

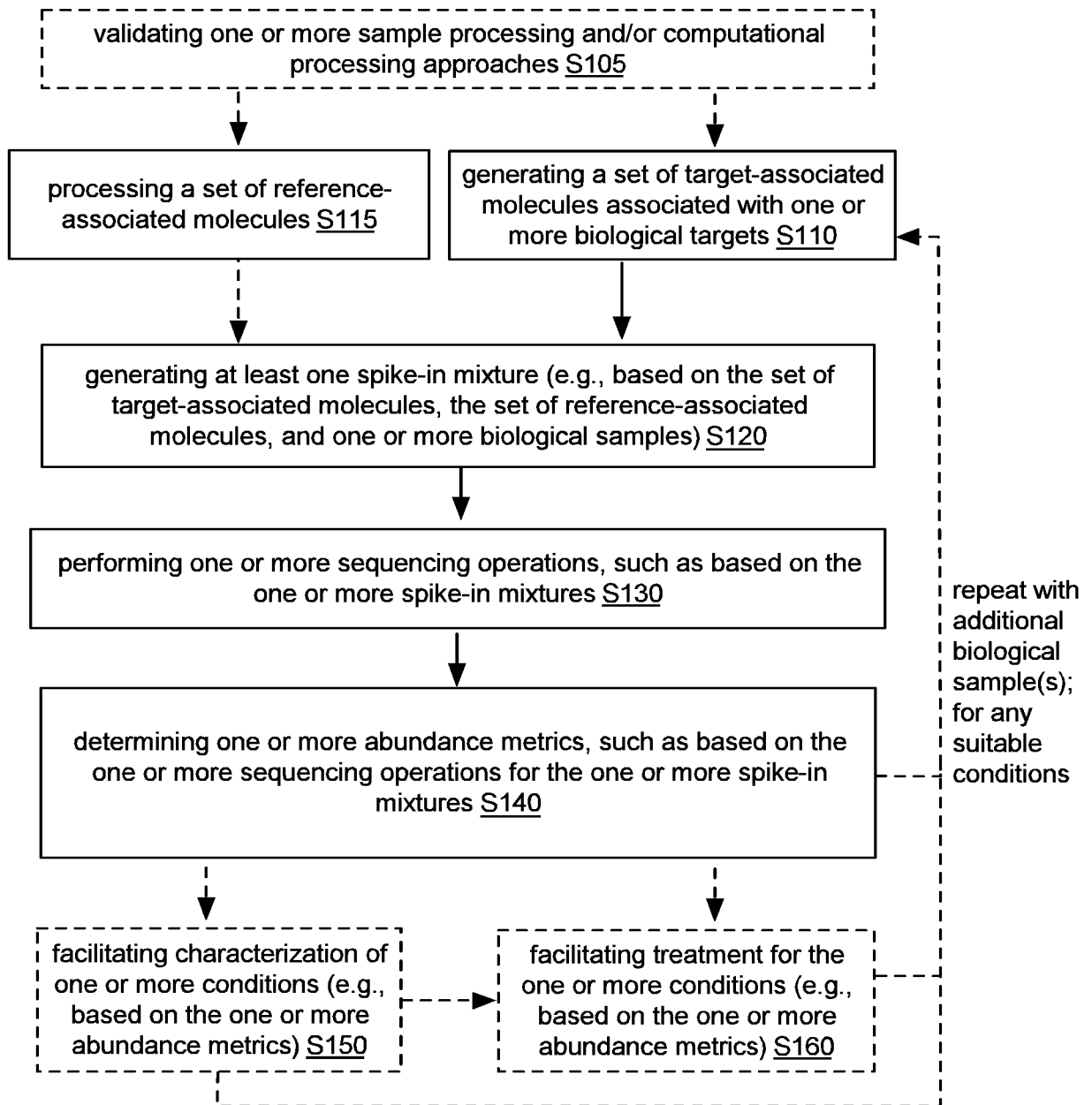


FIGURE 1A

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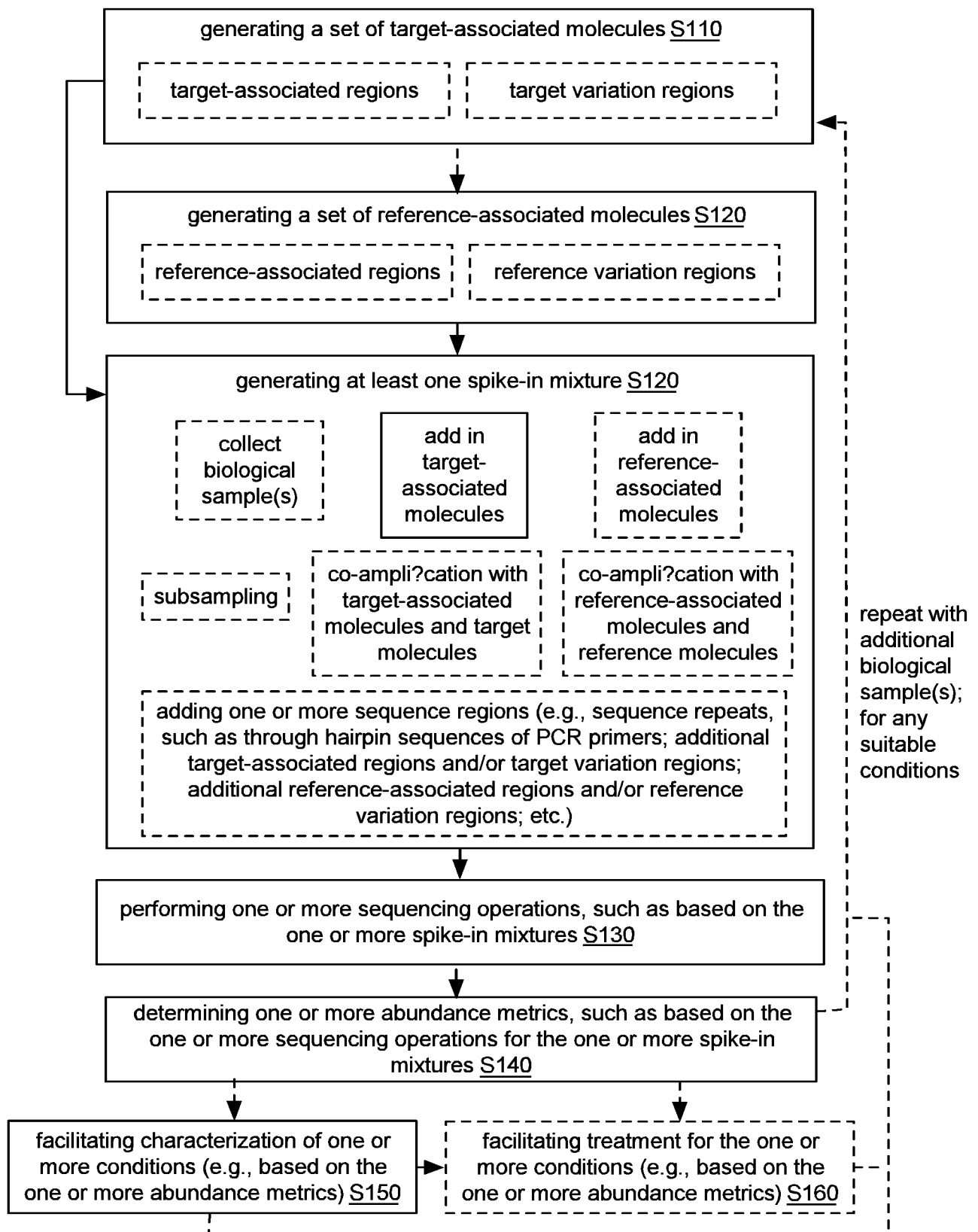


FIGURE 1B

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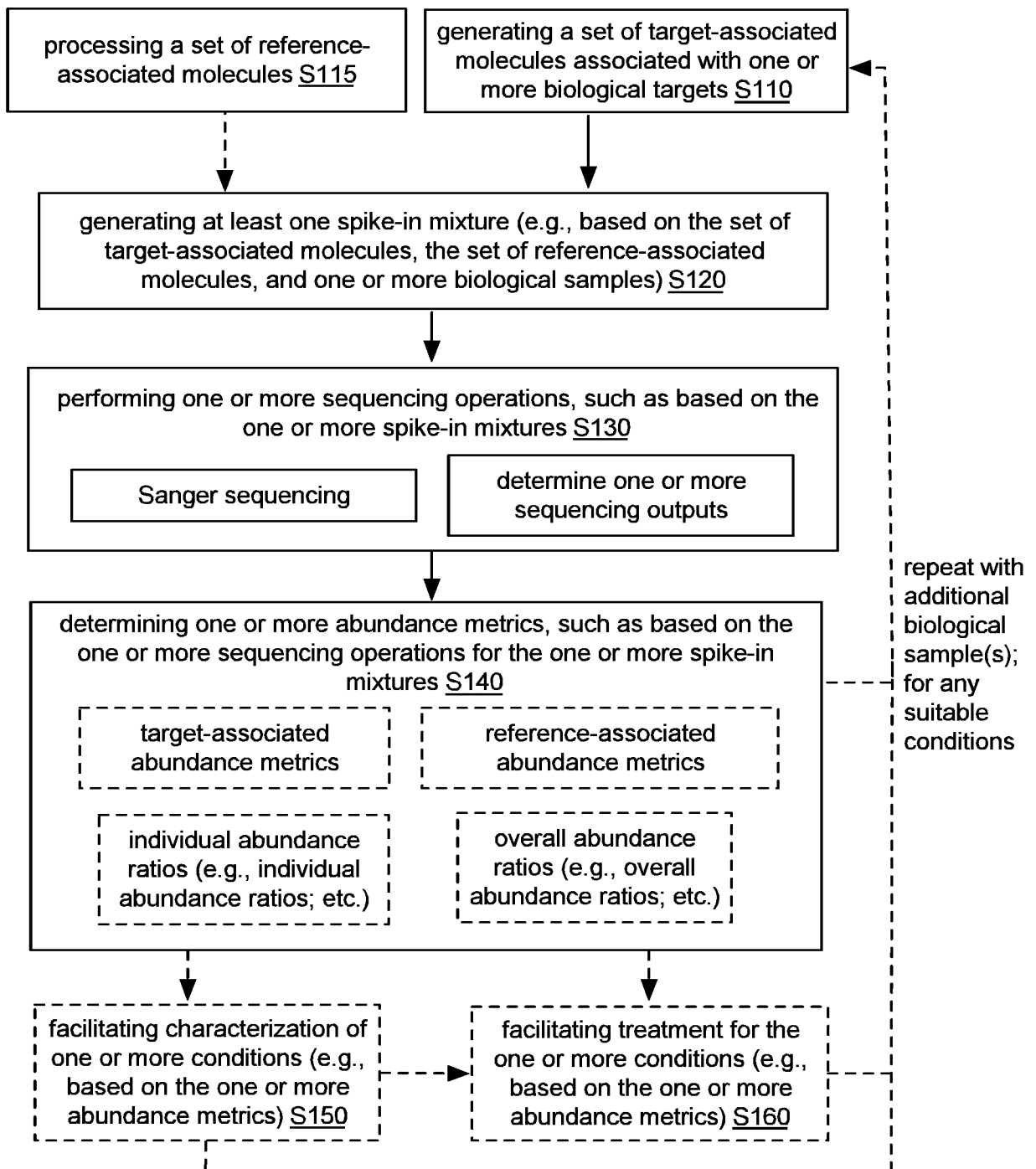


FIGURE 1C

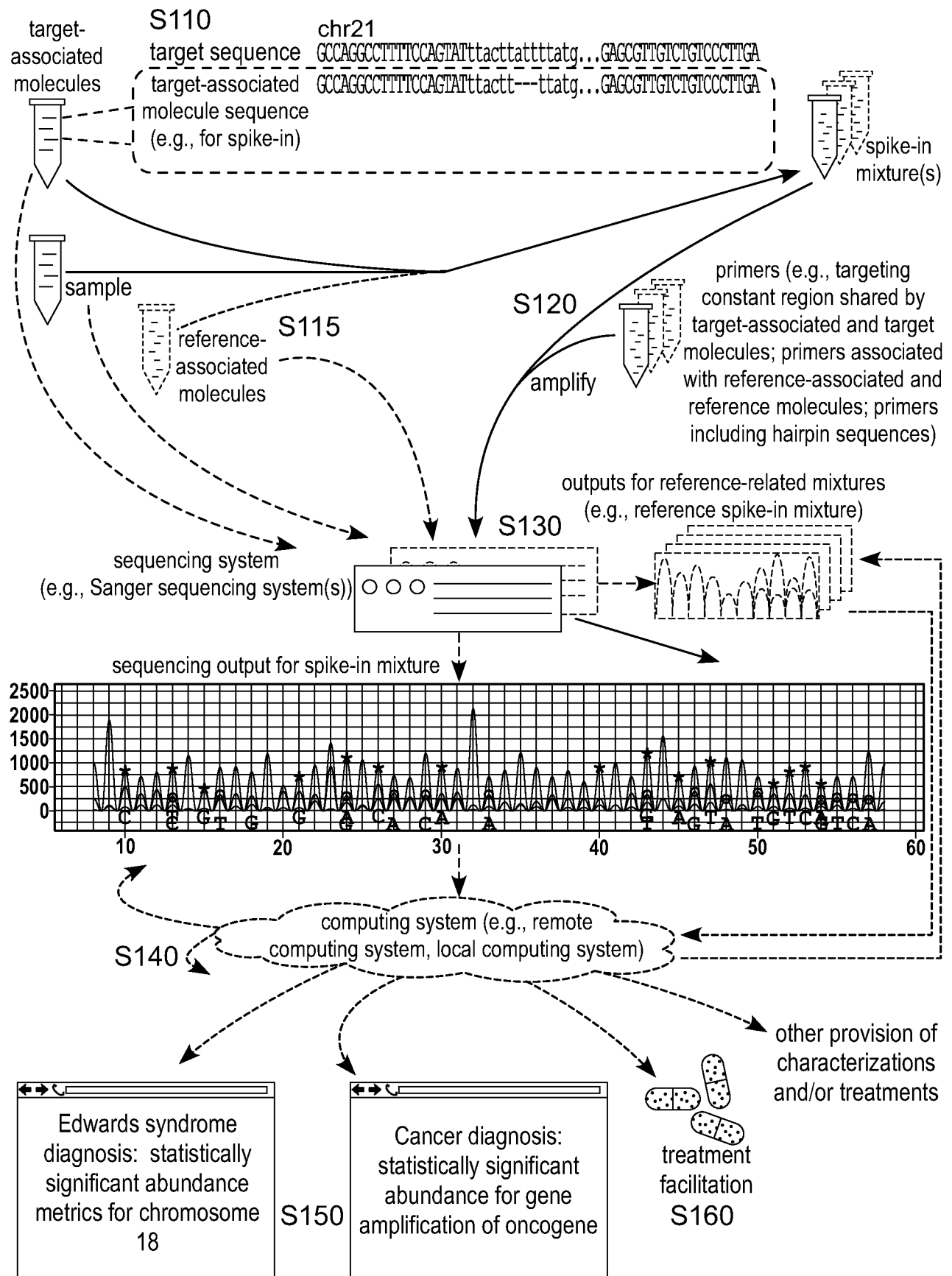
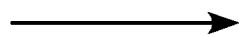


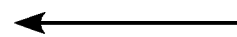
FIGURE 2

hp19 GGCAGGCCCTTTTCCAGTATttactttatgttgaaaaaccaaactttatcactagacacaaaatttaagtGAGCGTTGCTGTCCCTGA
 spk GGCAGGCCCTTTTCCAGTATttactt---ttatggaaaaaccaaactttatcactagacacaaaatttaagtGAGCGTTGCTGTCCCTGA

First PCR:

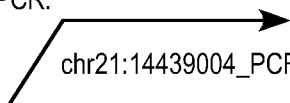


chr21:14439004_PCR1_FP

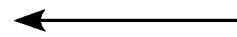


chr21:14439076_PCR1_RP

Second PCR:



chr21:14439004_PCR2_FP

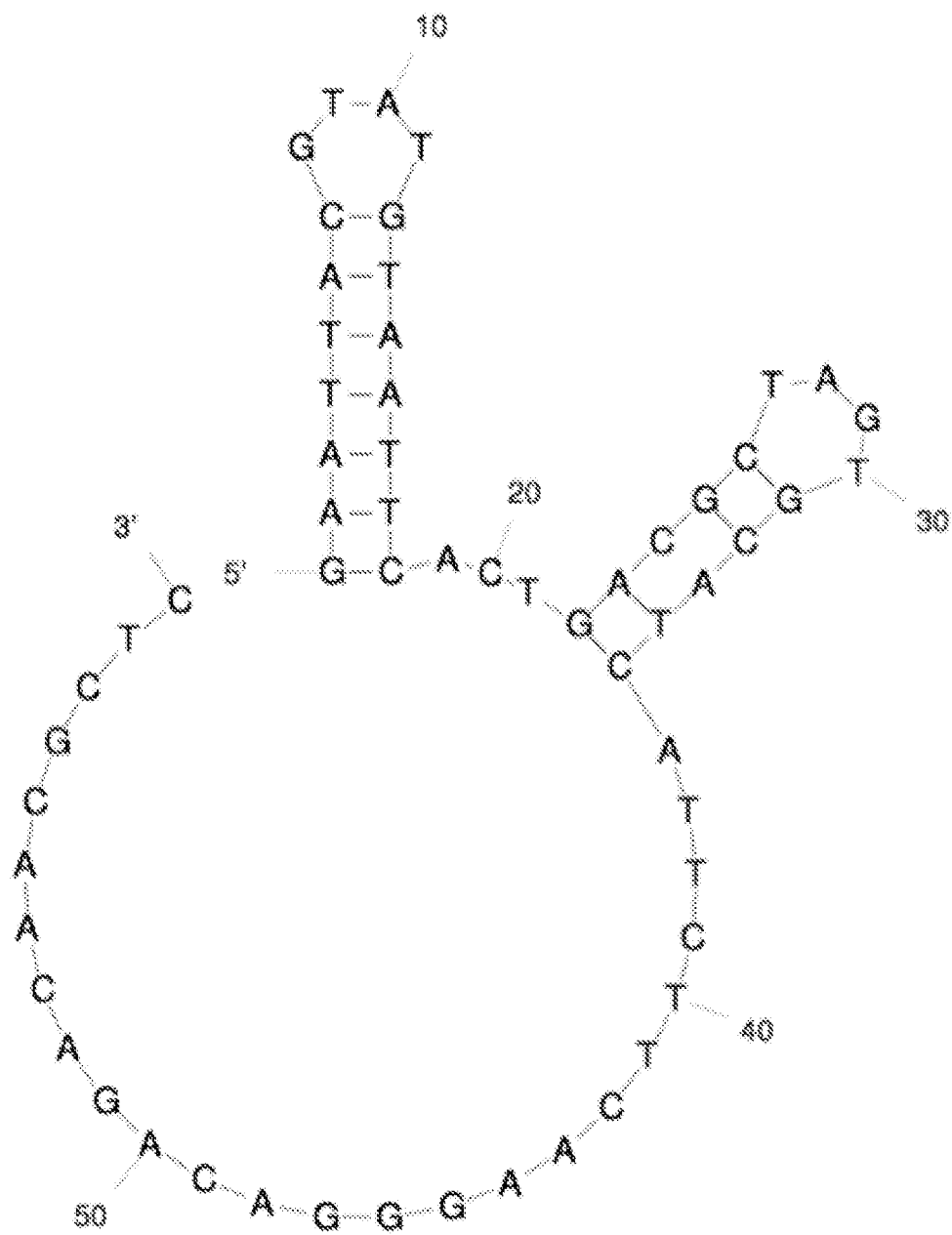


chr21:14439076_PCR2_RP_hp

DNA Oligonucleotide Name	Sequence
chr21:14439004_PCR2_FP	5'-CGA CGC TCT TCC GAT CTAAAG GGC CAG GCC TTT TCC AGT AT-3'
chr21:114439076_PCR2_RP_hp	5'-GAA TTA CGT ATG TAA TTC ACT GAC GCT AGT GCA TCA TTC TTC AAG GGA CAG ACA ACG CTC-3'
chr21:14439004_PCR1_FP	5'-GGC CAG GCC TTT TCC AGT AT-3'
chr21:14439076_PCR1_RP	5'-TCA AGG GAC AGA CAA CGC TC-3'

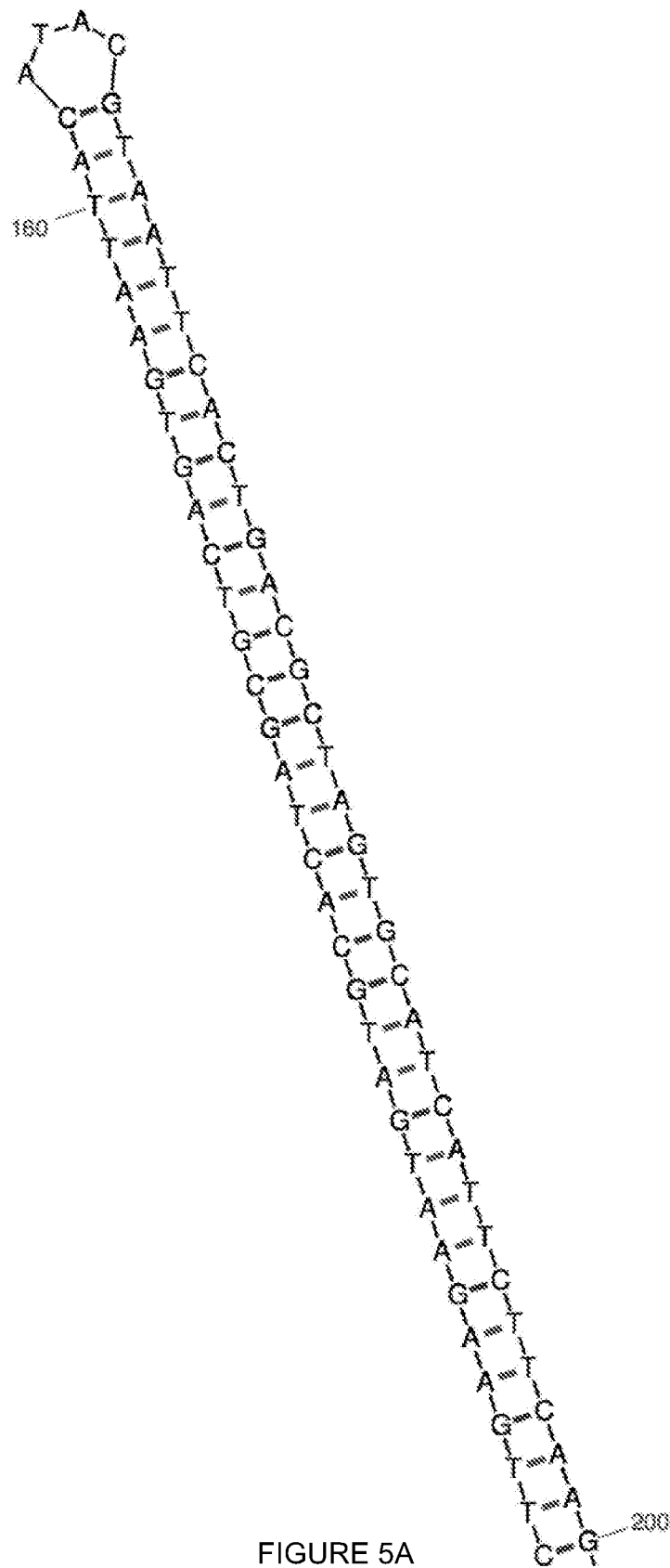
Design of PCR primers (capitalized) and spike-in for chr21:15811326-15811417.

FIGURE 3



chr21:14439076_PCR2_RP_hp

FIGURE 4



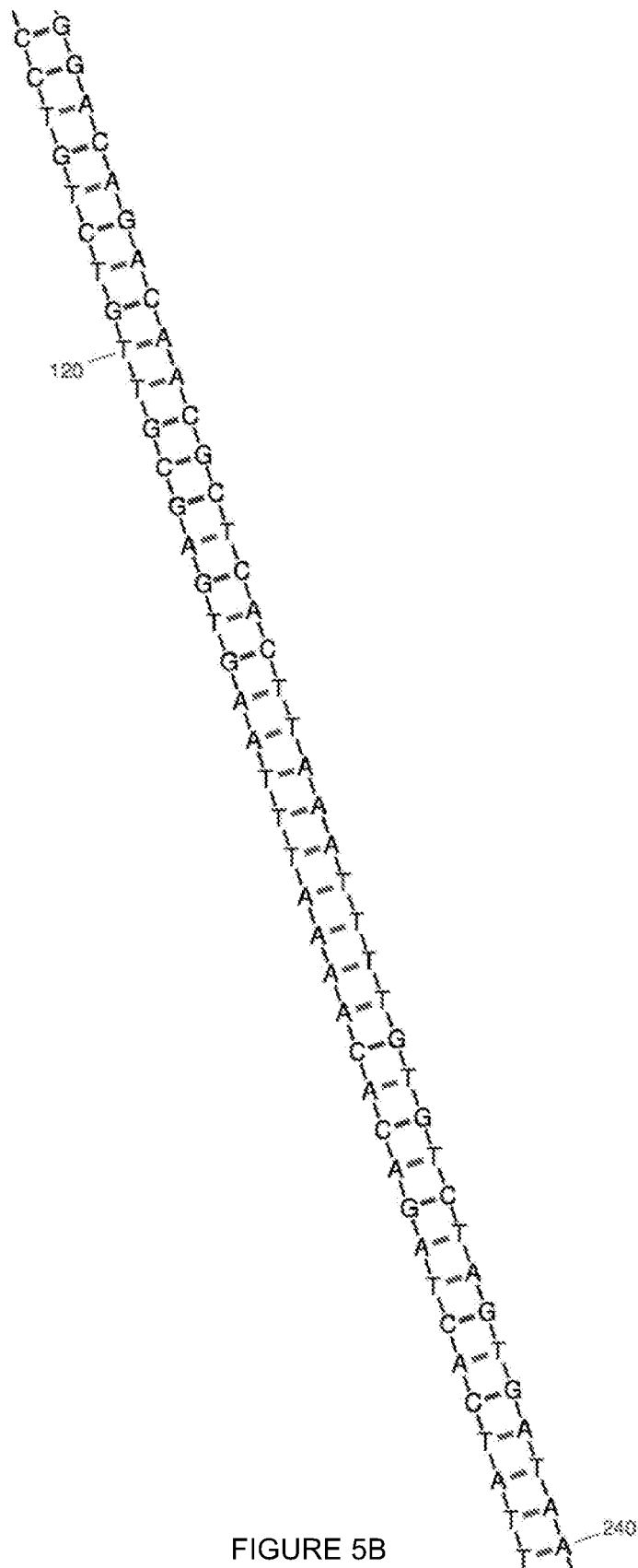
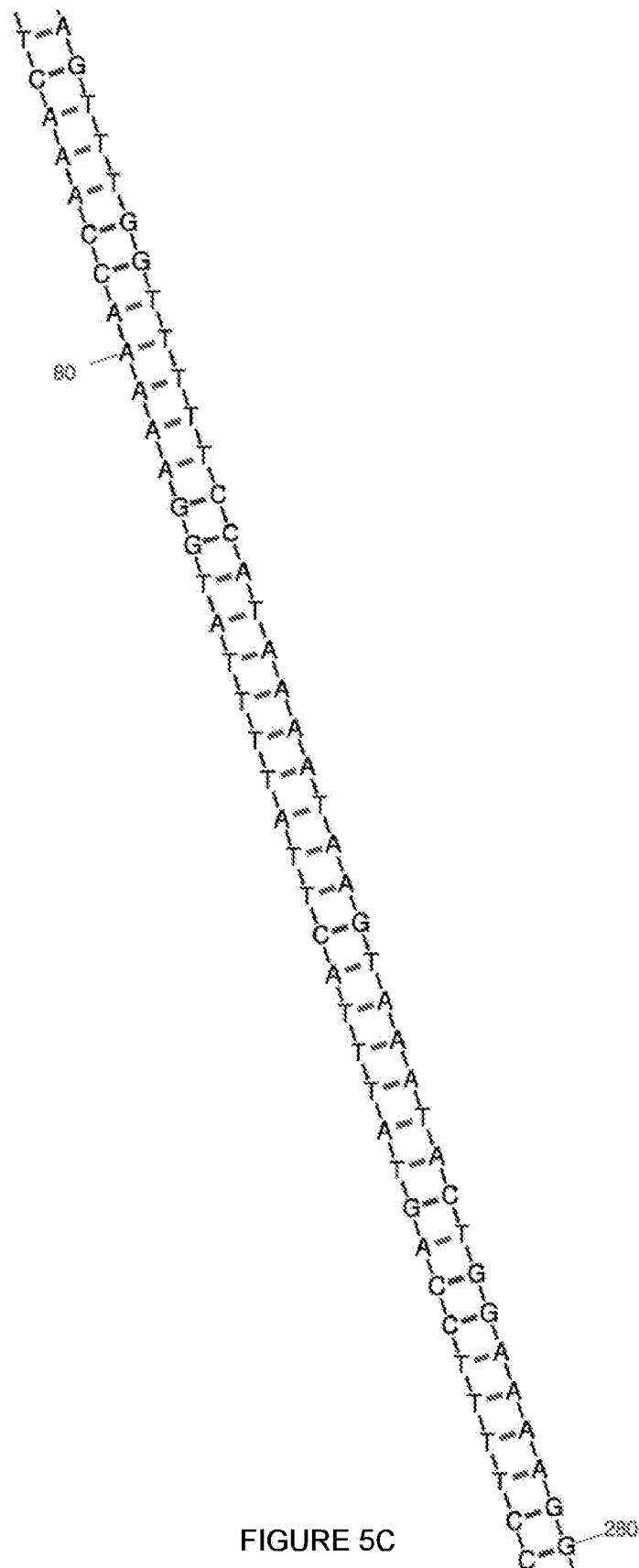
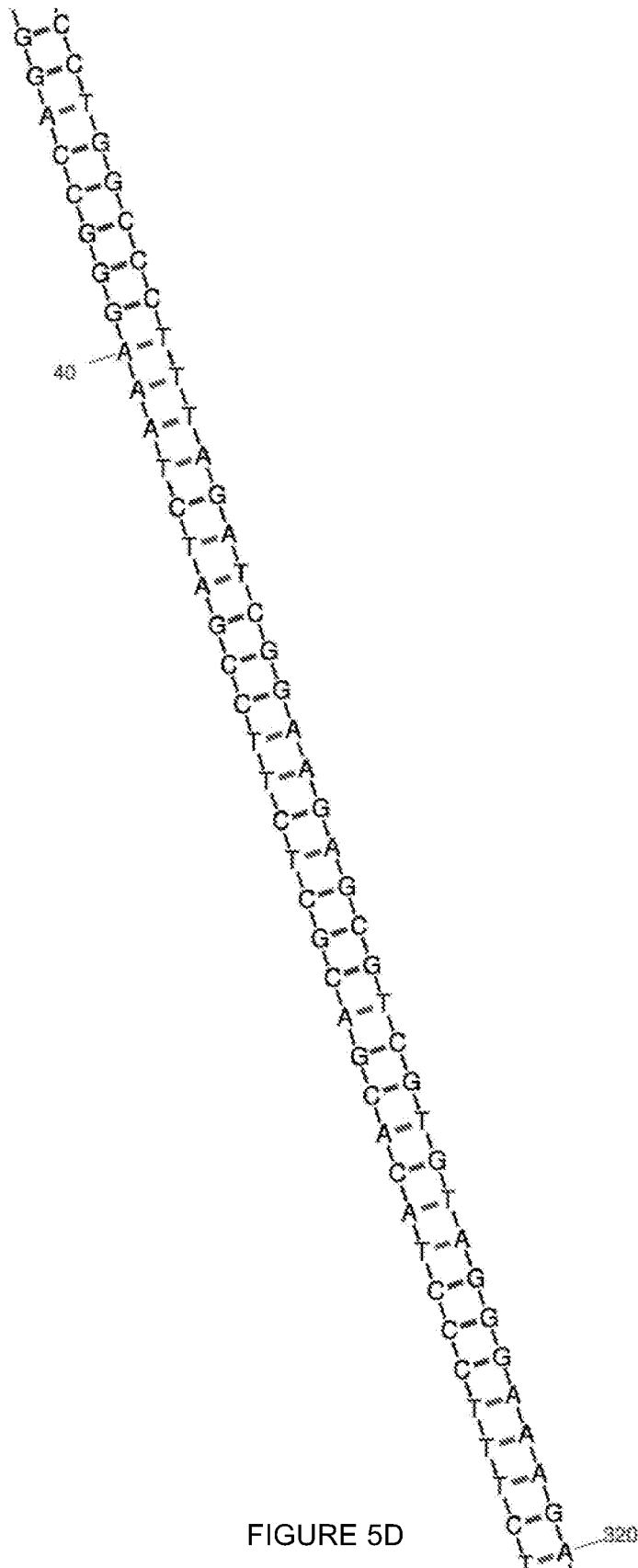


FIGURE 5B





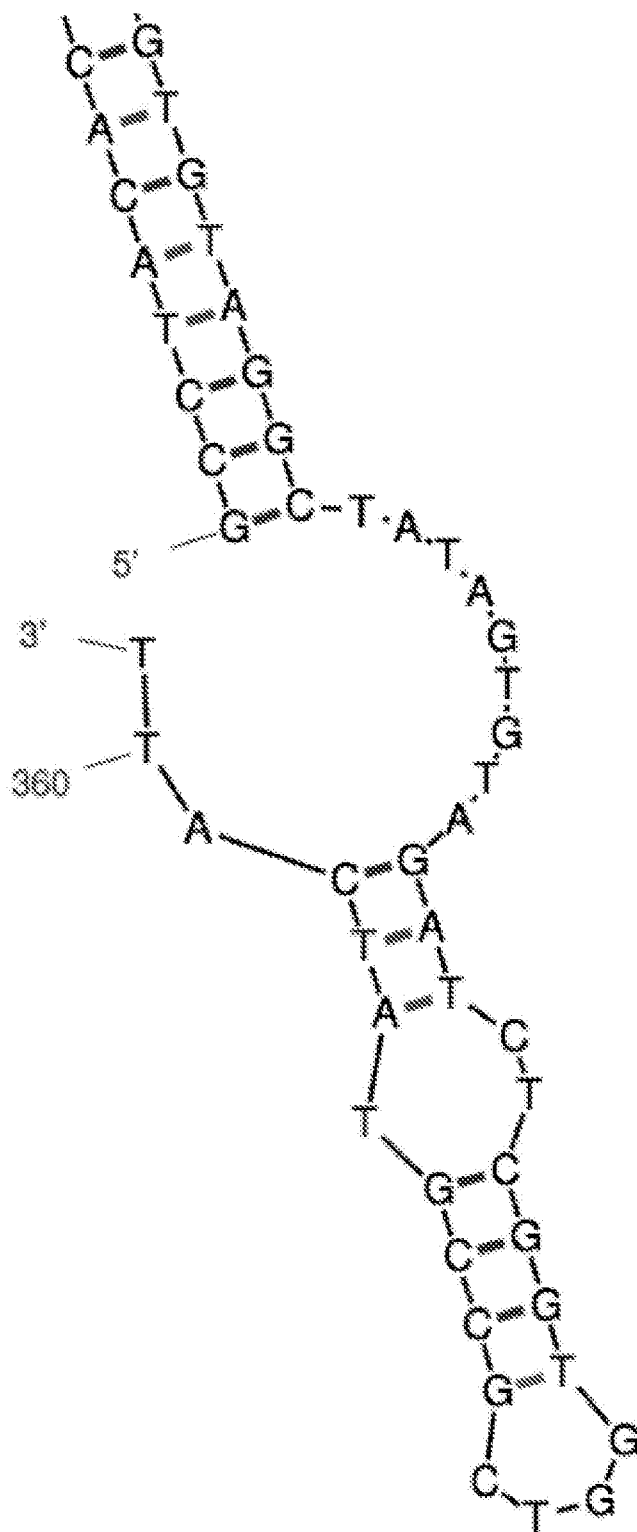


FIGURE 5E

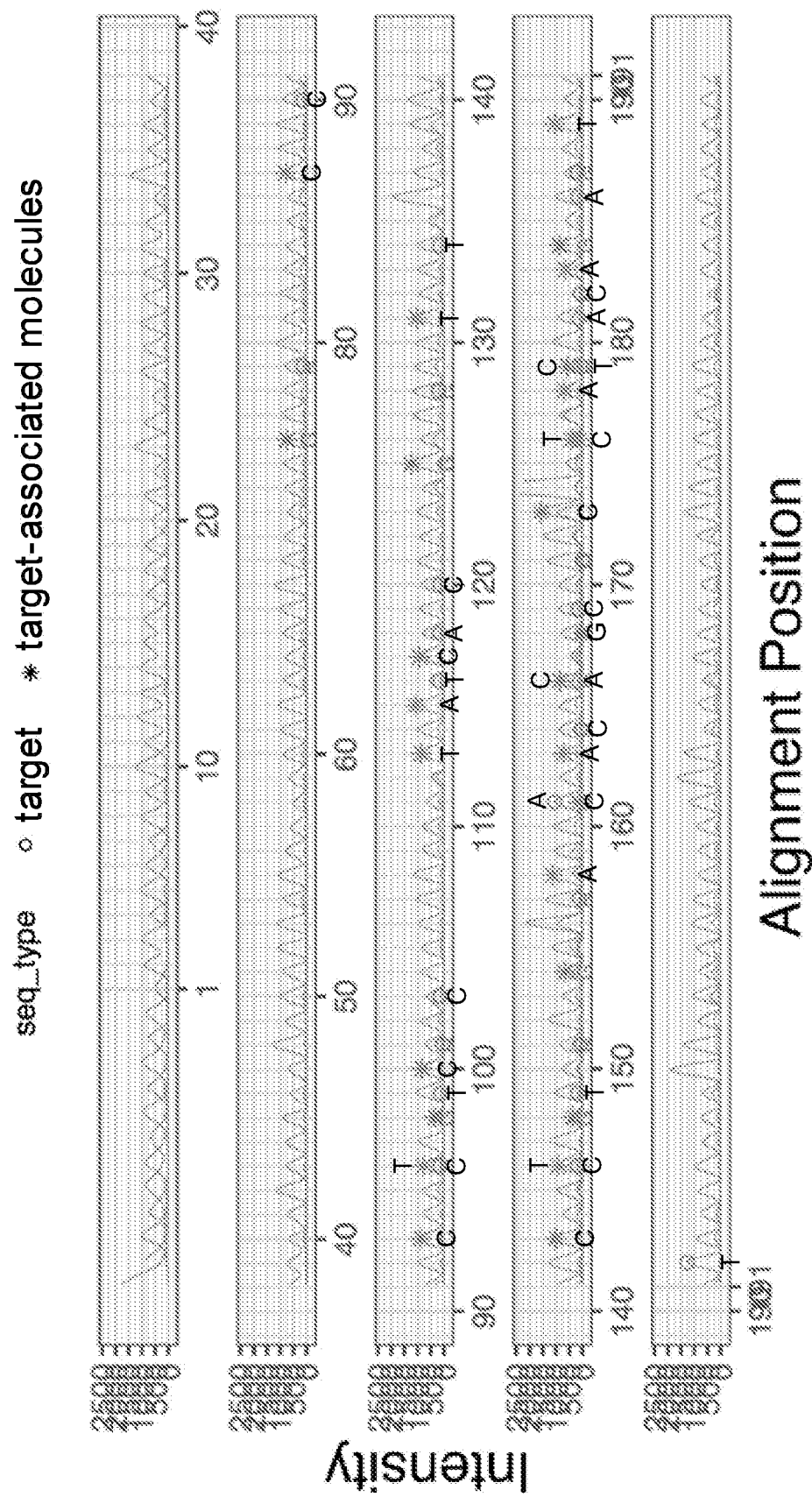


FIGURE 6A

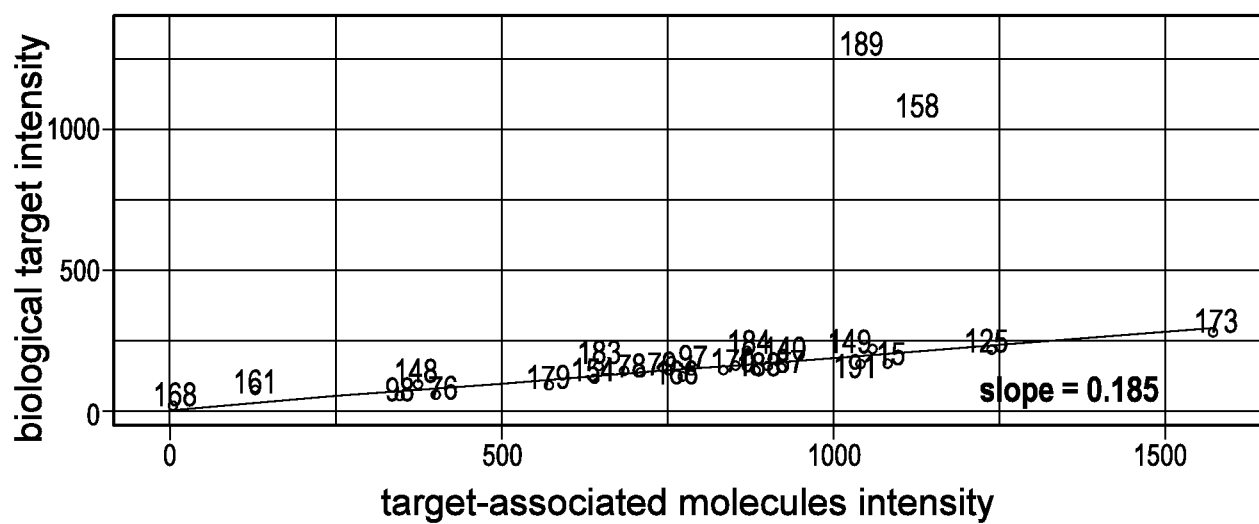
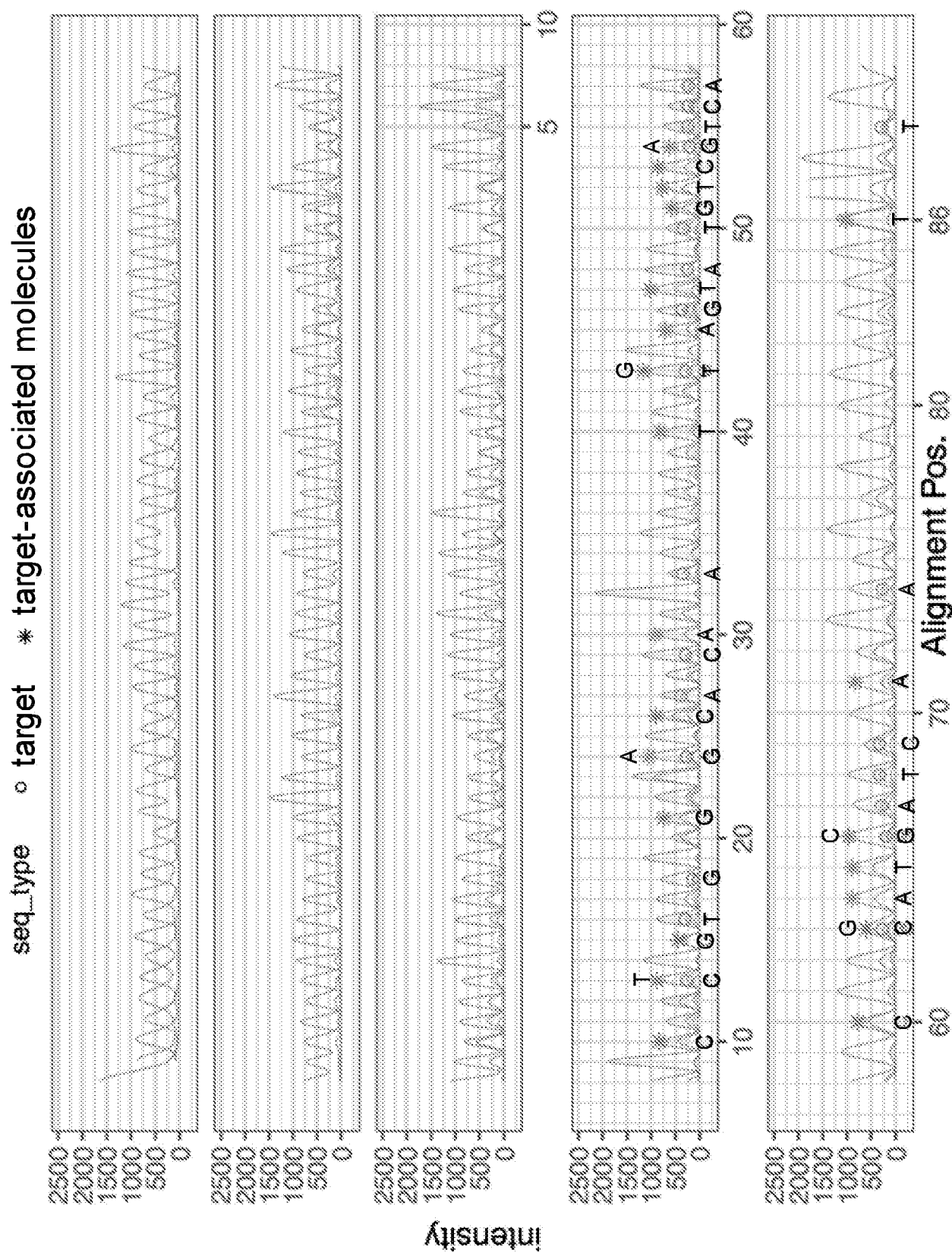


FIGURE 6B



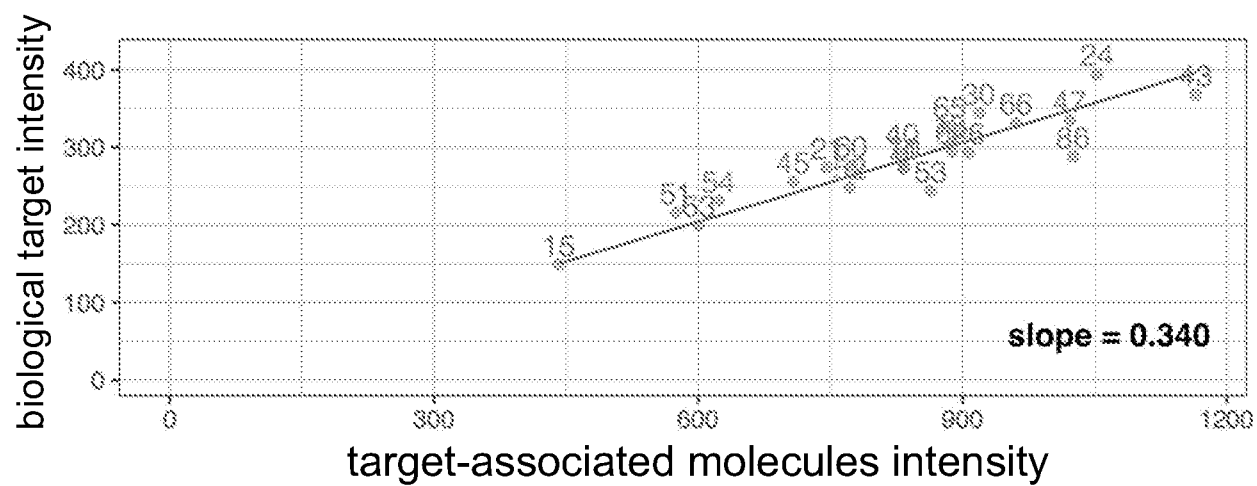


FIGURE 7B

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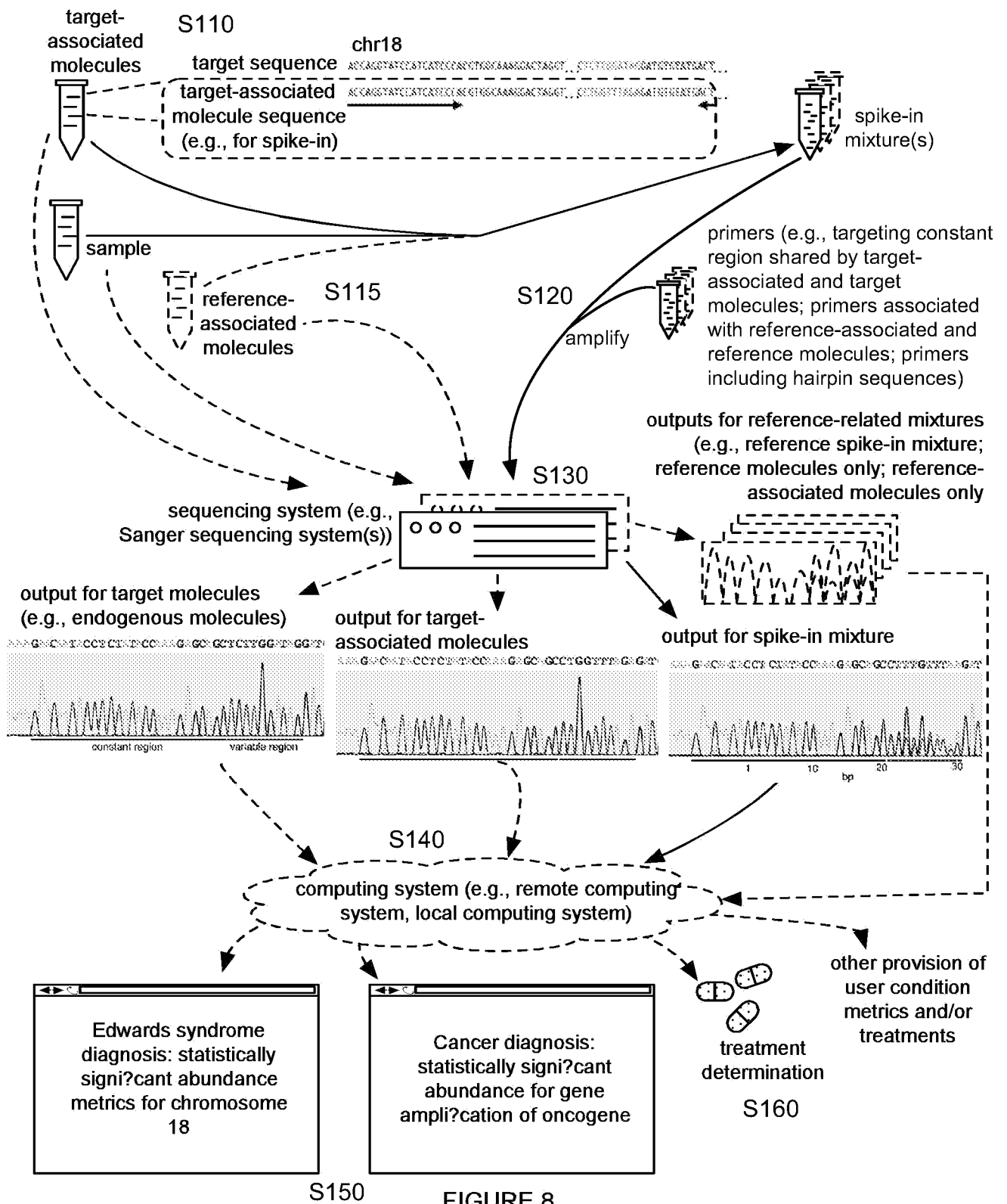


FIGURE 8

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outputs (e.g., chromatograms) for spike-in mixtures
across multiple loci (e.g., loci1, loci2, loci3, loci4, etc.)

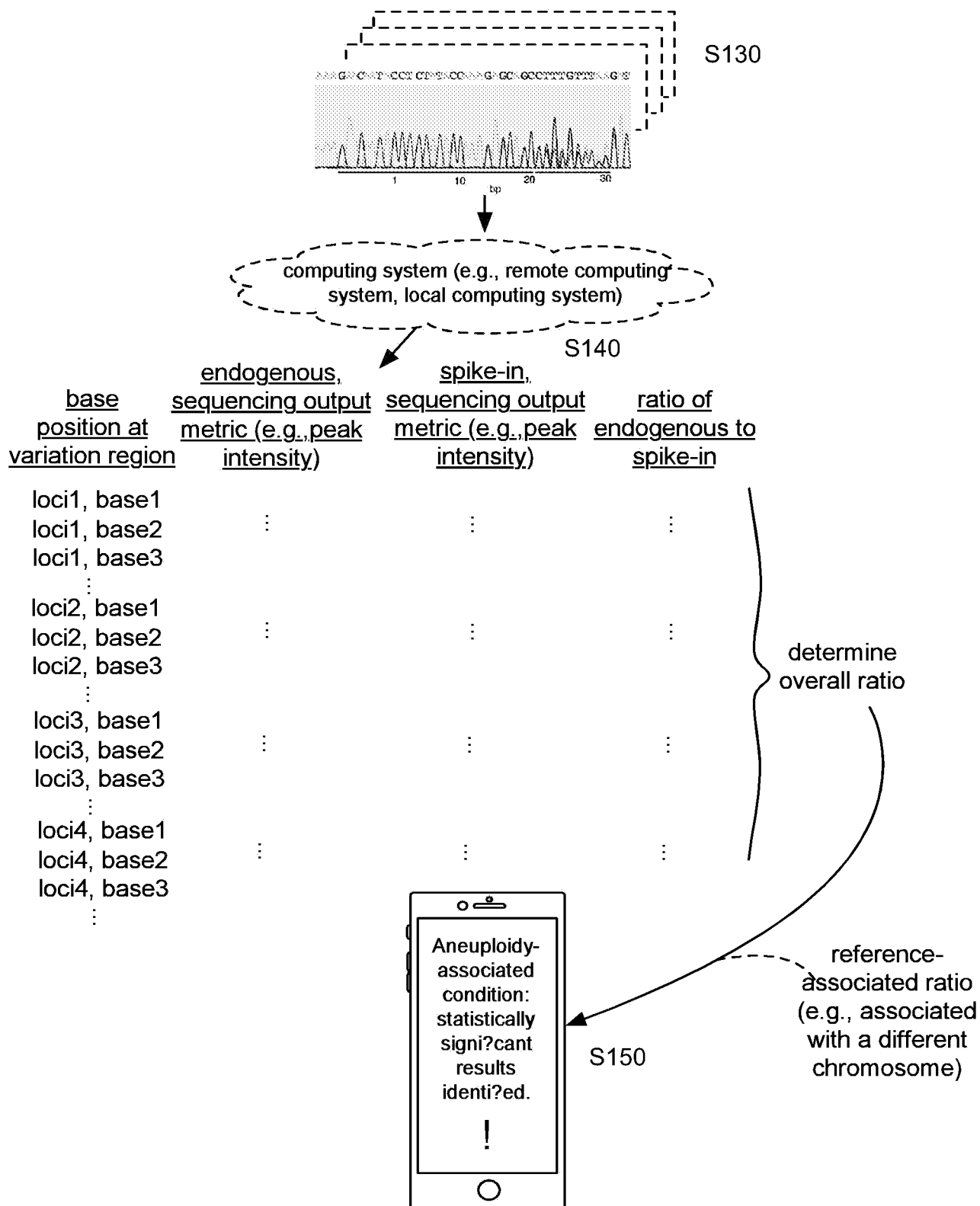


FIGURE 9

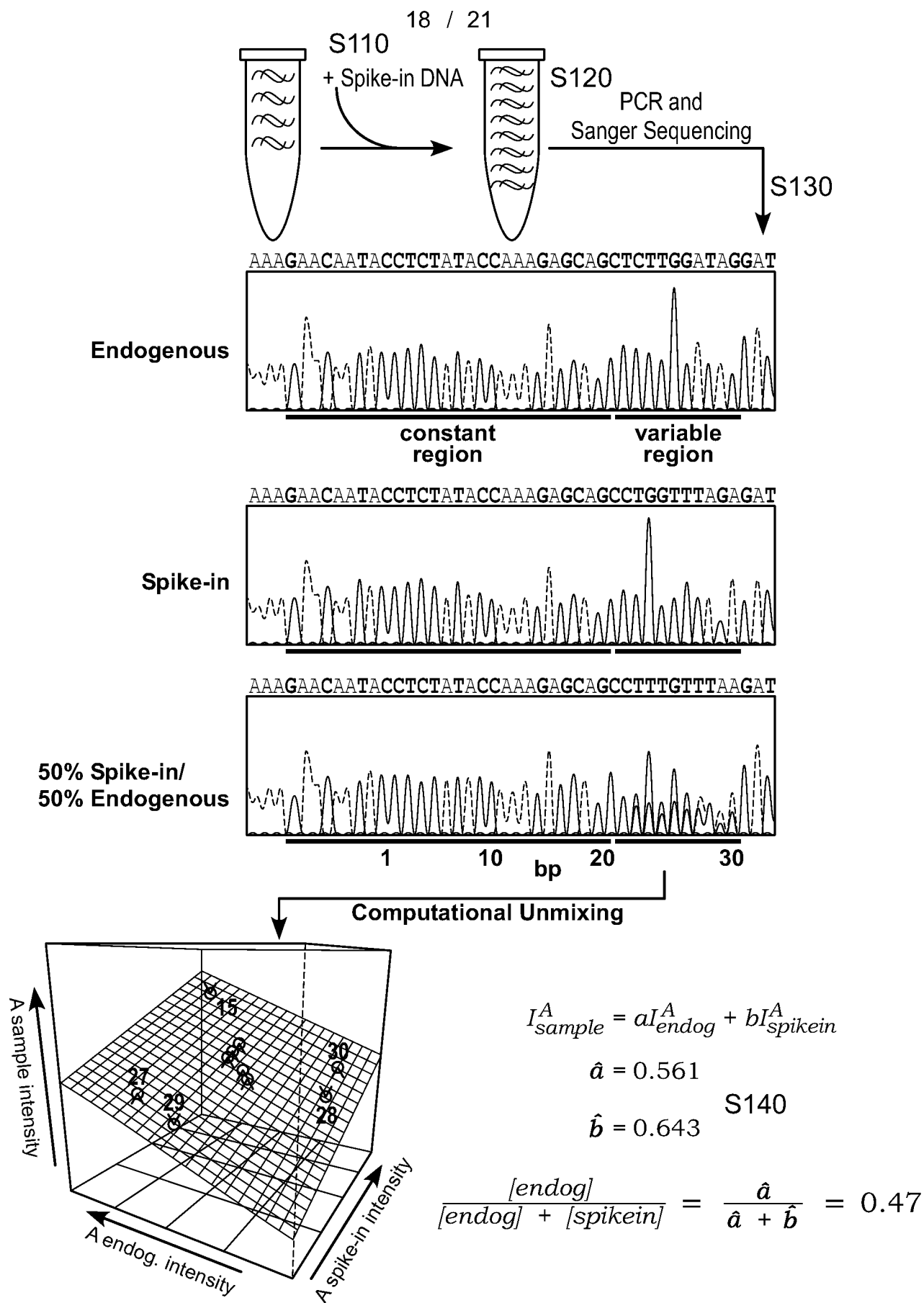


FIGURE 10

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>chr18:12340277+12340405 129bp

Target ACCAGGTATCCATCATCCACGTGGCAAGGACTAGGTTATGCTCAGTATTTACCAAGAACAATACCTCTATACCAAGAGCAGCTCTGGATAGGATGTGTATGACTTTAGGTGGTCGAGTCTCTG

Spike-in ACCAGGTATCCATCATCCACGTGGCAAGGACTAGGTTATGCTCAGTATTTACCAAGAACAATACCTCTATACCAAGAGCAGCCTGGTTAGAGATGTGTATGACTTTAGGTGGTCGAGTCTCTG



FIGURE 11

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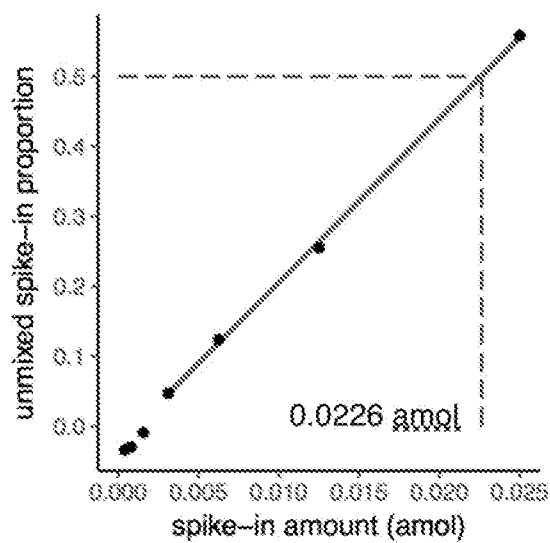


FIGURE 12A

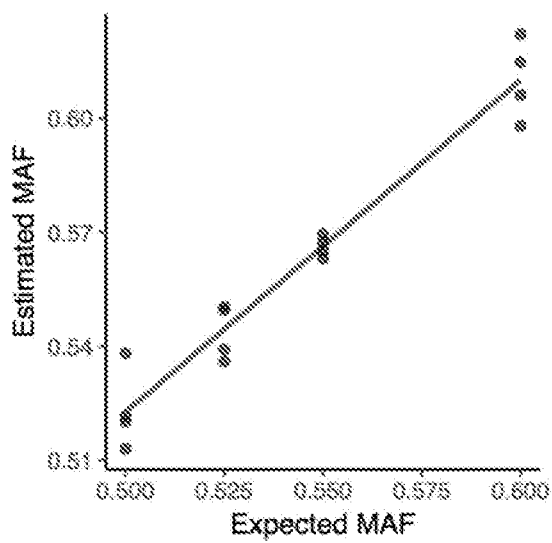


FIGURE 12B

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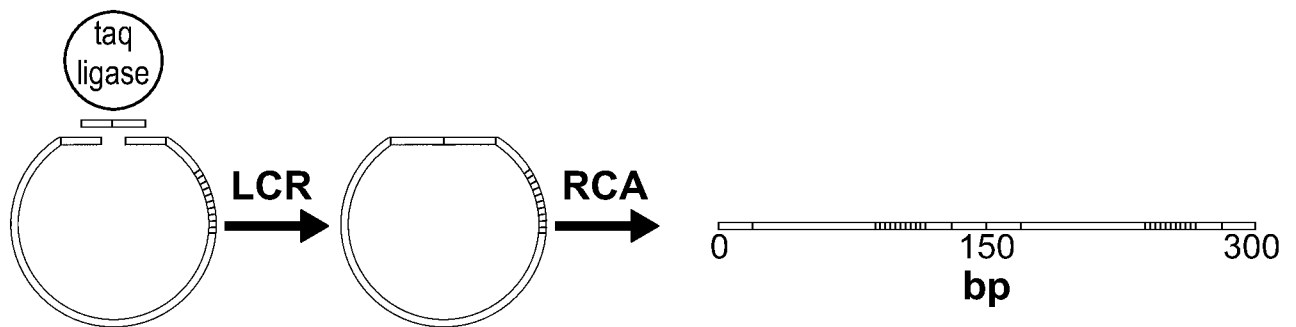


FIGURE 13A

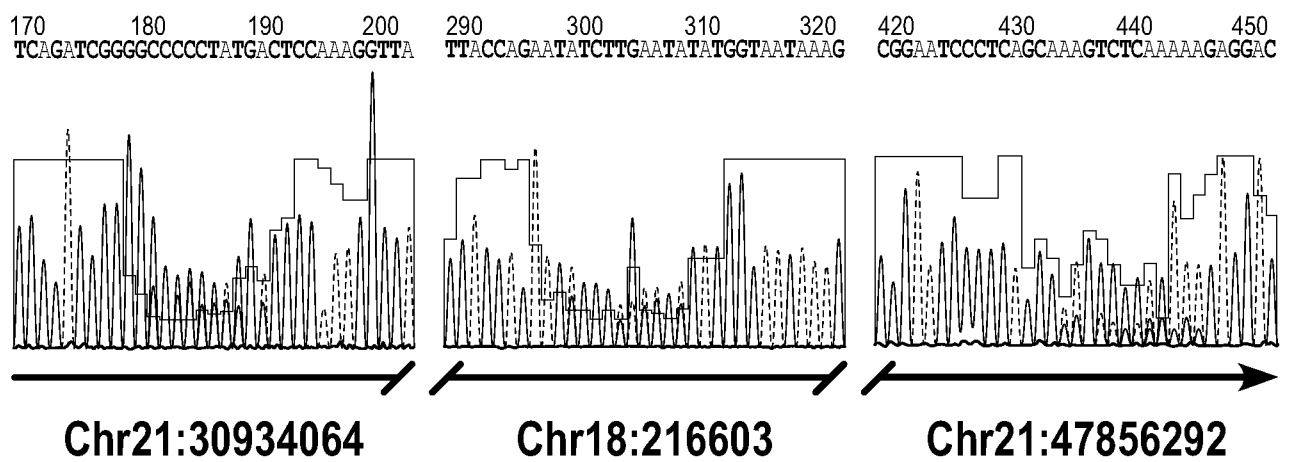


FIGURE 13B