

Tagmentation and library prep

Stock Nextera XT i7 primer indexed (N701, N702, etc)

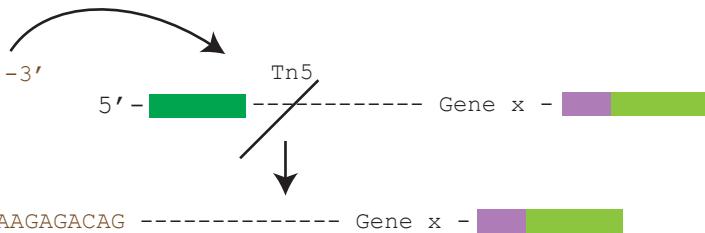
P7 binding sequence
5' CAAGCAGAACGGCATACGAGAT [i7] GTCTCGTGGCTCGG

nonindexed custom i5 primer

5'-**AATGATAACGGGACCACCGAGATCTACACAC** ACACTCTTCCCTACACGACGCTCTTCGATCT **AAGCAGTGGTATCAACGCAGAG*T** -3'
P5 binding sequence **sequencing primer sequence** **SS2-sequence**

Step 1: single end tagmentation

5' - GTCTCGTGGGCTCGGAGATGTGTATAAGAGACAG -3'
Tagmentation read 2 adapter



will not include
read 1 adapter
in order to boost
likelihood of
read 2 adapter
insertions

Step 2: PCR enrichment

5' - CAAGCA...GAT [i7] GTCTCGTGGGCTCGG-3'
Nextera i7 primer (indexed)

Custom i5 primer
5' - [brown bar] ---Gene x--pA- [purple bar] -3'
3' - [brown bar] ---rcGene x-pT- [purple bar] -5'

↓
Nextera XT
PCR Enrichment

P7
5' - **i7** [brown bar] ---Gene x -pA- [purple bar] -3'
3' - **rc-i7** [brown bar] ---rcGene x-pT- [purple bar] -5'
P7 TAGMENT SEQ BC & SS2- UMI sequence READ 1 Sequencing P5 PRIMER