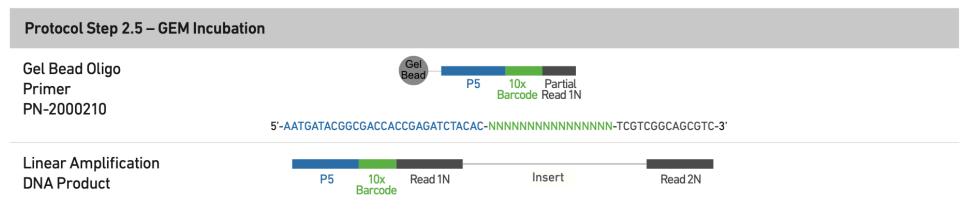
ASAP-seq assay scheme – 10x Genomics single cell ATAC NextGEM v1.1 chemistry Version A: Using TotalSeq-A reagents (BioLegend)

ATAC fragment barcoding from 10x single cell ATAC NextGEM v1.1 chemistry (From 10x Genomics)



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Bridging / extension and linear amplification reactions

1. Bridging

10x ATAC gel bead oligo

Bridge Oligo A (BOA)

TotalSeq™-A reagent



Bridge Oligo A (BOA)

TotalSeq™-A reagent (extended)

3. Subsequent rounds of linear extension in droplets

10x ATAC gel bead oligo

TotalSeg™-A reagent (extended)

Linear amplification product (bottom strand also produced, not shown)

Library PCR – addition of P5 and P7 ends. Partial P5 and RPIx

- 5' AATGATACGGCGACCACCGAGA

3'-ACCTTAAGAGCCCACGGTTCCTTGAGGTCAGTGXXXXXXXXTAGAGCATACGGCAGAAGACGAAC

ASAP-Seq ADT (TotalSeq™-A) final library

Sequencing for ASAP-seq with TotalSeq-A protein detection (spiked into ATAC run)

ody tag