

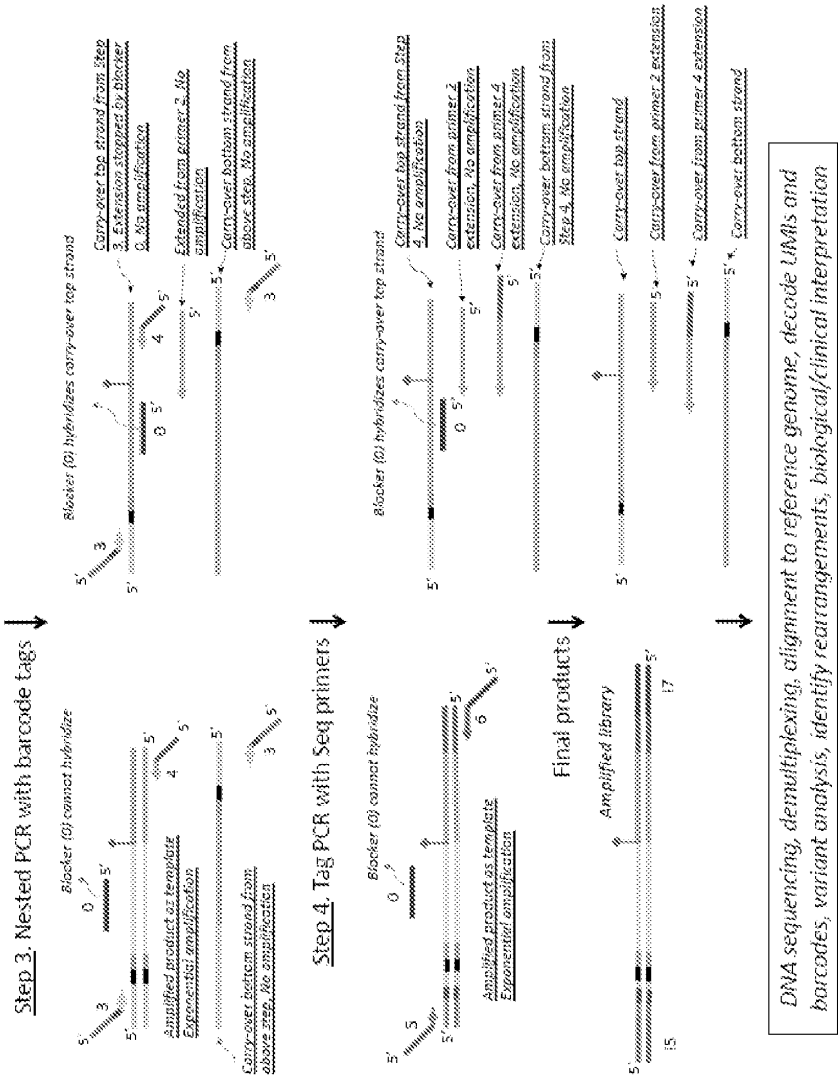


FIG. 1 cont'd

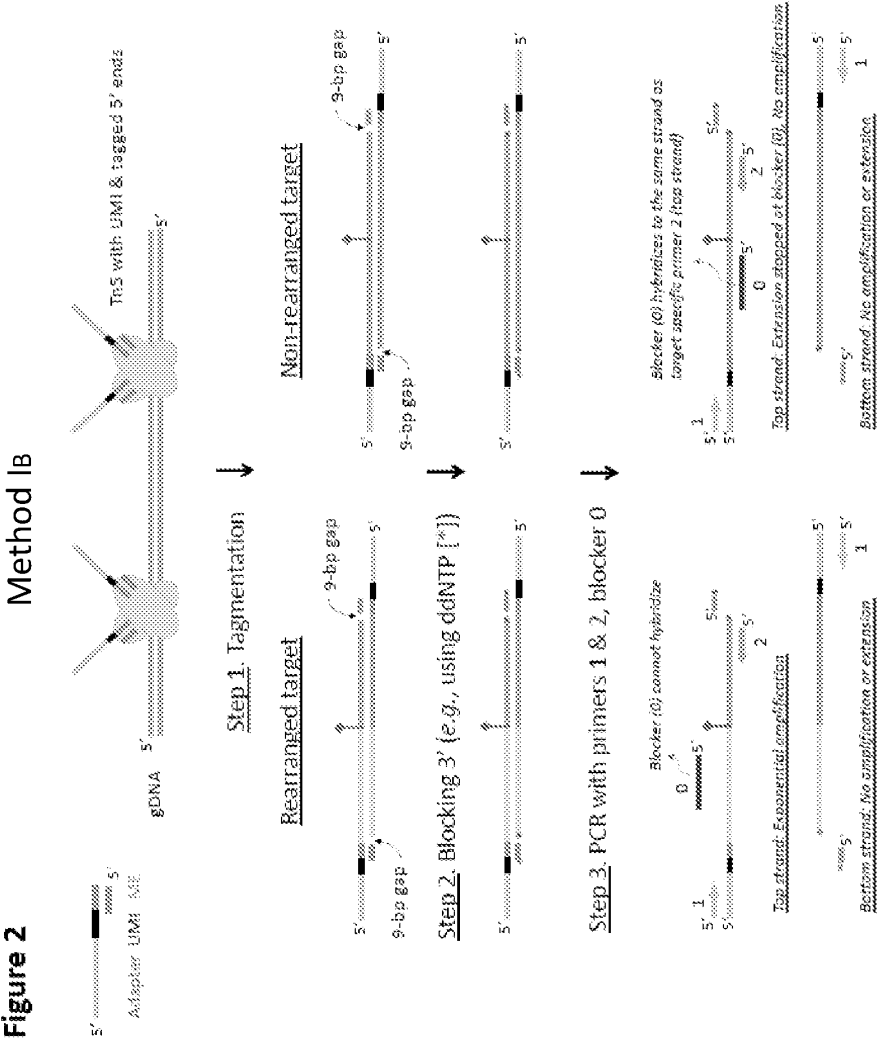


FIG. 2

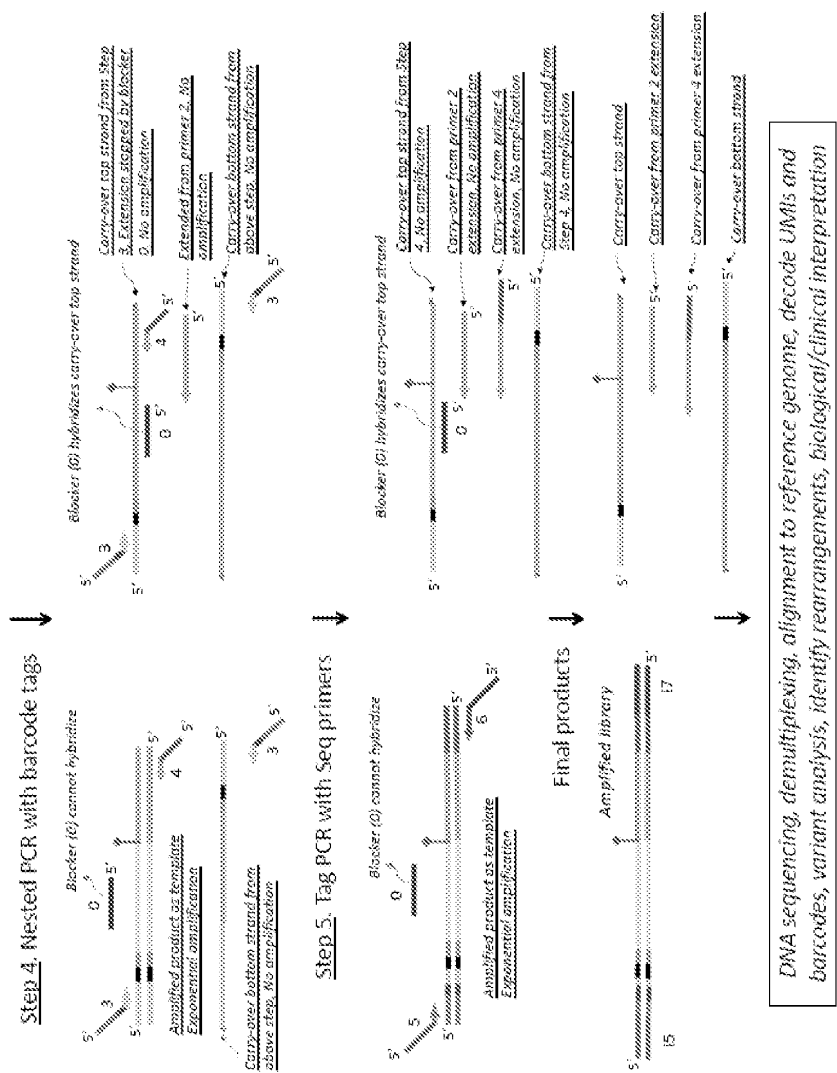


FIG. 2 cont'd

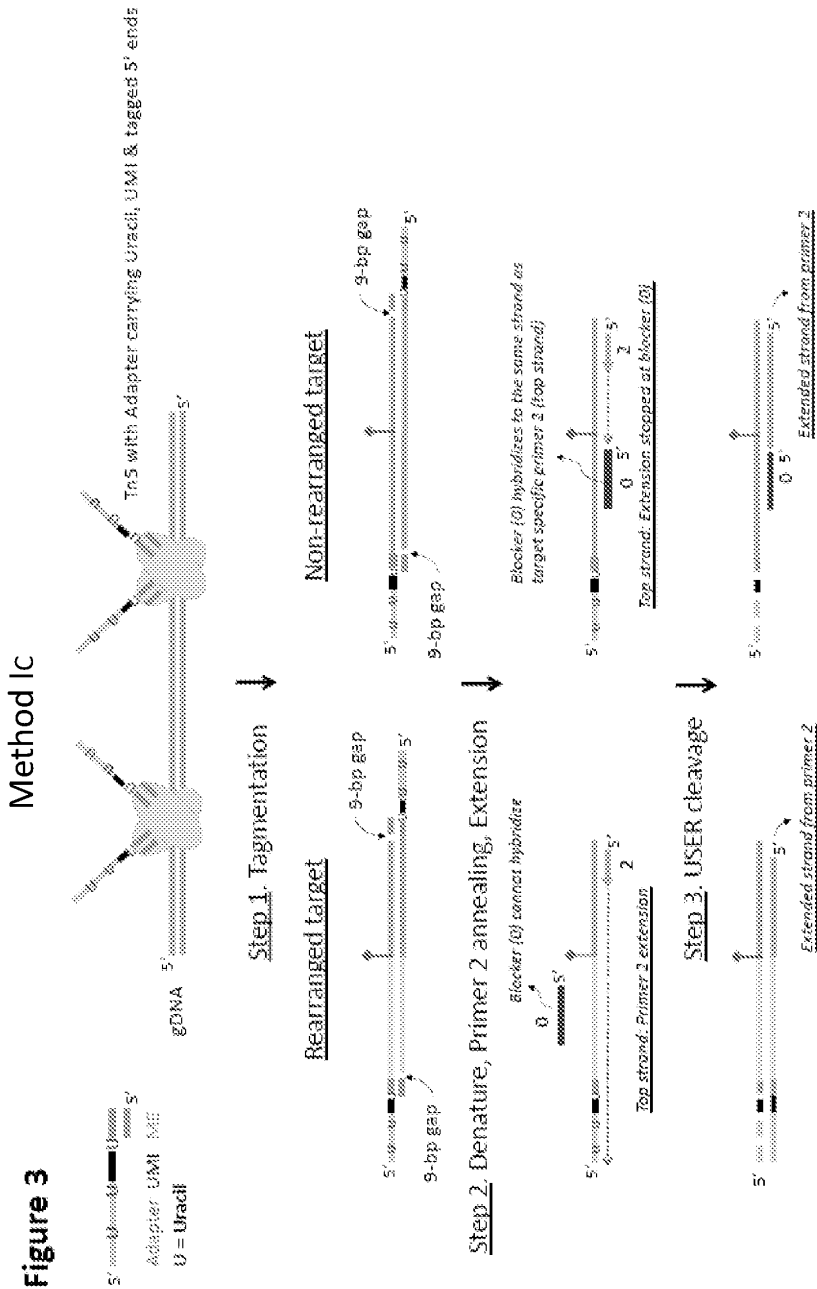
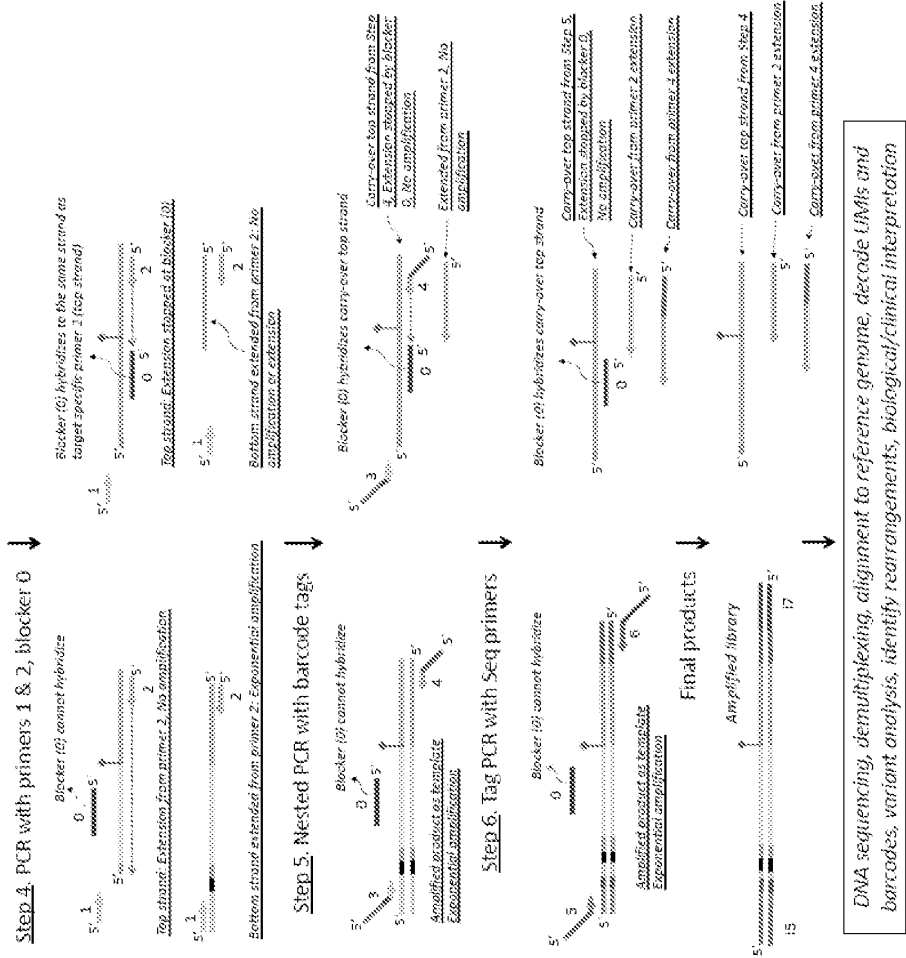


FIG. 3



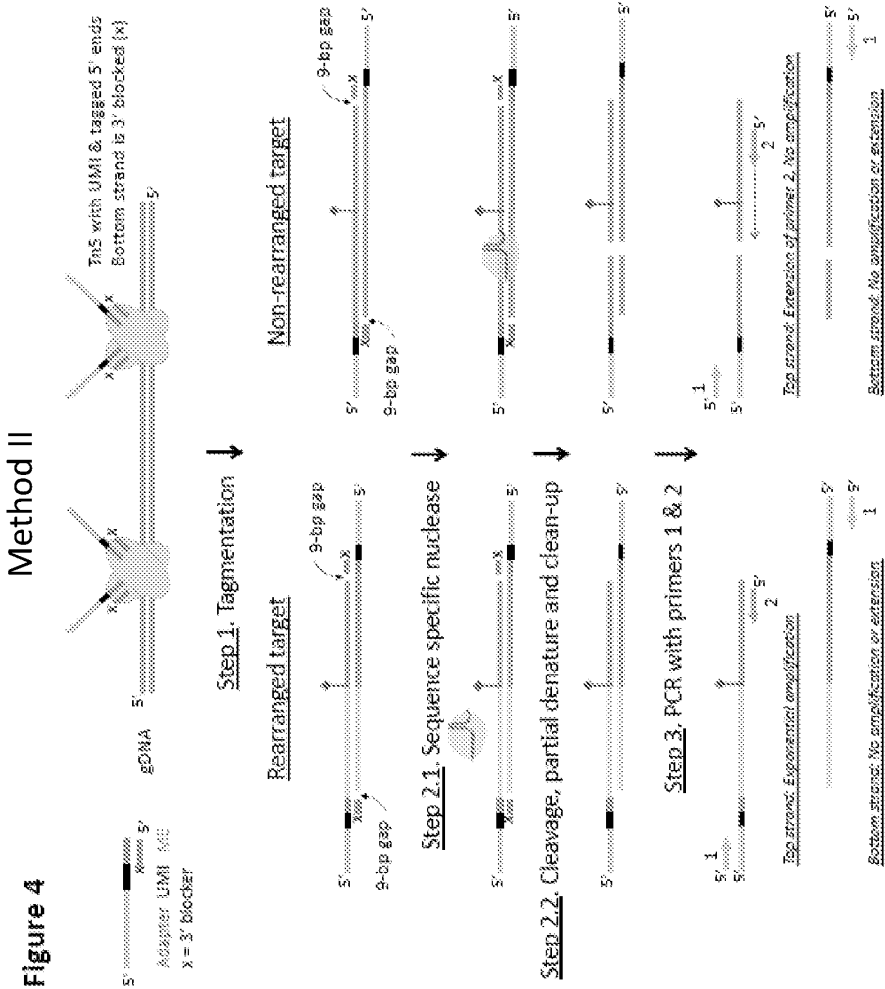


FIG. 4

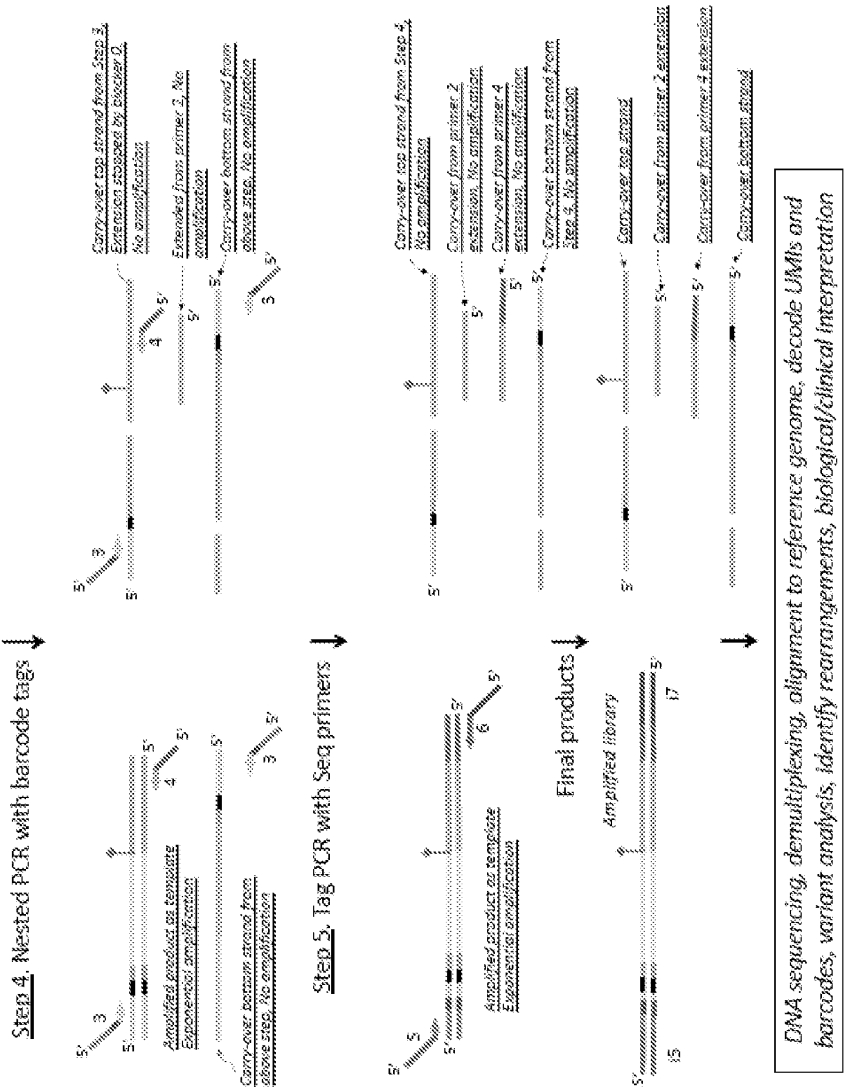


FIG. 4 cont'd

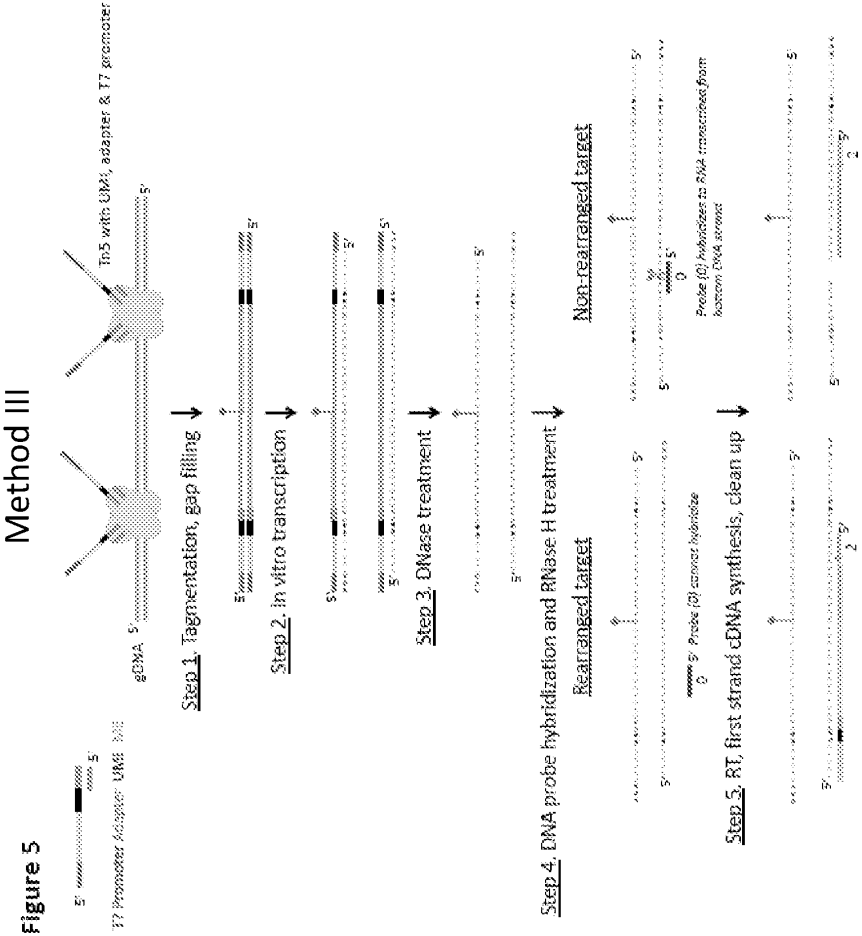


FIG. 5

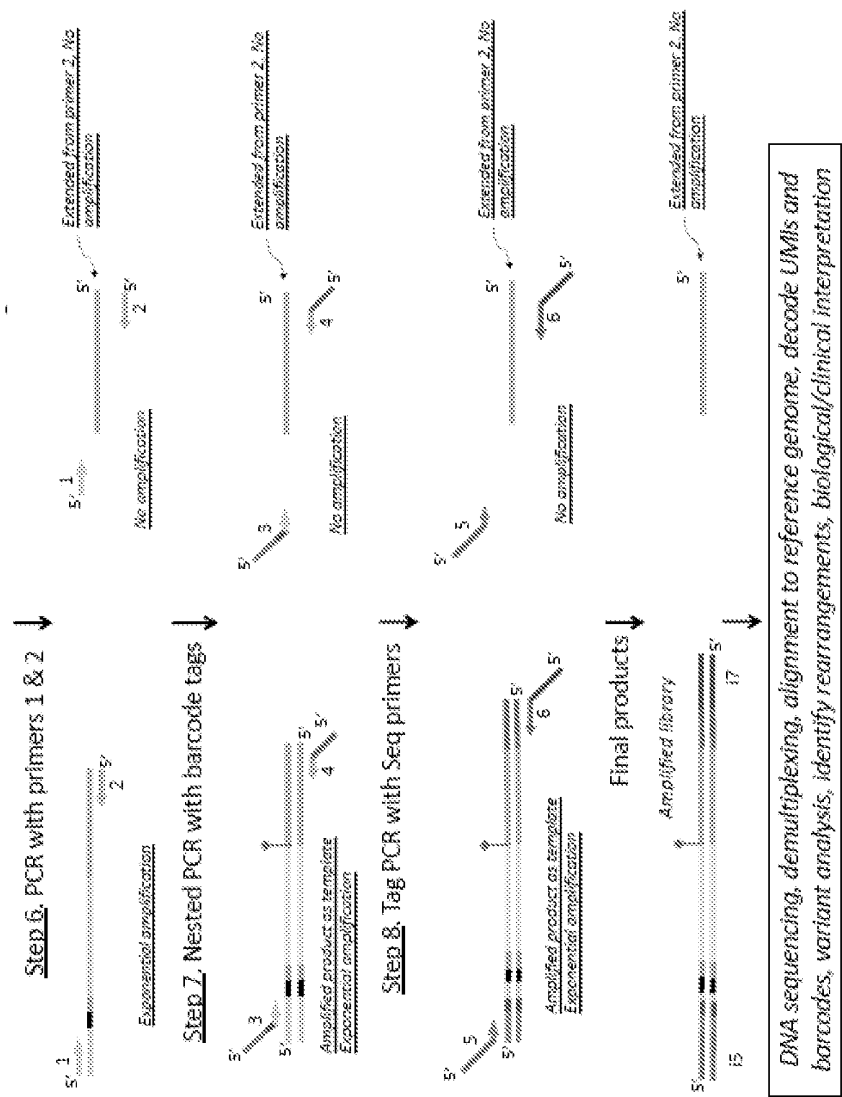
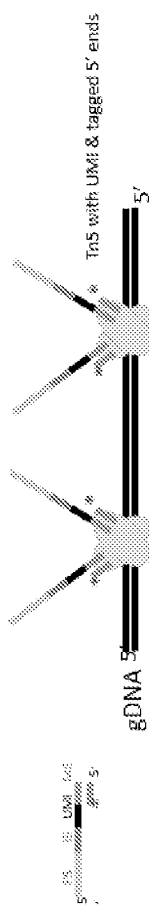
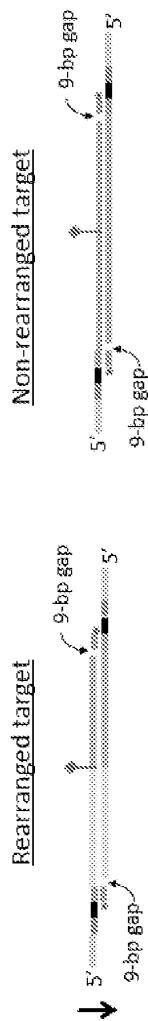


FIG. 5 cont'd

Method 1A



Step 1. Tagmentation



Step 2. PCR with primers 1 & 2, blocker 0

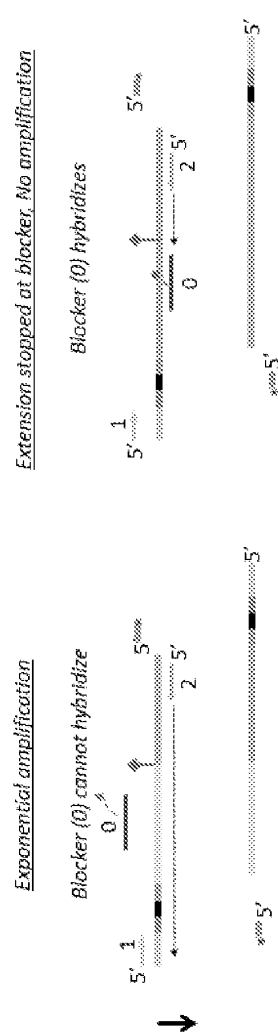
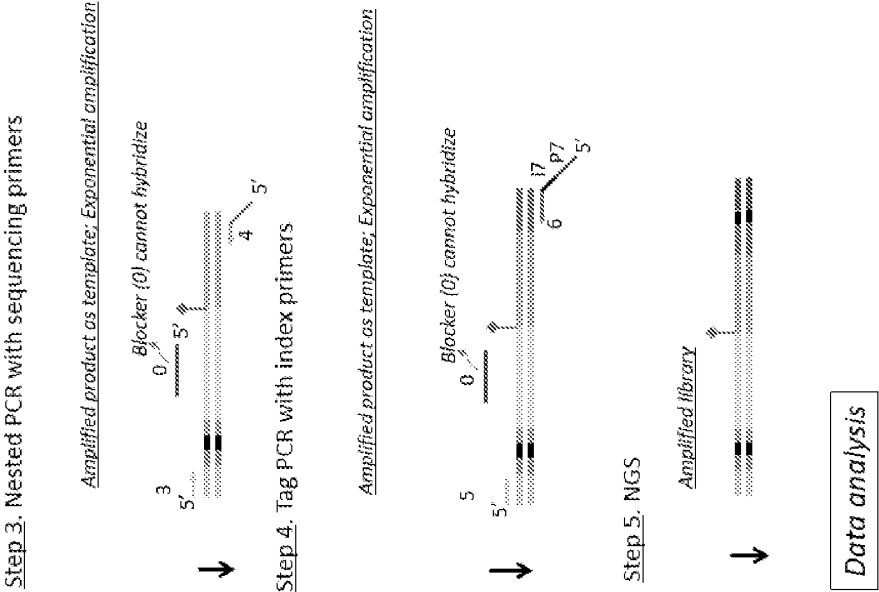


FIG. 6



Leaked amplicon can be sequenced

FIG. 6 cont'd

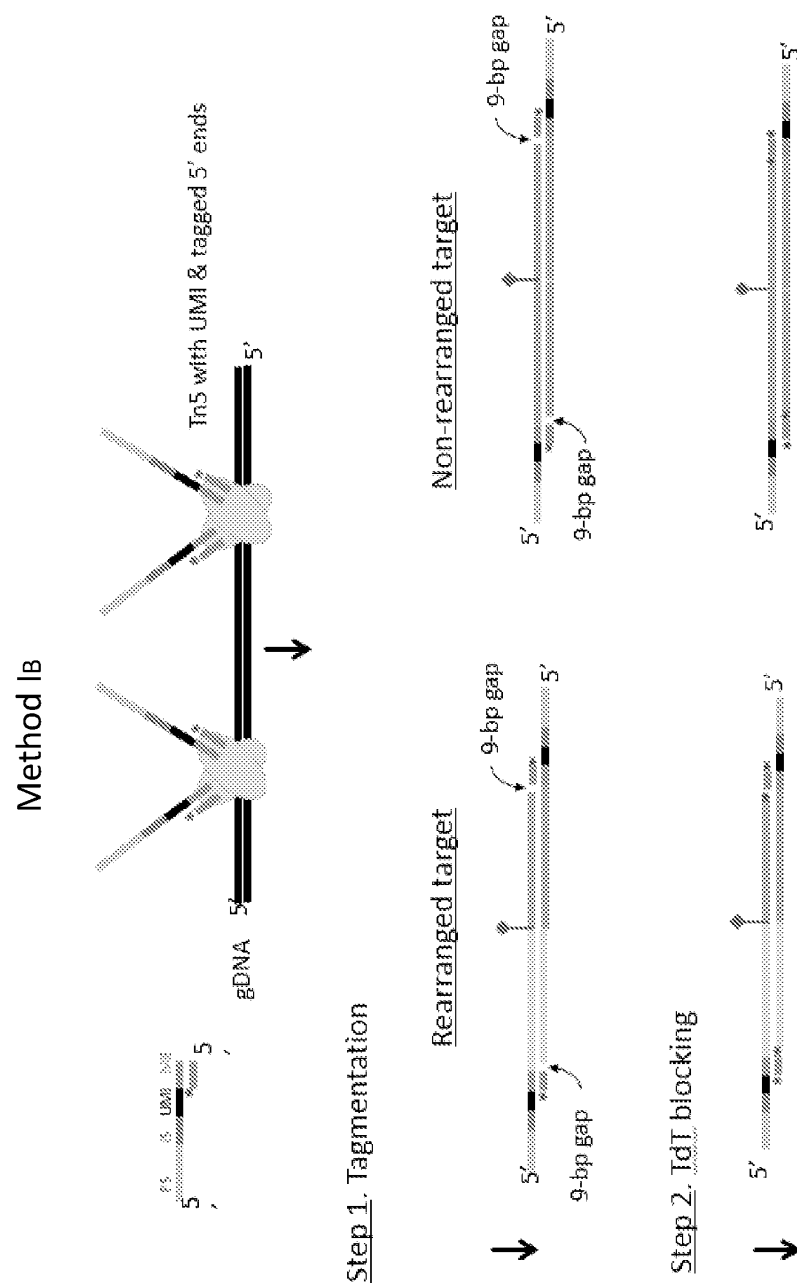
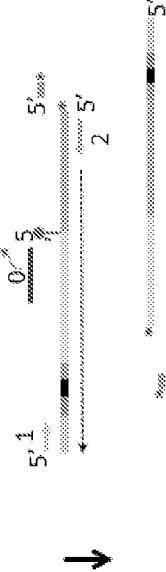


FIG. 7

Step 3. PCR with primers, blocker

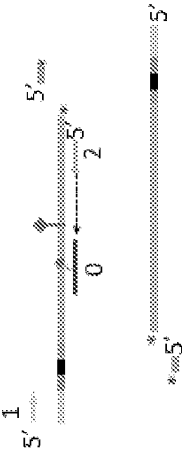
Exponential amplification

Blocker (0) cannot hybridize



Extension stopped at blocker, No amplification

Blocker (0) hybridizes



Step 4. Nested PCR with sequencing primers

Amplified product as template; Exponential amplification

Blocker (0) cannot hybridize

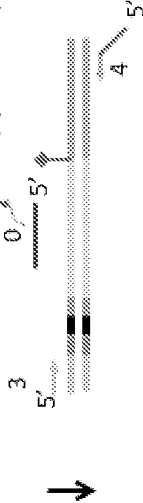
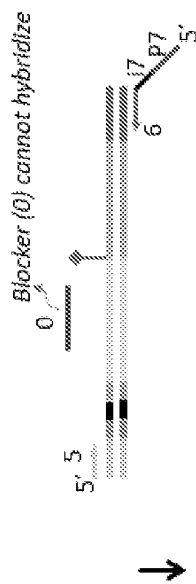


FIG. 7 cont'd

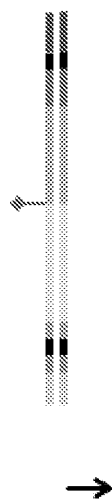
Step 5. Tag PCR with index primers

Amplified product as template; Exponential amplification



Step 6. NGS

Amplified library



Data analysis

Leaked amplicon can be sequenced

FIG. 7 cont'd

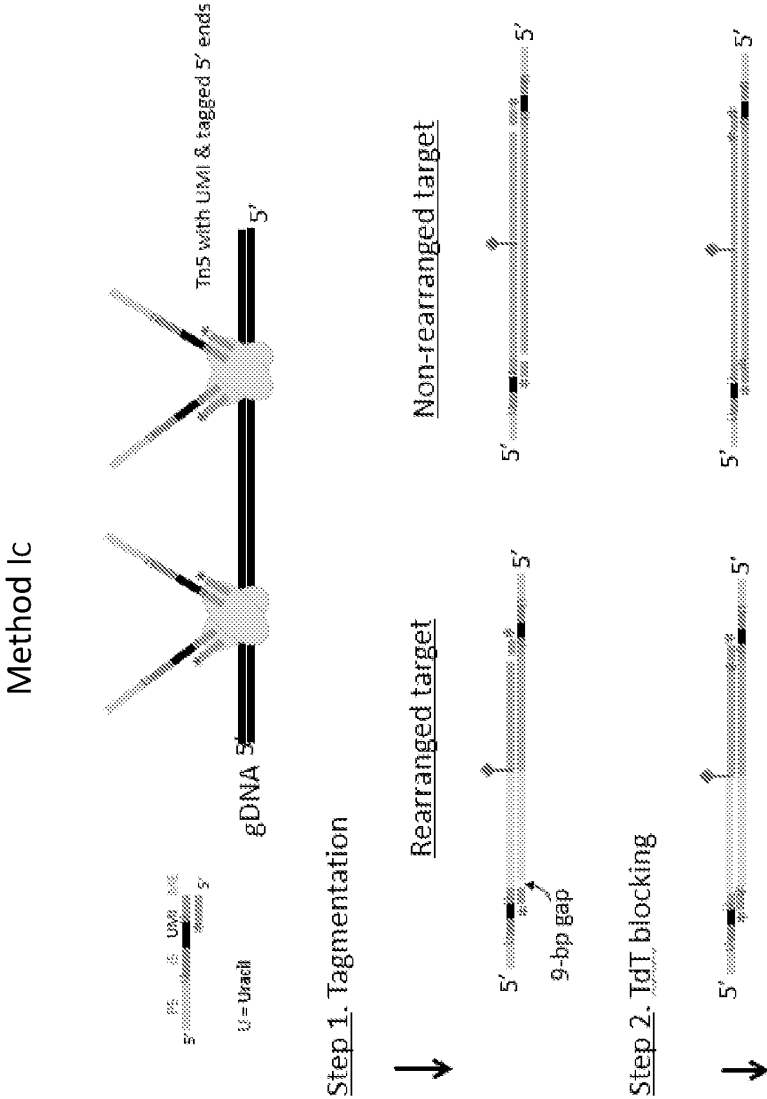


FIG. 8

Step 3. Denature, Primer 2 annealing, Extension

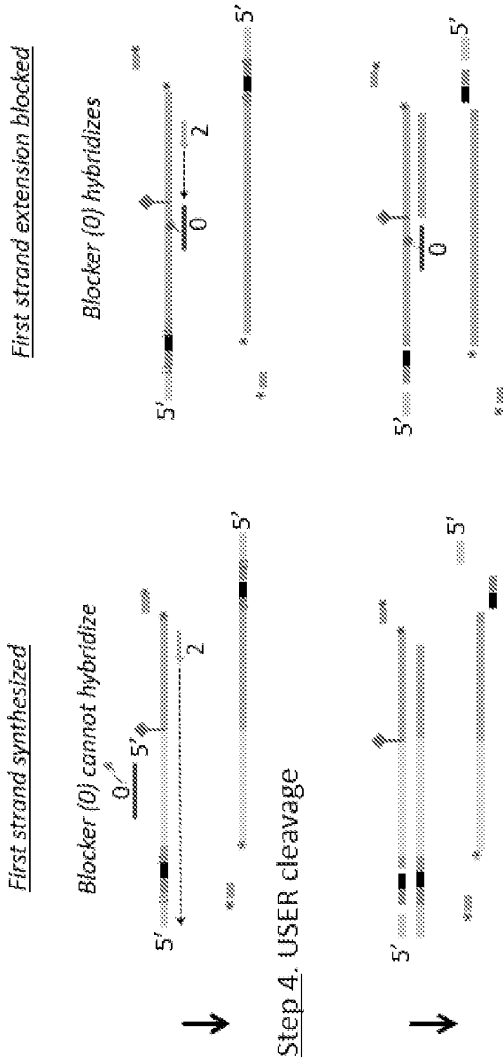


FIG. 8 cont'd

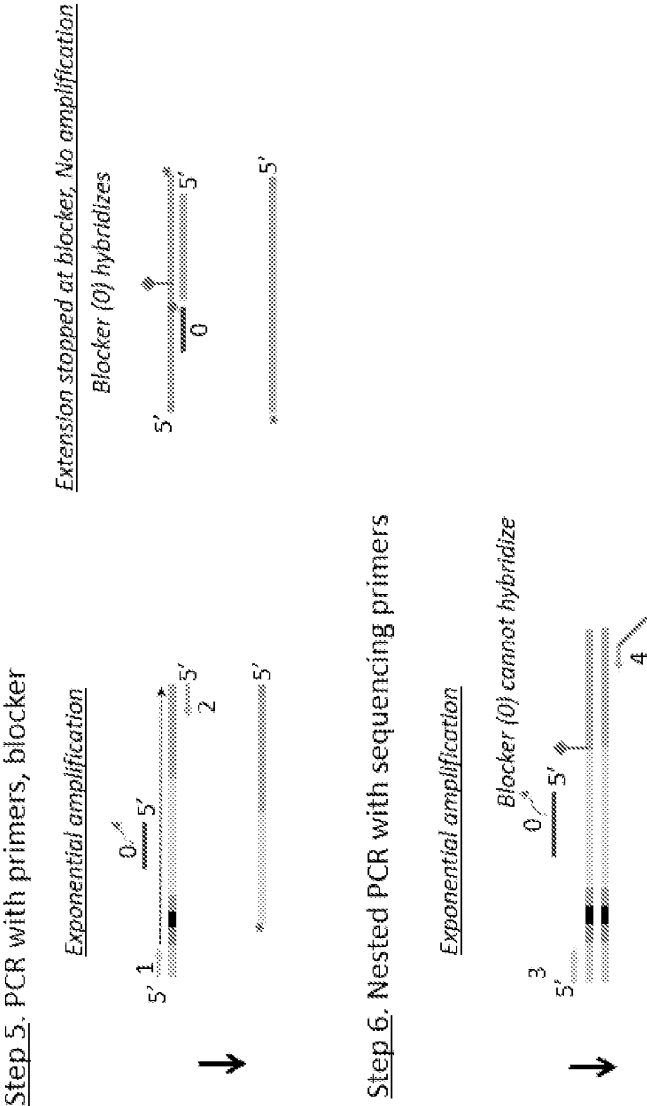


FIG. 8 cont'd

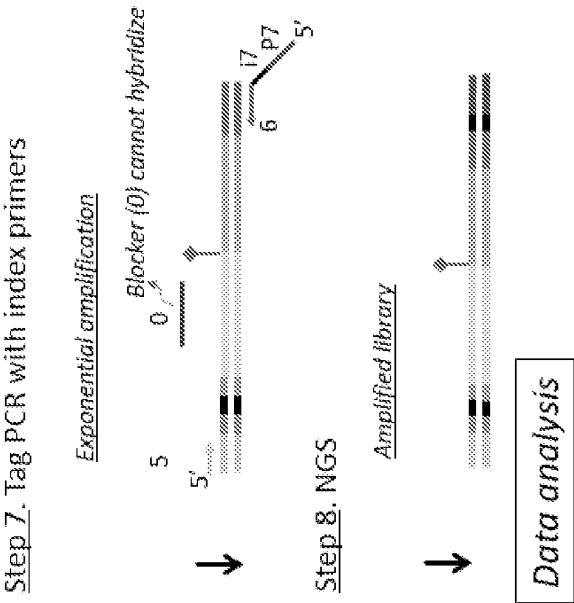


FIG. 8 cont'd

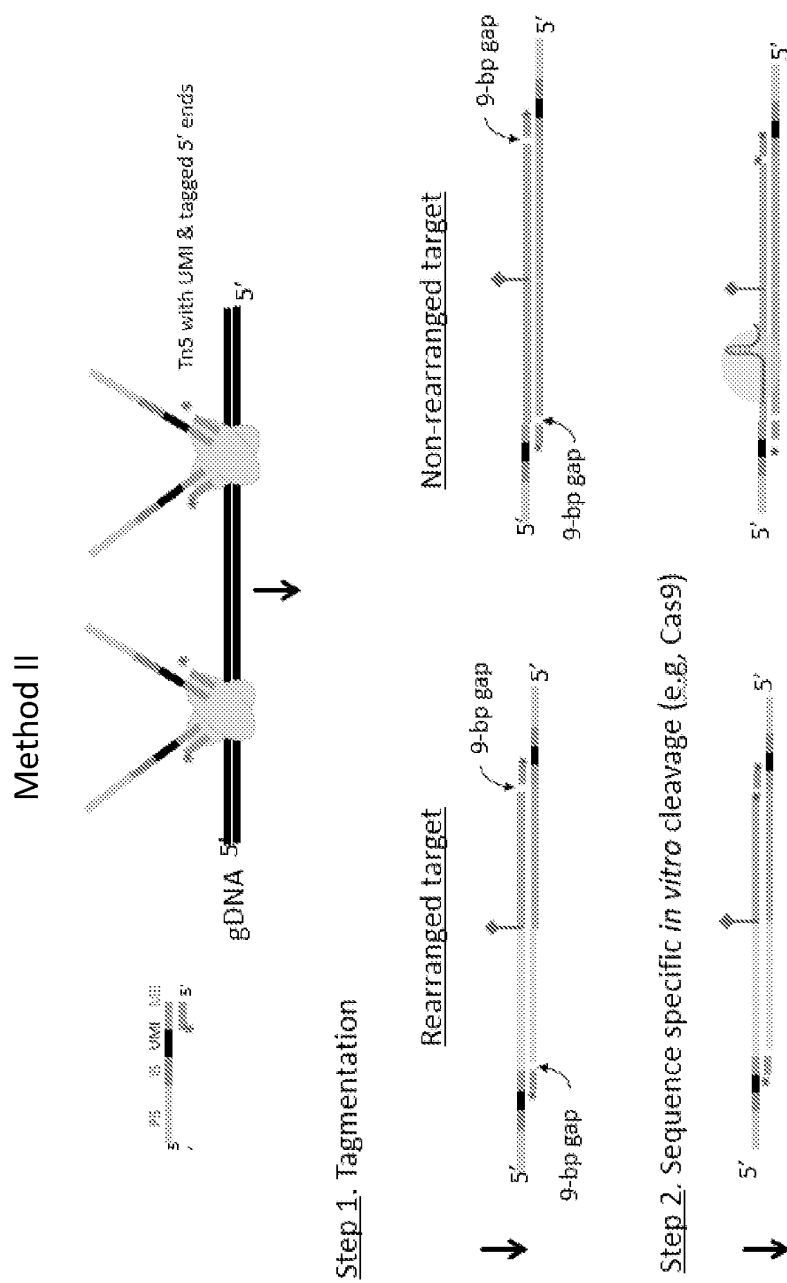


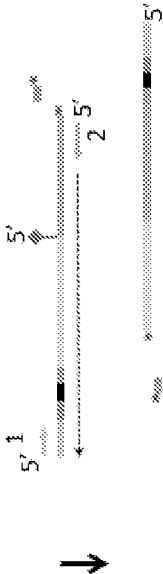
FIG. 9

Step 3. TdT blocking



Step 4. PCR with primers

Exponential amplification



Step 5. Nested PCR with sequencing primers

Amplified product as template; Exponential amplification

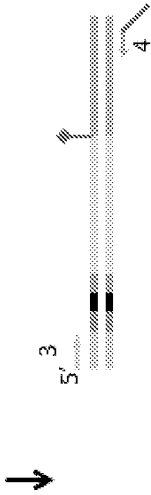
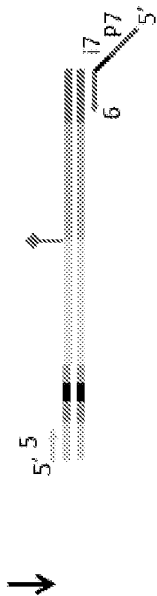


FIG. 9 cont'd

Step 6. Tag PCR with index primers

Amplified product as template; Exponential amplification



Step 7. NGS

Amplified library



Data analysis

FIG. 9 cont'd

FIG. 10A

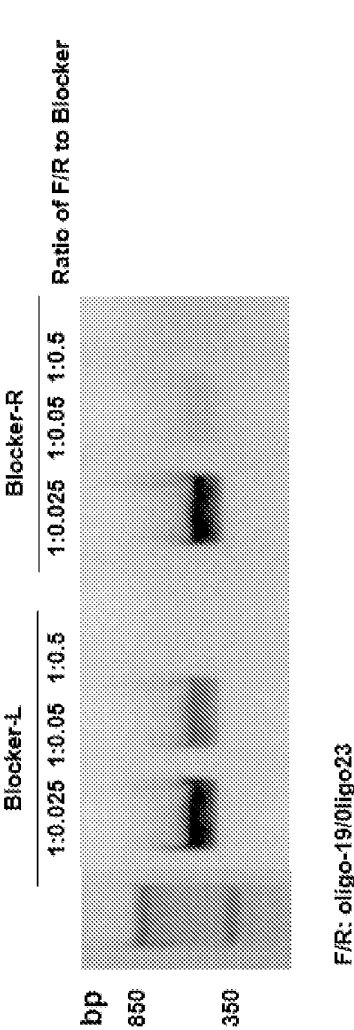


FIG. 10B

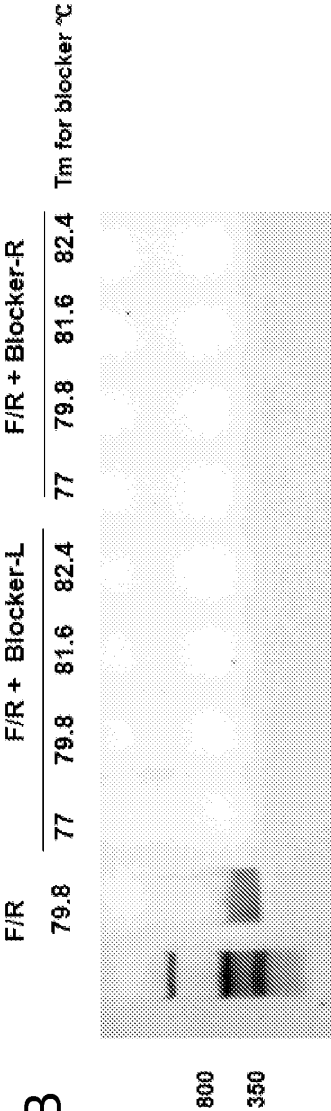


FIG. 11A

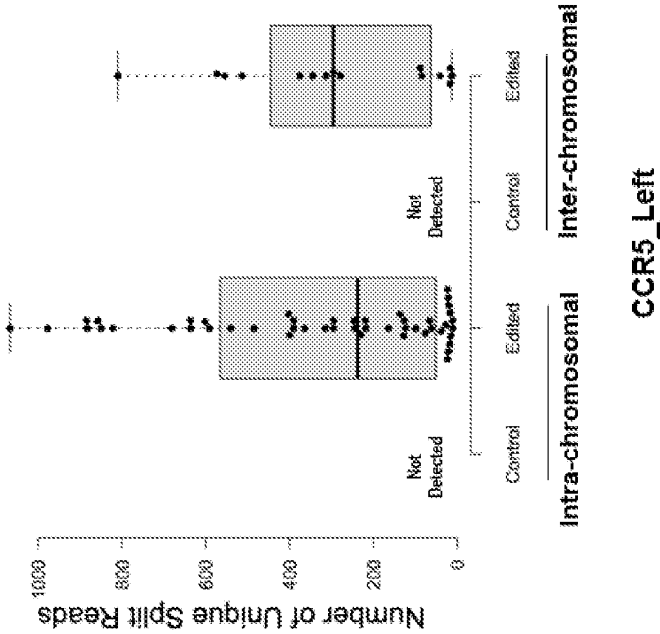


FIG. 11B

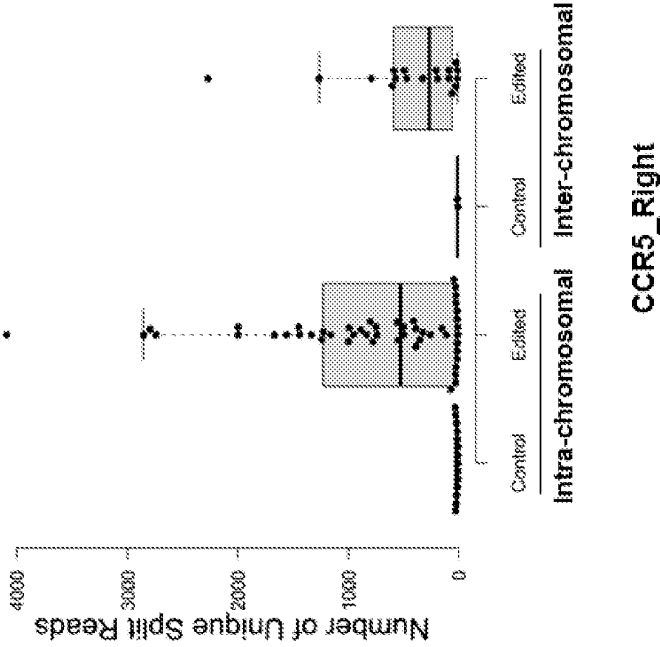


FIG. 12A

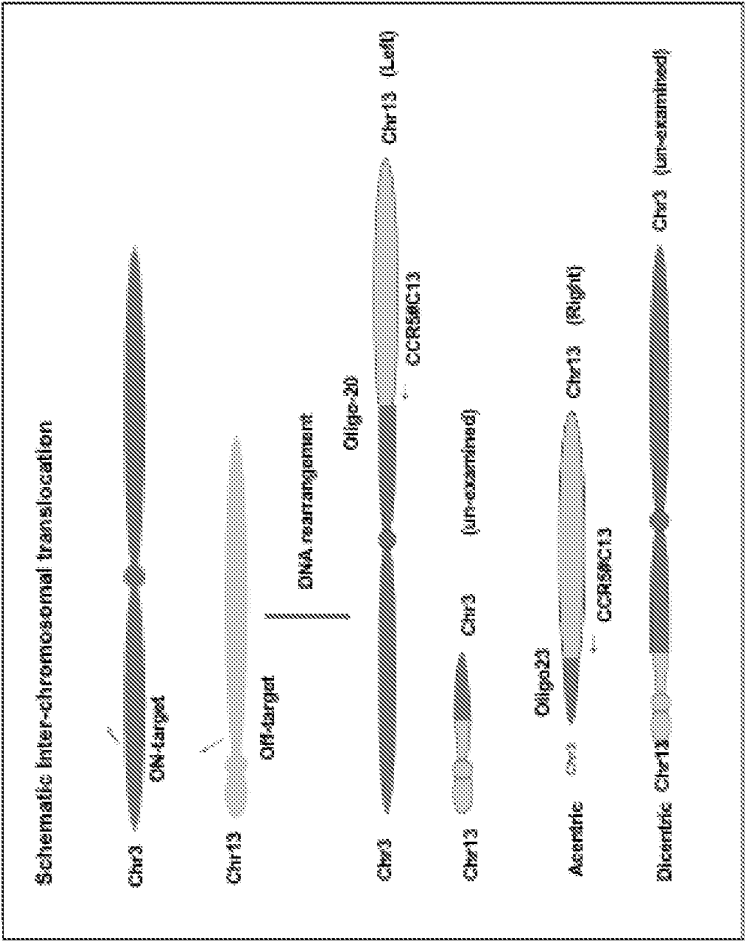


FIG. 12B

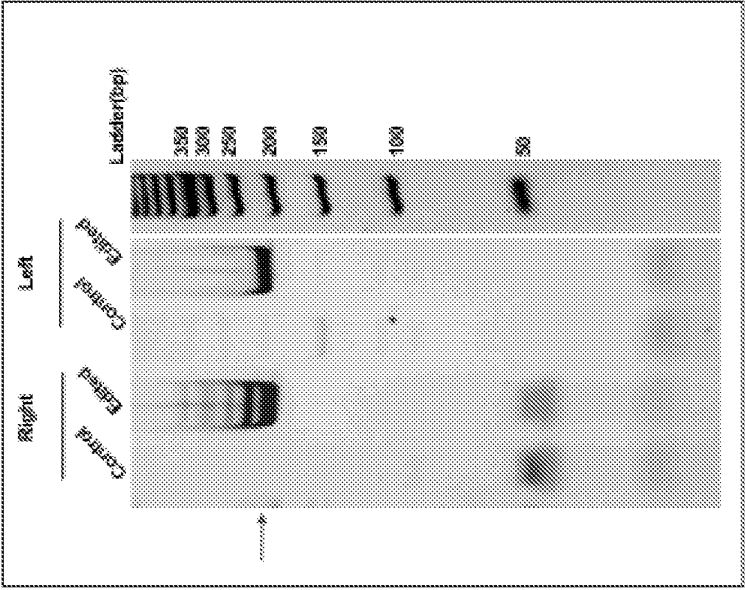


FIG. 13B

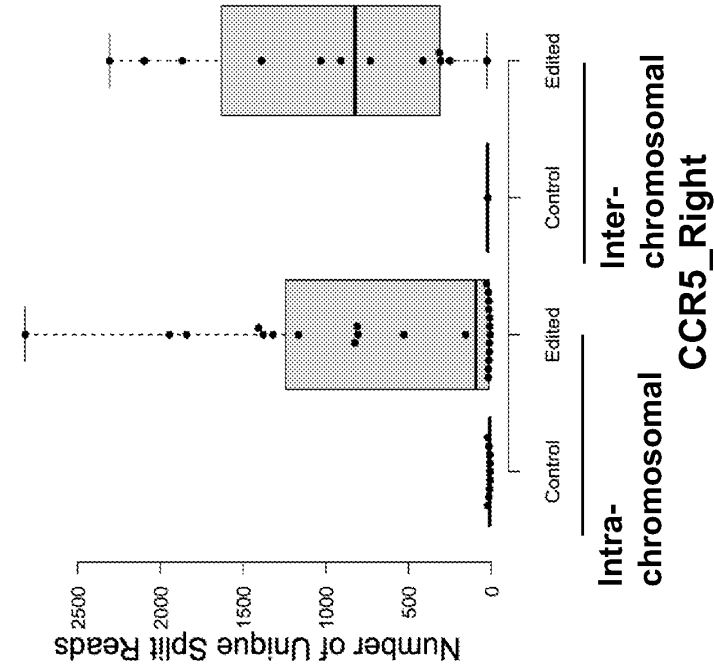
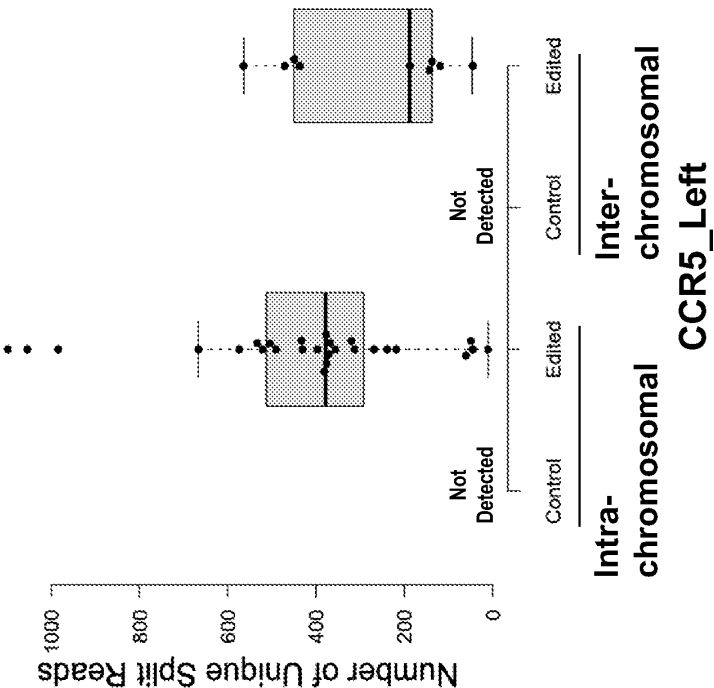


FIG. 13A



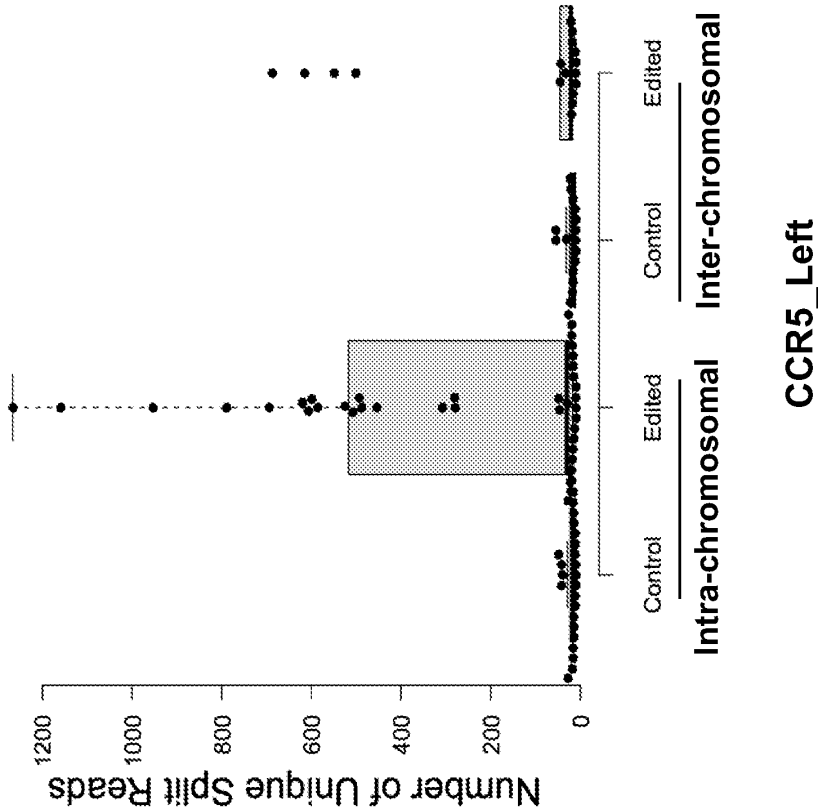


FIG. 14

FIG. 15A

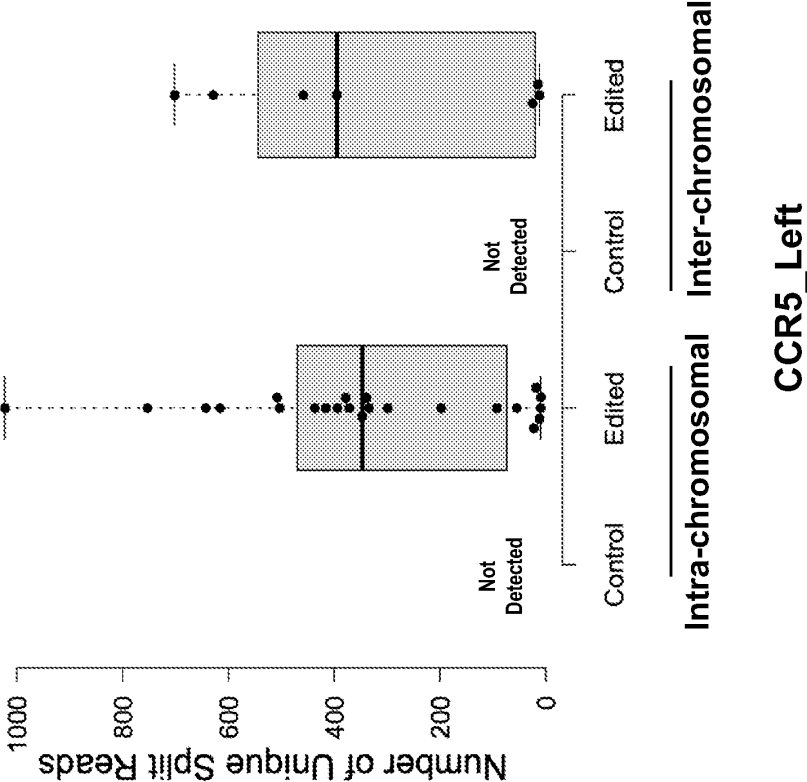


FIG. 15B

