

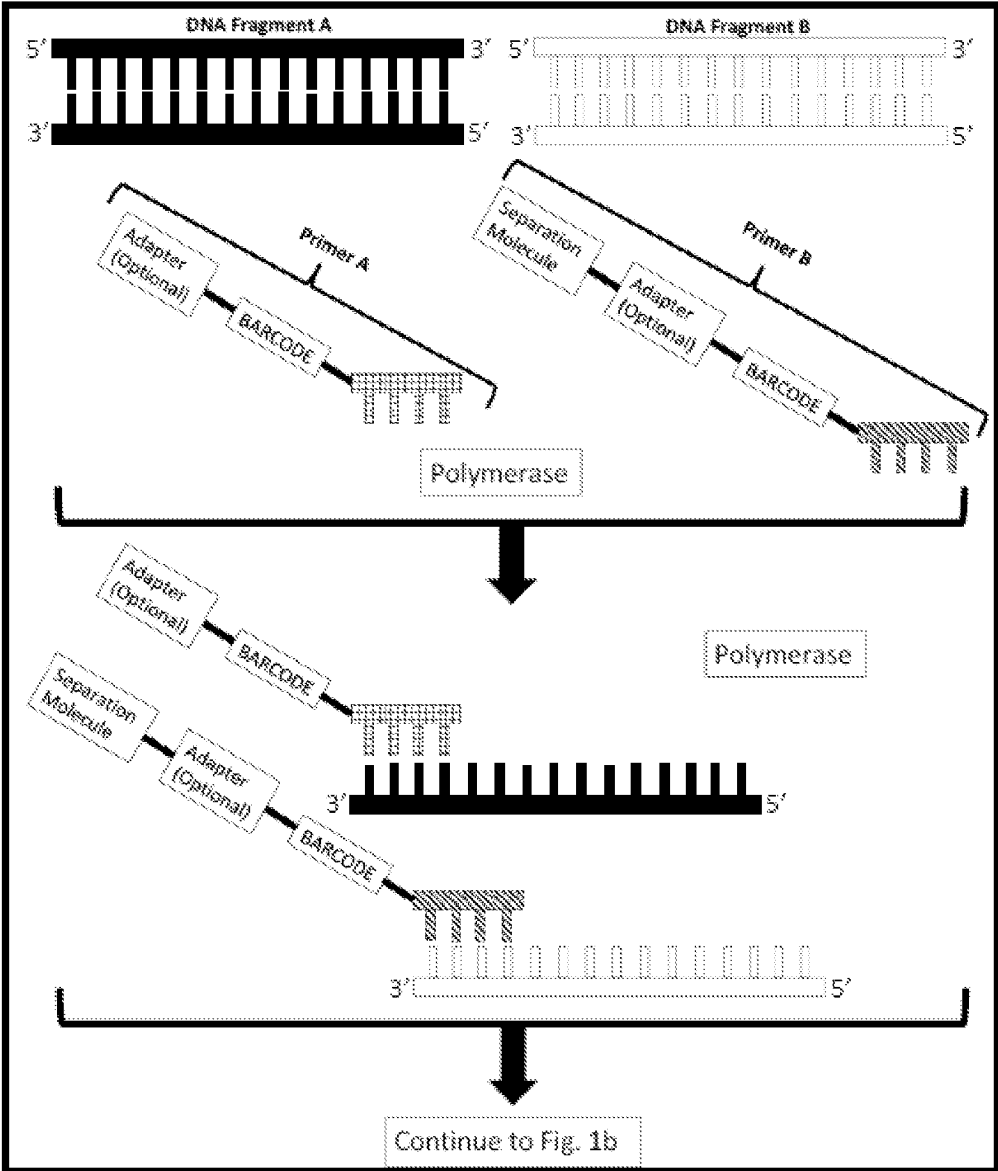
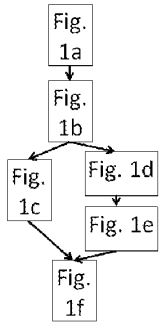


Figure 1a



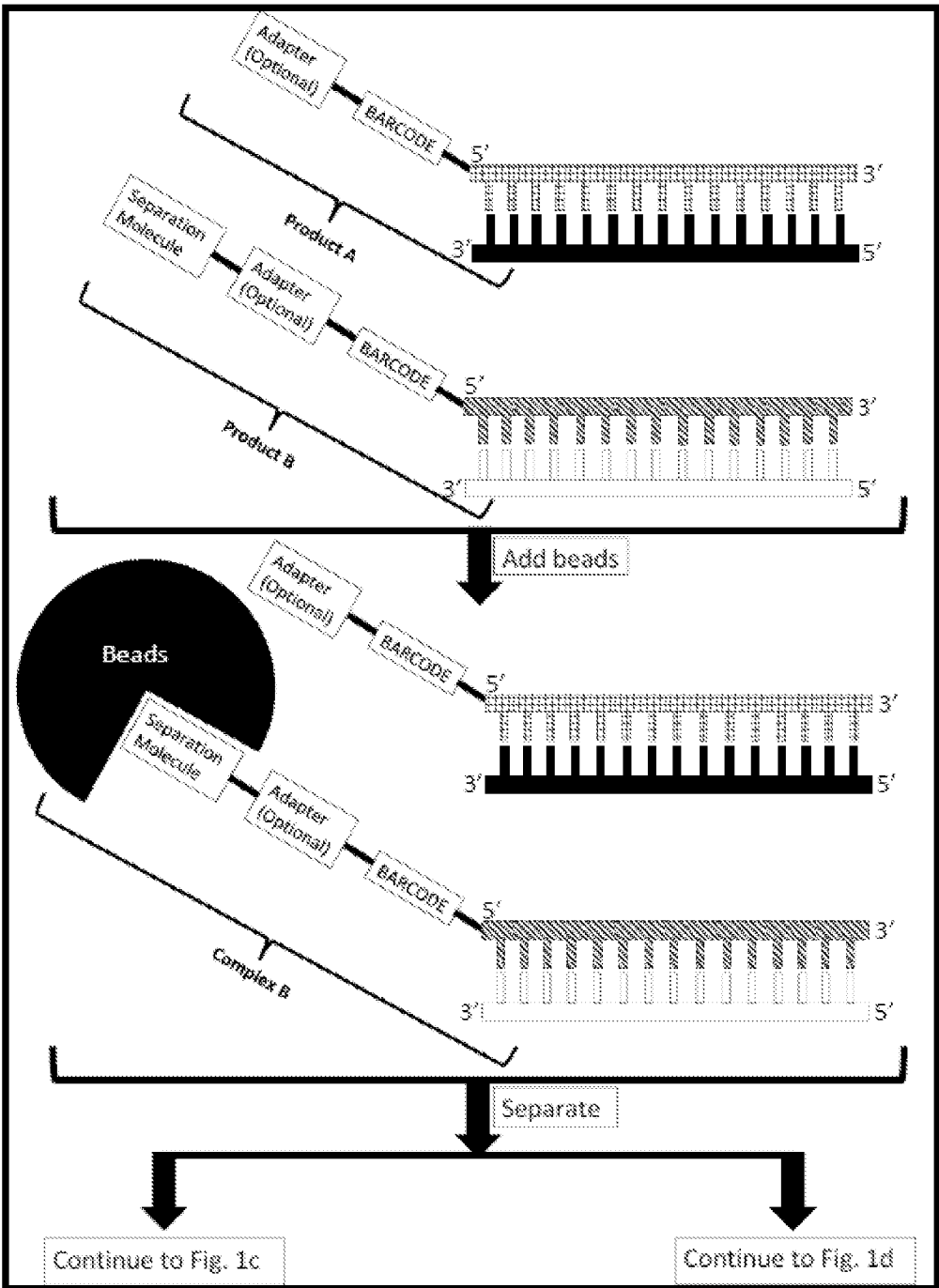
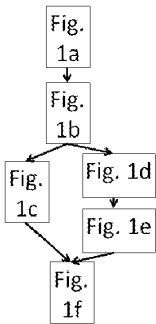


Figure 1b



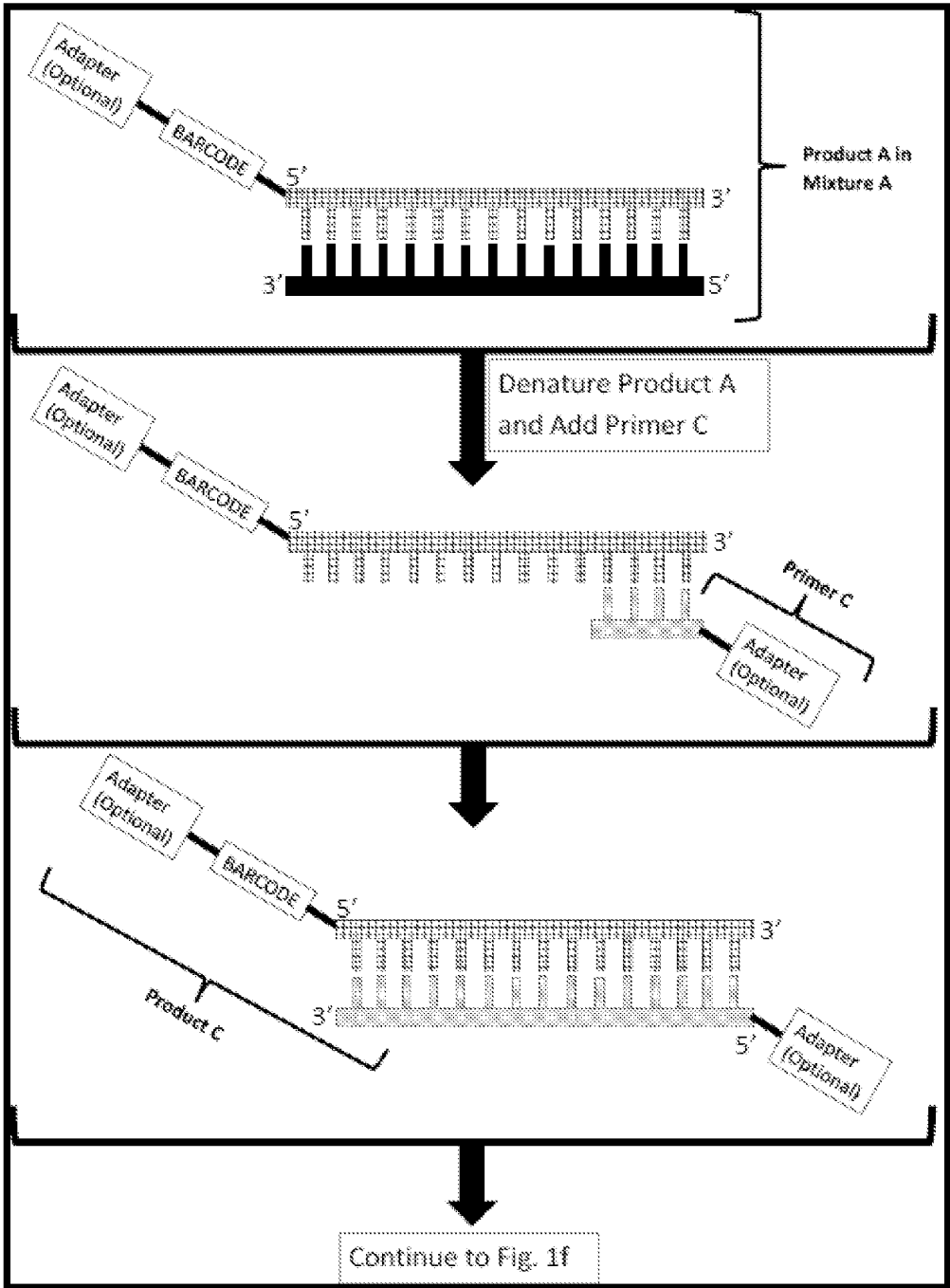
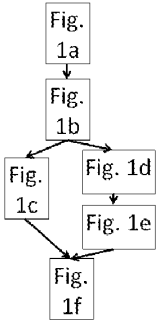


Figure 1c



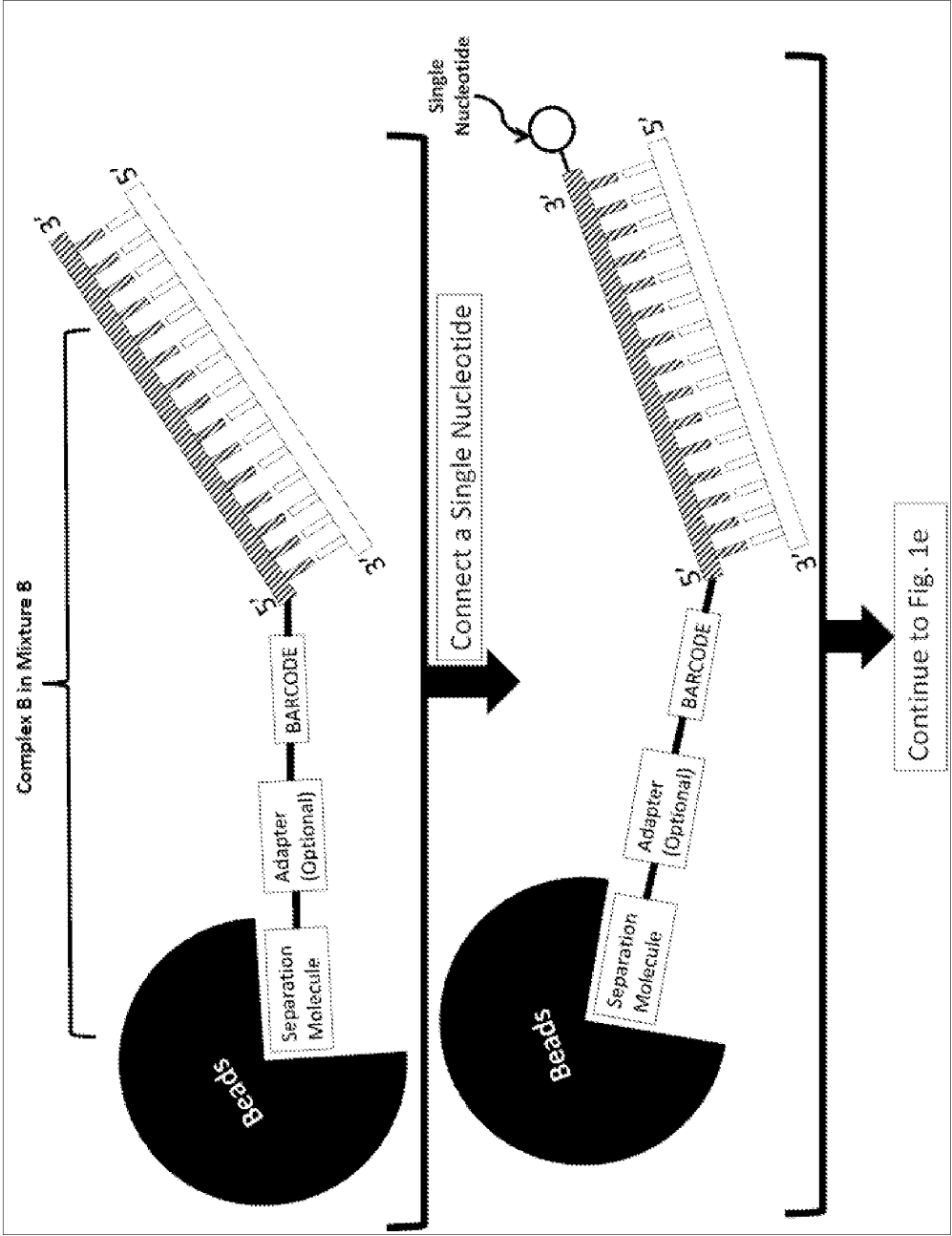
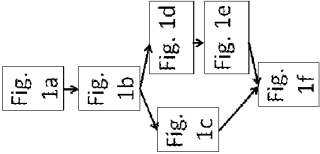


Figure 1d



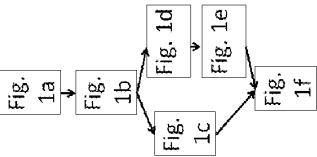
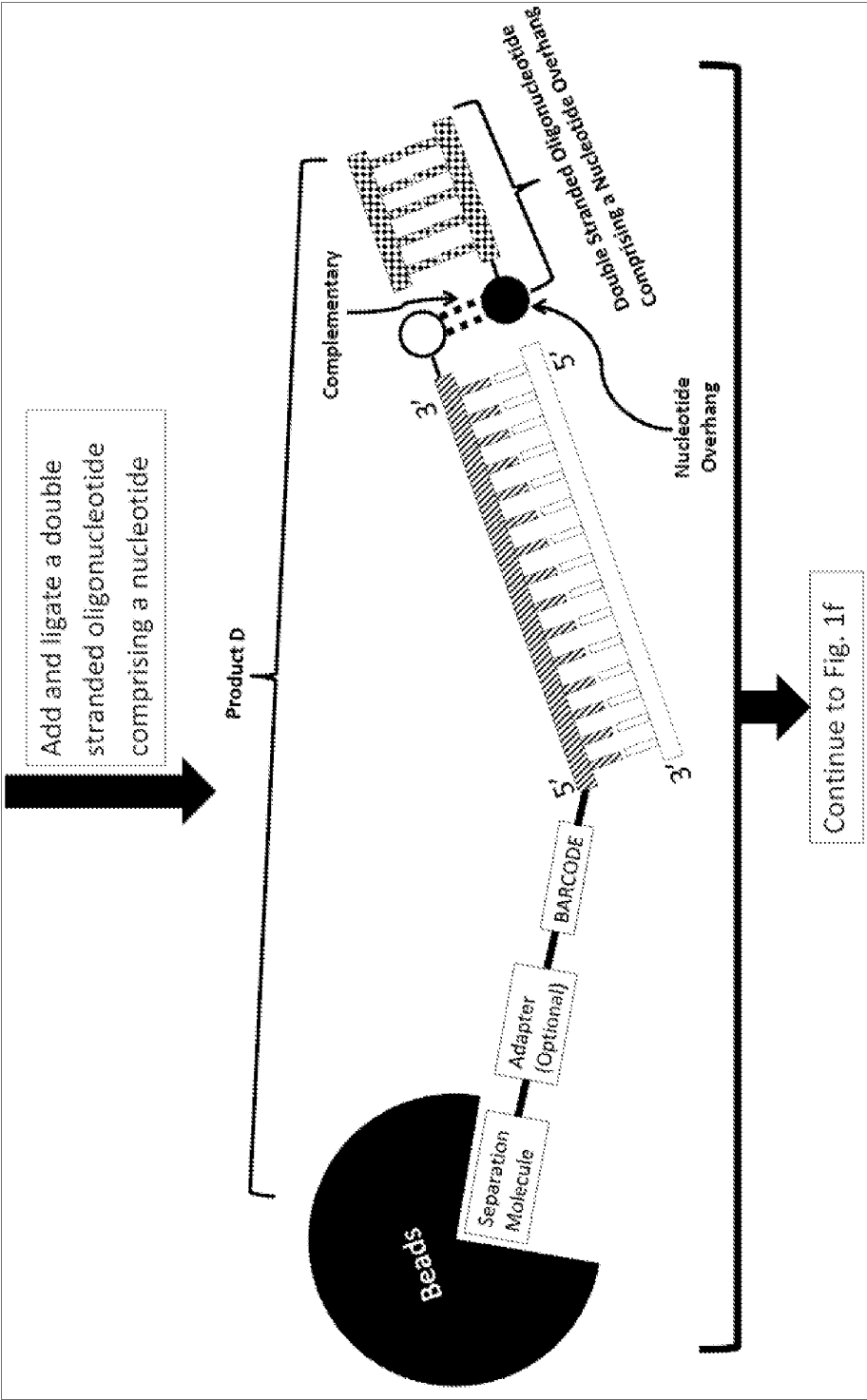
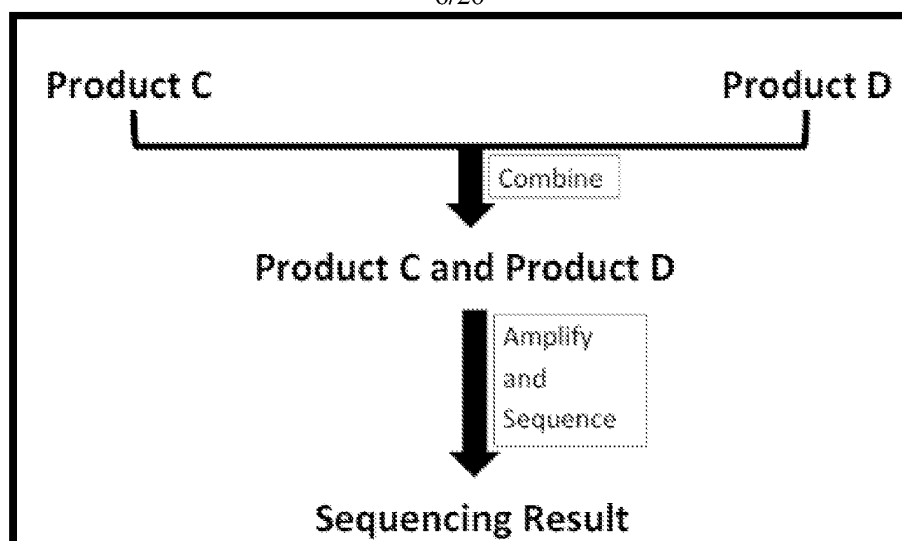
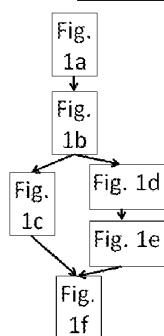


Figure 1e

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**Figure 1f**

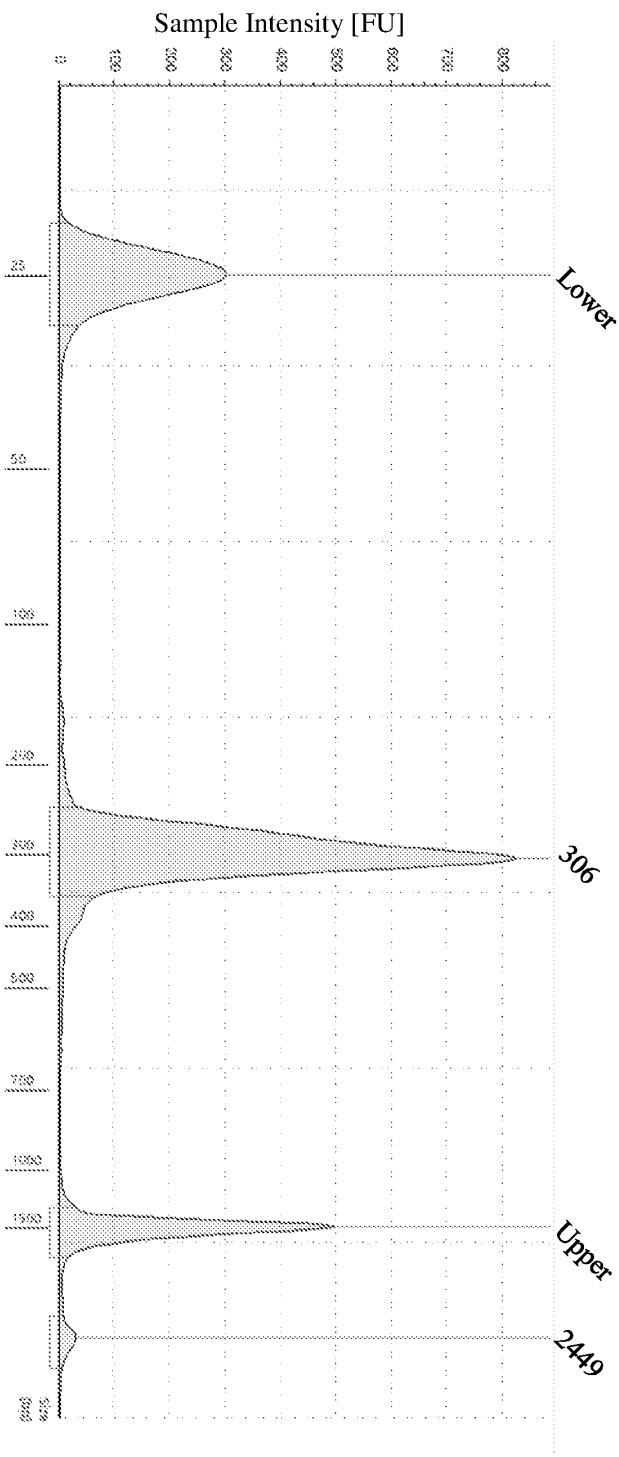


Figure 2a

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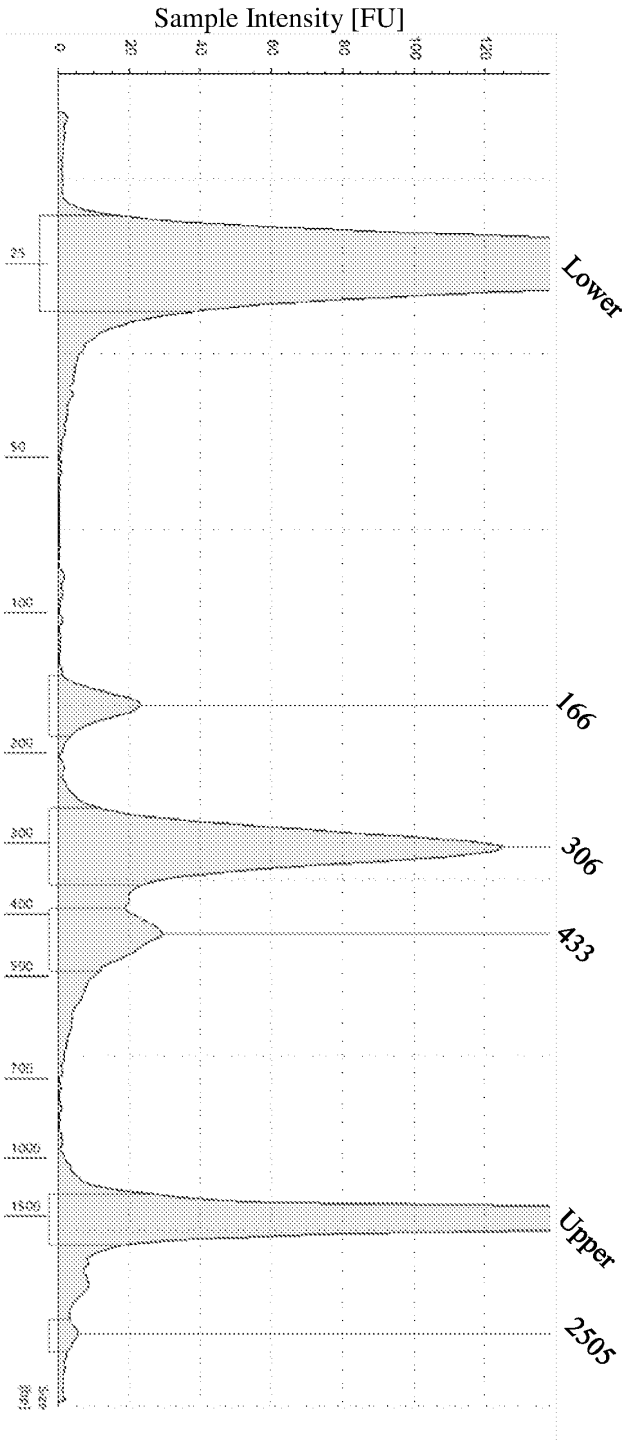
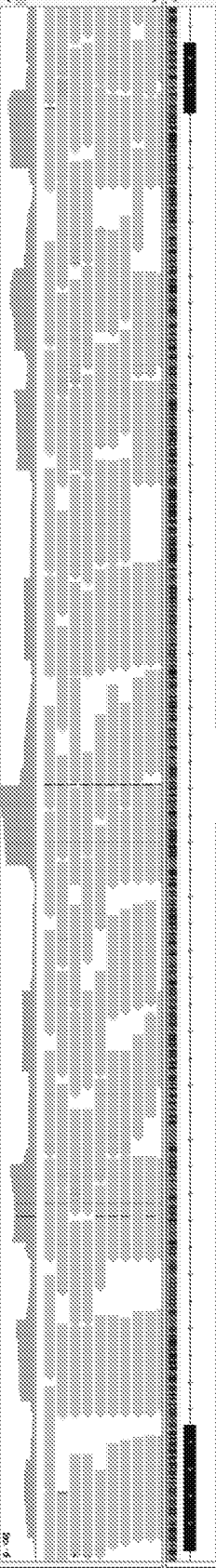
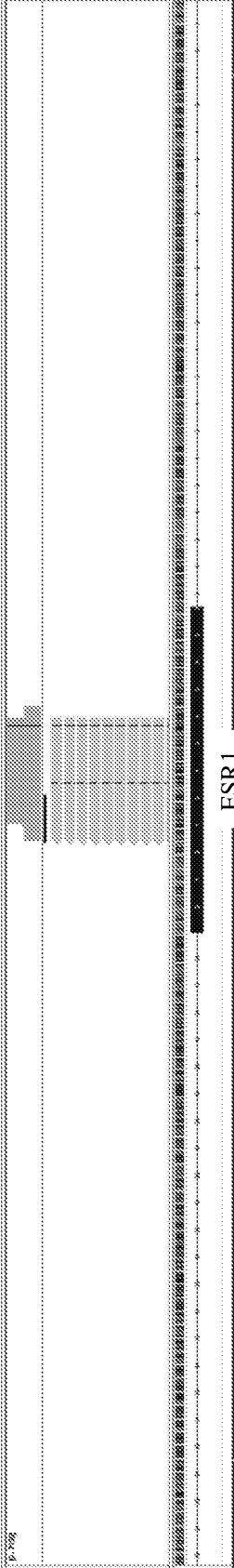


Figure 2b



ALK

Figure 3a



ESR1

Figure 3b

Variant	0% VAF		0.1% VAF		1% VAF		5% VAF	
	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed
EGFR								
E746_A750delELRA	0.00	0.00	0.10	0.06	1.00	1.79	5.00	6.50
EGFR								
L858R	0.00	0.00	0.10	0.12	1.00	0.62	5.00	6.07
EGFR								
T790M	0.00	0.00	0.10	0.04	1.00	0.17	5.00	3.21
EGFR								
V769_D770insASV	0.00	0.00	0.10	0.14	1.00	1.38	5.00	7.20
KRAS								
G12D	0.00	0.00	0.10	0.06	1.00	0.87	5.00	4.38
NRAS								
A59T	0.00	0.00	0.10	0.05	1.00	0.53	5.00	6.27
NRAS								
Q61K	0.00	0.00	0.10	0.16	1.00	1.23	5.00	8.14
PIK3CA								
E545K	0.00	0.00	0.10	0.12	1.00	2.15	5.00	7.26
Average	0.00	0.00	0.10	0.09	1.00	1.09	5.00	6.13
SD	0.00	0.00	0.00	0.05	0.00	0.67	0.00	1.61

Figure 4a

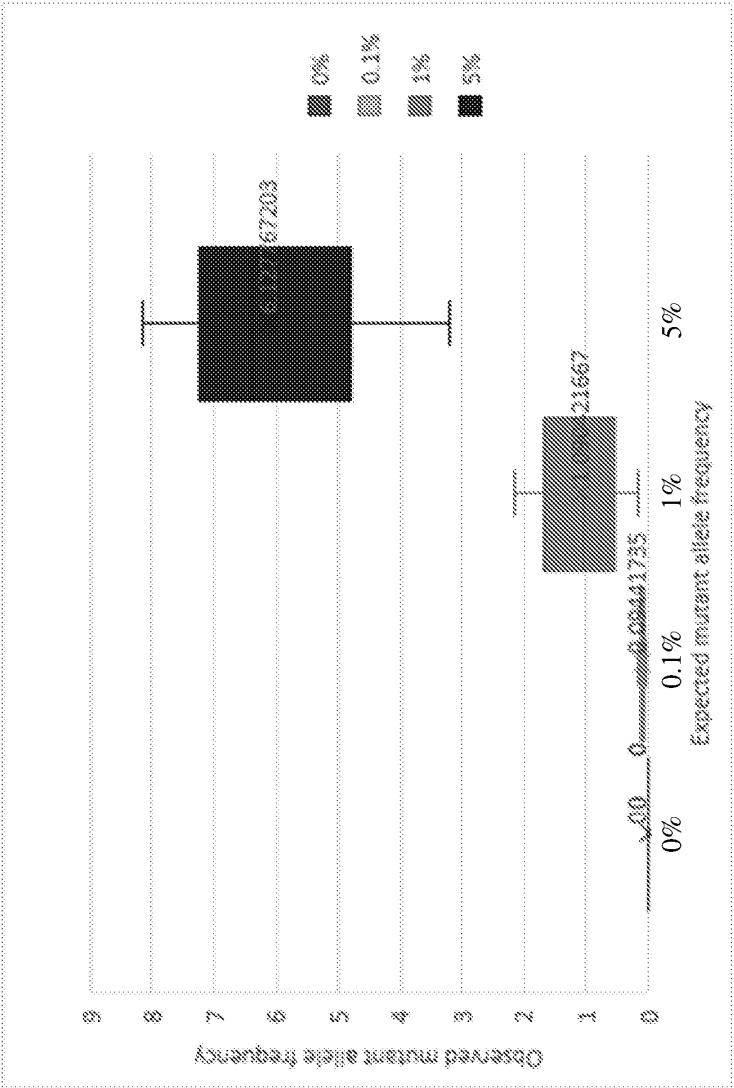


Figure 4b

Variant allele frequency		0.10%		1%		5%	
Mutation Class	SNVs	Sensitivity >67%	Specificity >99%	Sensitivity >99%	Specificity >99%	Sensitivity >99%	Specificity >99%
	INDELs	>99%	>99%	>99%	>99%	>99%	>99%

Figure 4c

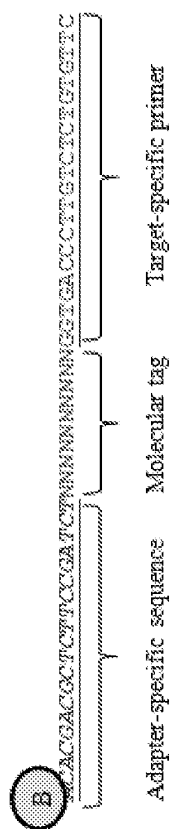


Figure 5

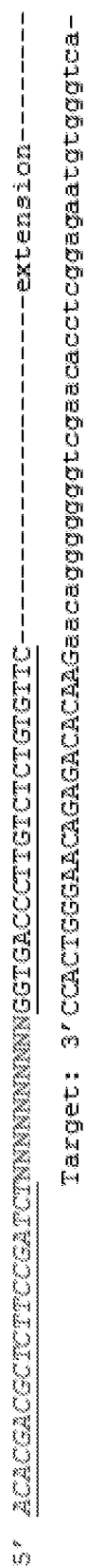


Figure 6

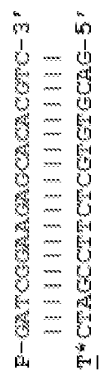


Figure 7

[illegible]

Figure 8a

[illegible]

Figure 8b

5' AATGATACGGCGAACCAGGAGATCTACACTCTTTCCCTACAGACGCCTTCGGATCTNNNNNNNNGTGAACCTTGCTGTGTTCTGtgaagacc
tcggagaatgttggtcacctccttcacgatccgaaagacacacagtctgaaactgcacgtcaacgtgatatcttgtatgccgcctttctcgttg 3'

Figure 9

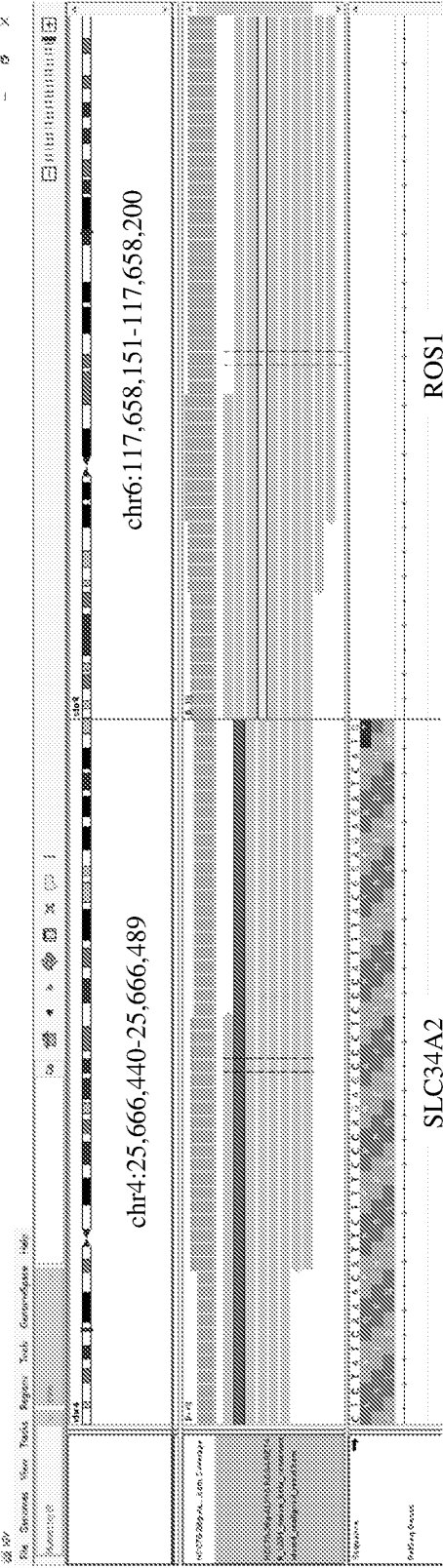
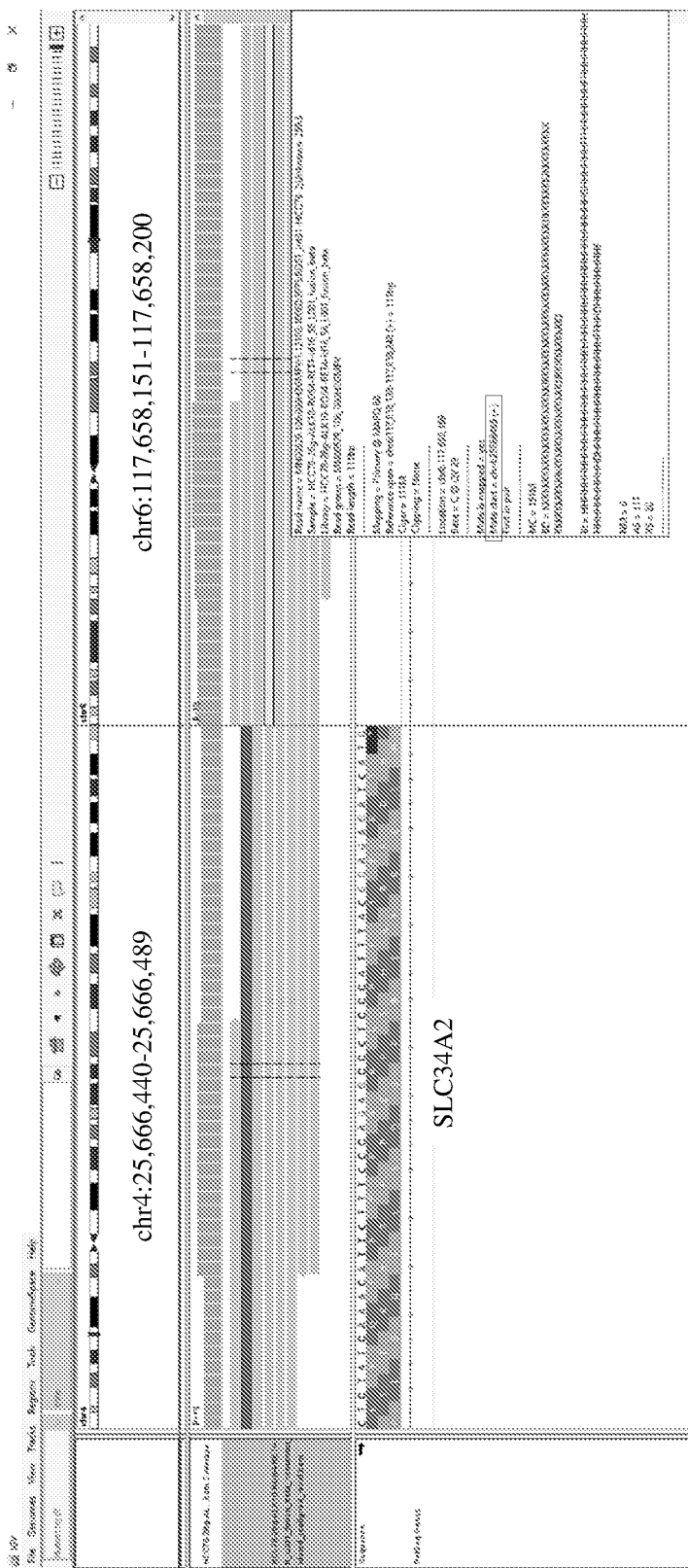


Figure 10a



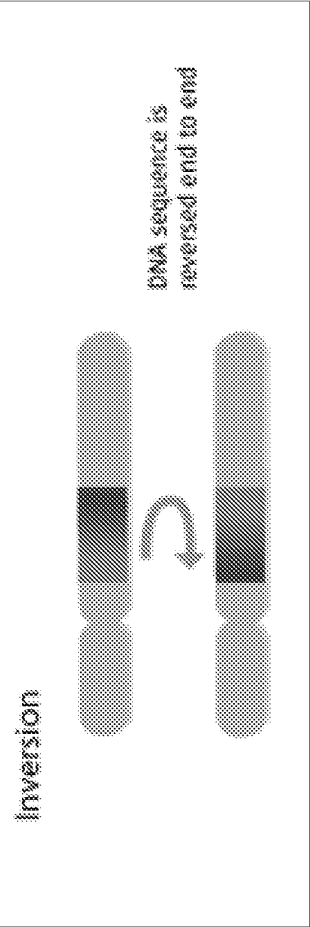


Figure 11a

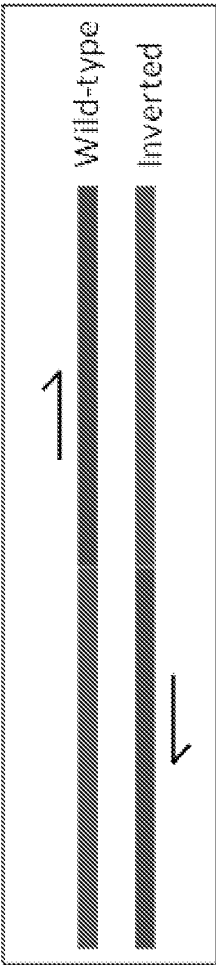


Figure 11b

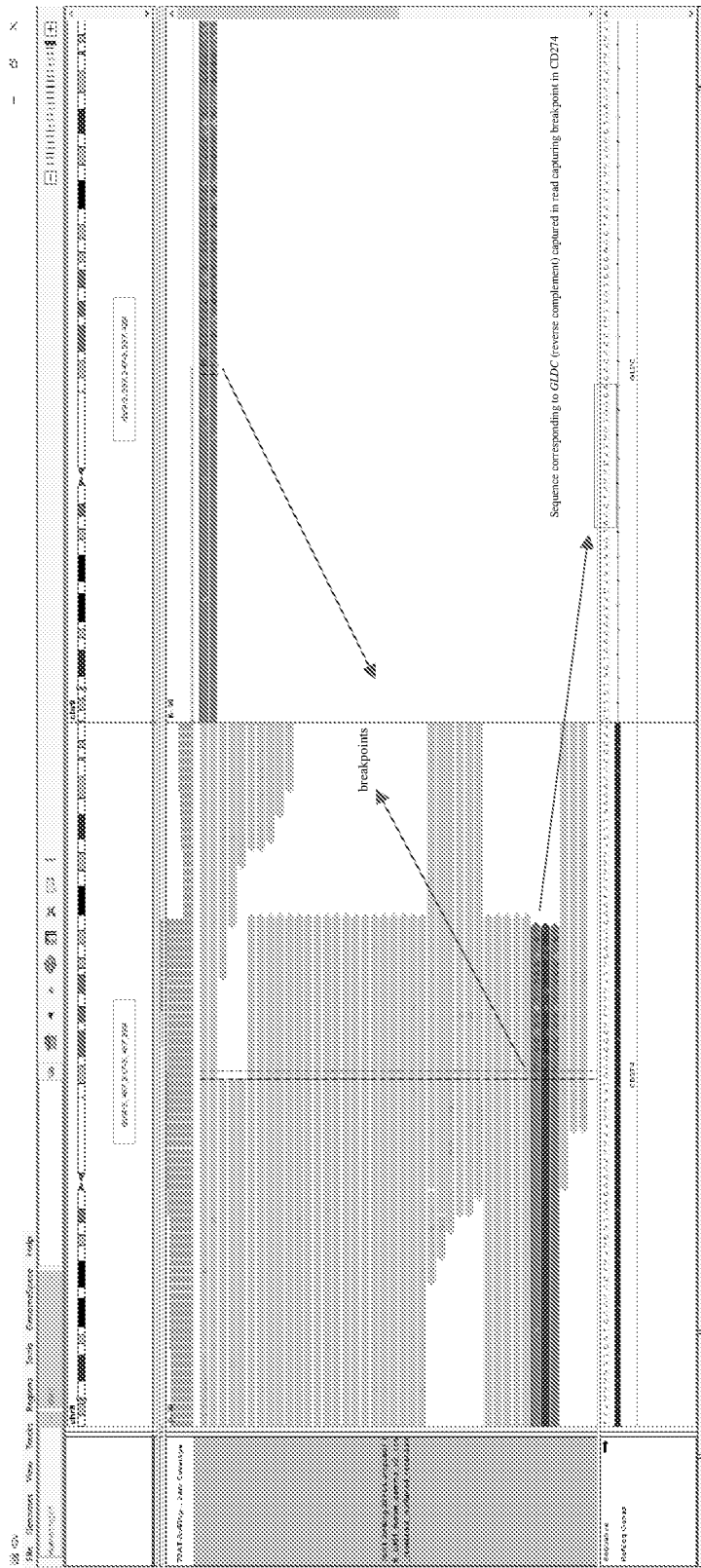


Figure 12

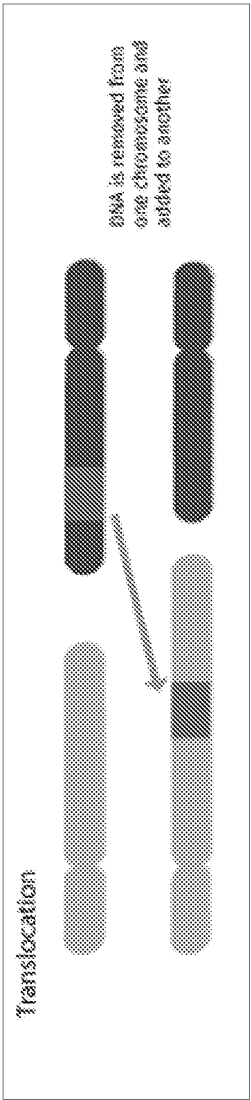


Figure 13

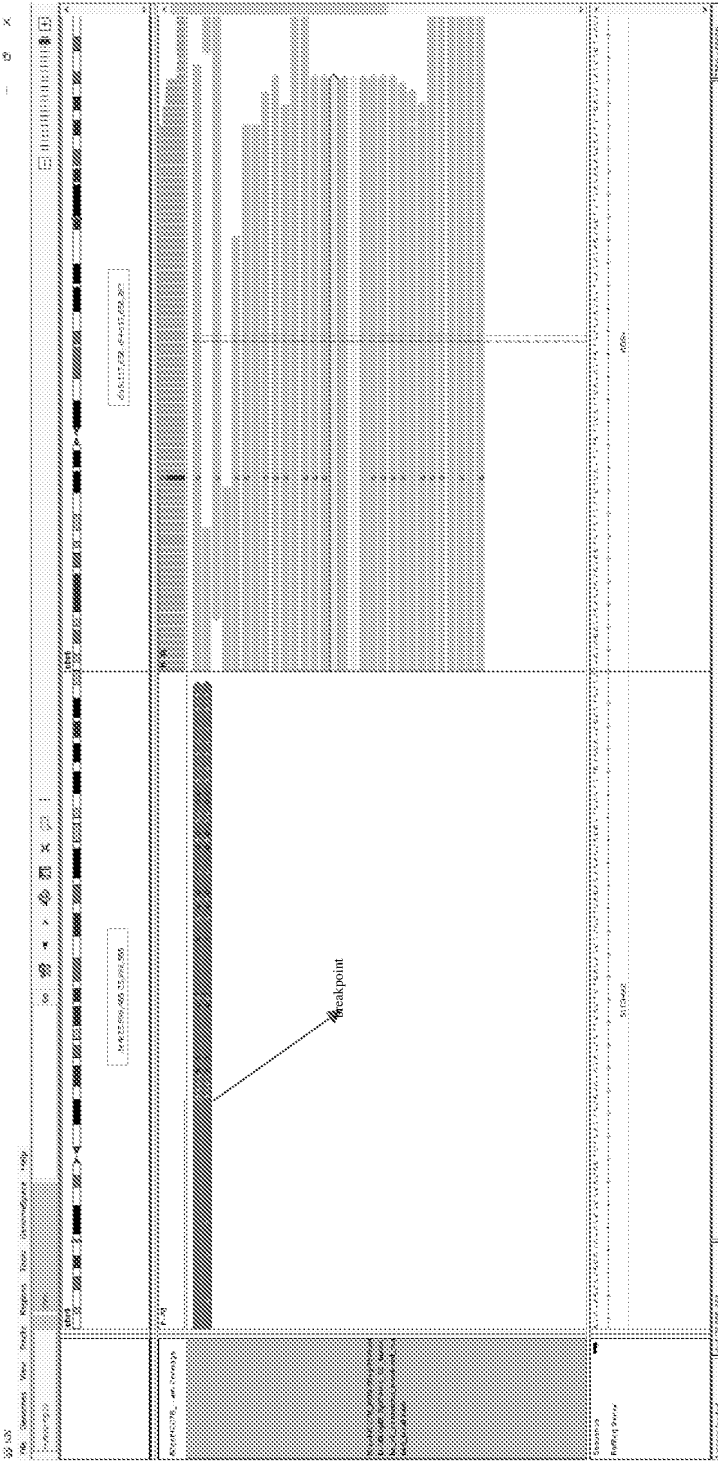


Figure 14