

Truseq "Y" Adapter (Index #1 = ATCACG):
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATC*T
GTTCTGCTCTTCTGCGGTATGCTCTAGCACTA CACTGACCTCAAGTCTGCACA CGAGAAGGCTAG-P

Double-stranded Library Molecule post ligation
AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-NNN-AGATCGGAAGAGC ACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG
CGAGAAGGCTAGA-NNN-TCTAGCCTTCTCGCAGCAGACATCCCTTTCTCACATCTAGAGCCACCAGCGGCATAGTAA
GTTCTGCTCTTCTGCGGTATGCTCTAGCACTA CACTGACCTCAAGTCTGCACA

Double-stranded Library Molecule post PCR
AATGATACGGCGACCACCGAGA TCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-NNN-AGATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG
TTACTATGCCGCTGGTGGCTCTAGATGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGA-NNN-TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTGTAGTGTAGAGCATACGGCAGAAGACGAAC

Denatured ds-Library molecules with blocking oligos

5' AATGATACGGCGACCACCGAGA TCTACACTCTTTCCCTACACGACGCTCTTCCGATCT-NNN-AGATCGGAAGAGCACACGTCTGAACTCCAGTCACATCACGATCTCGTATGCCGTCTTCTGCTTG 3'
TruSeq_BLOCK_index1_ATCACG 3' TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTGTAGTGTAGAGCATACGGCAGAAGACGAAC 5'
TruSeq_BLOCK_left & right 3' TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTG TAGAGCATACGGCAGAAGACGAAC 5'
TruSeq_BLOCK_universal
3' AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT TTACTATGCCGCTGGTGGCTCTAGATGTGAGAAAGGGATGTGCTGCGAGAAGGCTAGA-NNN-TCTAGCCTTCTCGTGTGCAGACTTGAGGTCAGTGTAGTGTAGAGCATACGGCAGAAGACGAAC 5'

Library Method	Index	Blocking Oligos	Condition	PCT_SELECTED BASES
TruSeq Index Adapter, Single Tube Protocol	A008	None	no blocking oligos at all, affect on on-target %	0.341064
Agilent non-indexed adapter, Agilent Protocol	A010	Agilent Block #3	POSITIVE control (Agilent precap library, Agilent Blocks)	0.803567
TruSeq Index Adapter, Single Tube Protocol	A006	Agilent Block #3	NEGATIVE: Agilent blocking oligos with Truseq library	0.432745
TruSeq Index Adapter, Single Tube Protocol	A002	Univ + Block2	EXPERIMENTAL: Specific blocking oligo, matched	0.73026
TruSeq Index Adapter, Single Tube Protocol	A004	Univ + BlockL/R	EXPERIMENTAL: Split blocking oligos	0.418202

Name	Purpose	
TruSeqPCR_short_1	Pre/post-cap PCR	AATGATACGGCGACCACCGAGA
PCR Primer 2.0	Pre/post-cap PCR	CAAGCAGAAGACGGCATACGAGAT
TruSeq_BLOCK_universal	block whole univ oligo	AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTTCCGATCT/3InvdT/
TruSeq_BLOCK_index_Left	split block	CAAGCAGAAGACGGCATACGAGAT/3InvdT/
TruSeq_BLOCK_index_Right	split block	GTGACTGGAGTTTCAGACGTGTGCTCTTCCGATCT/3InvdT/
TruSeq_BLOCK_index2_CGATGT	block just index2	CAAGCAGAAGACGGCATACGAGATACATCGGTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT/3InvdT/
TruSeq_BLOCK_index4_TGACCA	block just index4	CAAGCAGAAGACGGCATACGAGATTGGTCACTGACTGGAGTTCAGACGTGTGCTCTTCCGATCT/3InvdT/