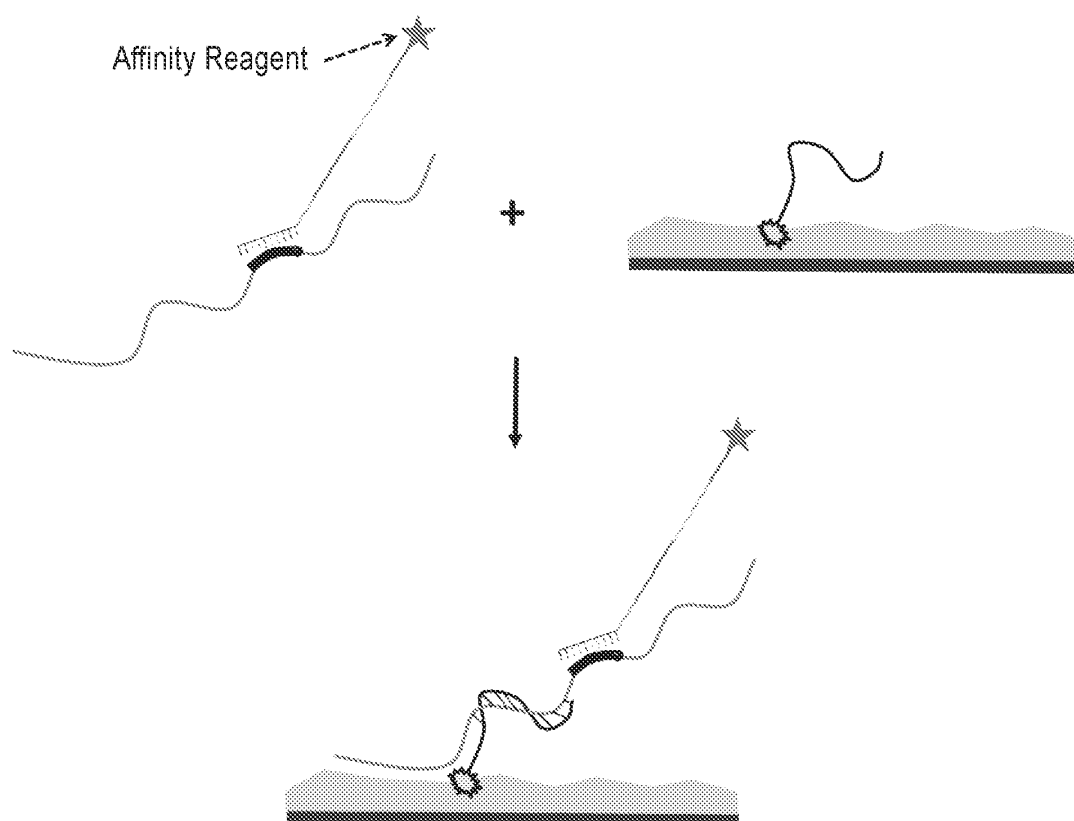


Figure 8B

13/45

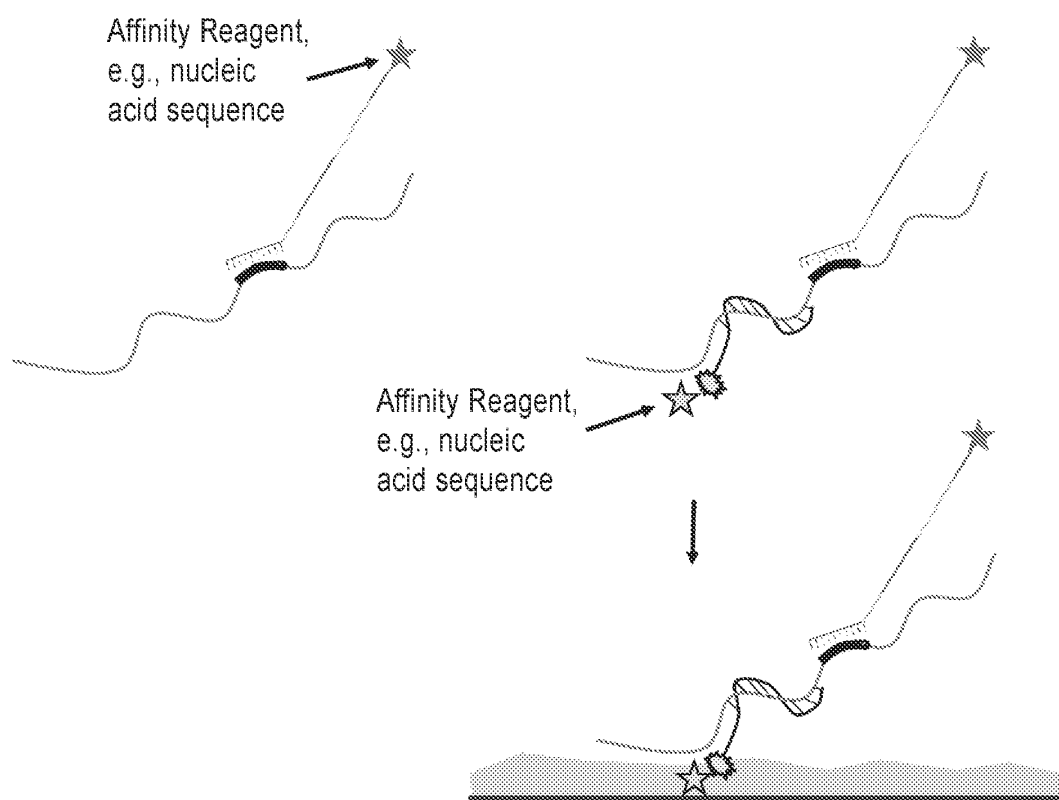


Figure 8C

14/45

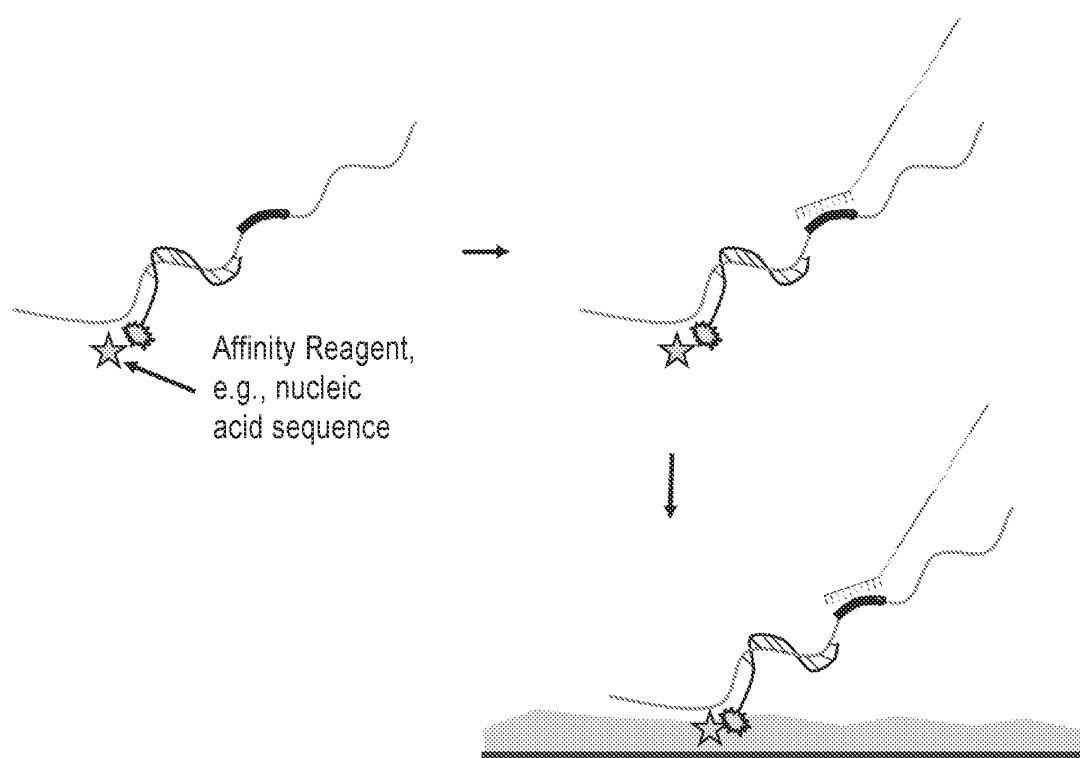


Figure 8D

15/45

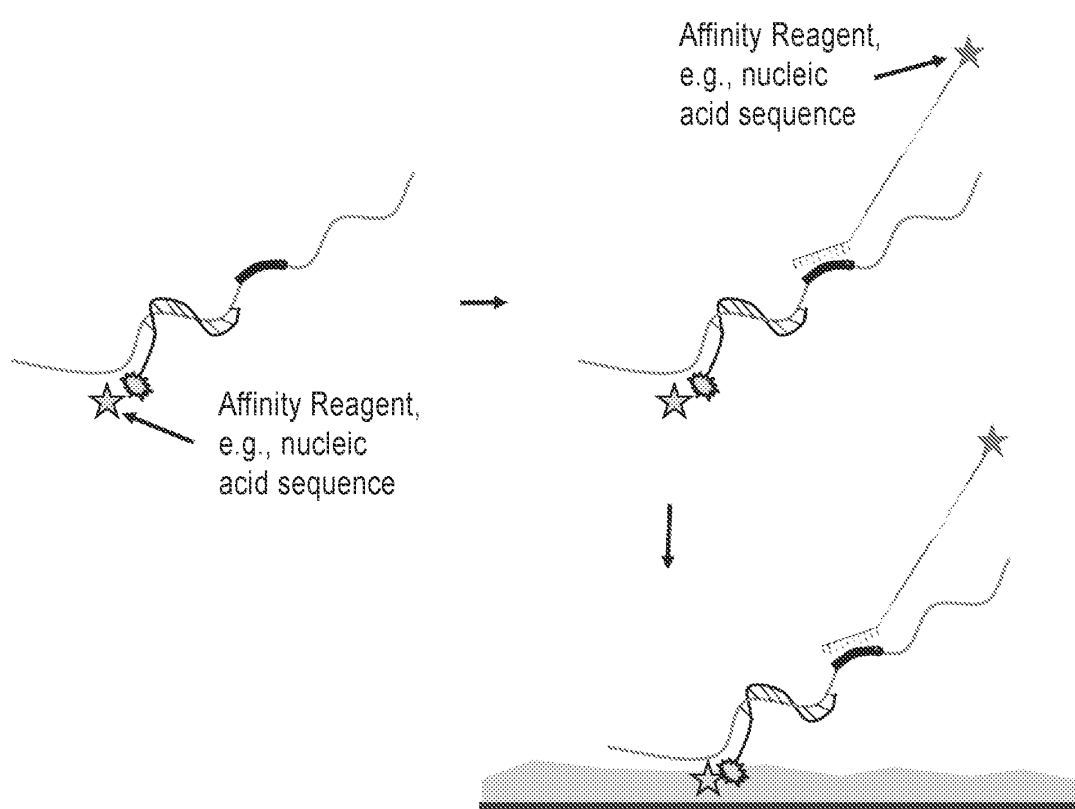


Figure 8E

16/45

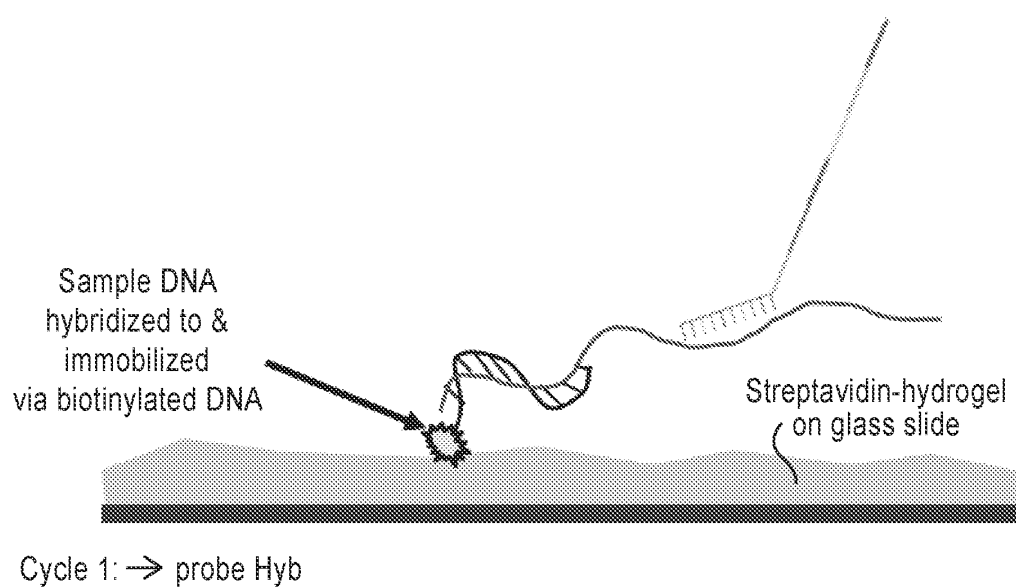


Figure 9A

Reporter complex comprising a detectable label

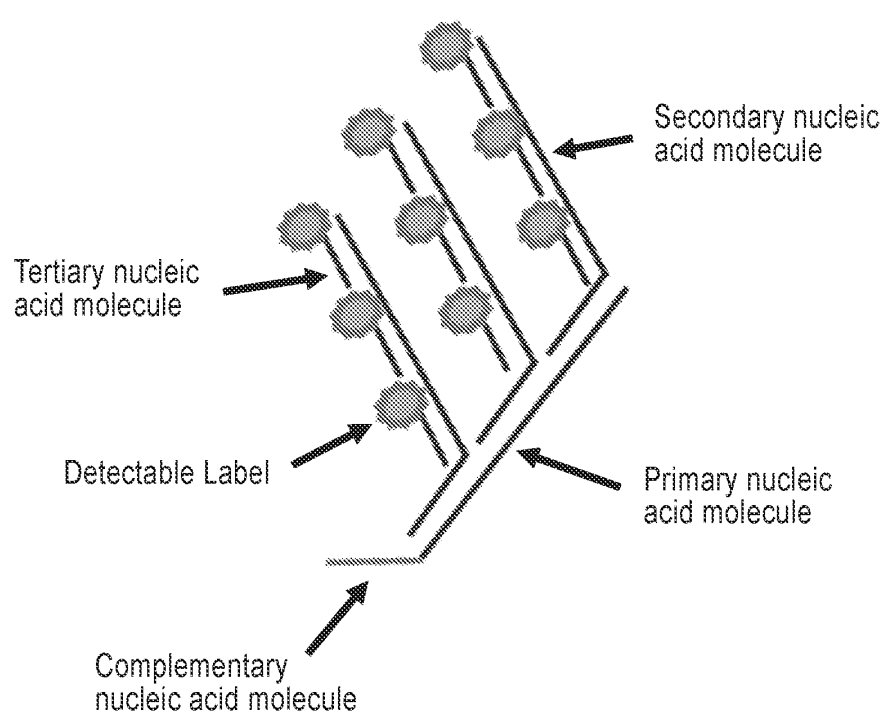


Figure 9B

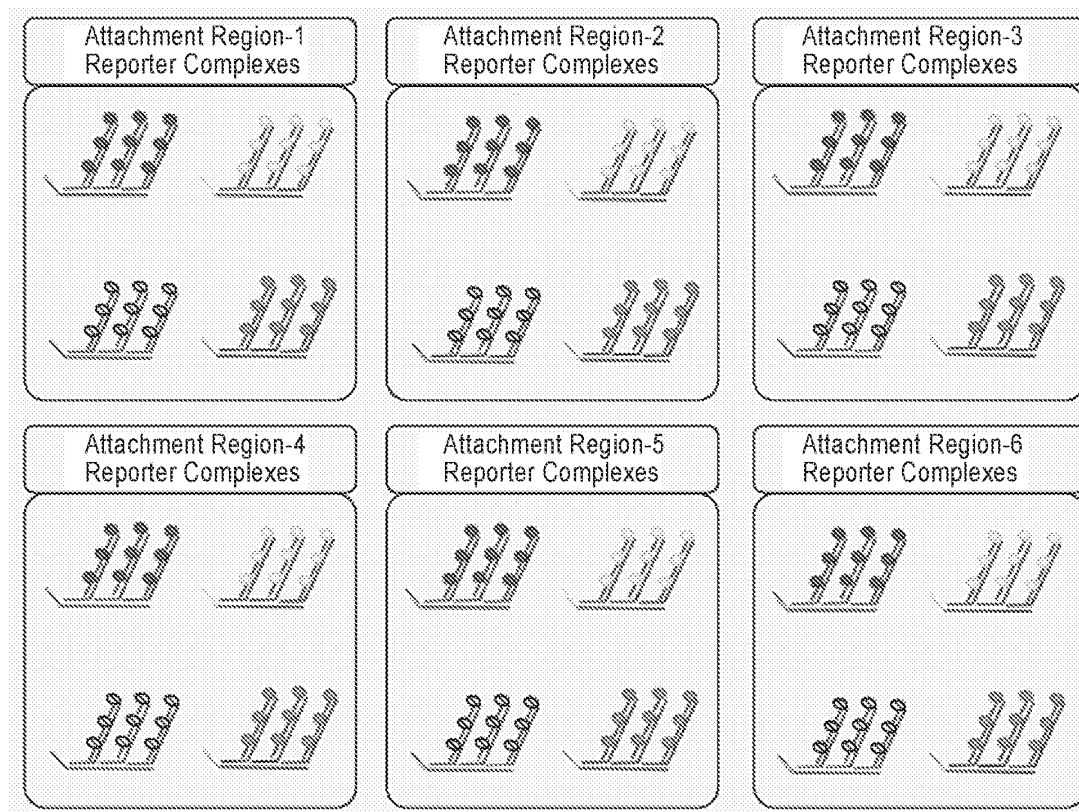


Figure 9C

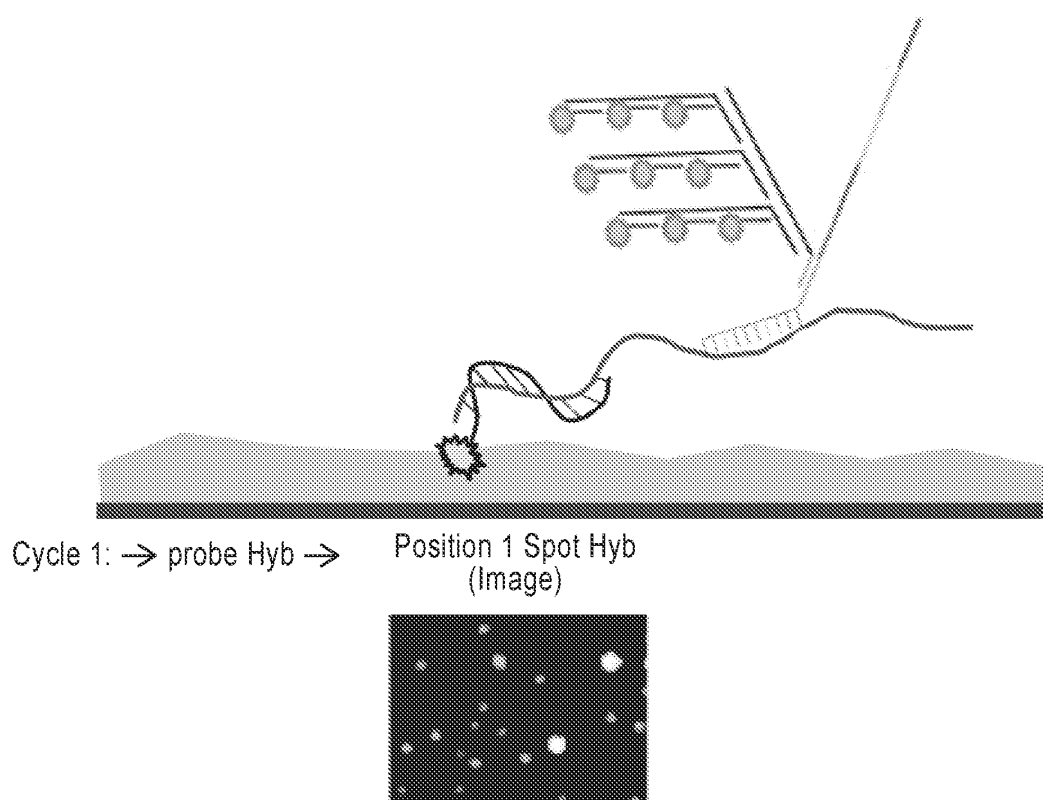


Figure 9D

20/45

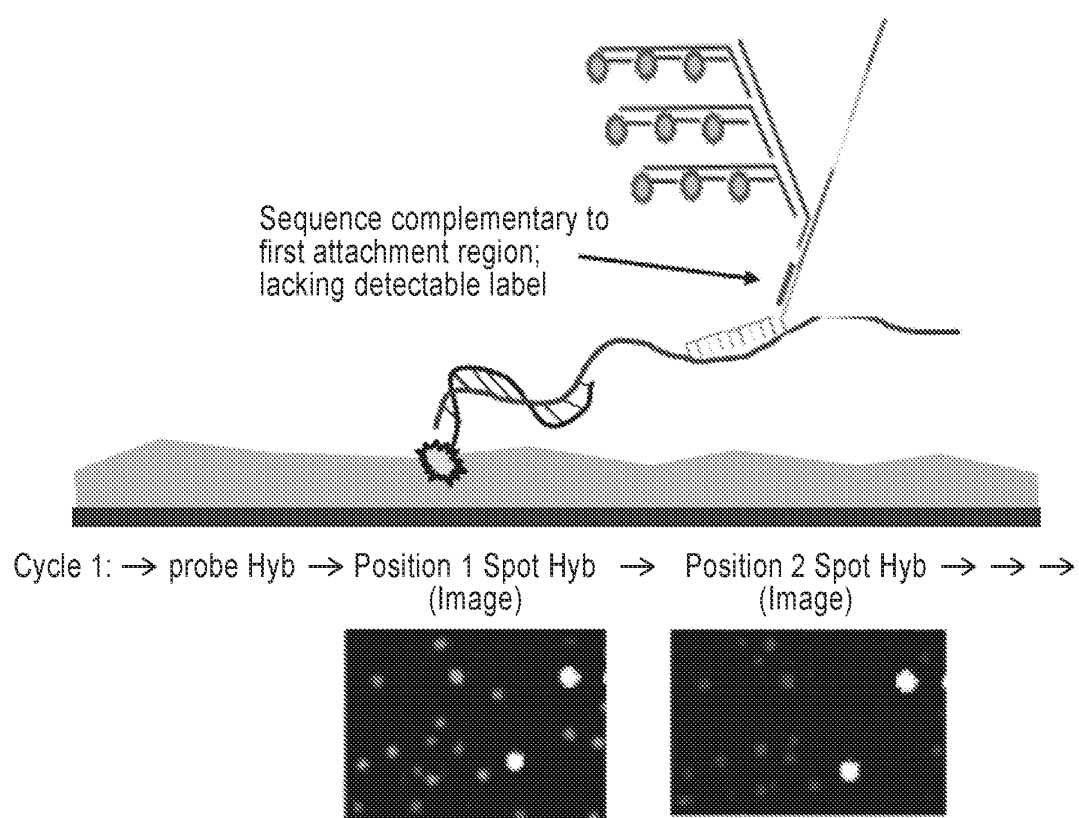


Figure 9E

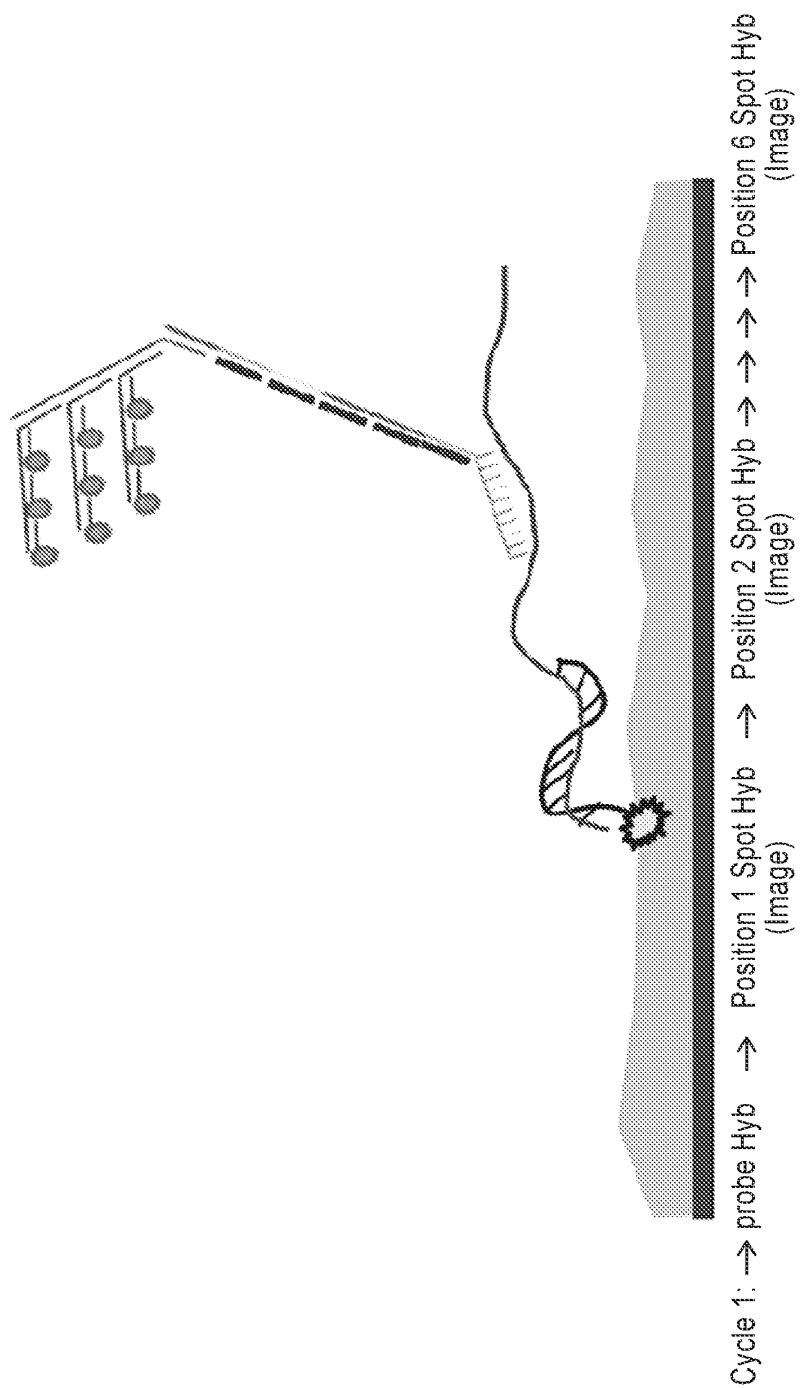


Figure 9F

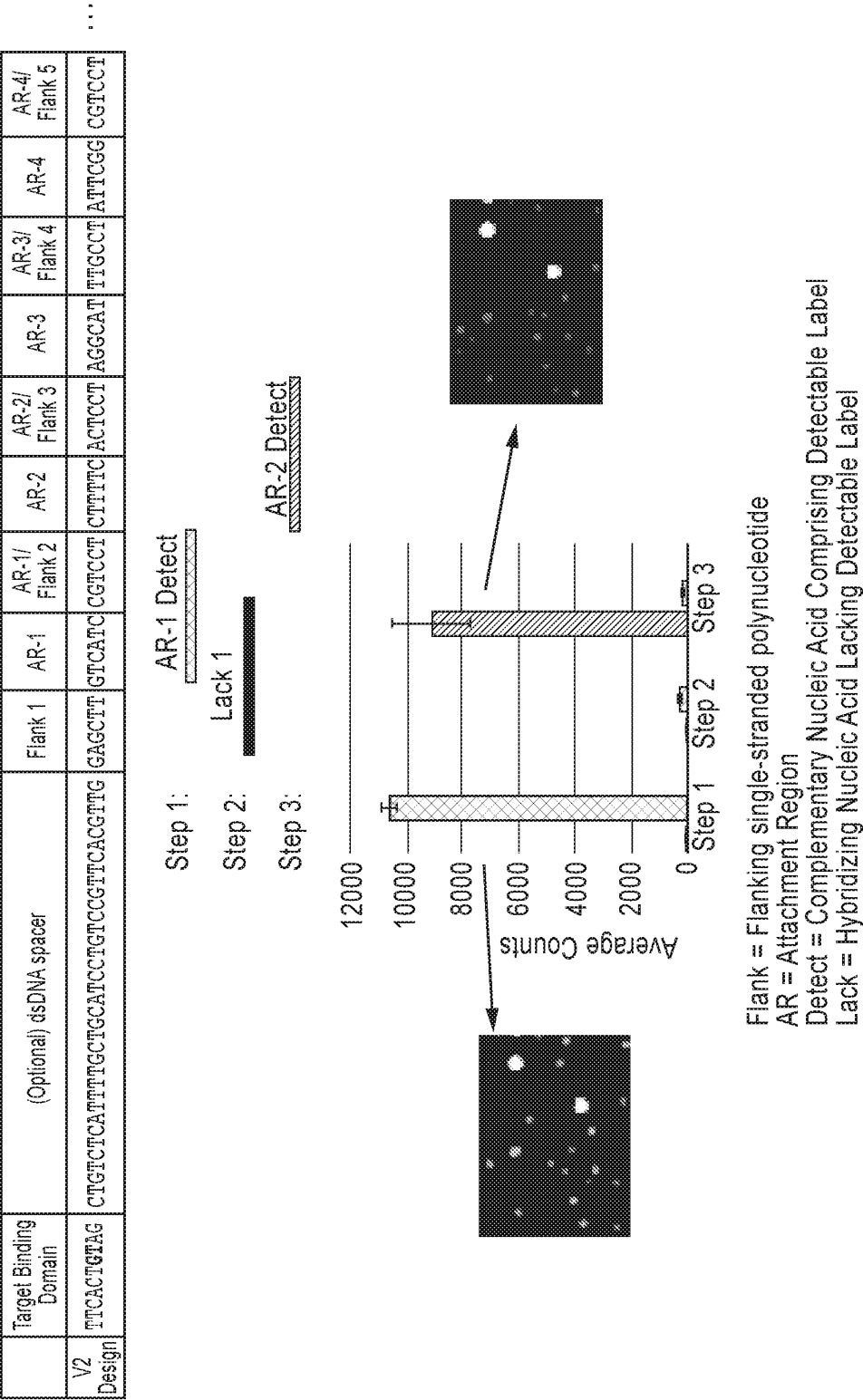


Figure 10

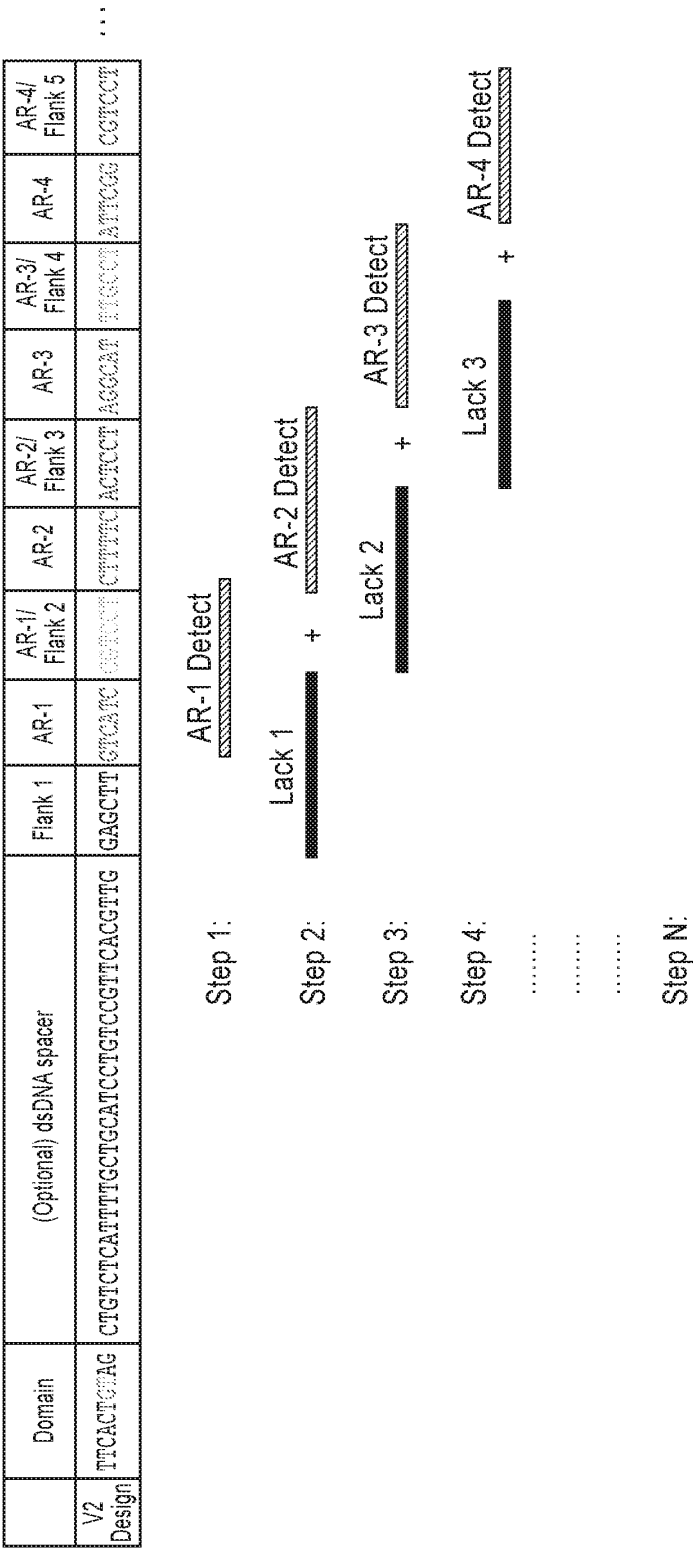


Figure 11

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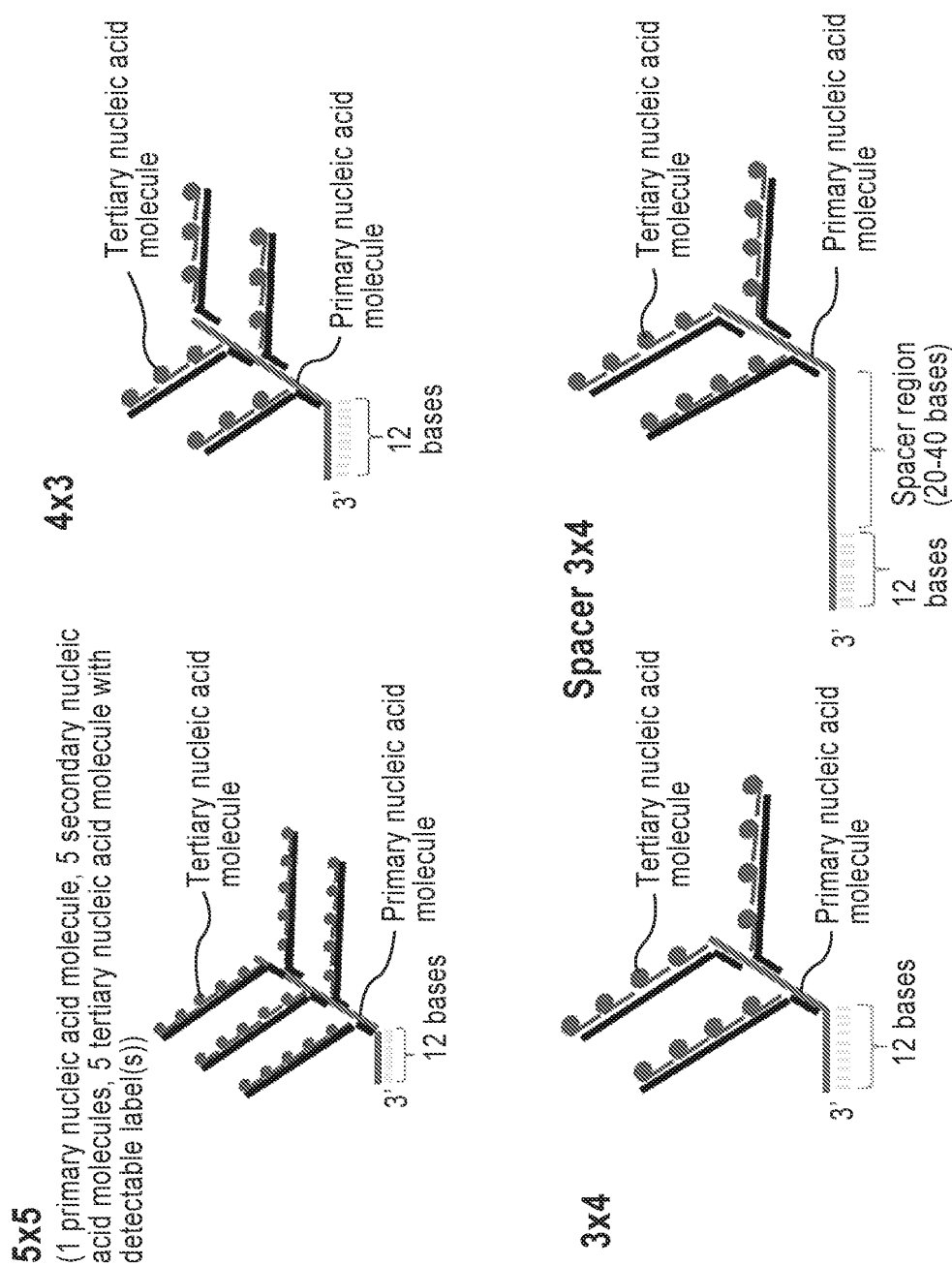
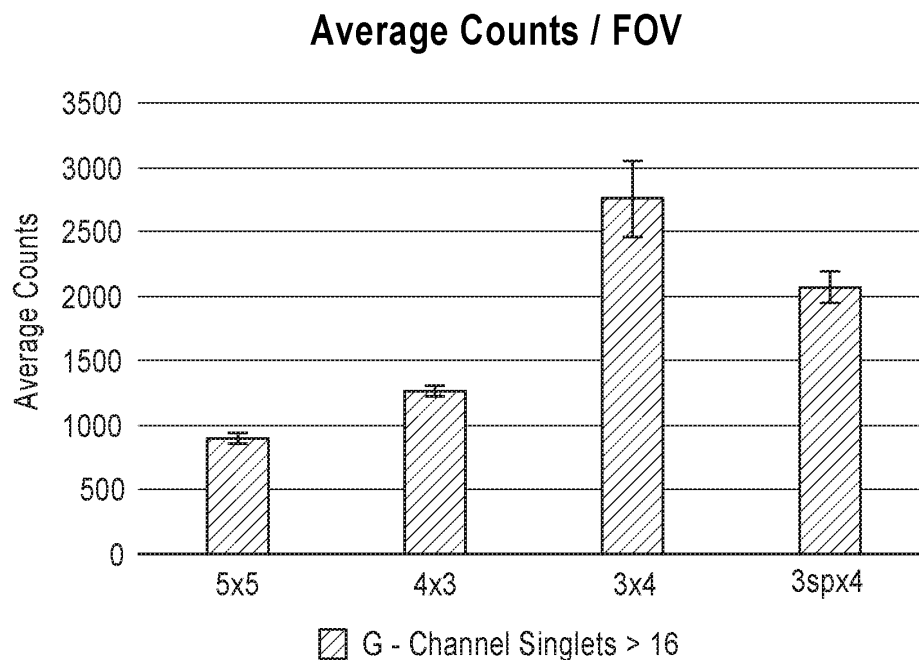


Figure 12A

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**Figure 12B**

Exemplary recipe for constructing reporter complexes comprising detectable labels

Volume (uL)	Primary n. a. molecule (10uM)	Secondary n. a. molecule (10uM)	Tertiary n. a. molecule (100uM)	H2O
5x4	1	4.5	2.25	92.25
5x3	1	4.5	1.8	92.7
4x4	1.28	4.5	2.25	91.97
4x3	1.28	4.5	1.8	92.42
3x4	1.8	4.5	2.25	91.45

Figure 12C

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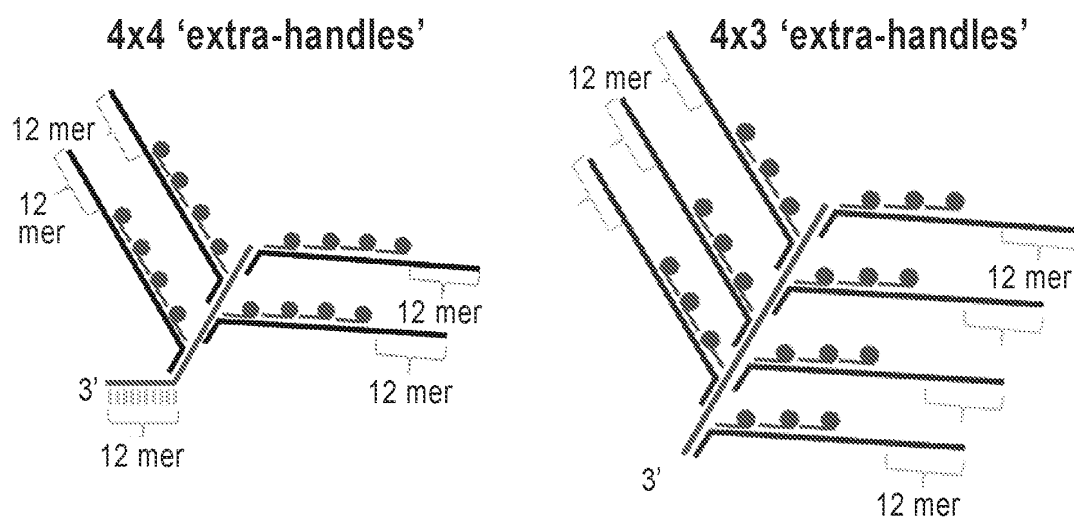


Figure 13A

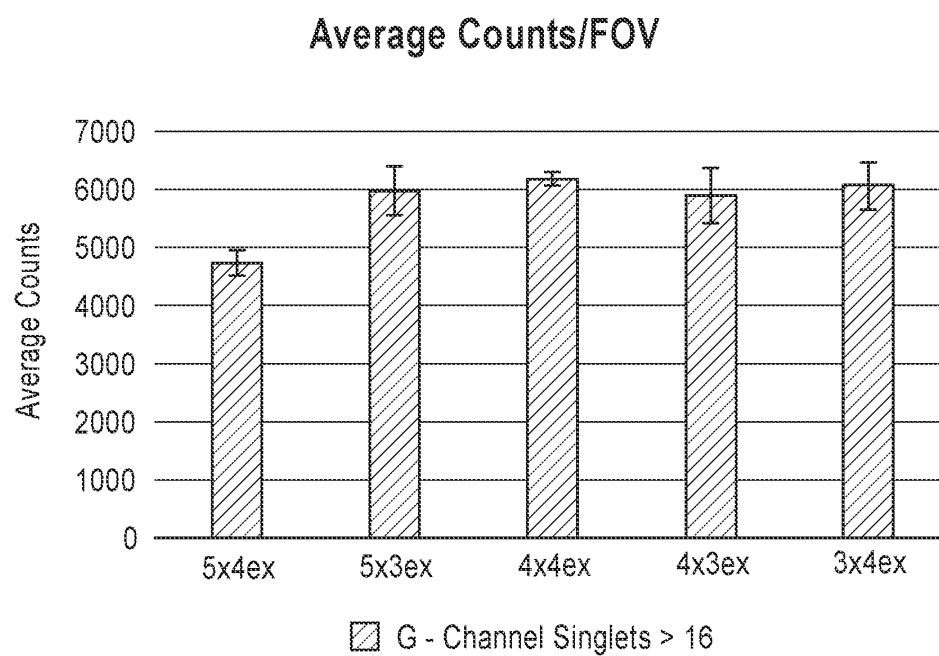


Figure 13B

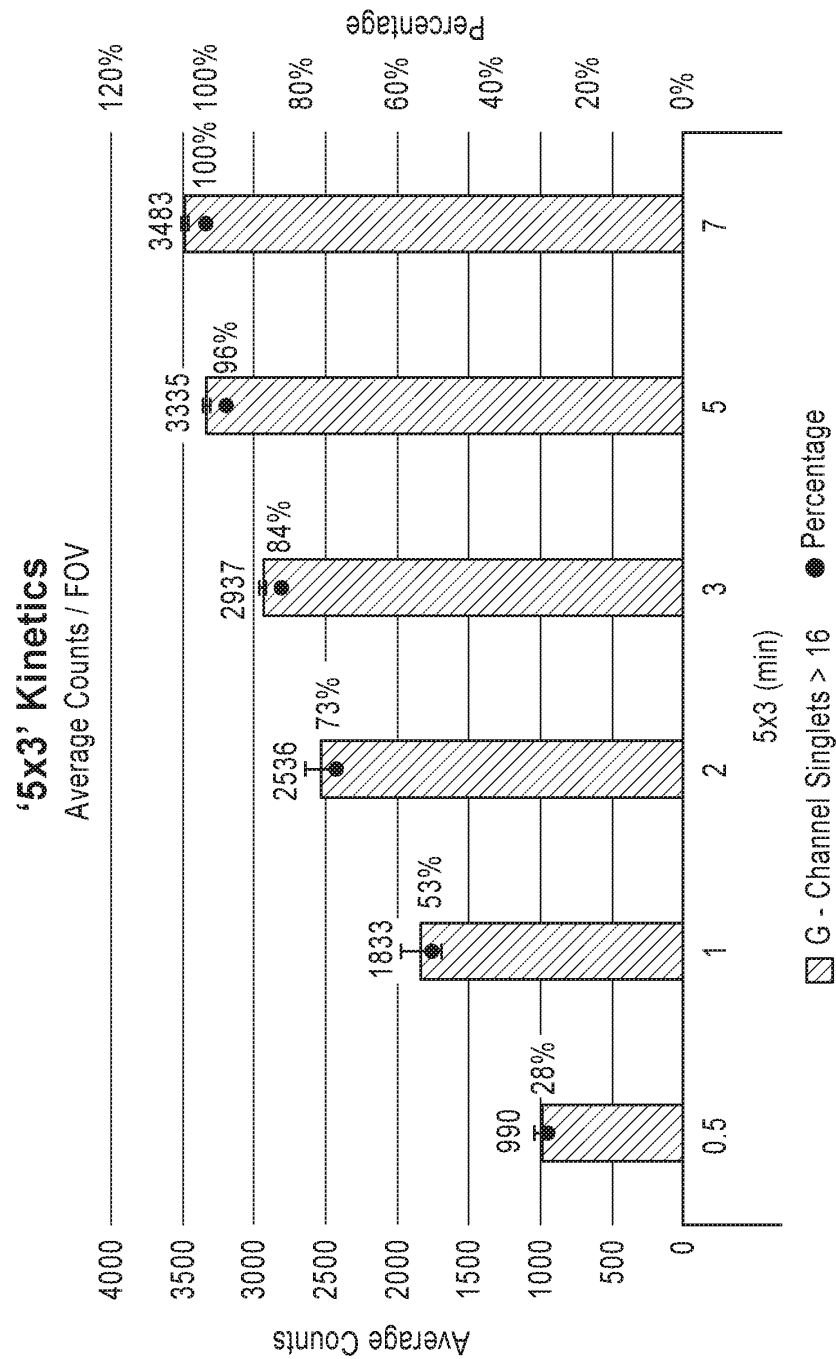


Figure 14A

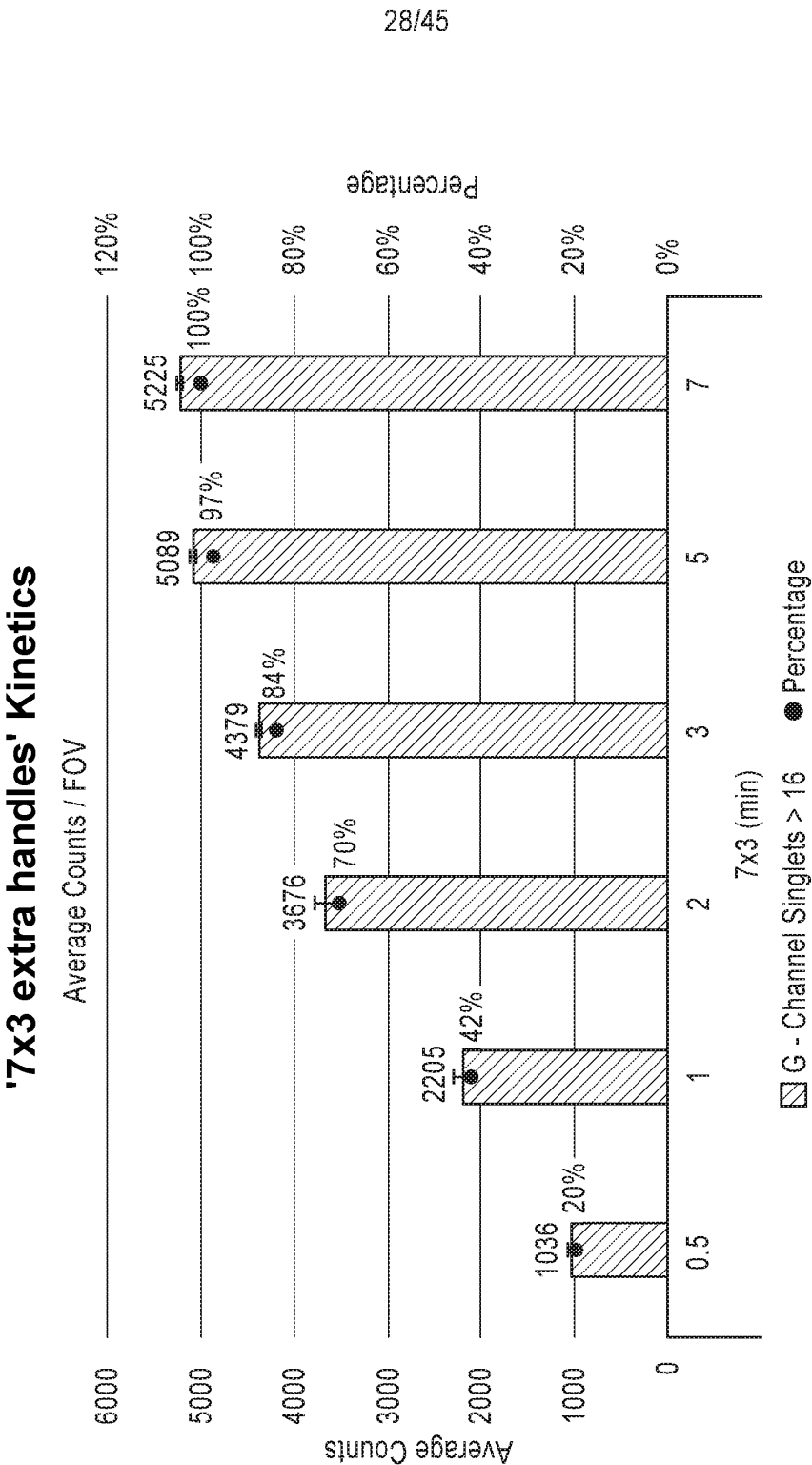
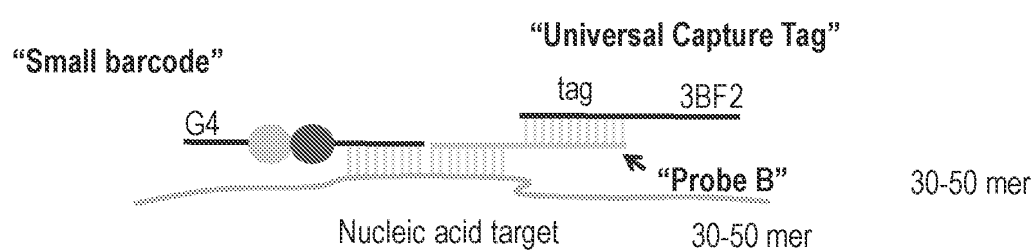


Figure 14B

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2.5nM:RNA input: 2.5nM:9.6nM

Pros

- ~10x more efficient
- 30 min hyb times

Cons

- Multiple reagents
- Multiple scans

Figure 15A

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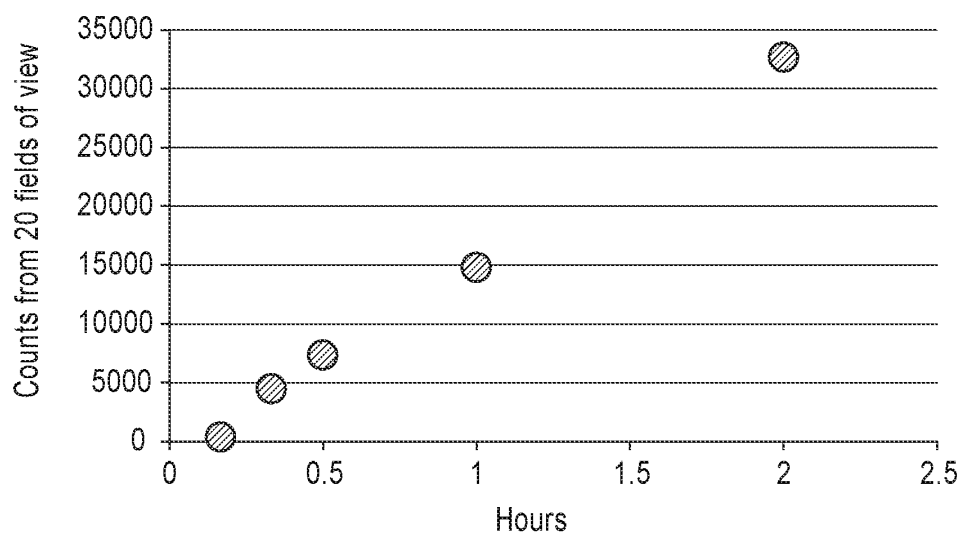


Figure 15B

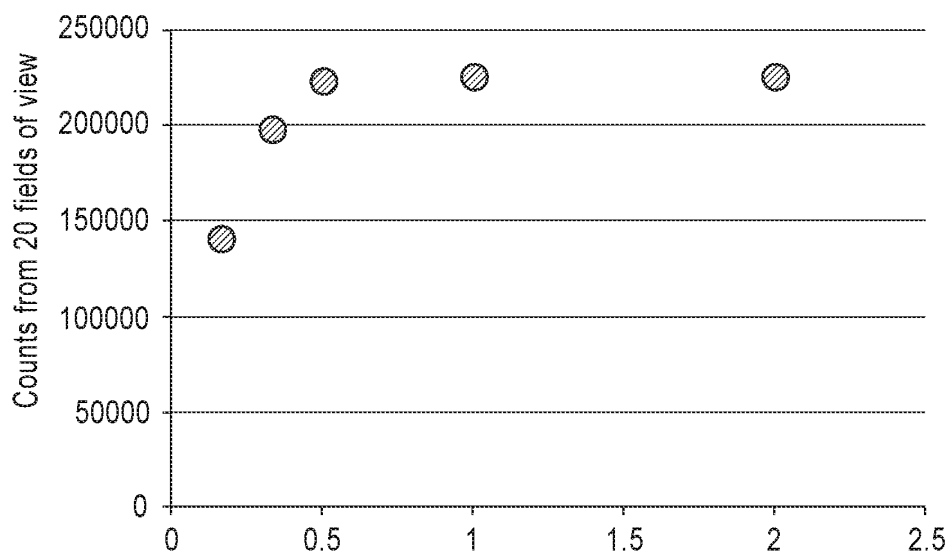


Figure 15C

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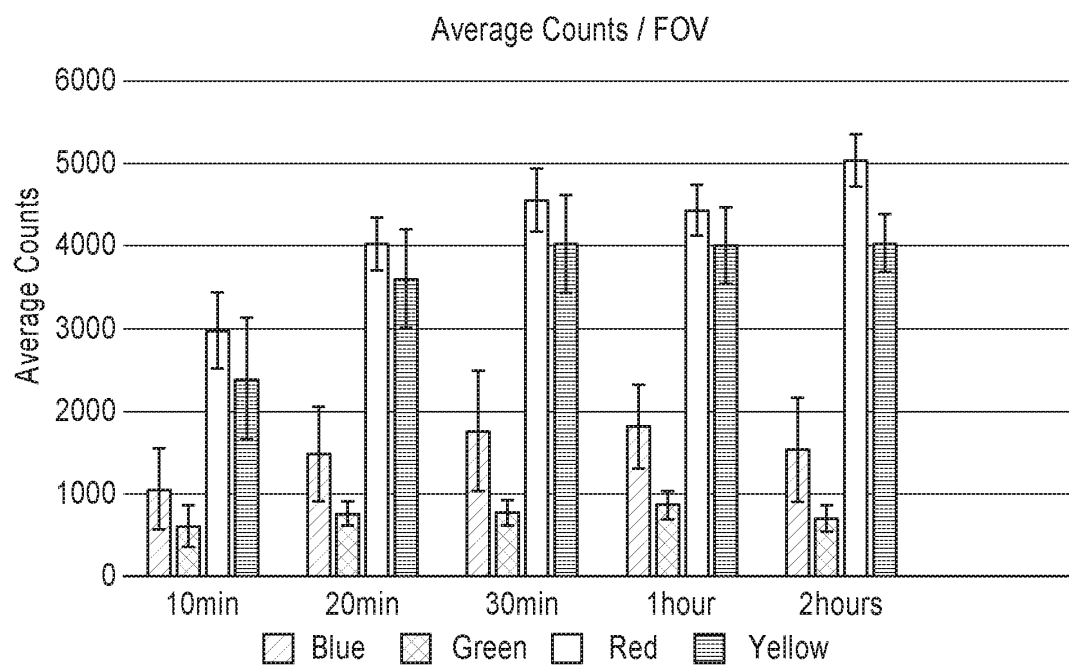


Figure 16A

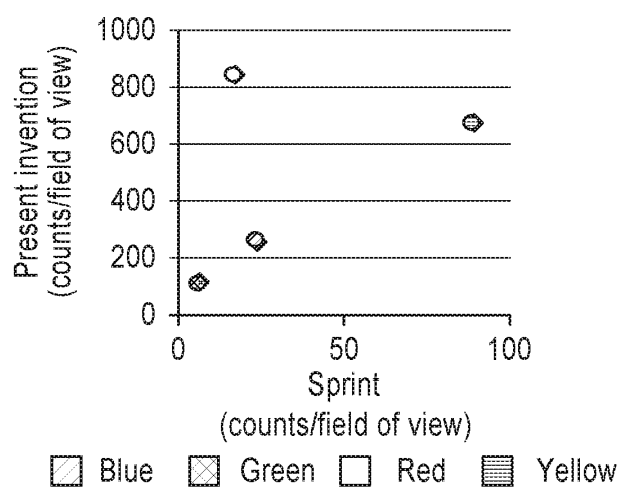


Figure 16B

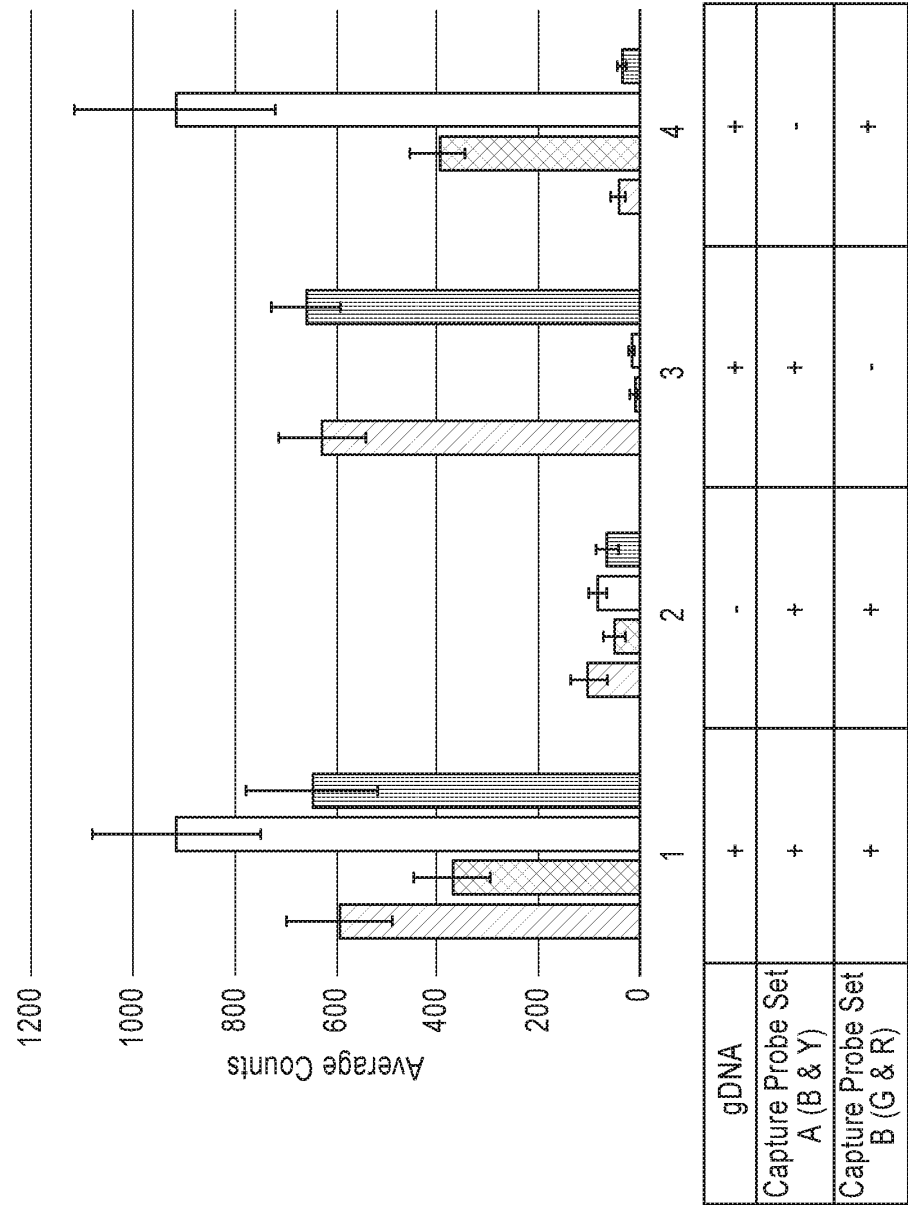


Figure 17A

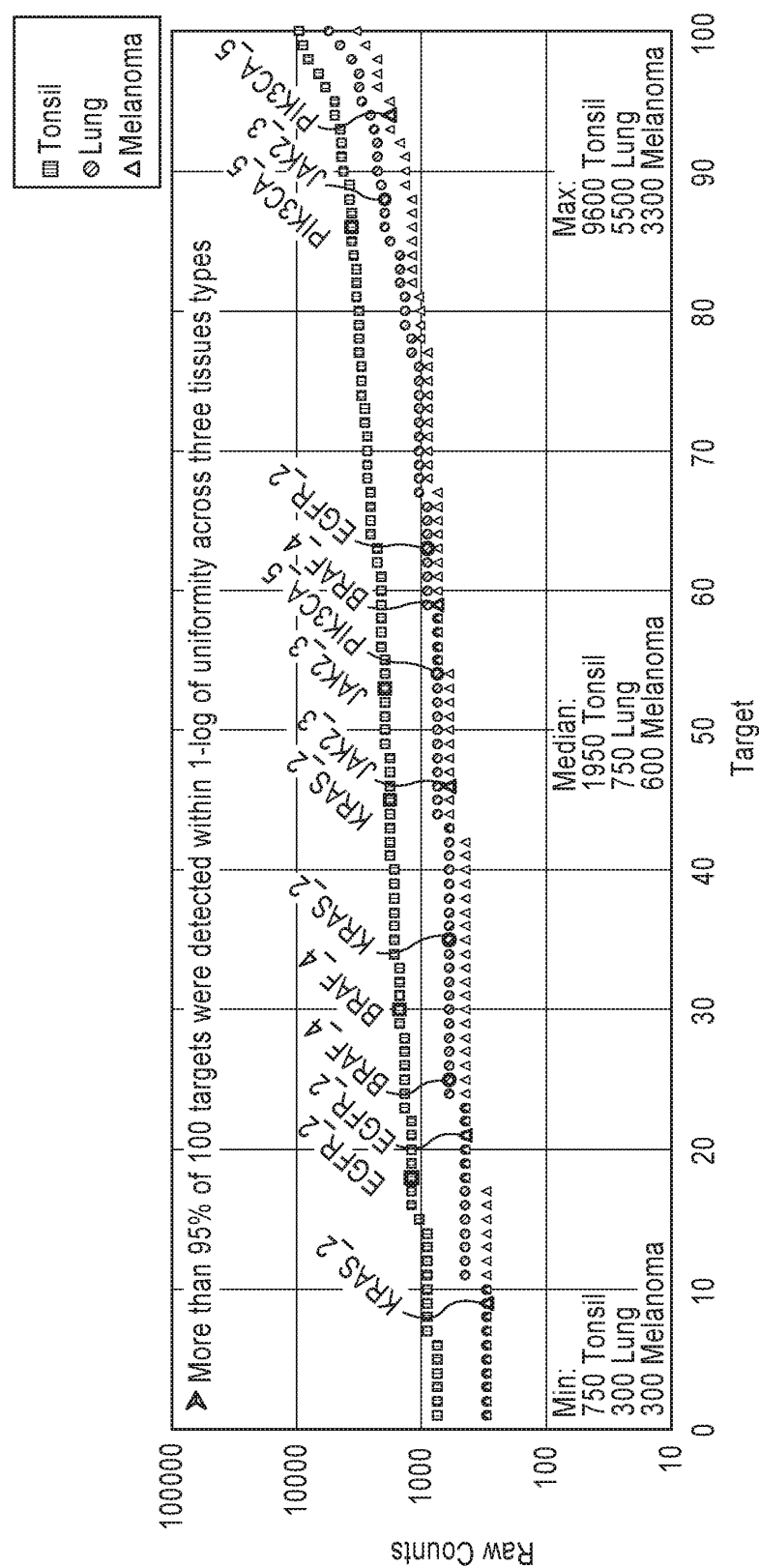


Figure 17B

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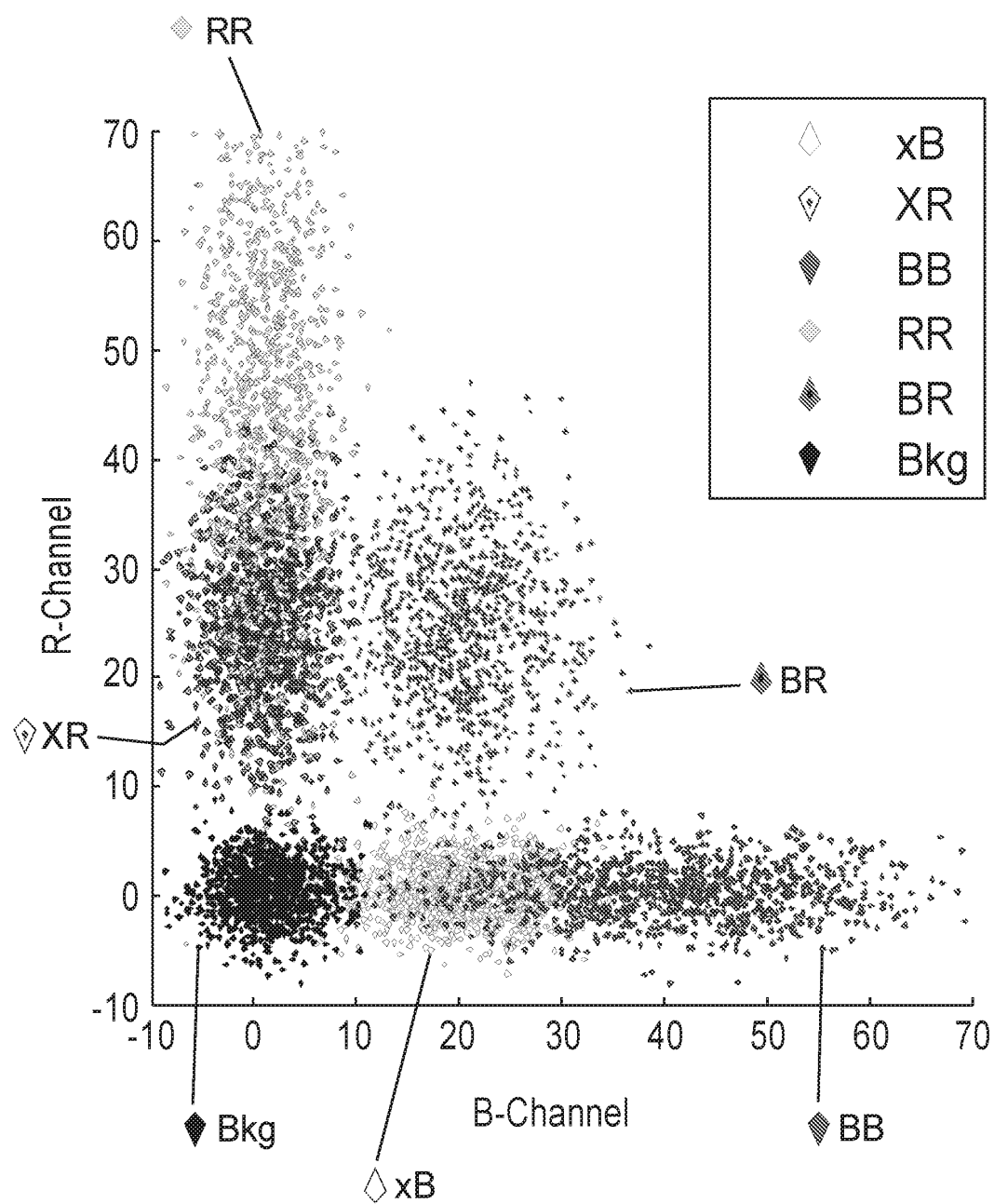


Figure 18

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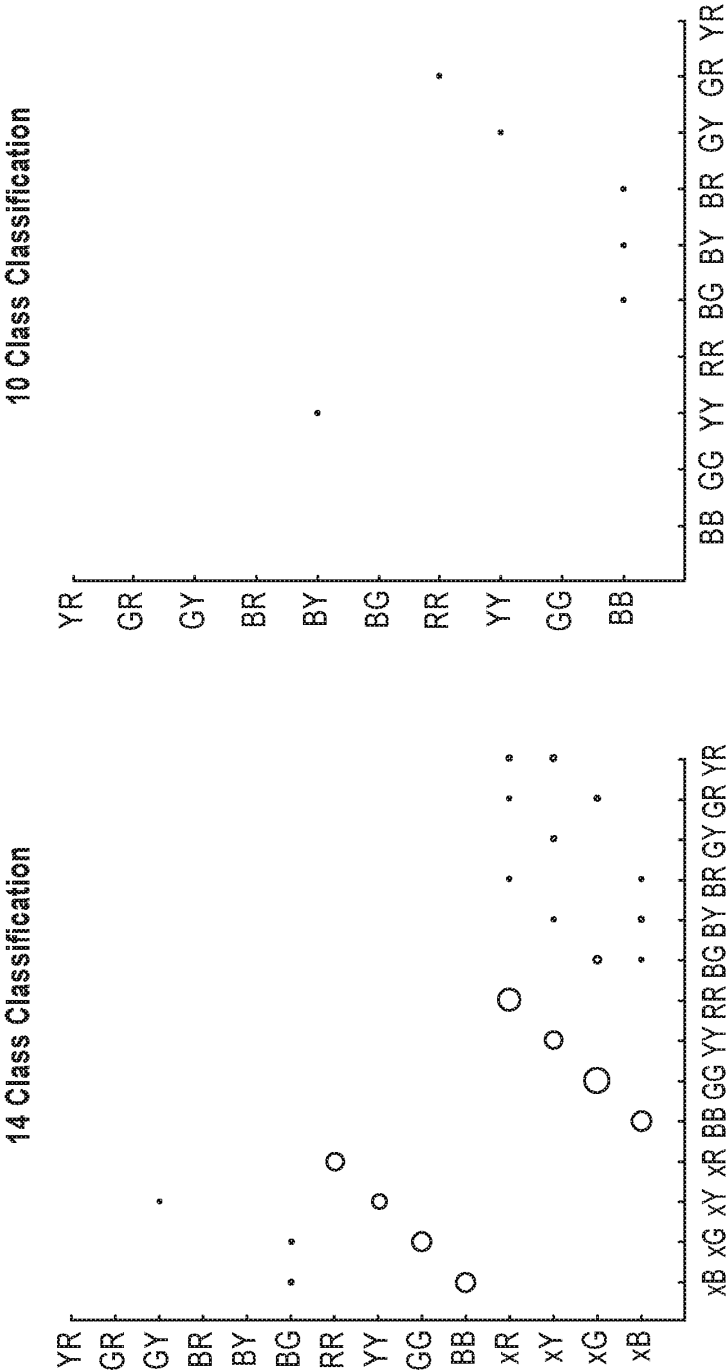


Figure 19

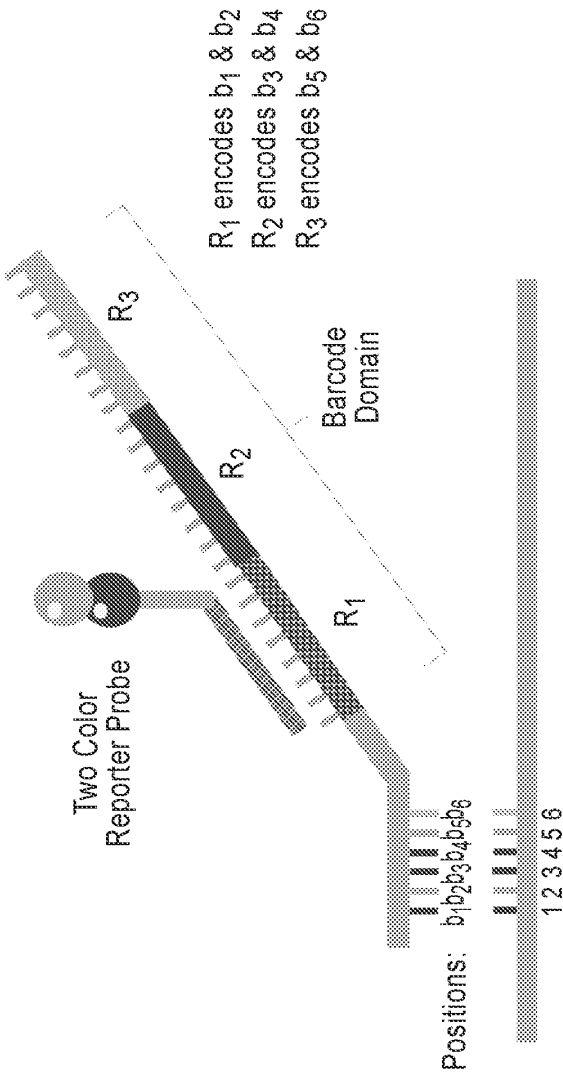


Figure 20

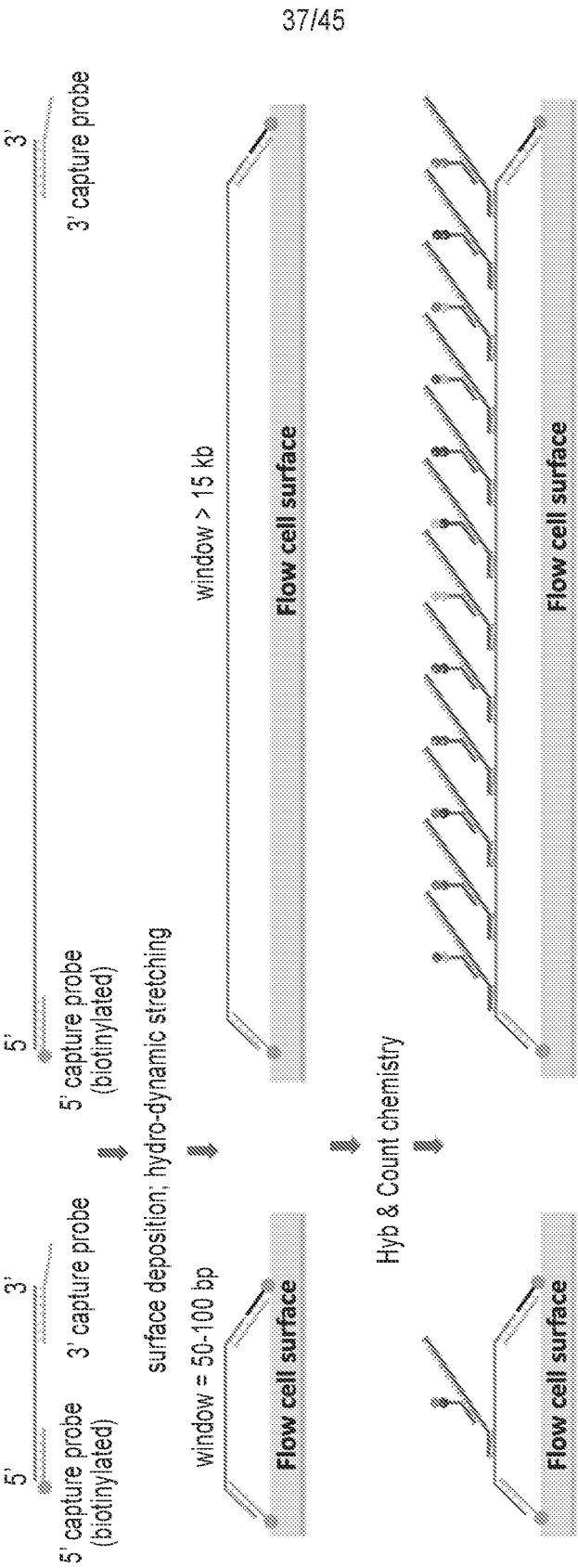


Figure 21

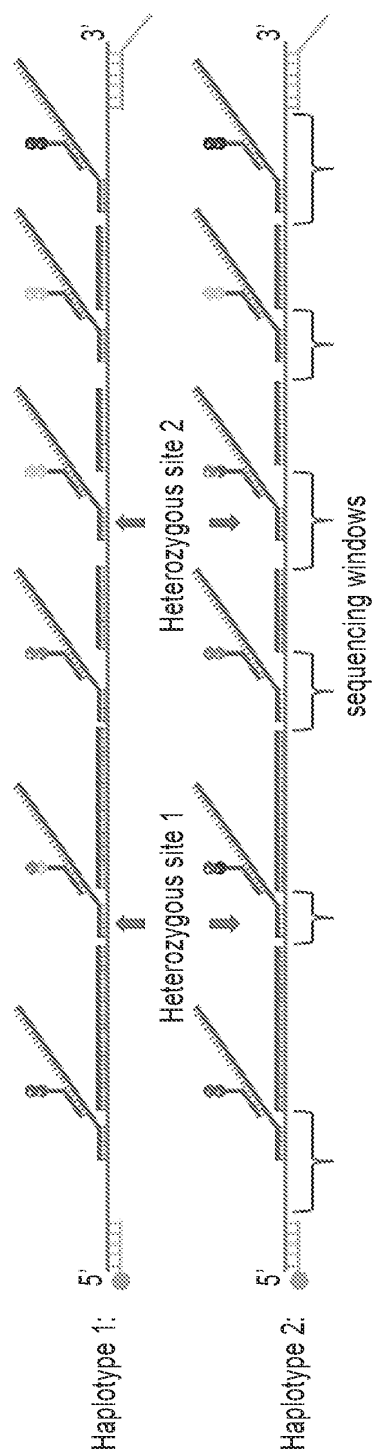


Figure 22

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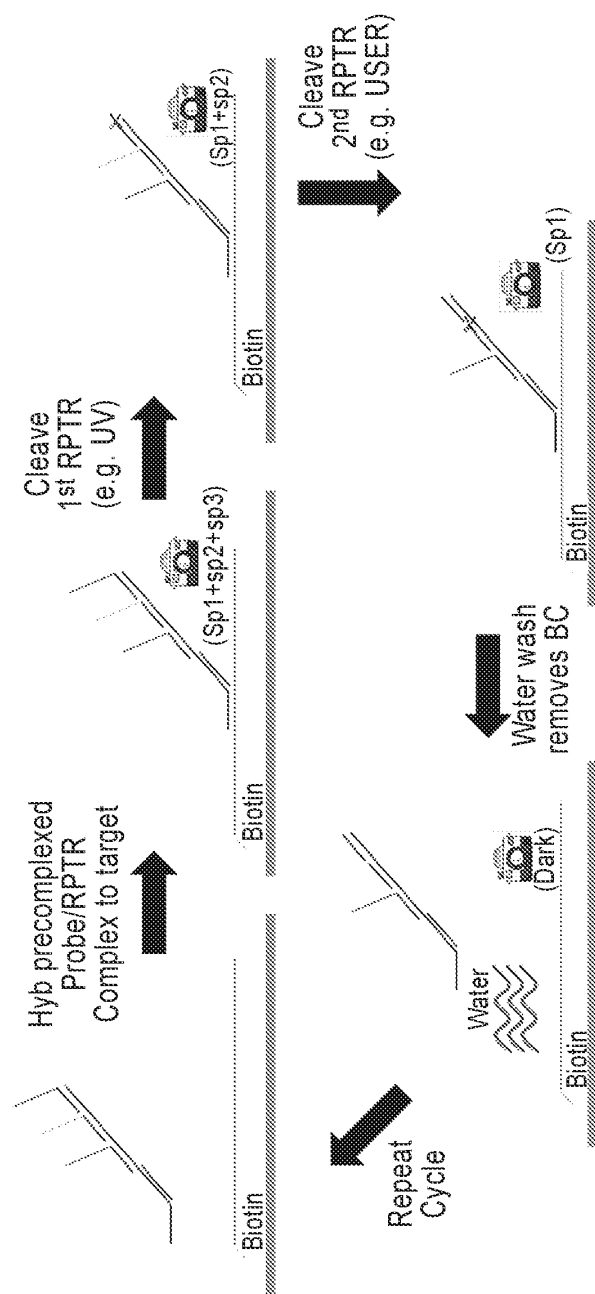


Figure 23

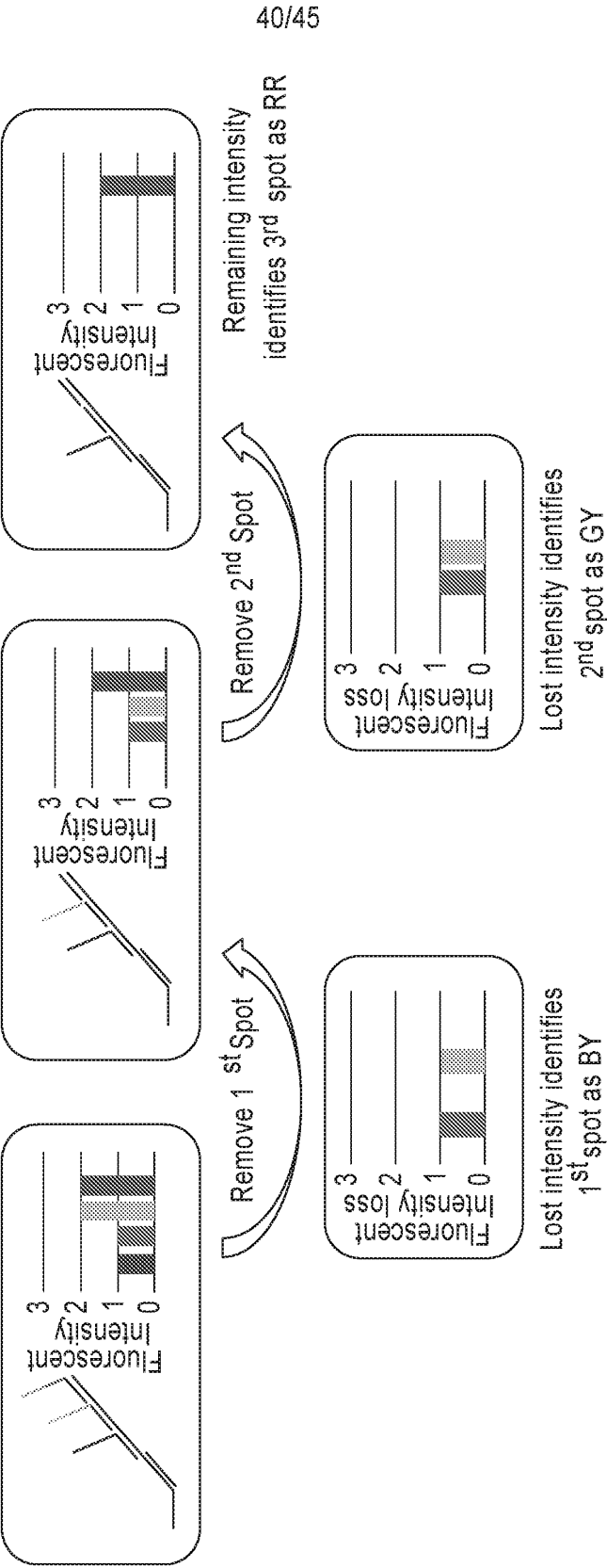


Figure 24

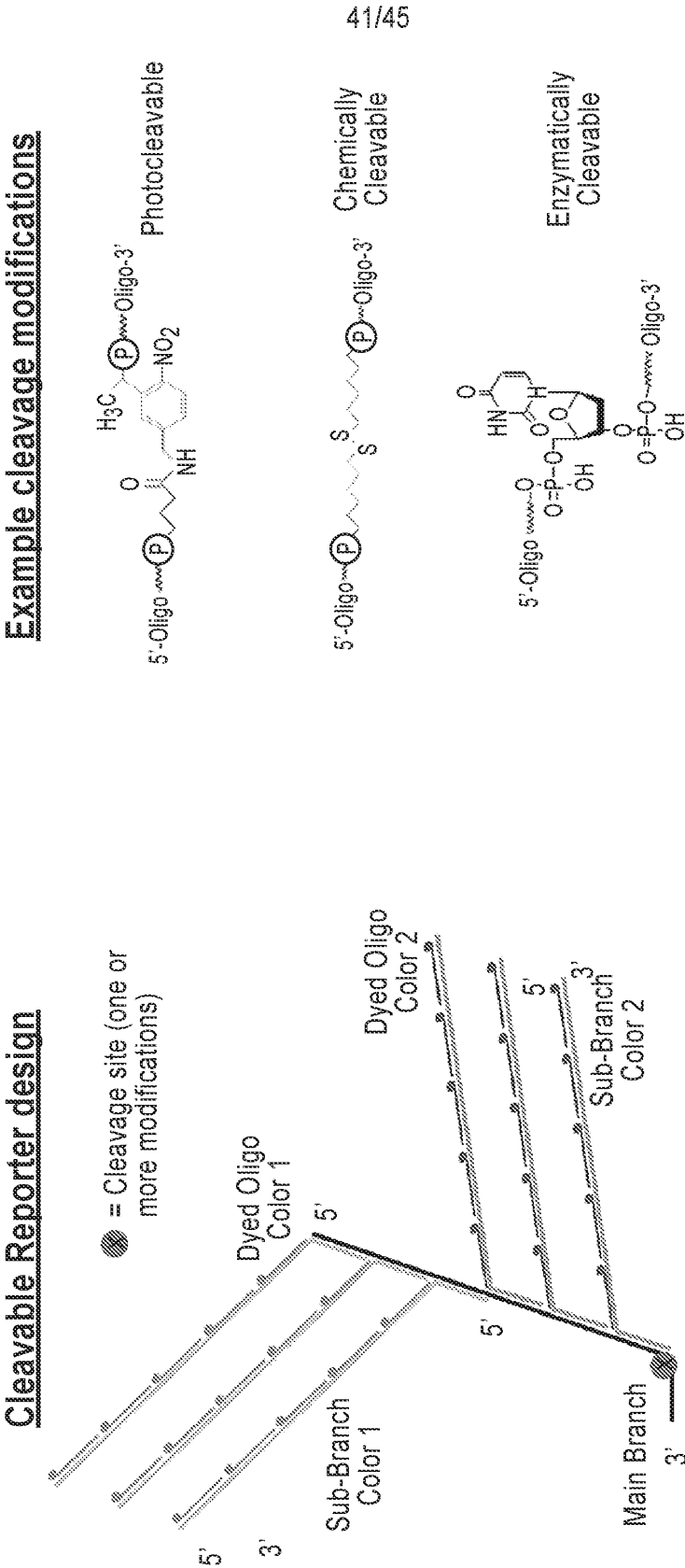
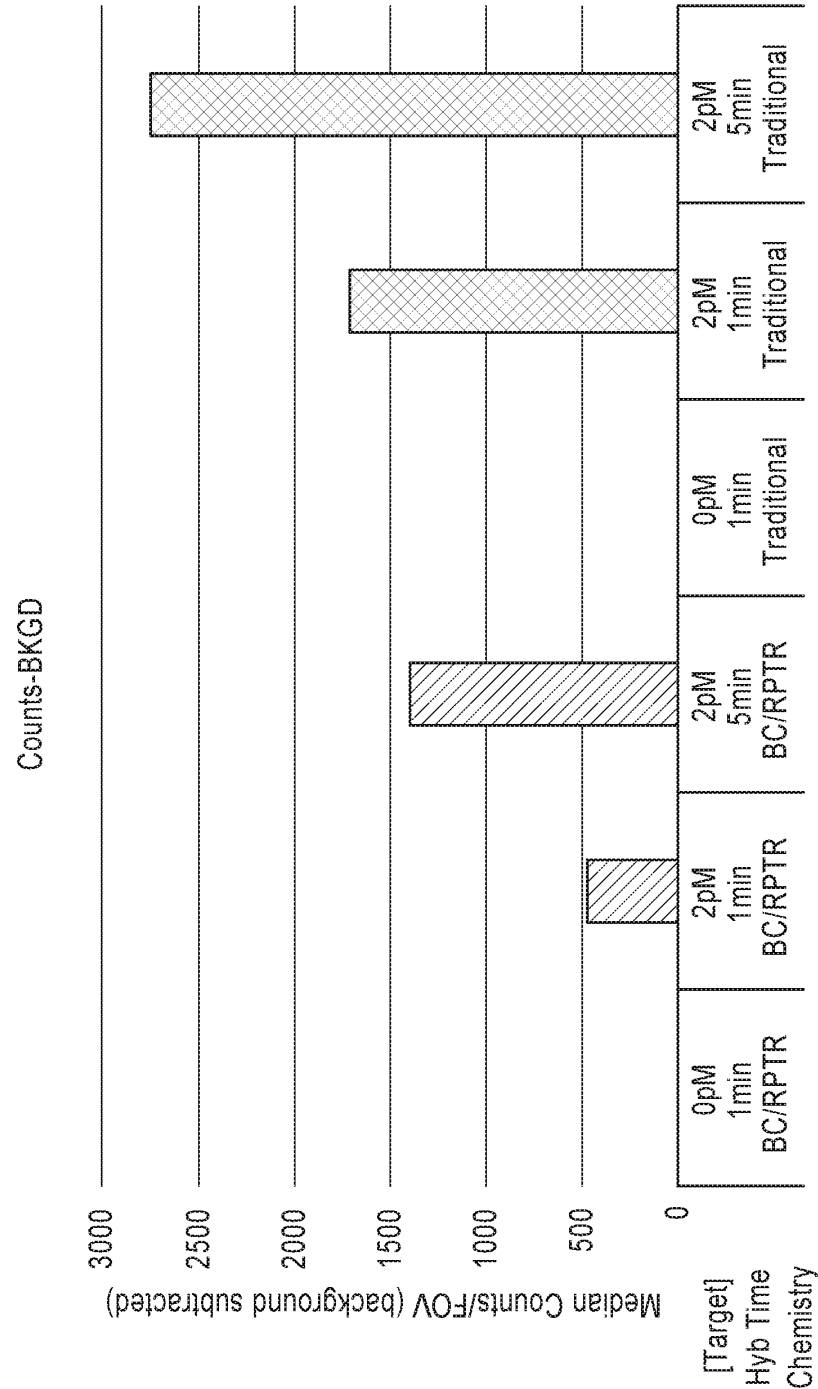


Figure 25



Pre-complexed BC/RPTR is slower to bind than BC alone but improves with time.

Figure 26

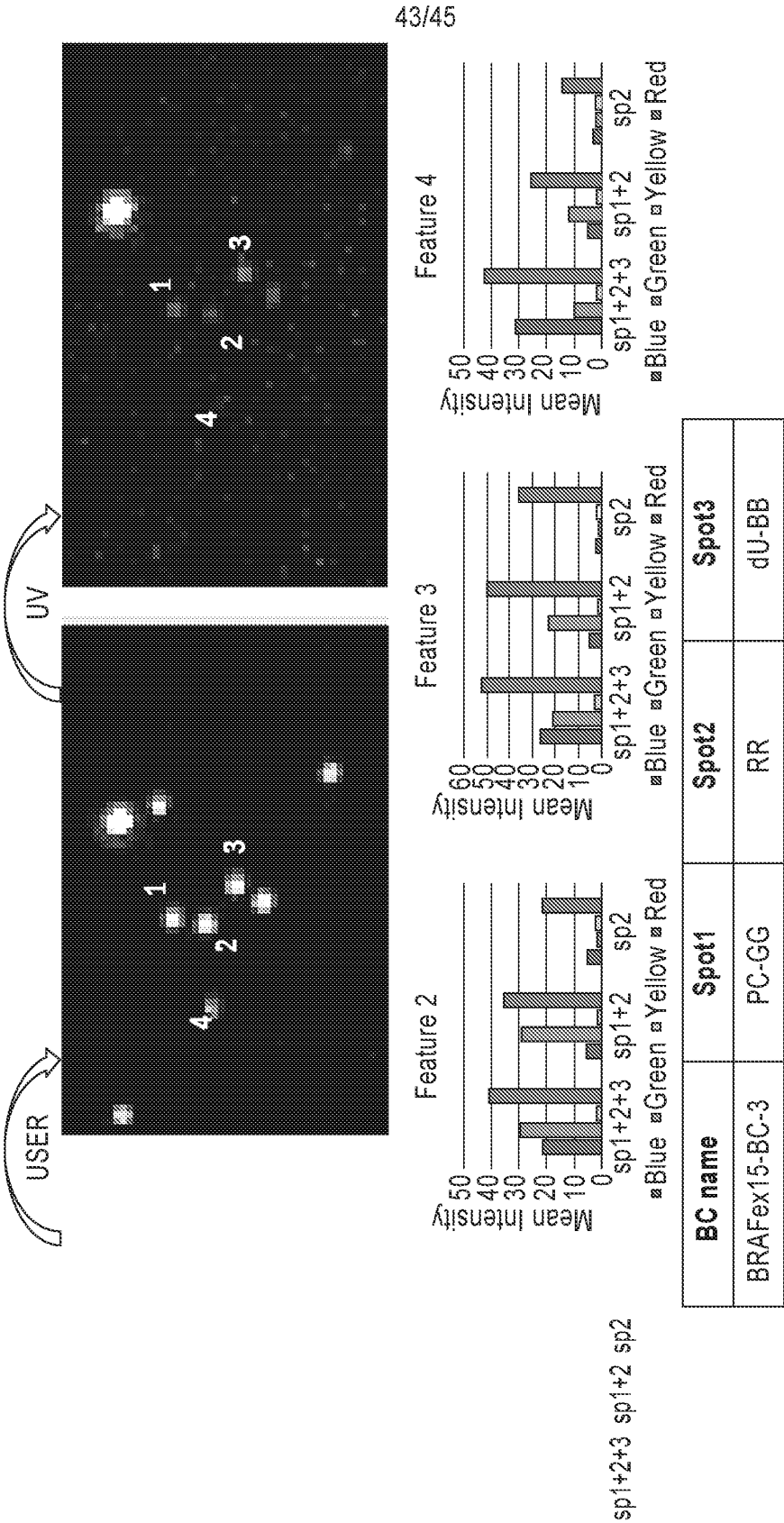


Figure 27

Figure 28

Target	Name	BC Sequence	6 LNAs + 2 Ns	Spot 1	Spot 2	Spot 3
KRAS2	KRASex2-BC17	CCAACTAC	N+C+A+A+C+T+AN	PC-GY	YY	GY

Only reporter1 is photocleavable.

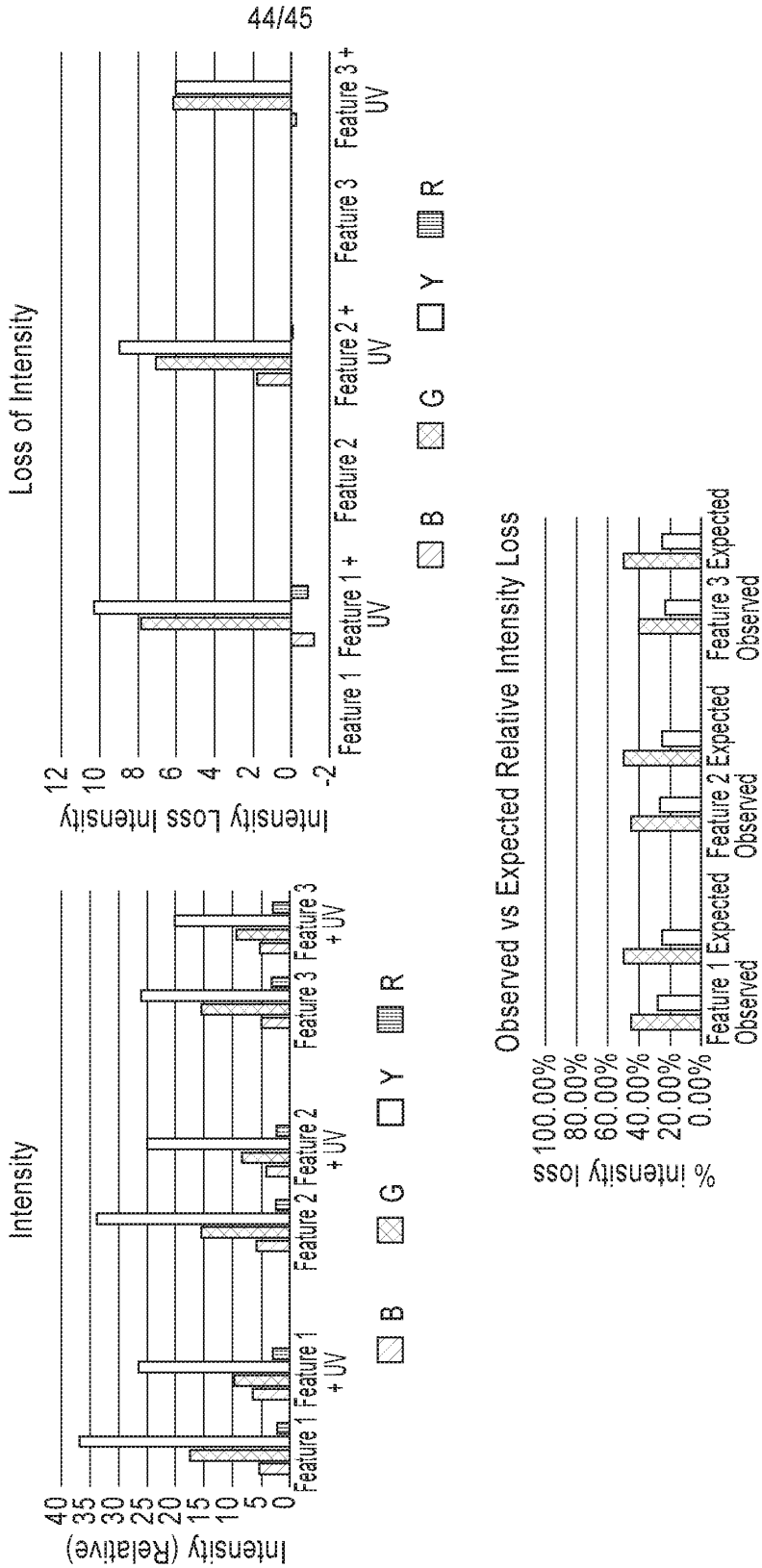


Figure 29

