

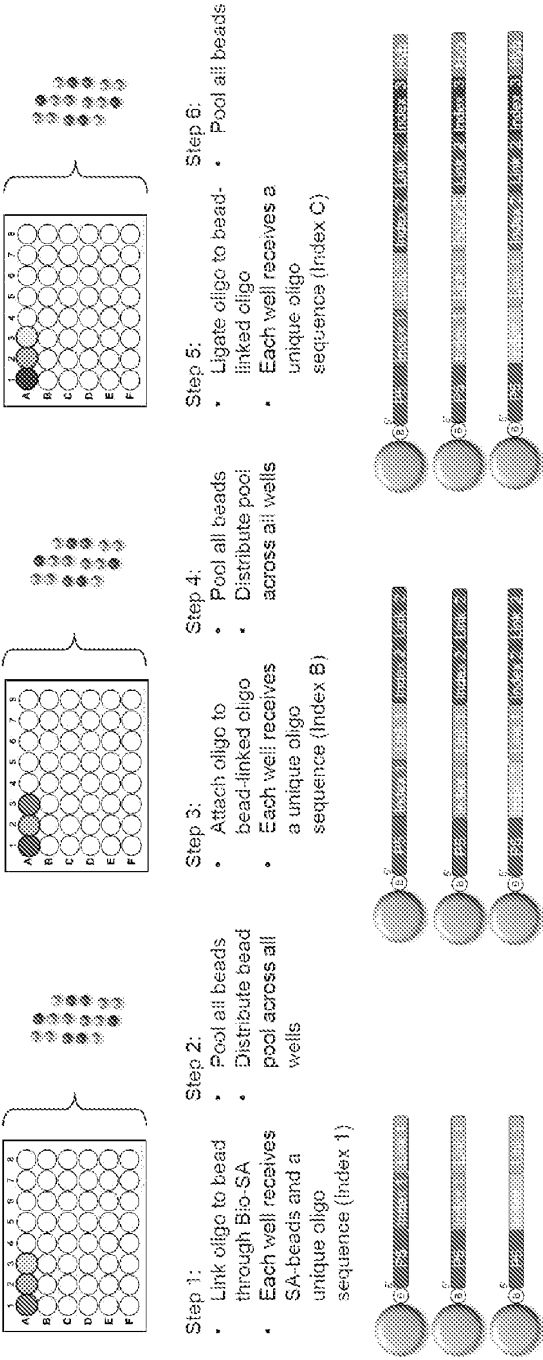


FIG. 1

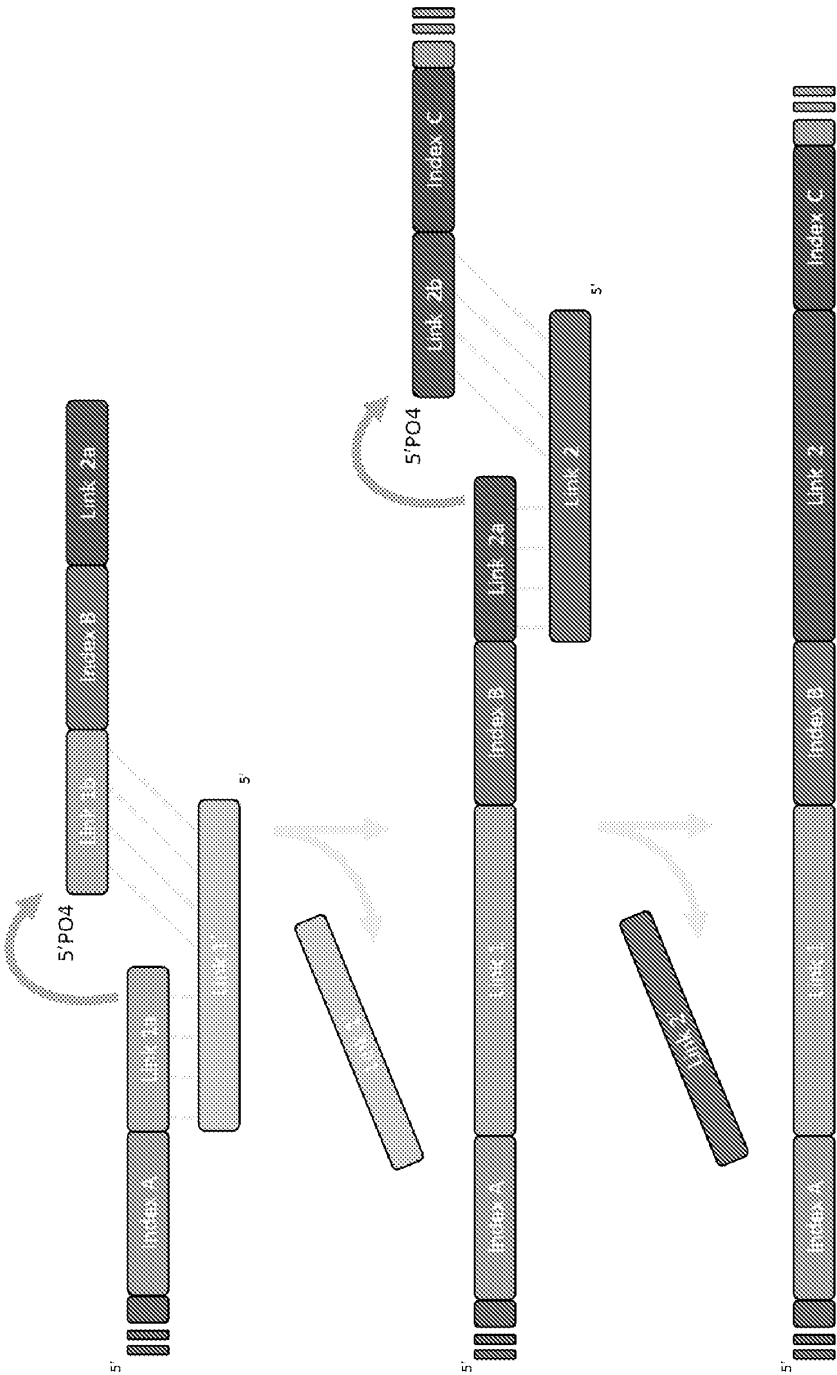


FIG. 2

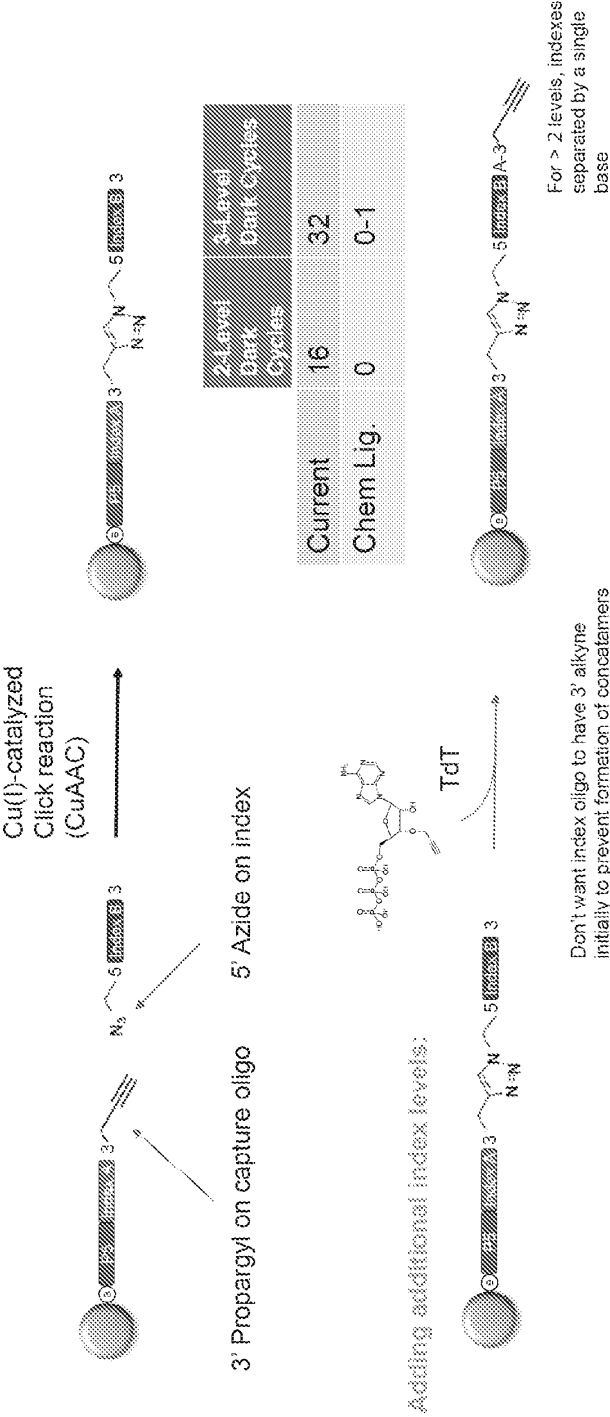


FIG. 3

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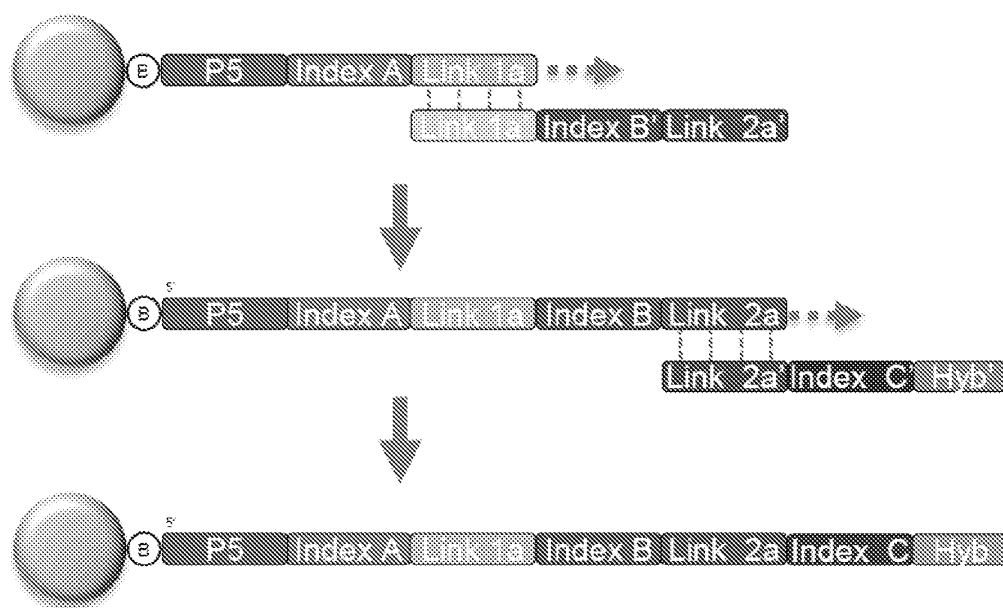


FIG. 4

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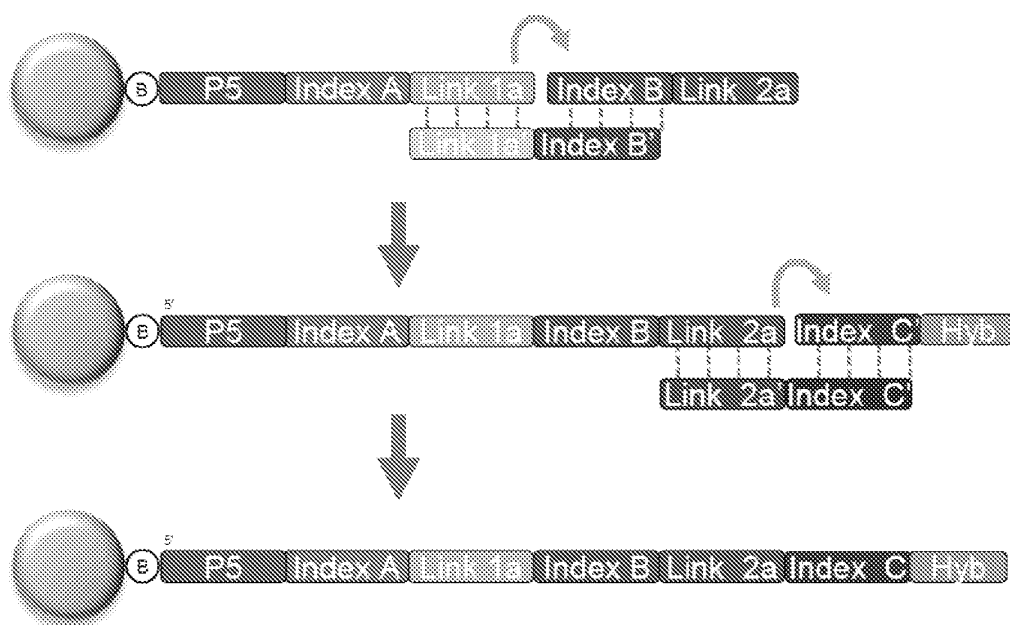


FIG. 5

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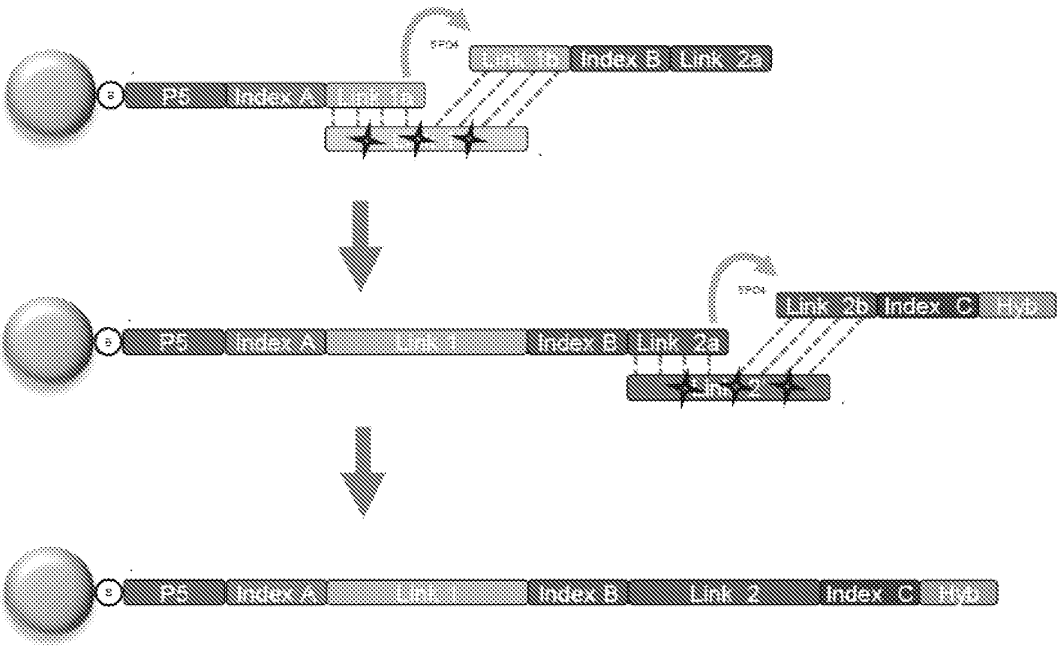


FIG. 6

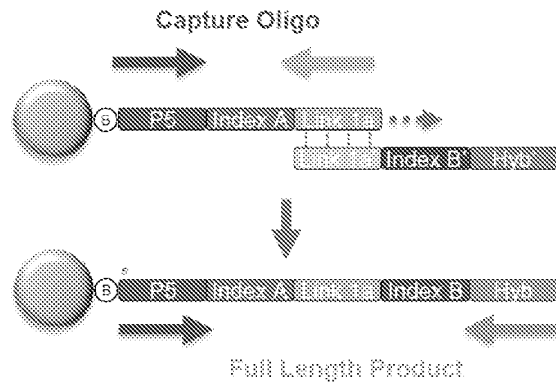


FIG. 7A

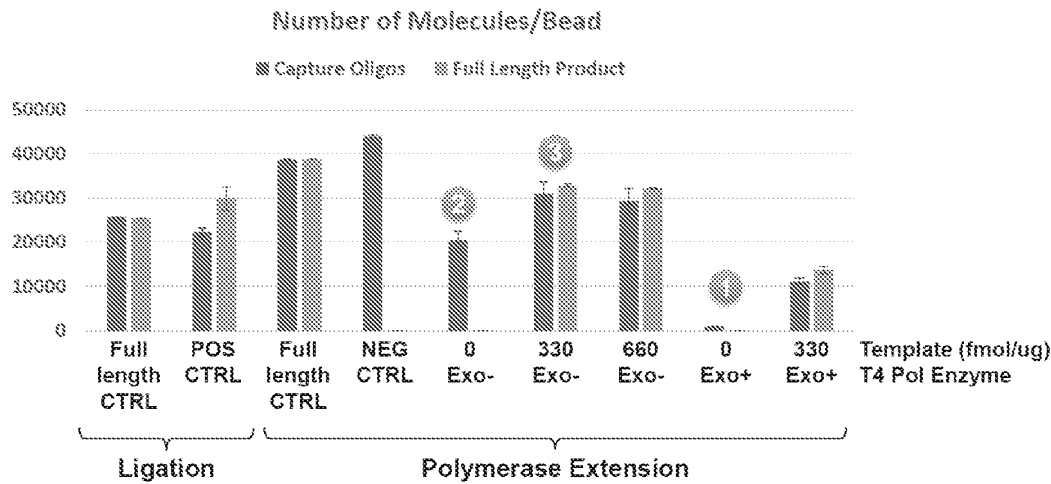


FIG. 7B

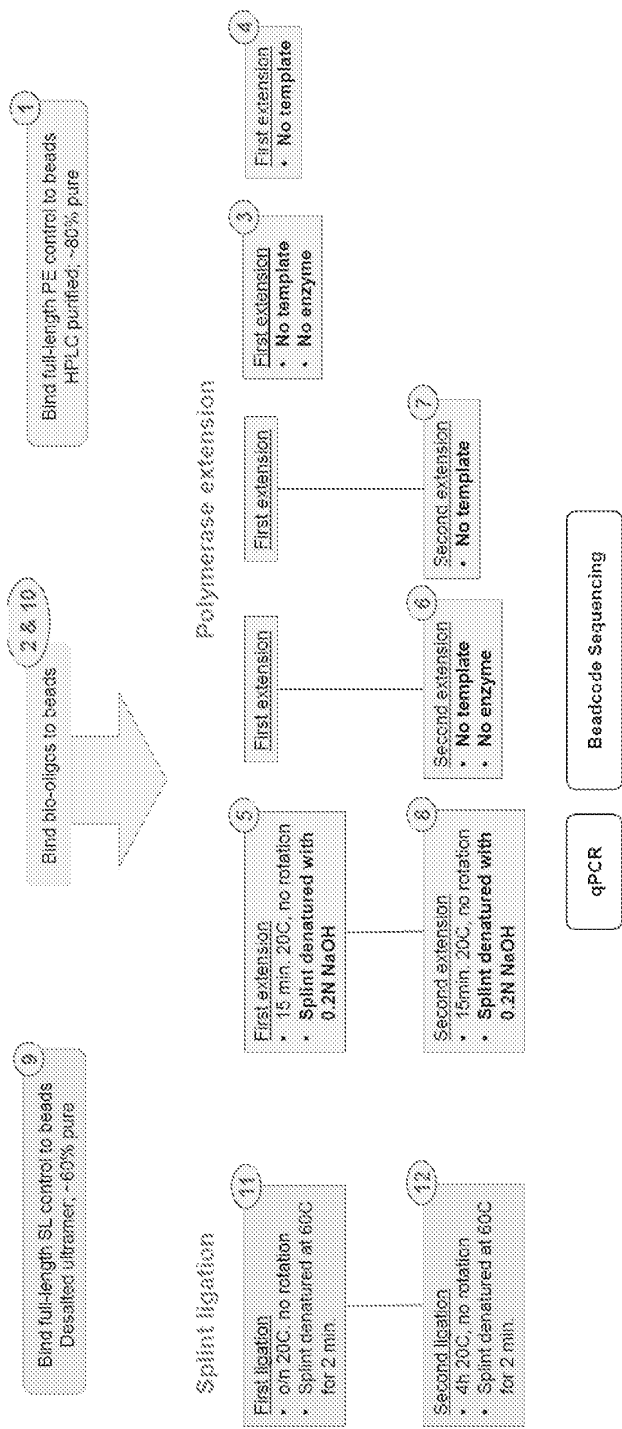


FIG. 8A

Polymerase Extension						Splint Ligation						
Cond	1	2	3	4	5	6	7	8	9	10	11	12
1st Rxn	No	No	Bfr	T4	T4	T4	T4	T4	No	No	T7	T7
L1	FL PE	CO	CO	CO	CO	CO	CO	CO	FL SL	CO	CO	CO
L2	No	No	No	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes
2nd Rxn	No	No	No	No	No	Bfr	T4	T4	No	No	No	T7
L3	No	No	No	No	No	No	No	Yes	No	No	No	Yes

FIG. 8B

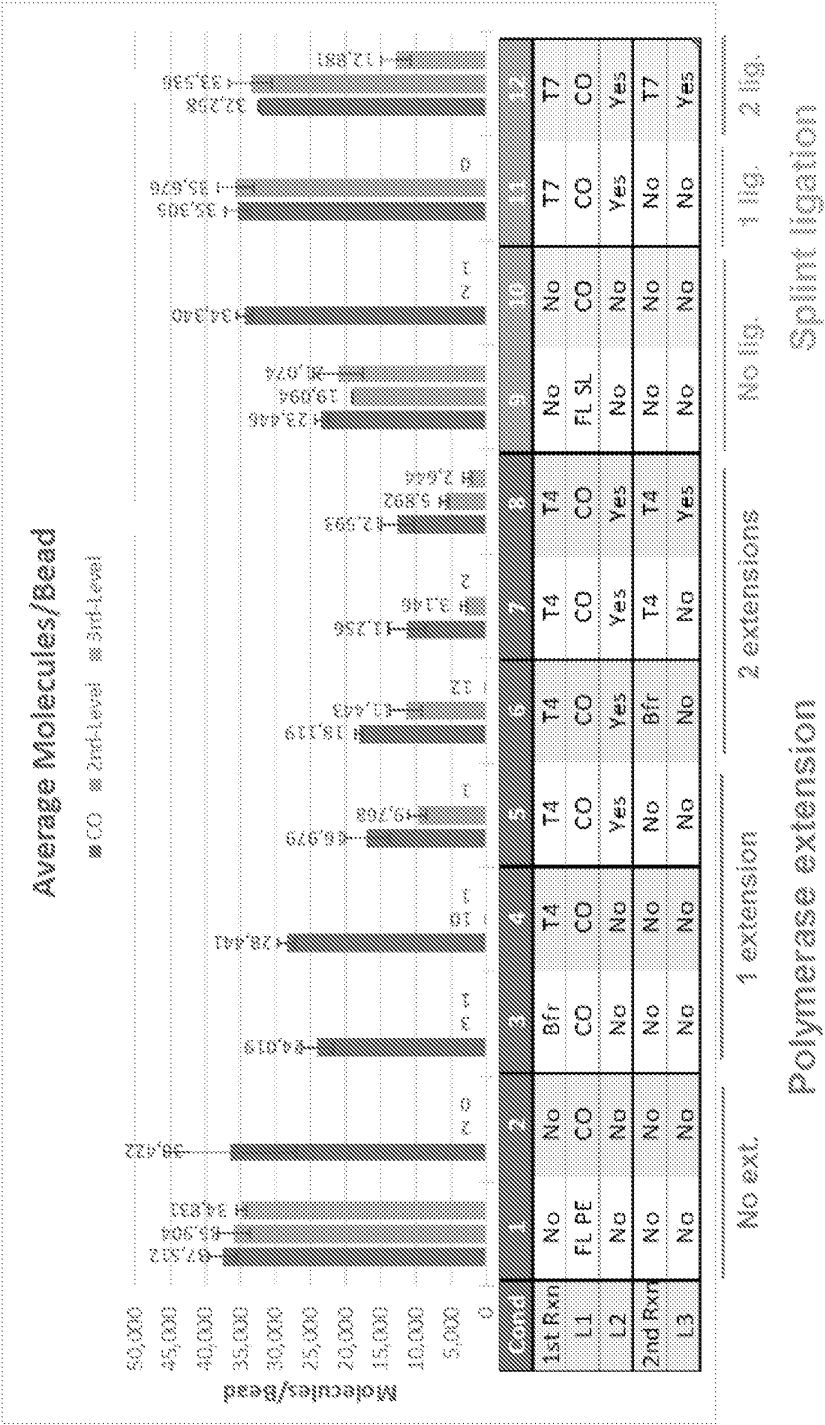


FIG. 9

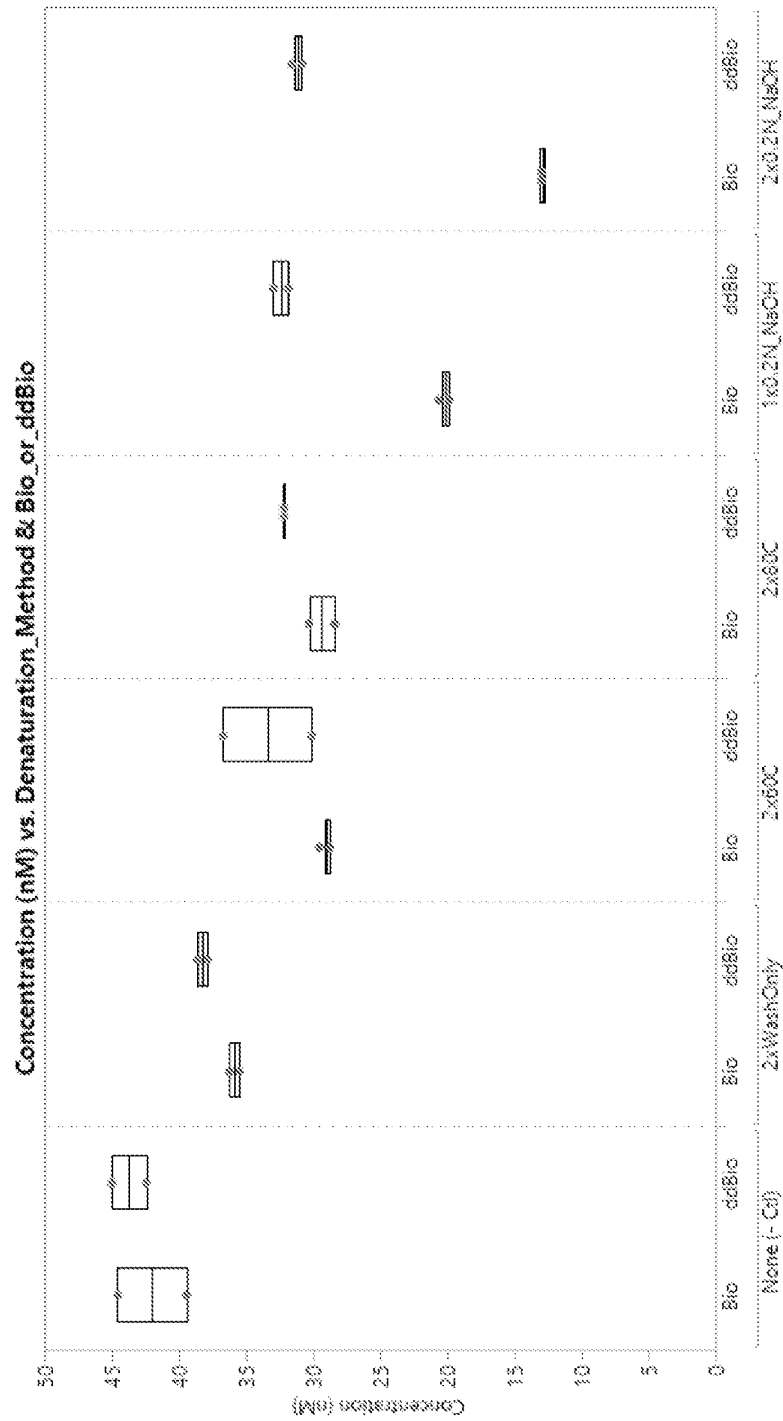


FIG. 10

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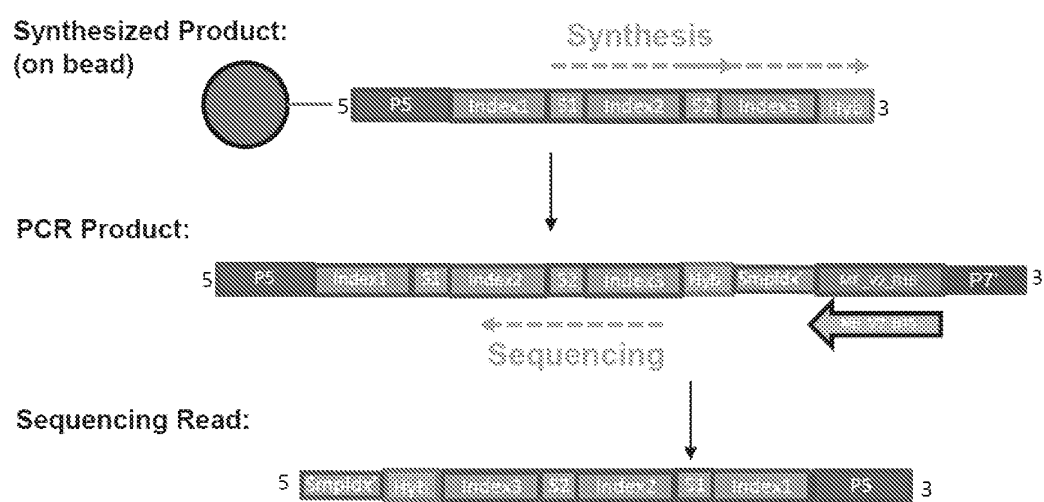
Read Orientation:

FIG. 11A

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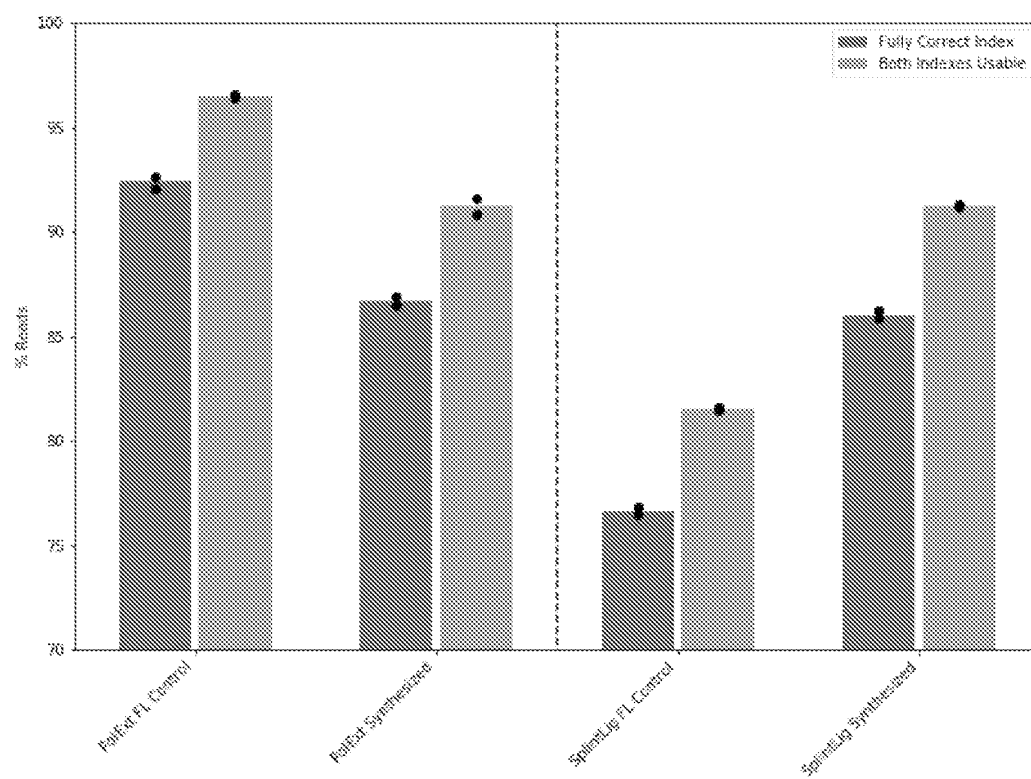


FIG. 11B

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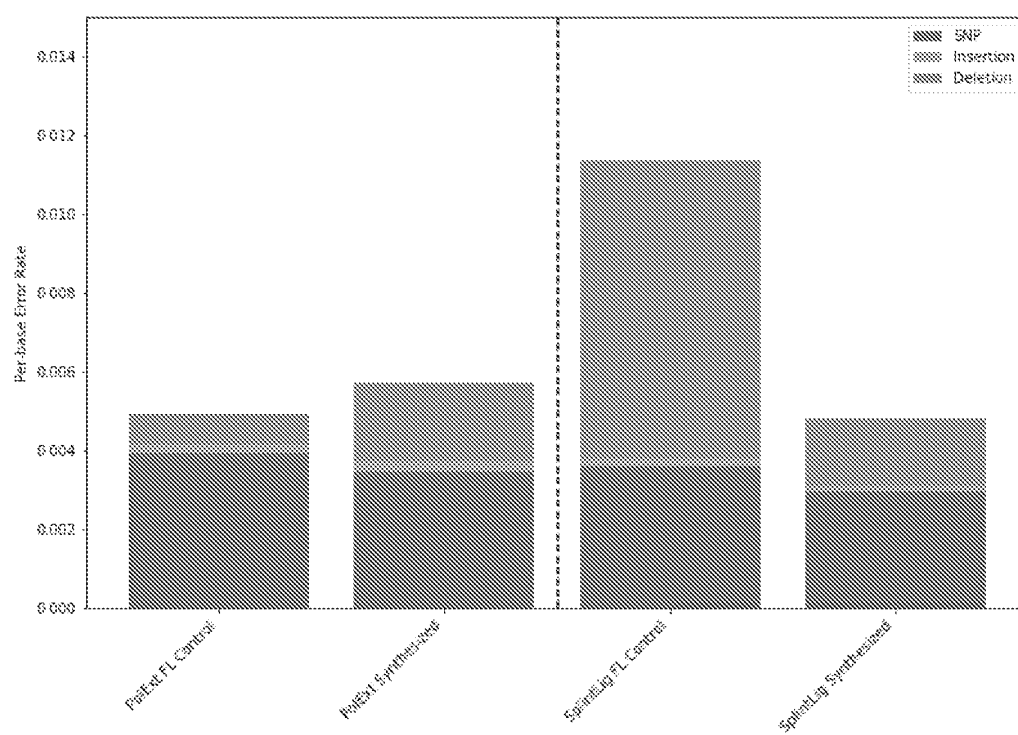


FIG. 11C

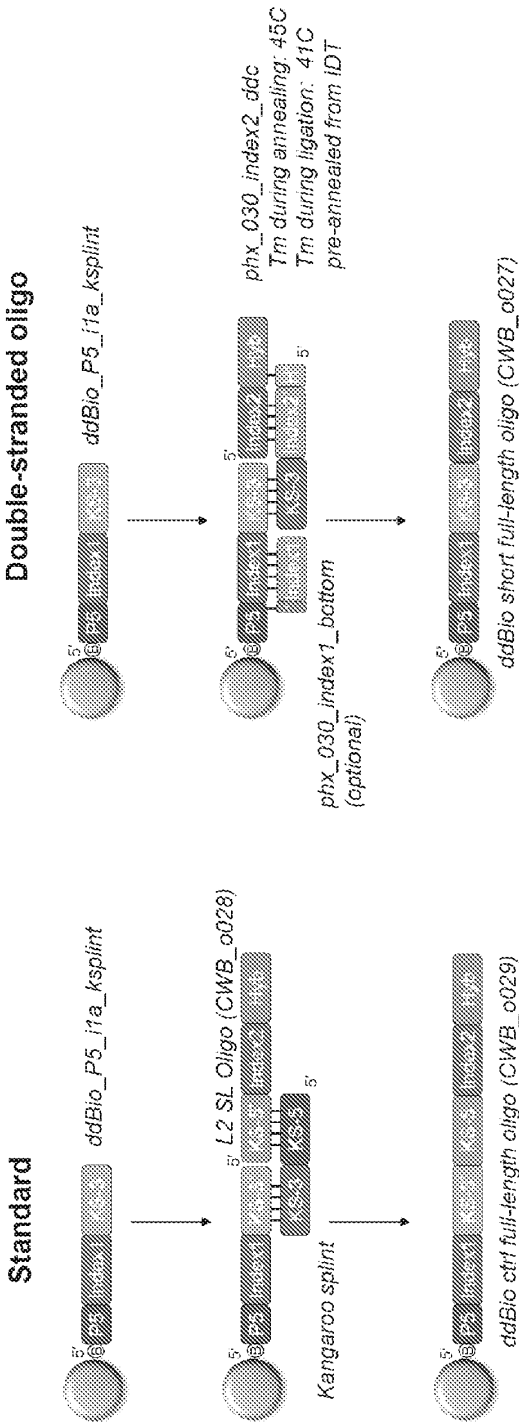


FIG. 12A

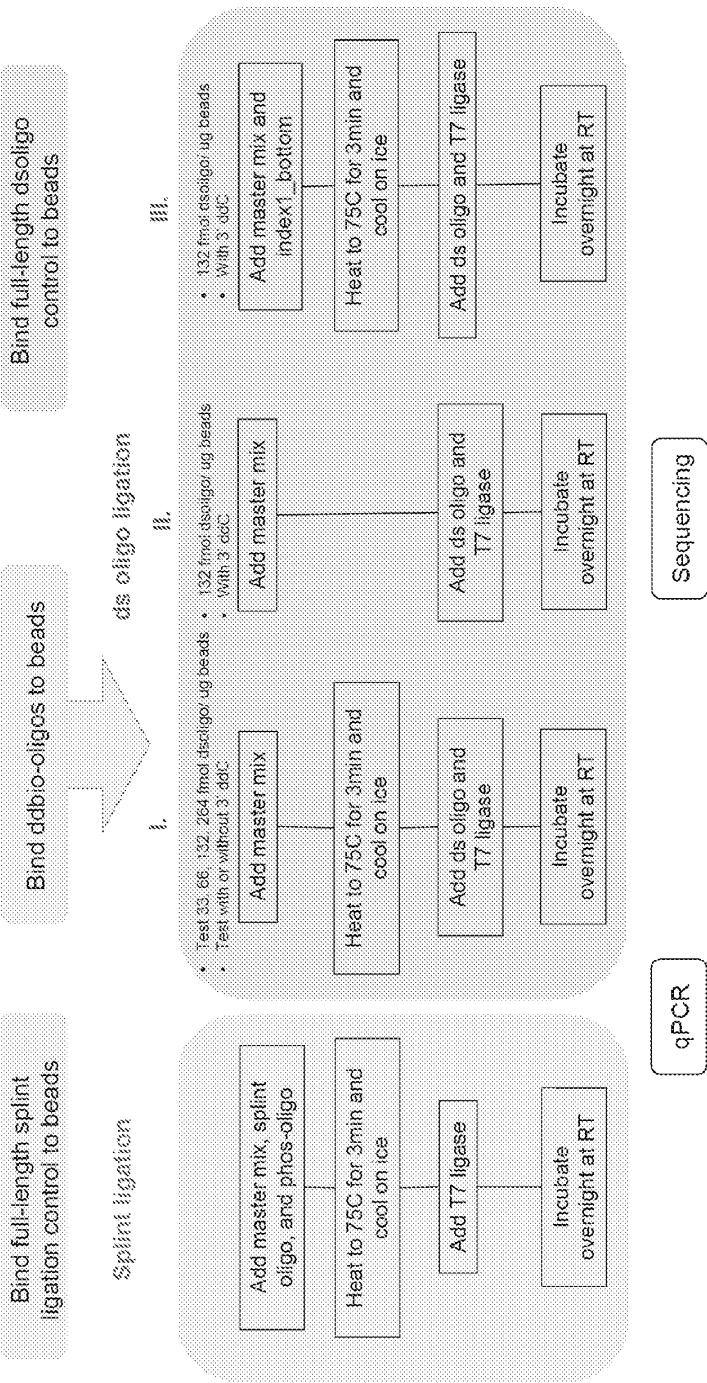


FIG. 12B

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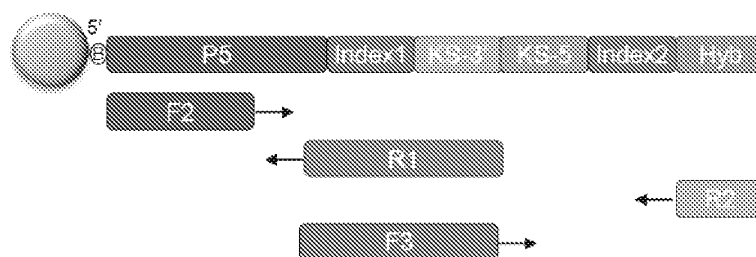
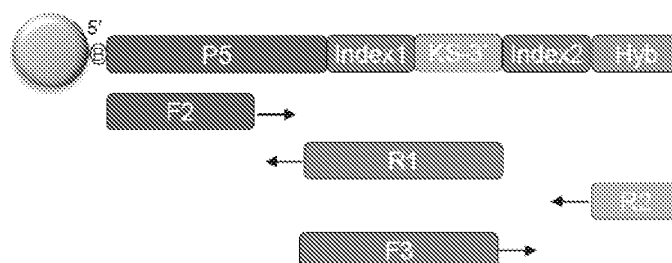
standard**dsindex ligation**

FIG. 12C

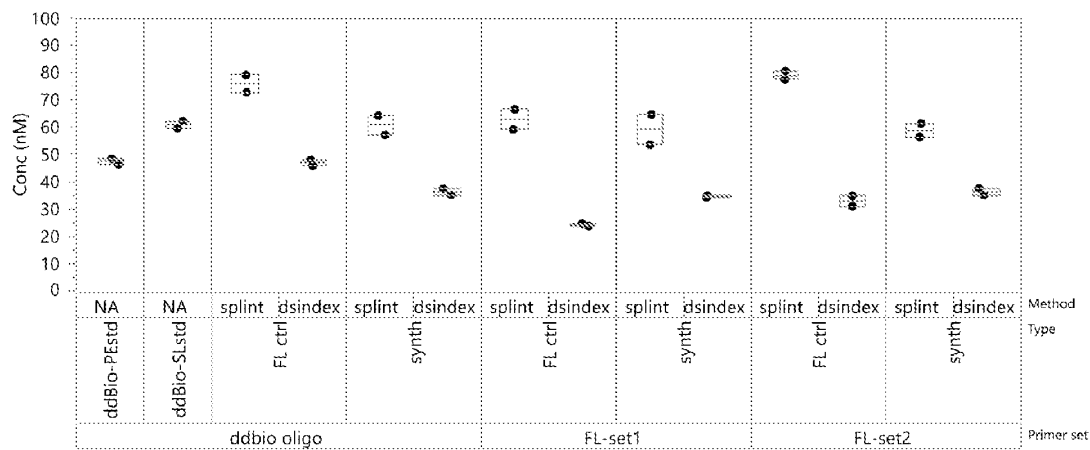


FIG. 13A

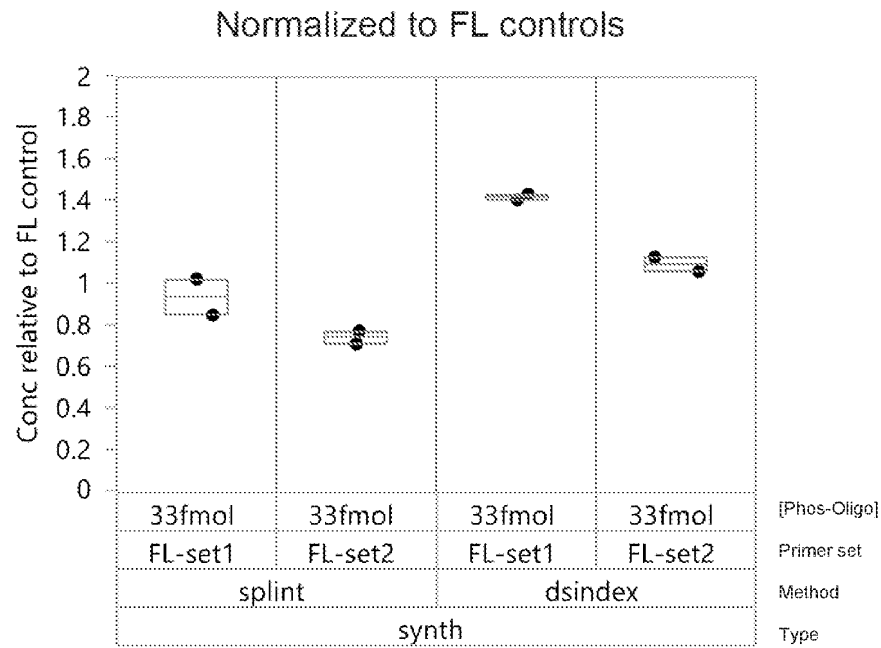


FIG. 13B

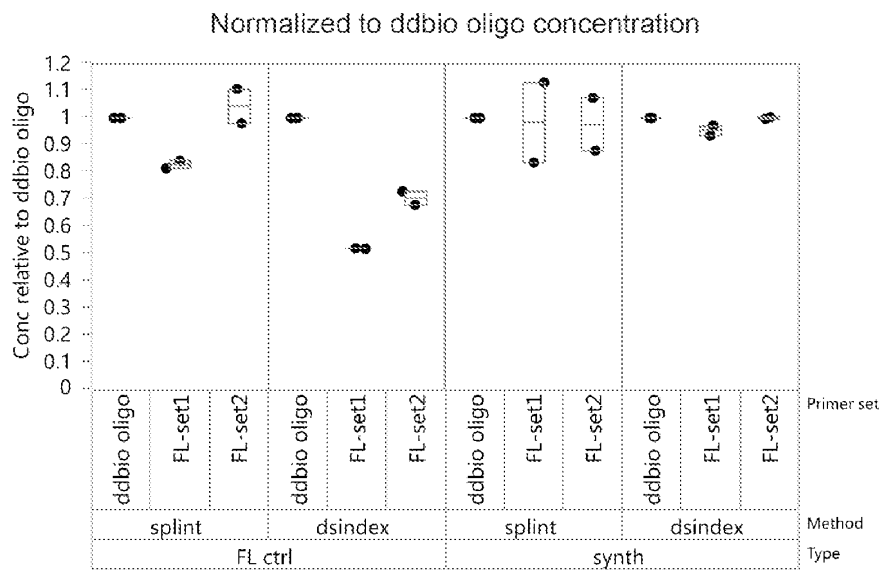


FIG. 13C

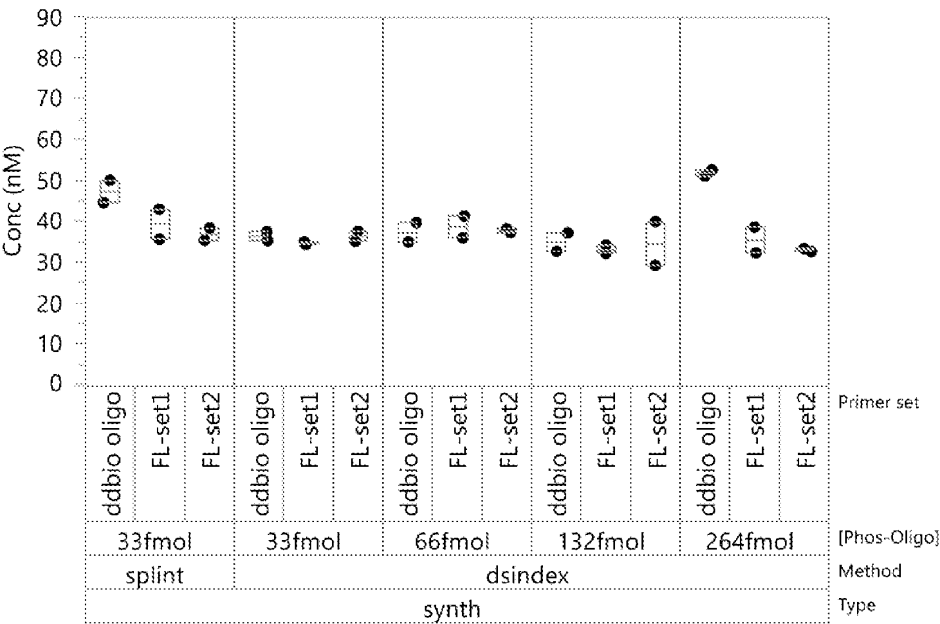


FIG. 13D

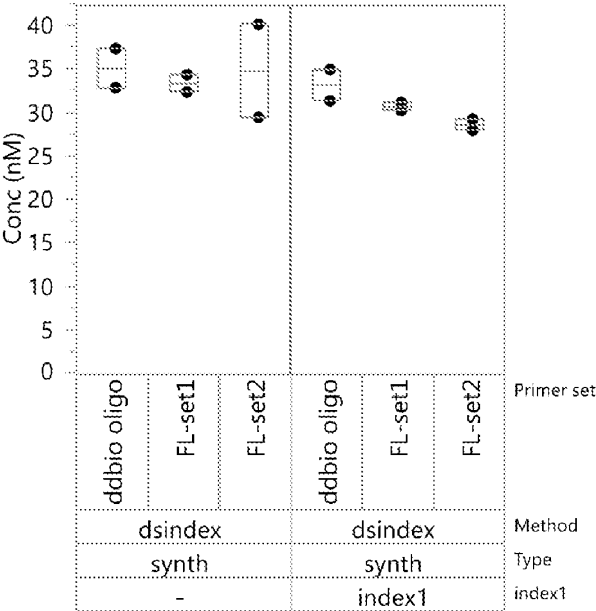


FIG. 13E

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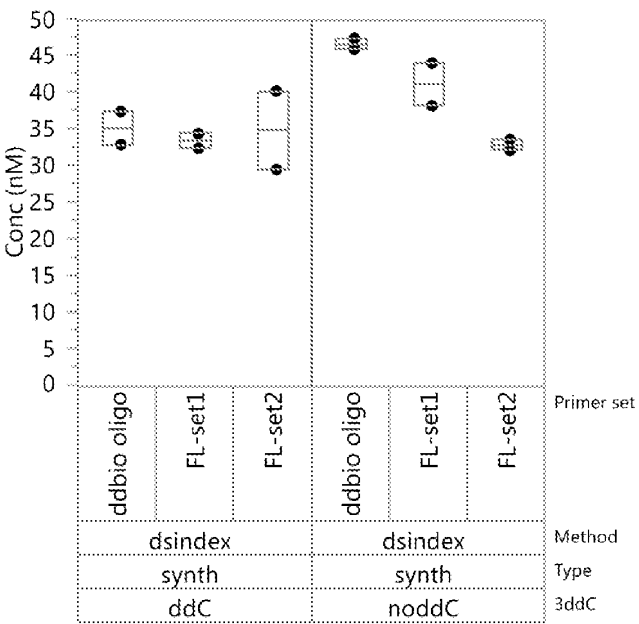


FIG. 13F

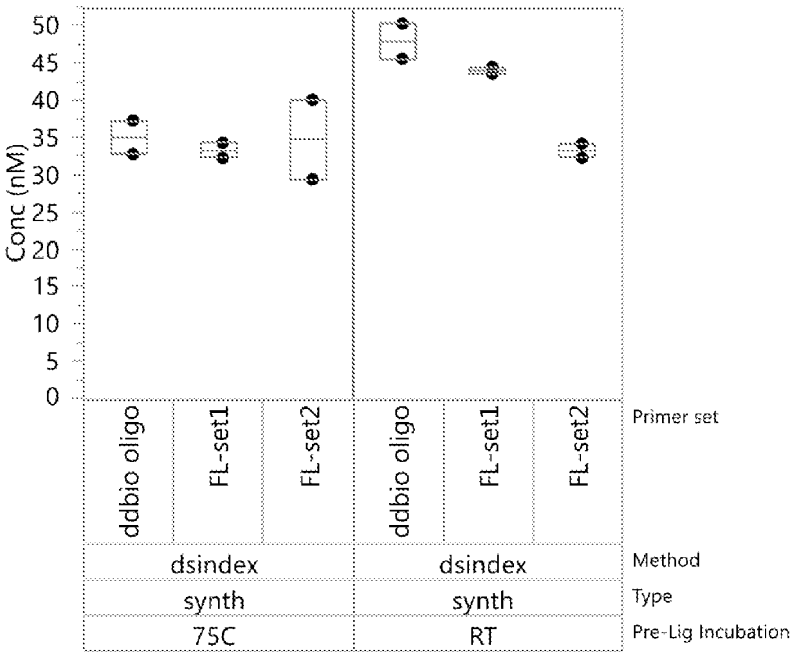


FIG. 13G

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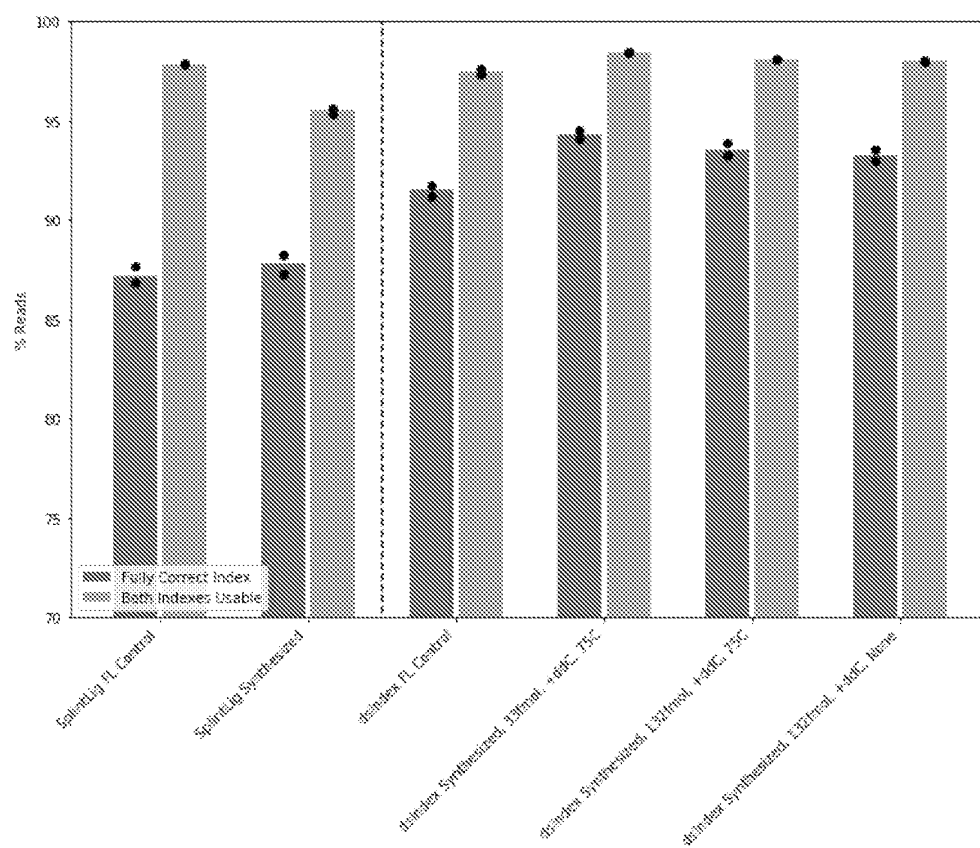


FIG. 14A

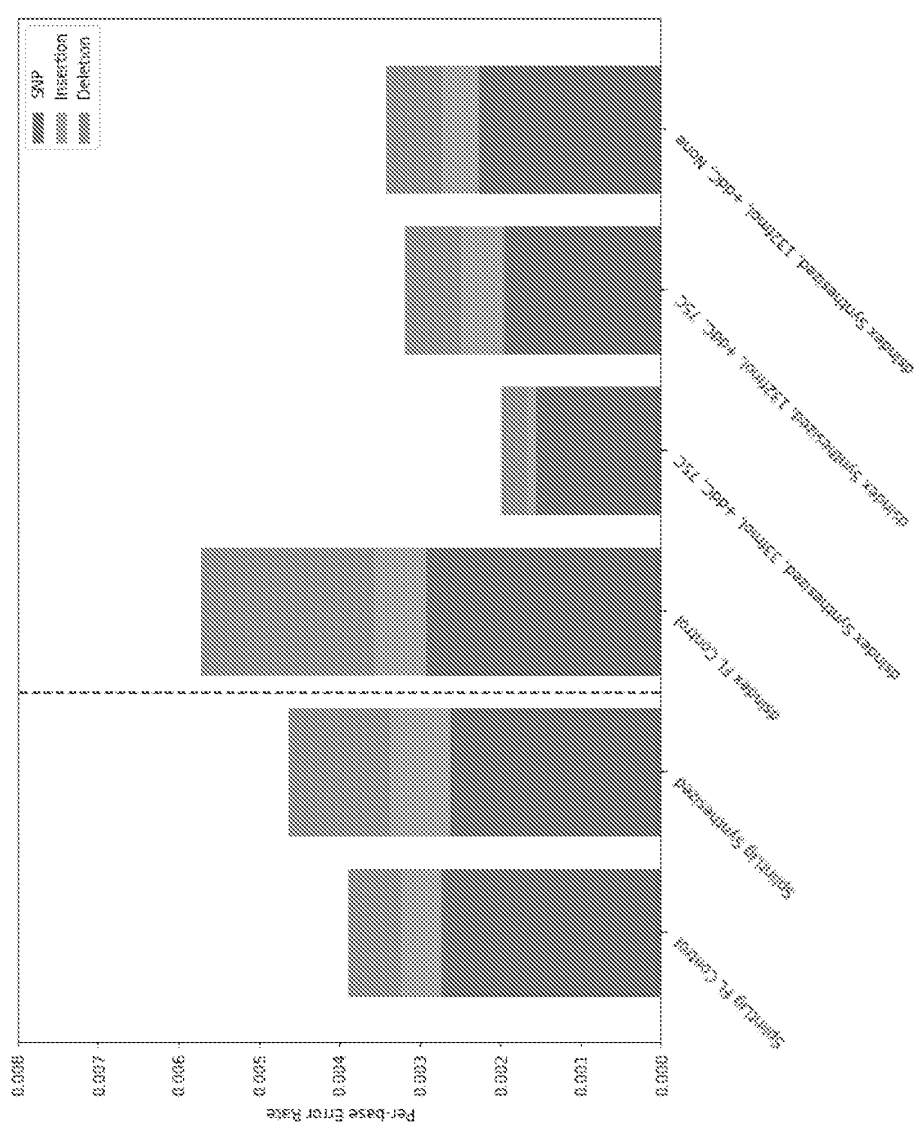


FIG. 14B

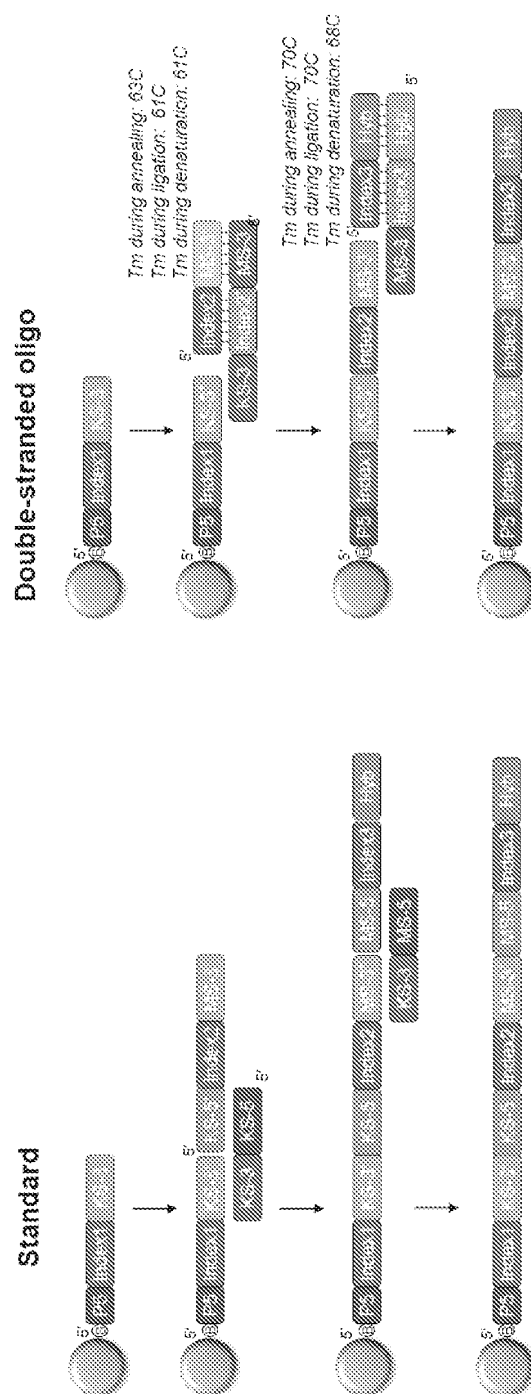


FIG. 15A

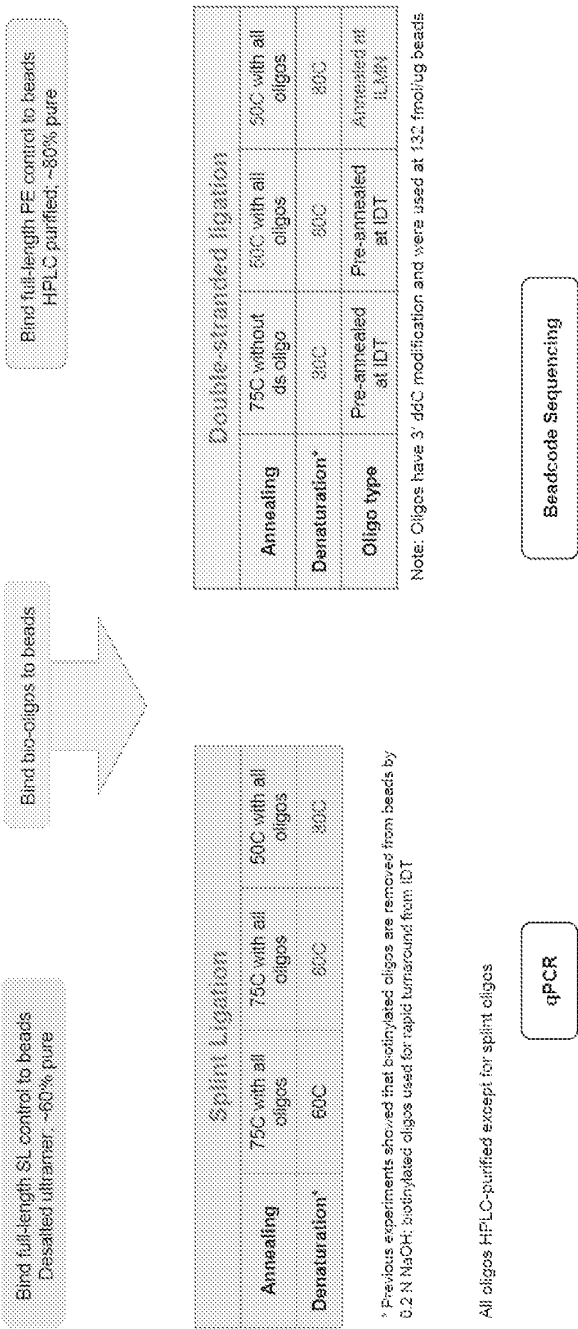


FIG. 15B

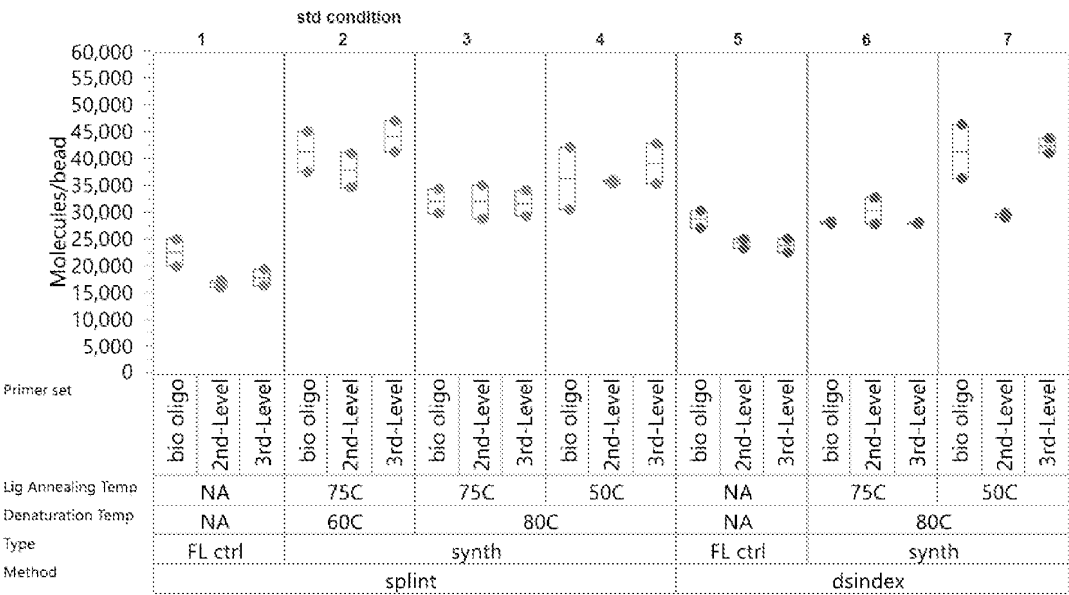


FIG. 16A

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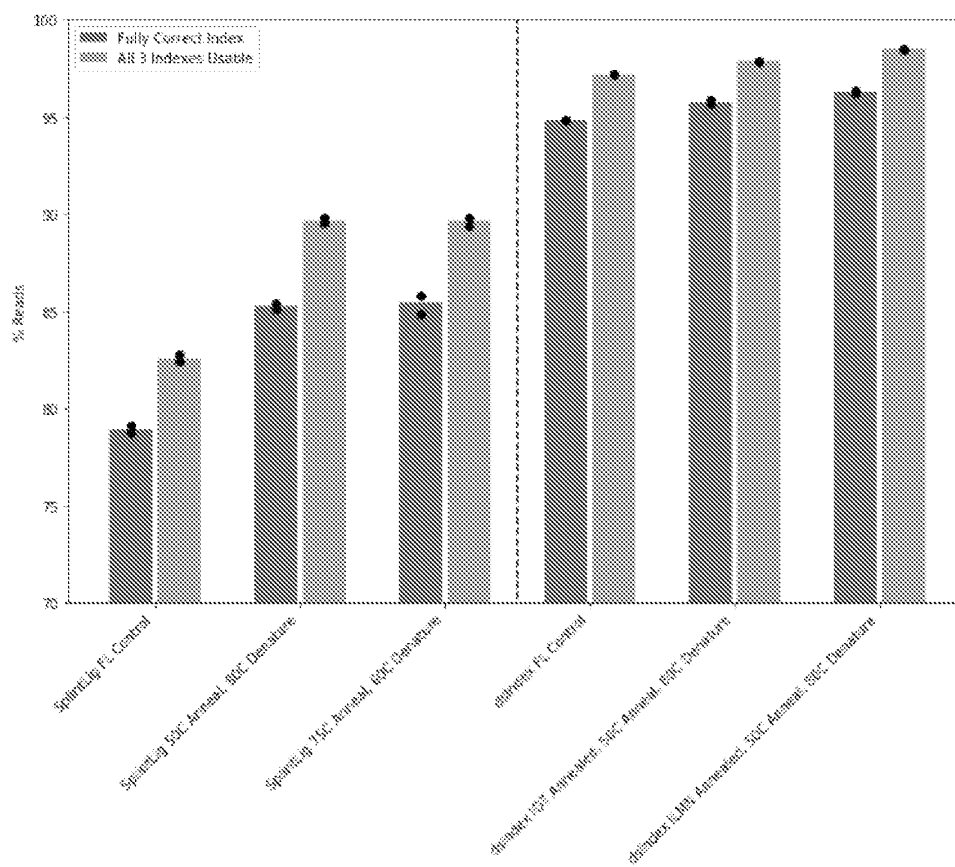


FIG. 16B

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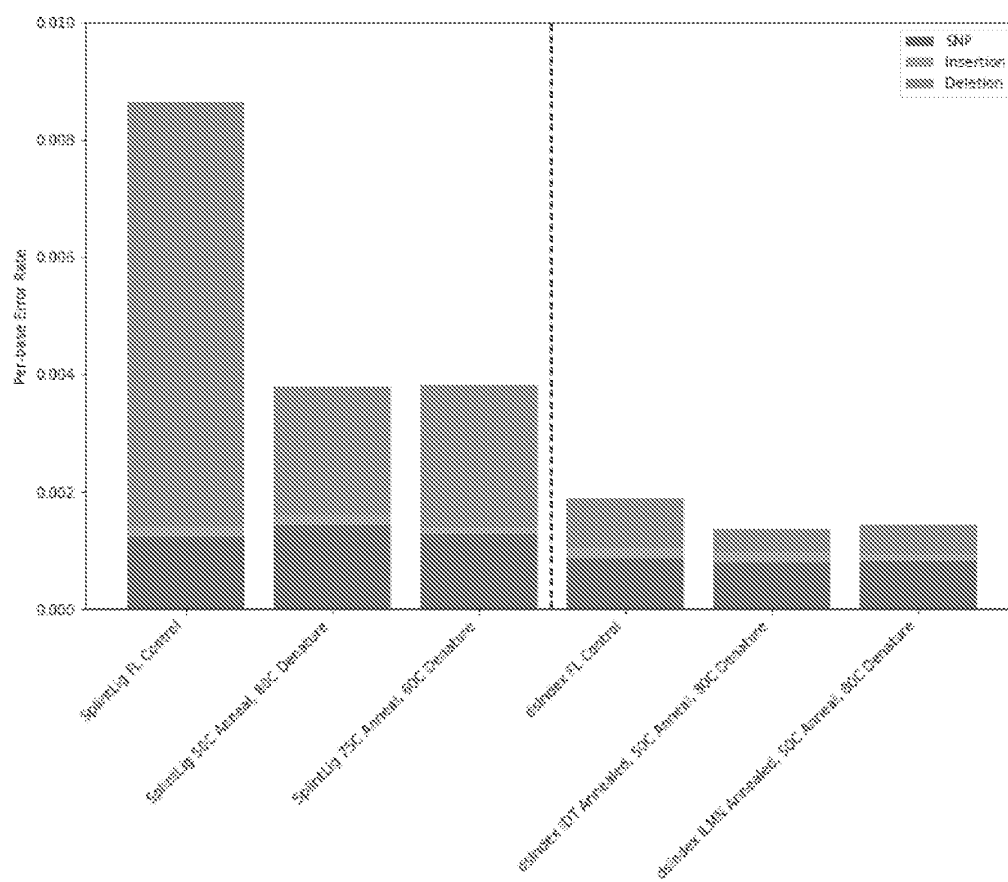


FIG. 16C

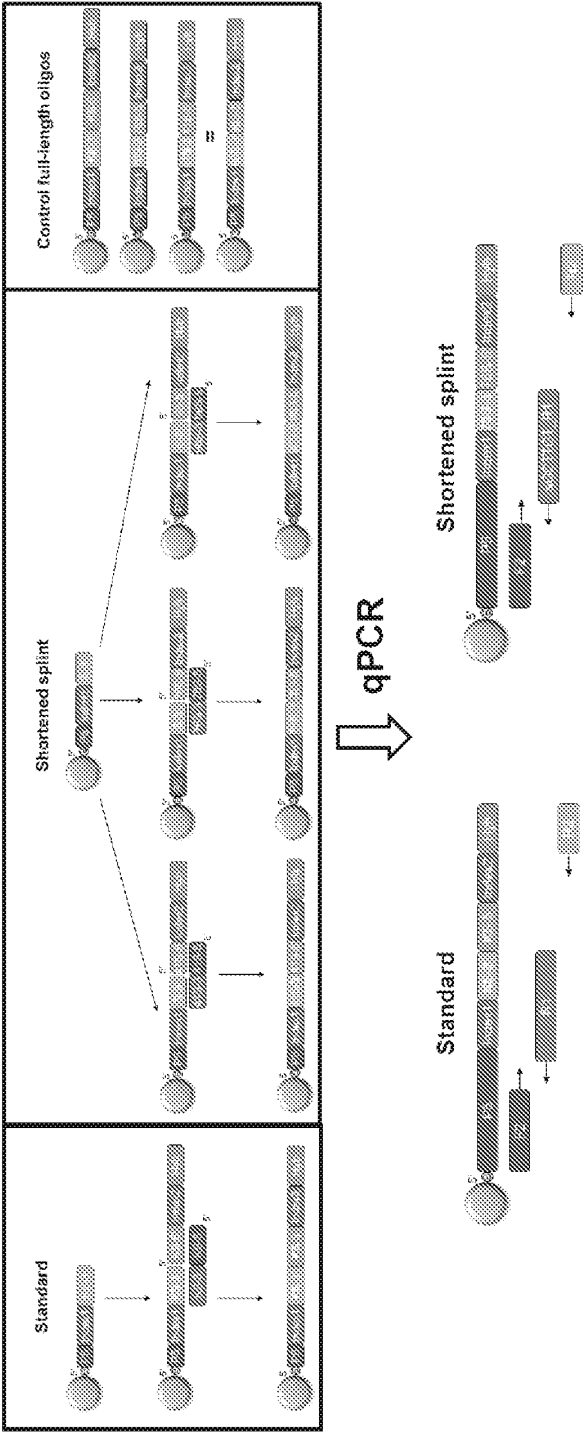
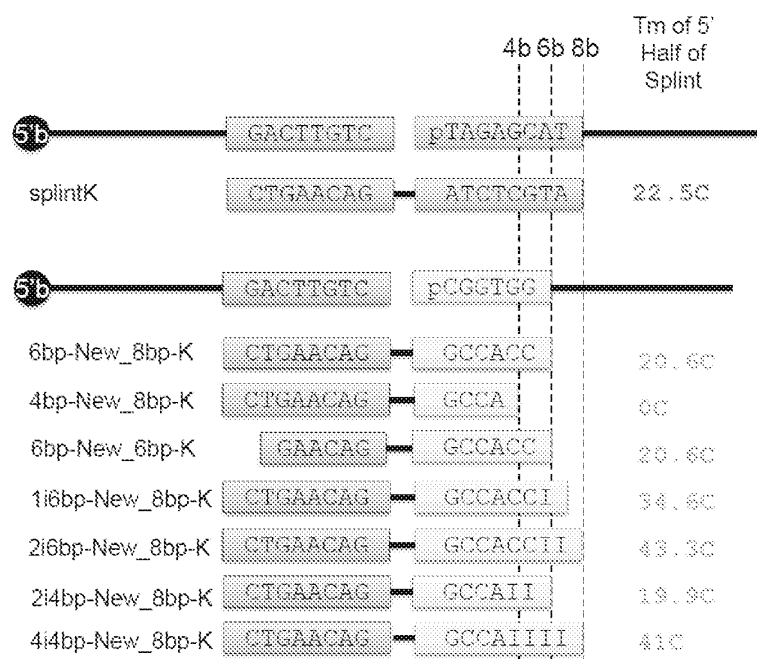


FIG. 17

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I = inosine (universal base)

FIG. 18A

Cond	L1 Oligo	Splint	L2 Oligo	Splint Annealing	Ligation Temp
1	Bio_P5_i1a_ksplint	Kangaroo splint	Std L2 SL Oligo	Slow	20C & 12C
2	Bio_P5_i1a_ksplint	Kangaroo splint	Std L2 SL Oligo	75C>Ice	
3	Bio_P5_i1a_ksplint	6bp-New_8bp-K Splint	L2_6bp SL Oligo		
4	Bio_P5_i1a_ksplint	4bp-New_8bp-K Spint	L2_6bp SL Oligo		
5	Bio_P5_i1a_ksplint	6bp-New_6bp-K Spint	L2_6bp SL Oligo		
6	Bio_P5_i1a_ksplint	1i6bp-New_8bp-K Splint	L2_6bp SL Oligo		
7	Bio_P5_i1a_ksplint	2i6bp-New-8bp-K Splint	L2_6bp SL Oligo		
8	Bio_P5_i1a_ksplint	2i4bp-New-8bp-K Splint	L2_6bp SL Oligo		
9	Bio_P5_i1a_ksplint	4i4bp-New-8bp-K Splint	L2_6bp SL Oligo		

FIG. 18B

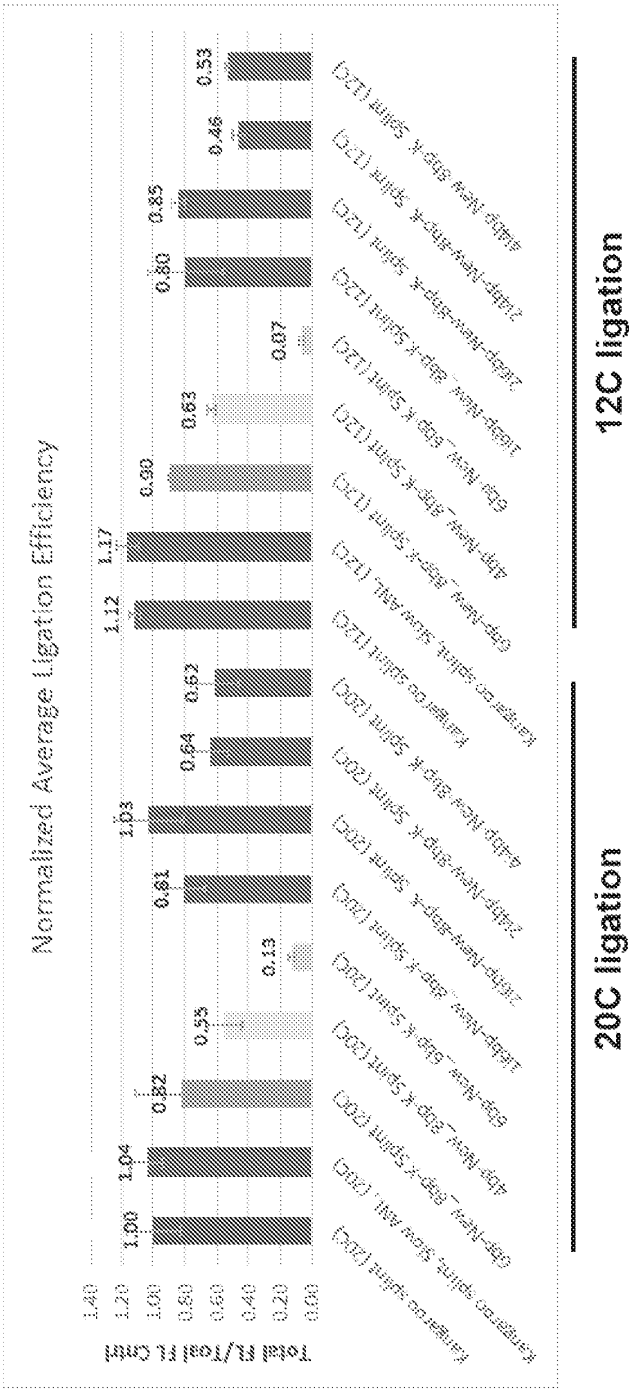


FIG. 18C

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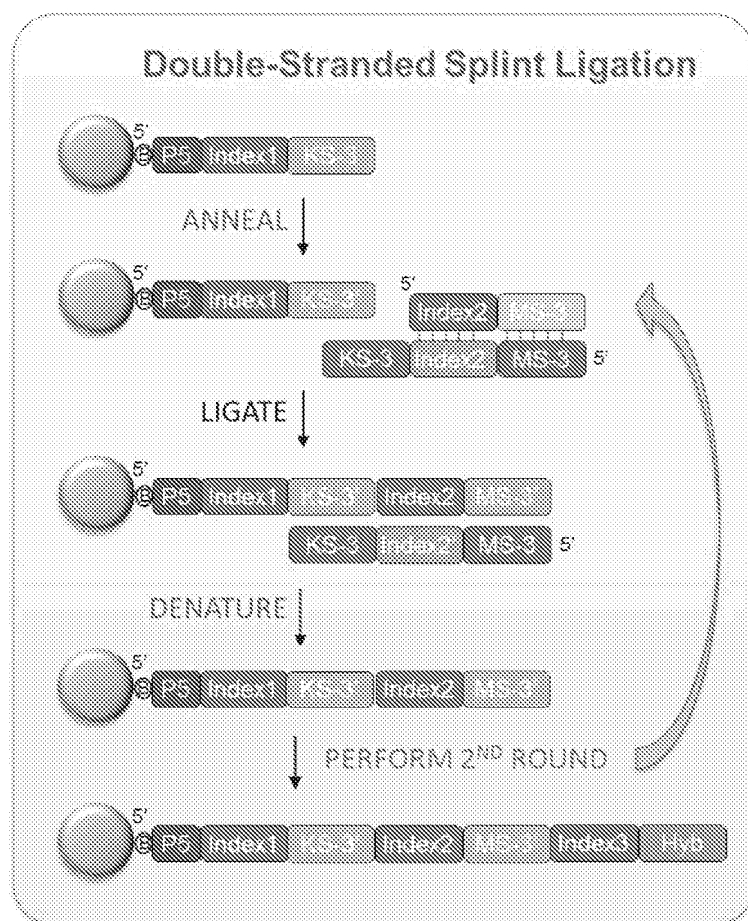


FIG. 19A

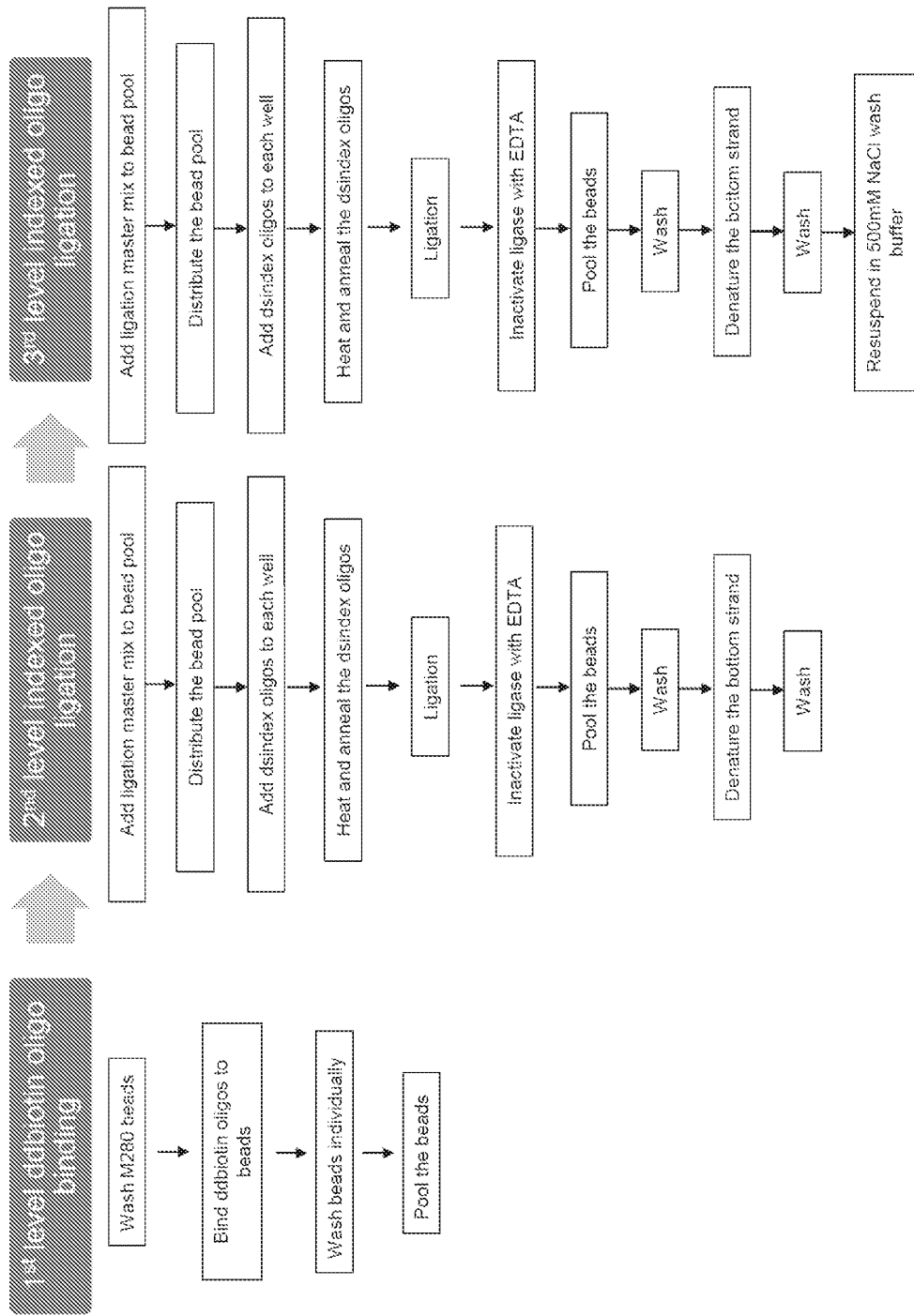


FIG. 19B