

FIGURE 1

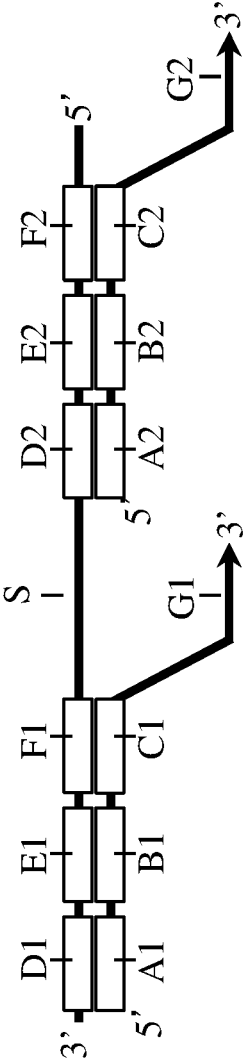


FIGURE 2

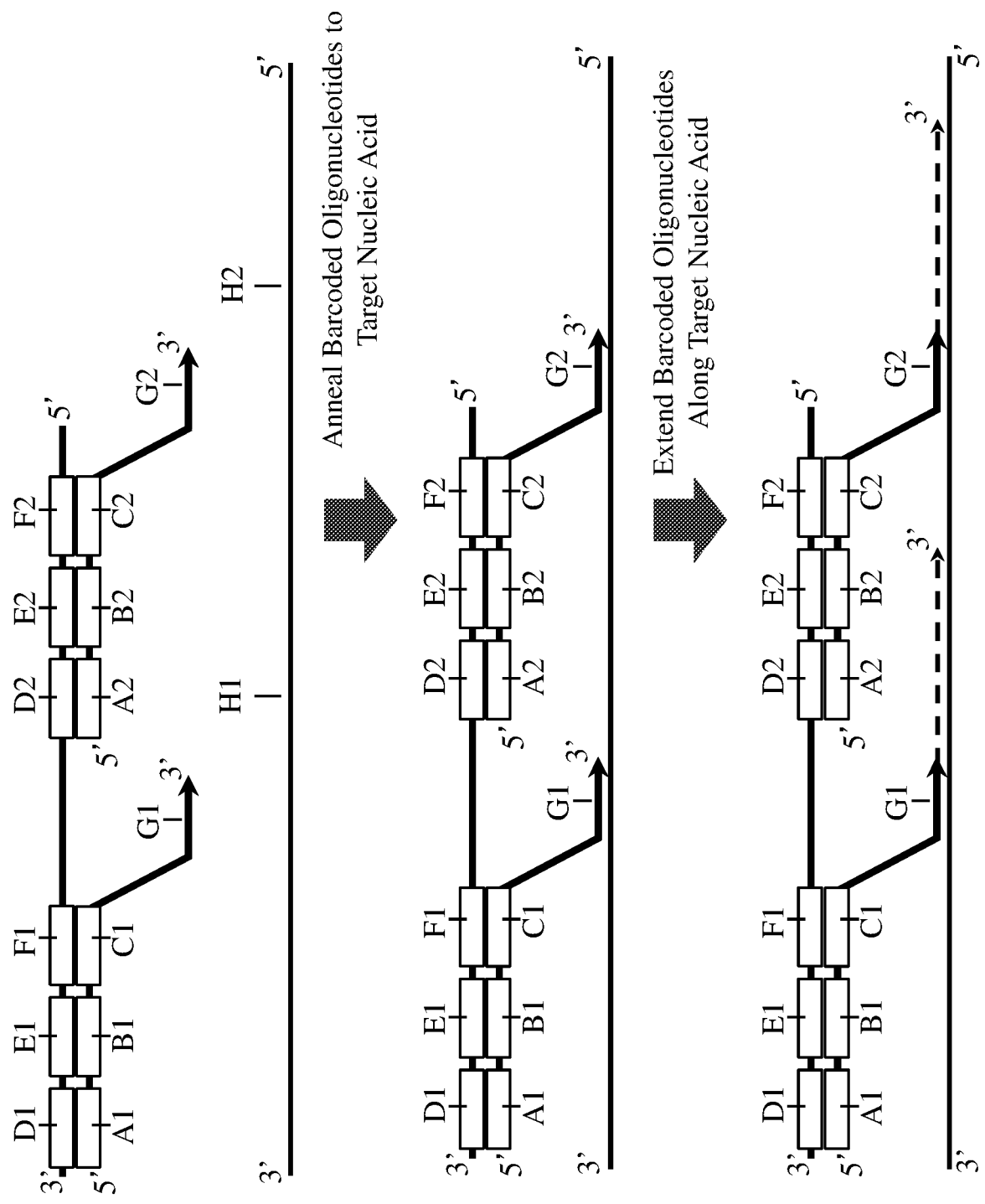


FIGURE 3

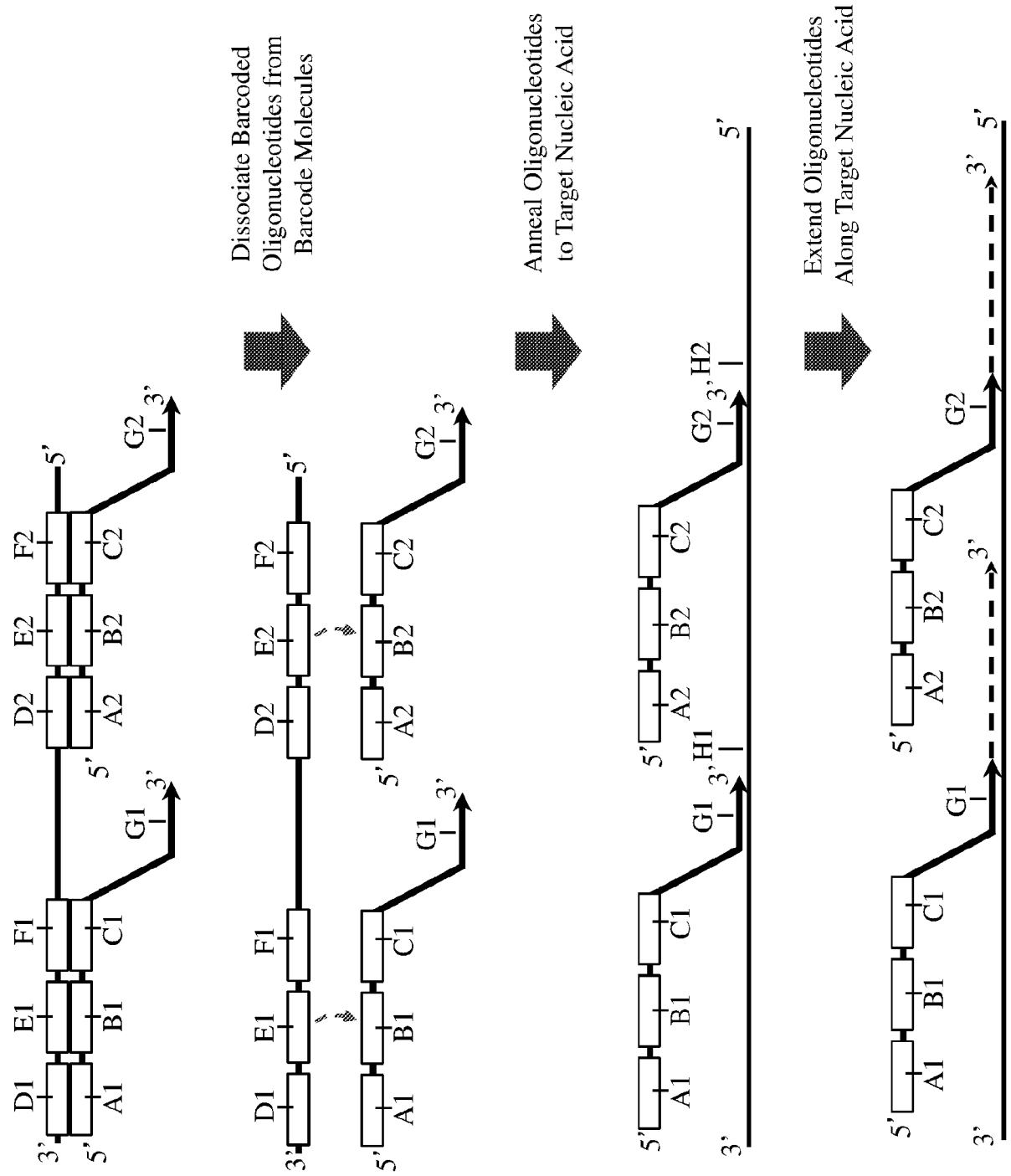


FIGURE 4

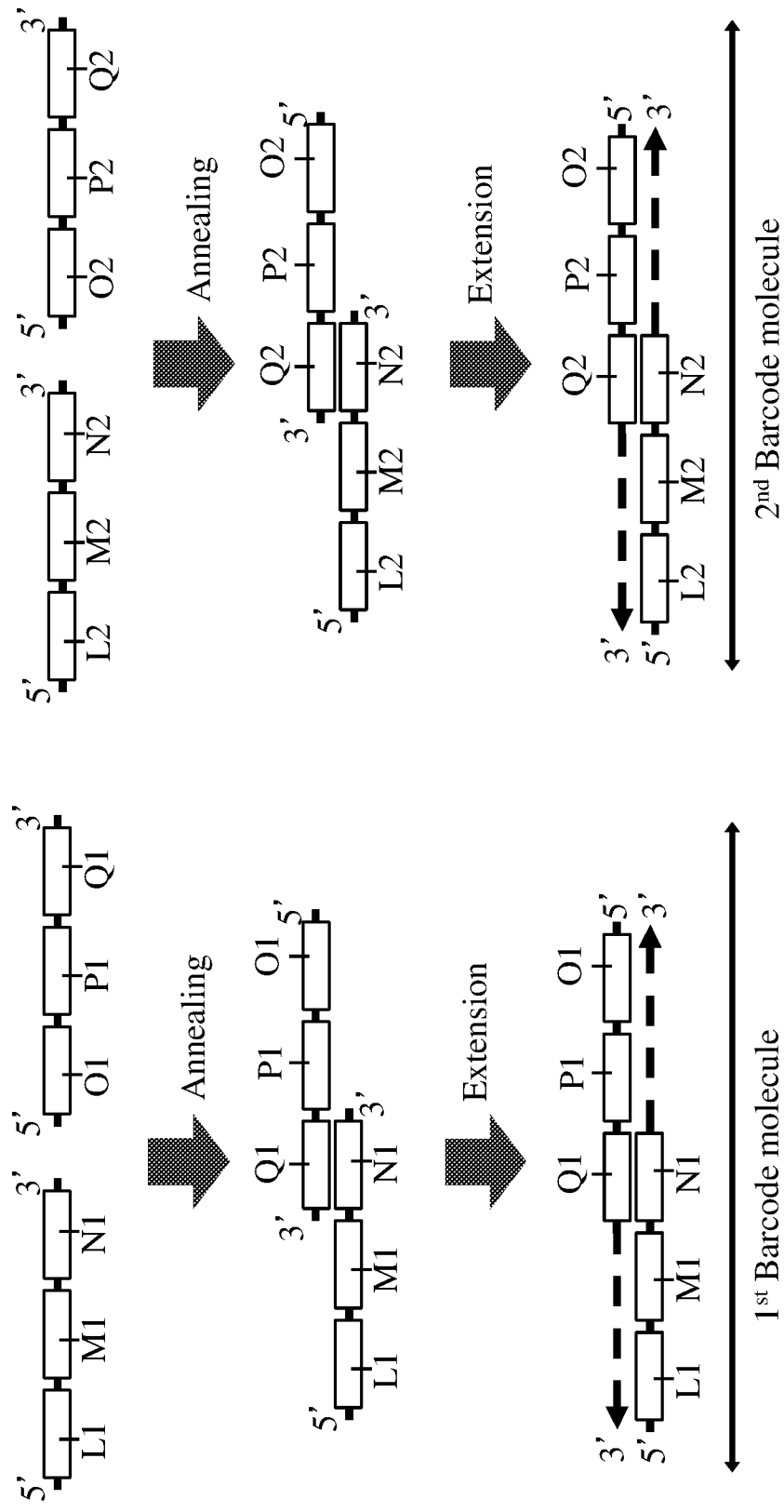


FIGURE 5

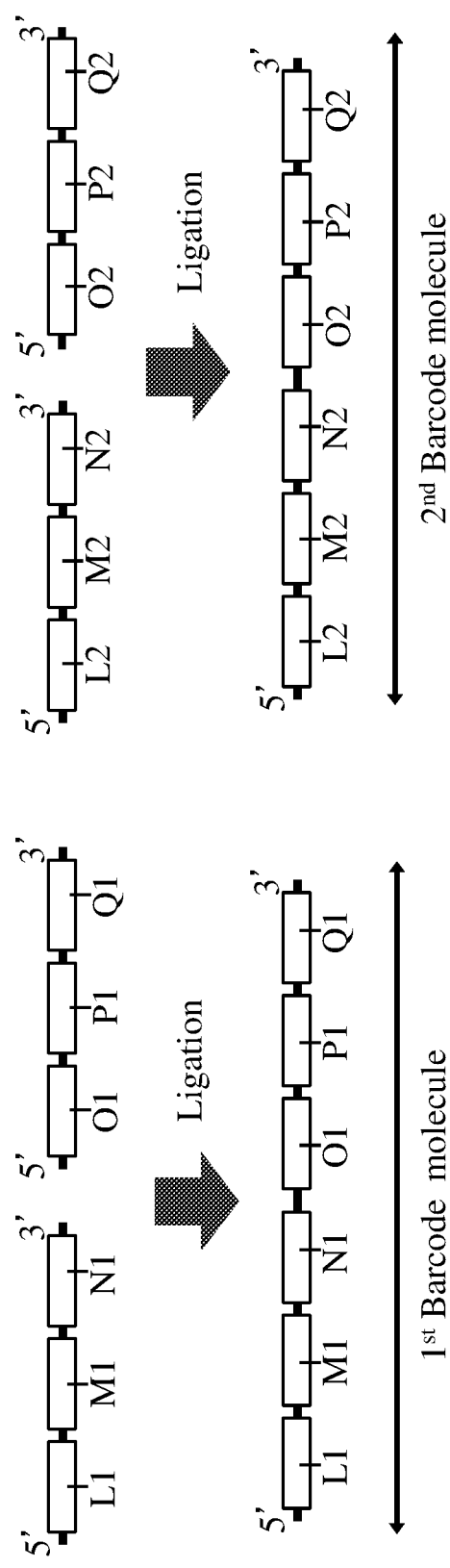


FIGURE 6

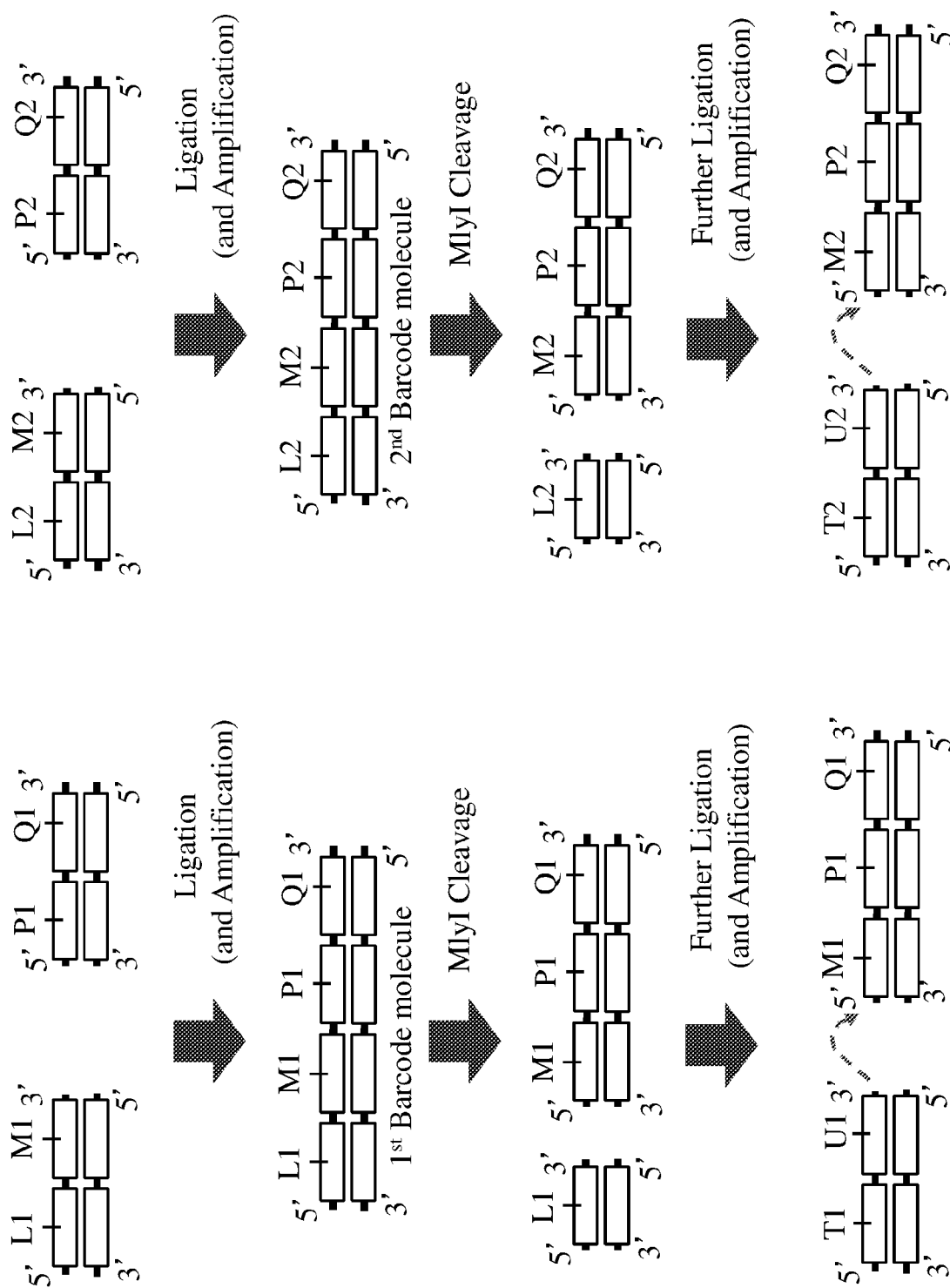


FIGURE 7

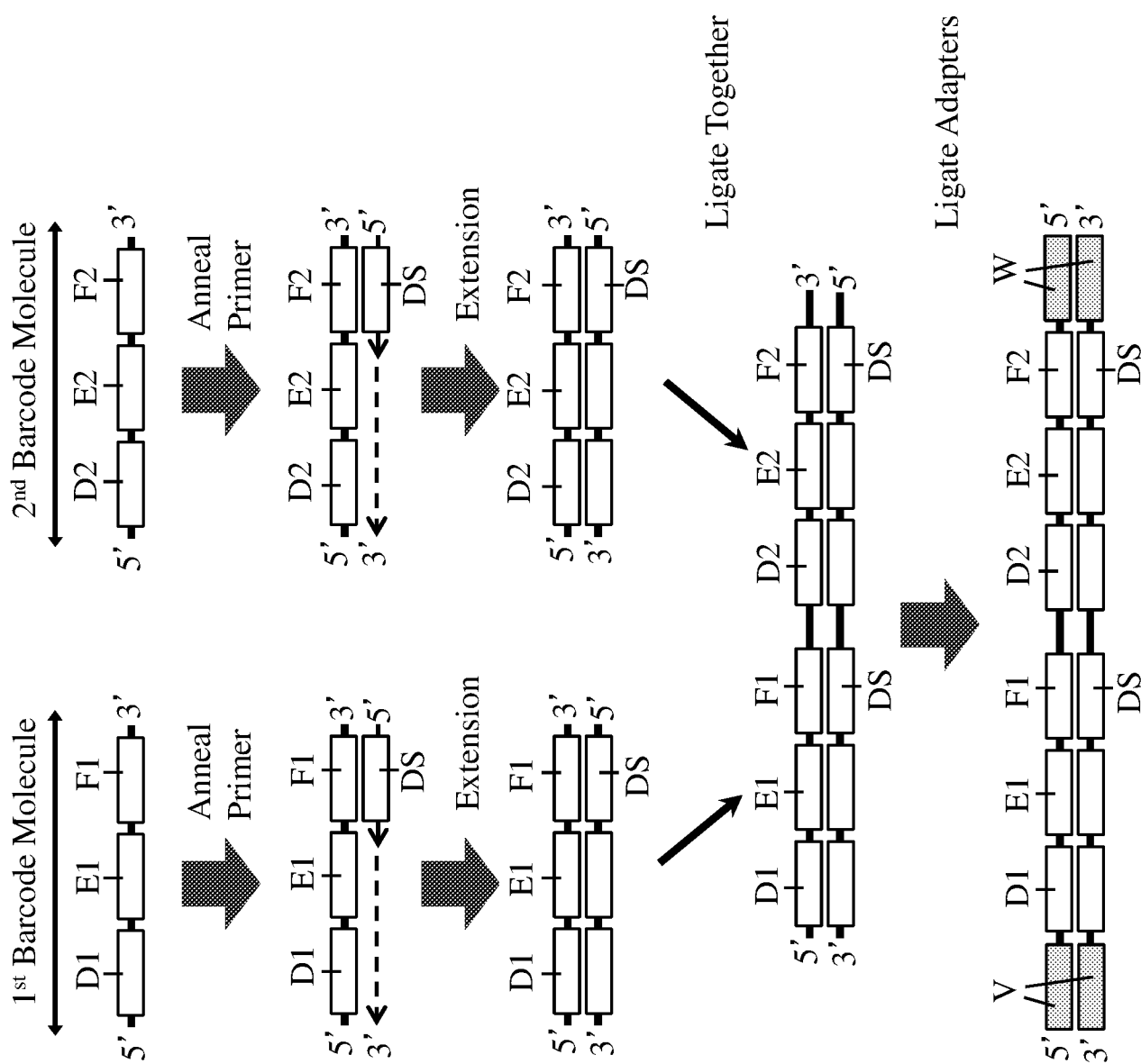
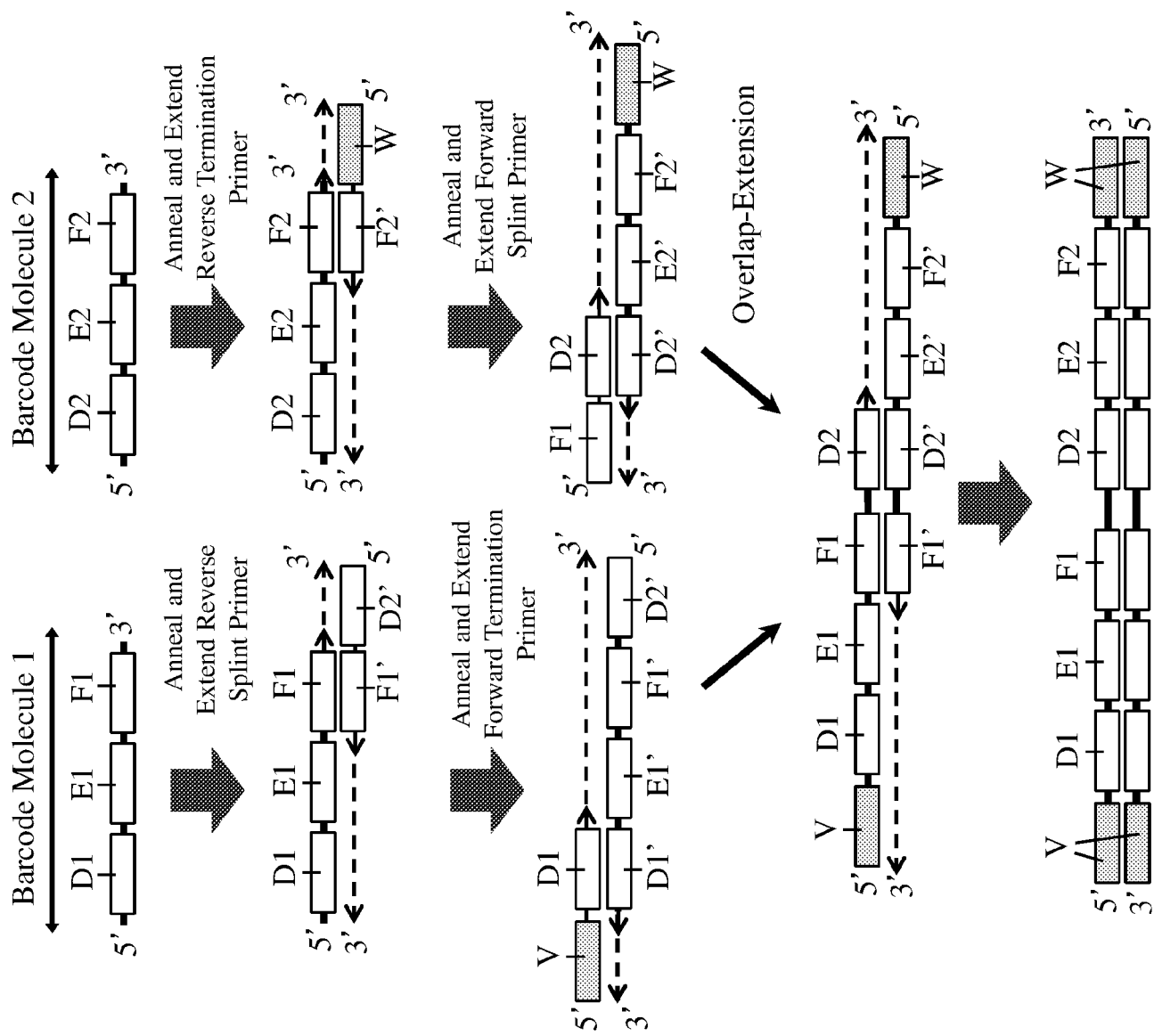
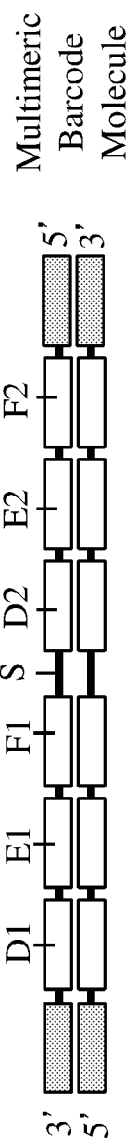
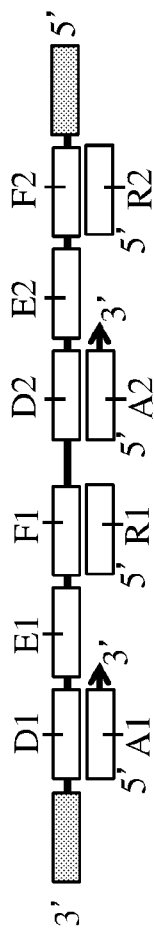


FIGURE 8

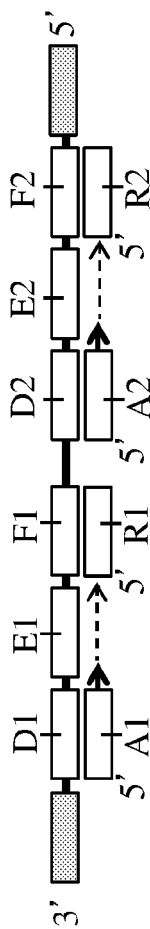




Denature Barcode Molecules,
and Anneal Extension and
Blocking Primers



Primer Extension



Remove Blocking Primers

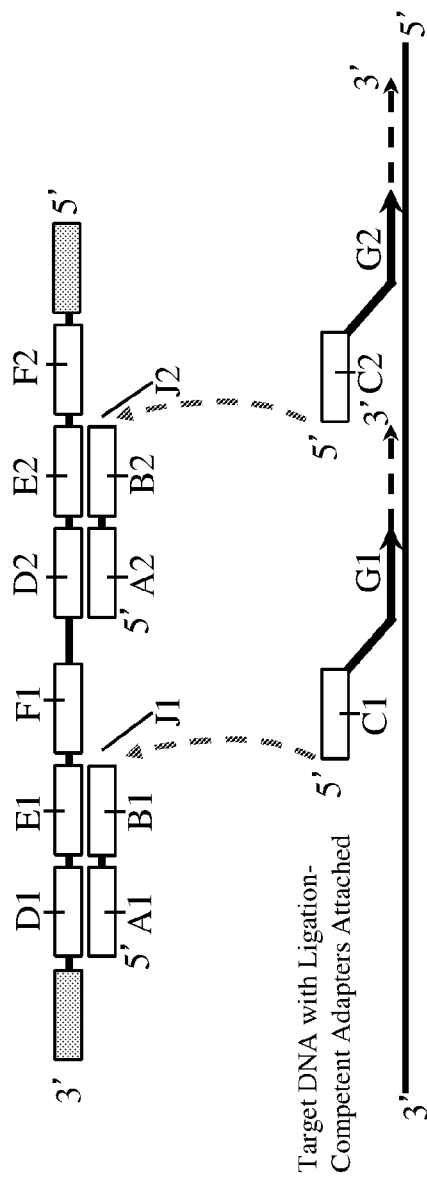
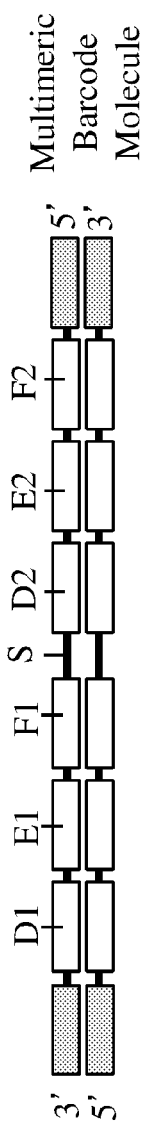
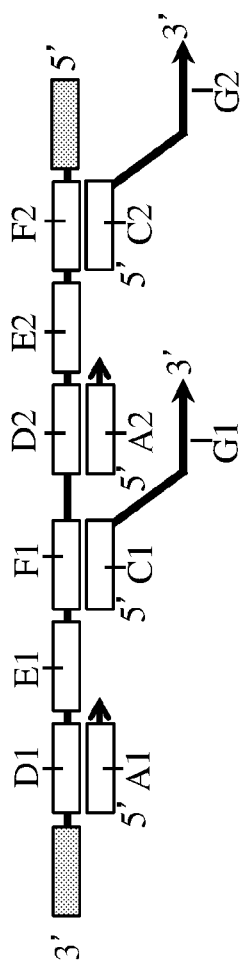


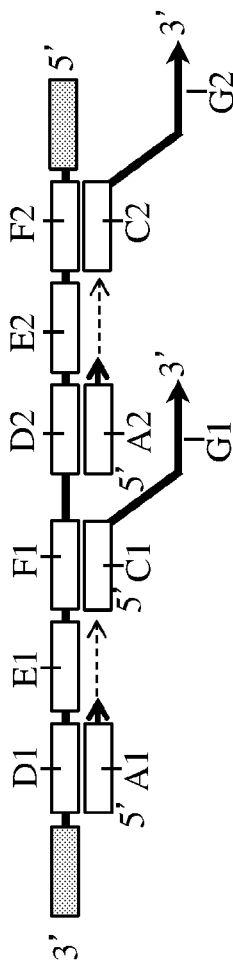
FIGURE 9



Denature and Anneal Extension
and Adapter Oligonucleotides



Primer Extend



Ligate Adapter Oligonucleotides
to Extension Products

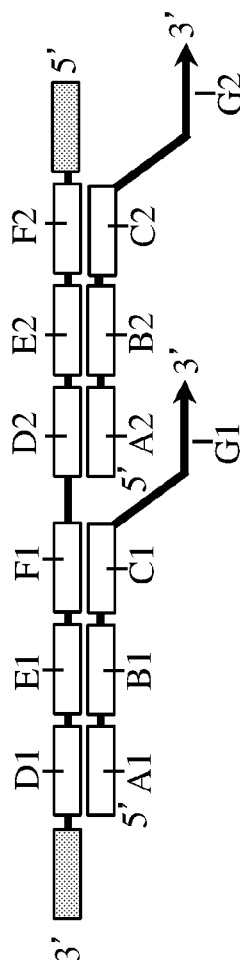


FIGURE 10

FIGURE 11

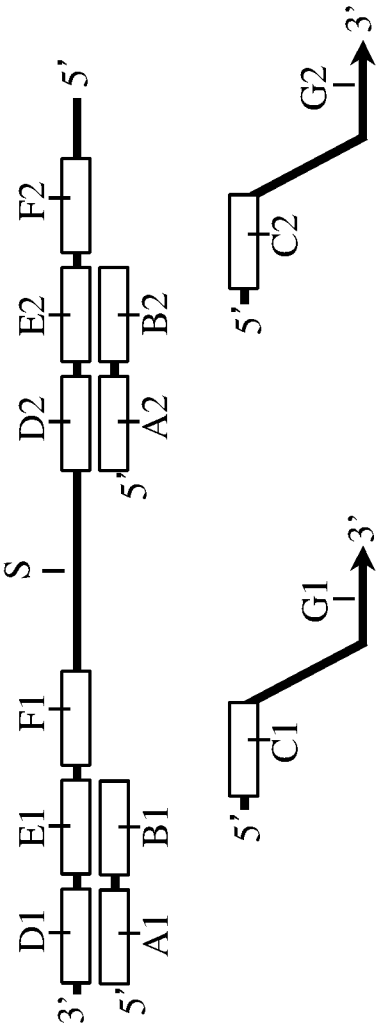


FIGURE 12

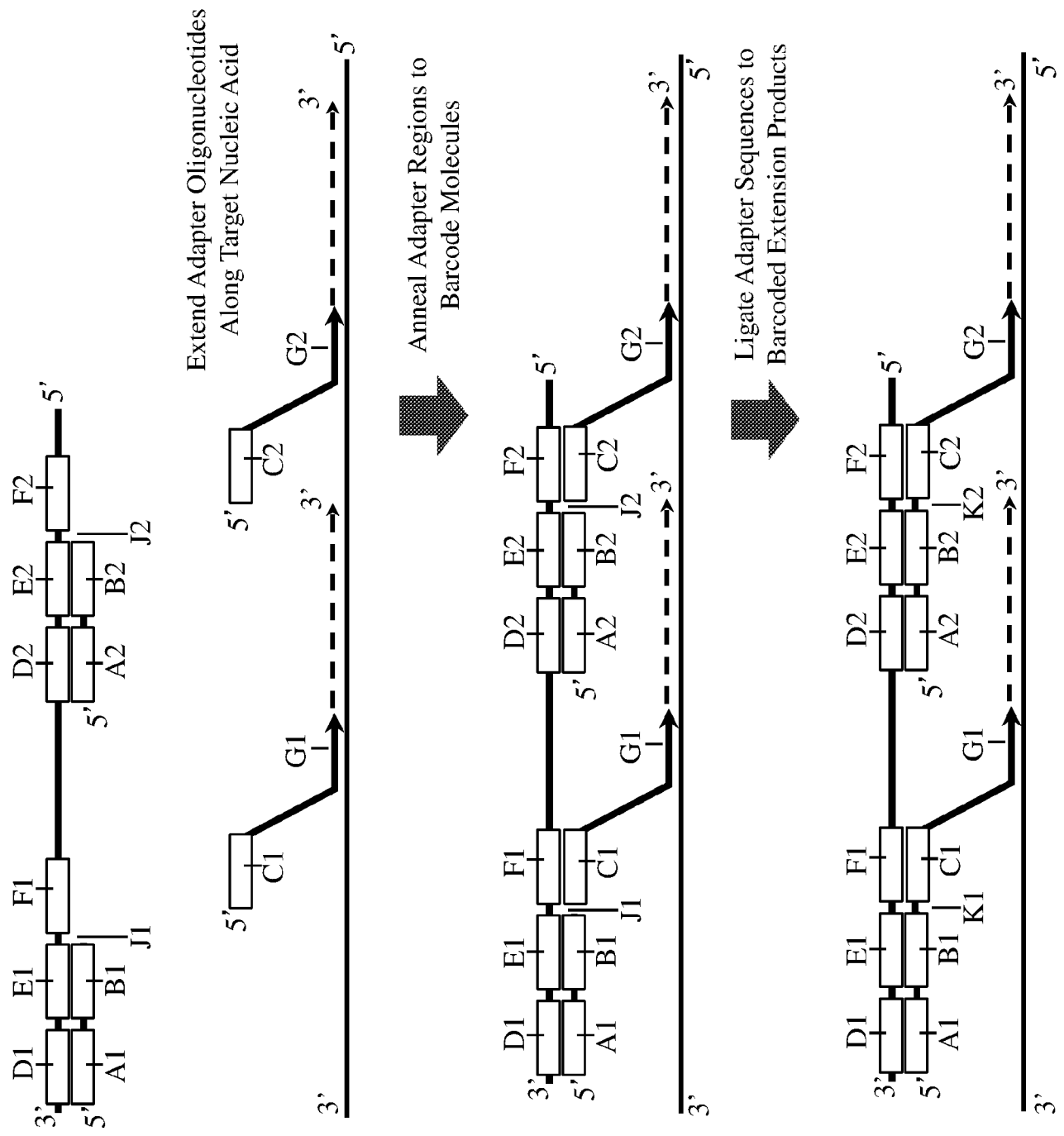


FIGURE 13

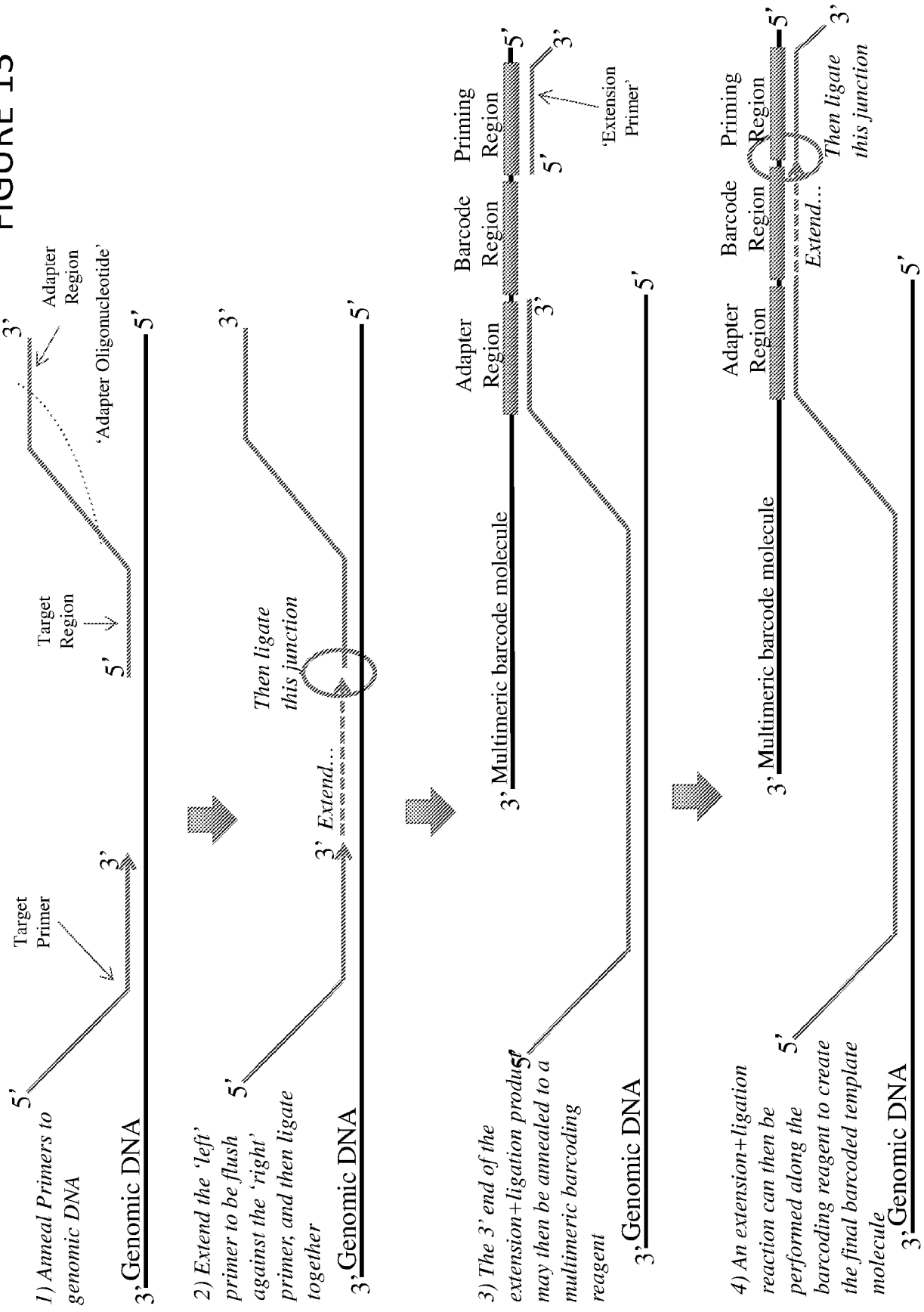


FIGURE 14

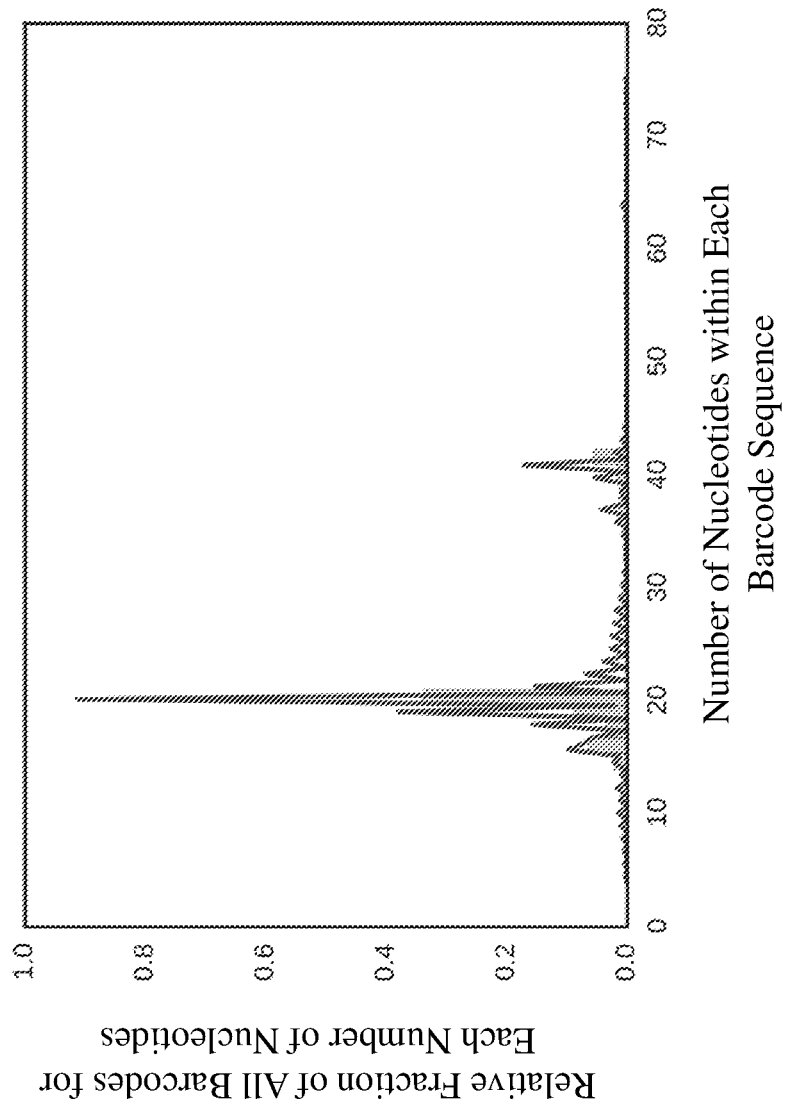


FIGURE 15

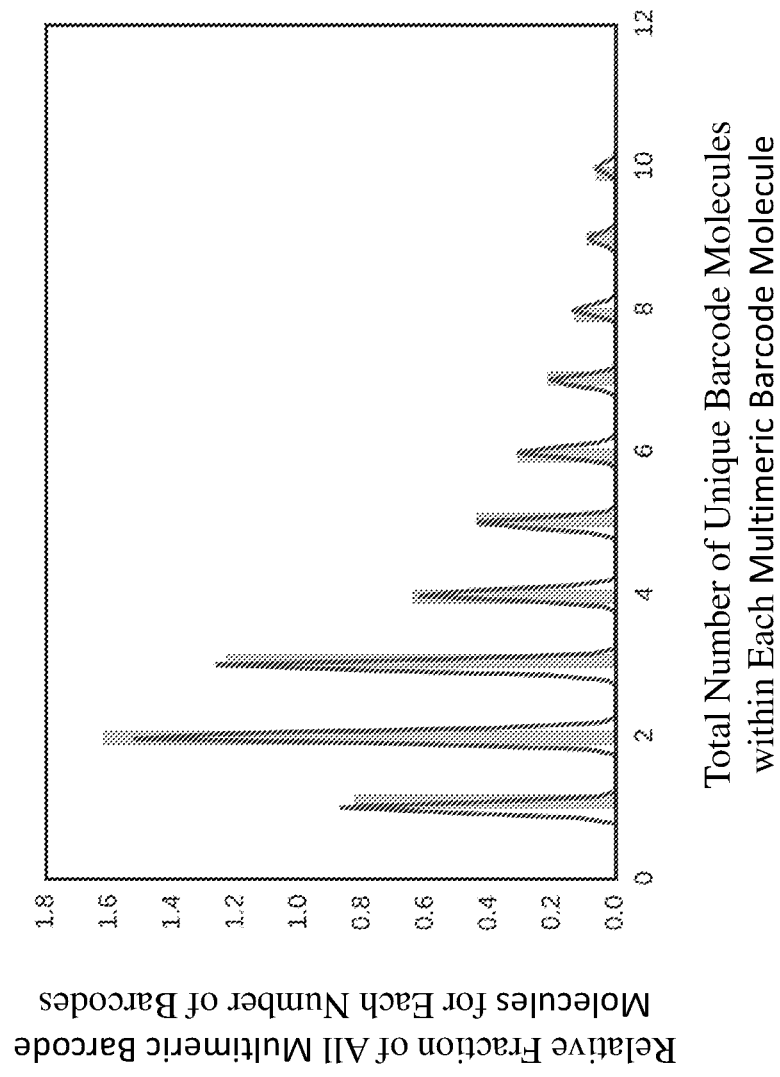


FIGURE 16

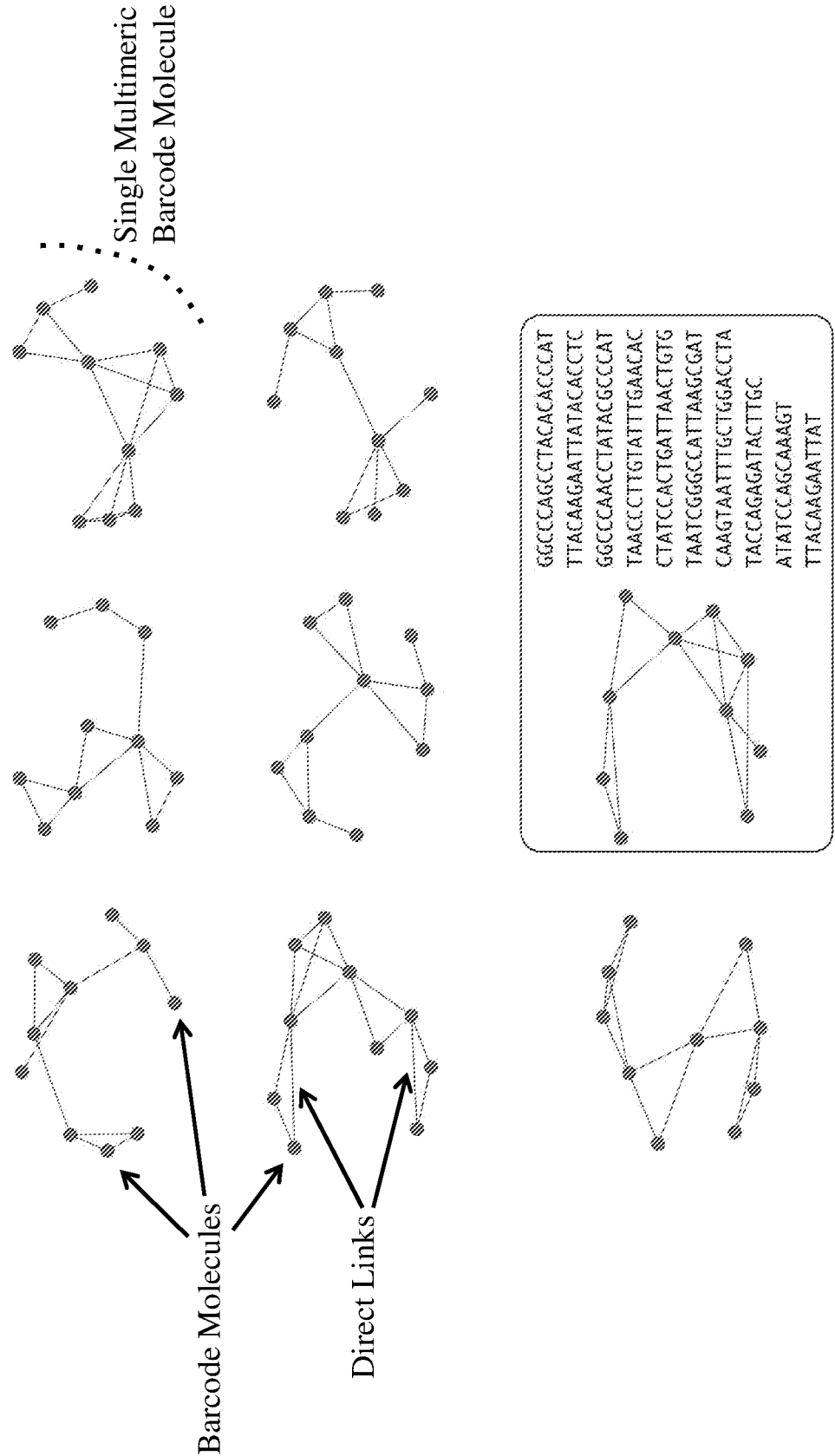
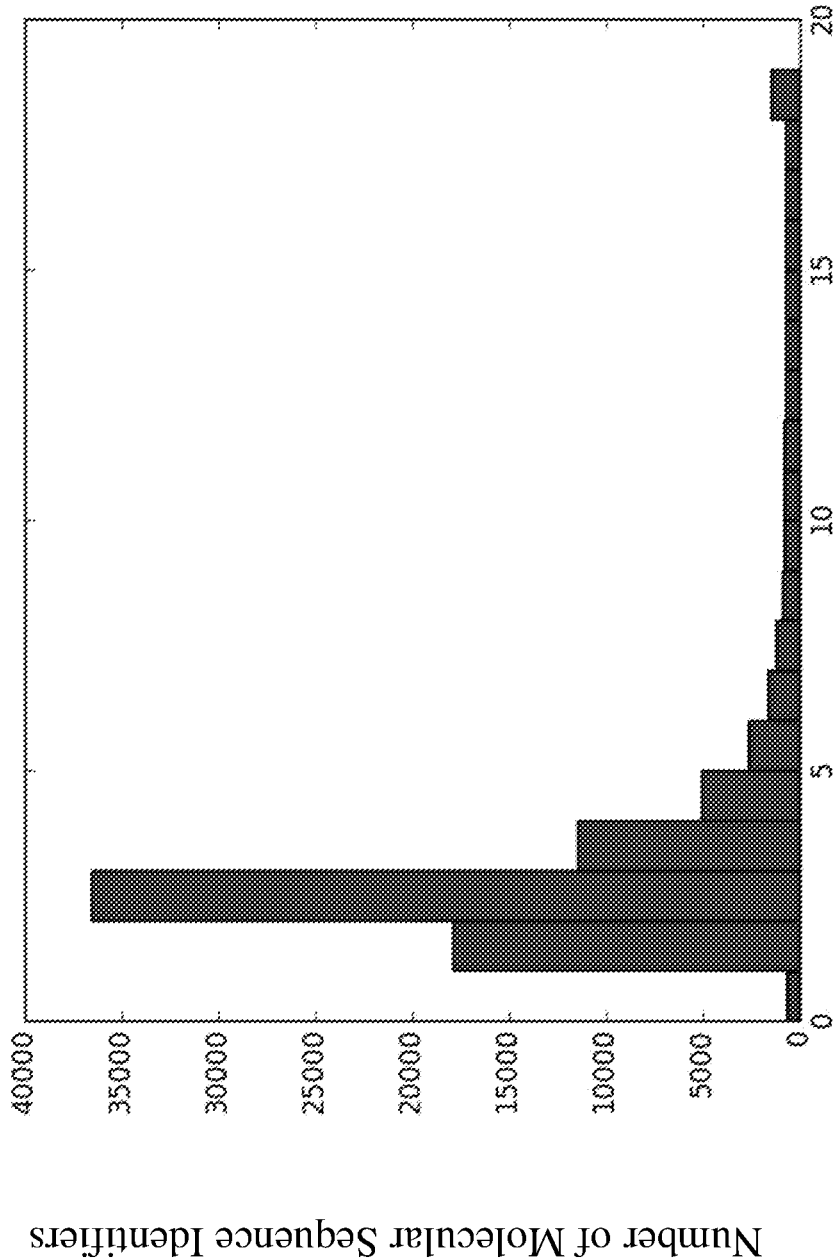
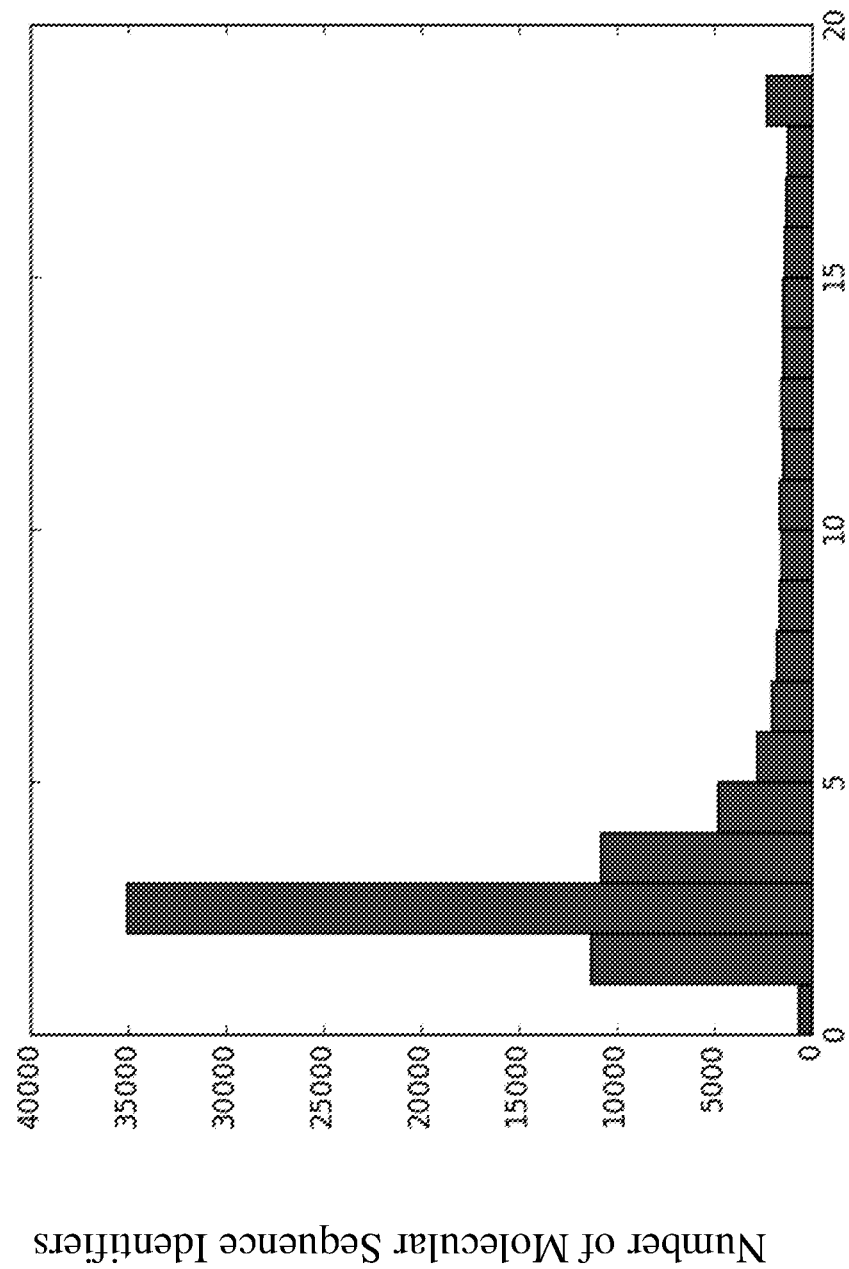


FIGURE 17



Number of Unique Barcodes per Molecular Sequence Identifier

FIGURE 18



Number of Unique Barcodes per Molecular Sequence Identifier

FIGURE 19

	Annealed to Genomic DNA Overnight	Annealed to Genomic DNA Overnight, Barcoding Reagents Denatured First	Annealed to Genomic DNA for 3 Hours	Annealed to Genomic DNA for 3 Hours, Barcoding Reagents Denatured First
HLA-A_ Exon2	153	62	103	50
HLA-A_ Exon3	2548	341	818	106
HLA-A_ Exon4	489	235	400	108
DOB1_ Exon2	557	627	285	635
DOB1_ Exon3	2186	1614	1085	221
BRCA1_ US1	1771	941	1047	544
BRCA1_ SNP7	2524	1261	90	43
BRCA1_ SNP6	731	537	245	339
BRCA1_ SNP1	10033	5787	2905	1813
BRCA1_ DS1	4	103	5	0
BRCA_ AMP6	81	69	37	24
BRCA_ AMP7	731	391	40	472

On-Target Fraction:

81

76

82

70

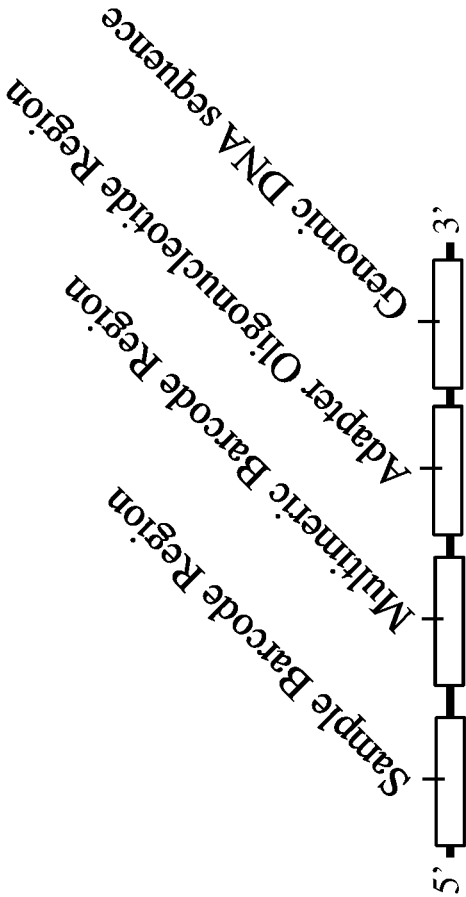
%

%

%

%

FIGURE 20



Schematic of Sequence Read from Barcoding
of genomic DNA loci
(In 5' to 3' Direction)

FIGURE 21

