Multiplex Oligos 2 for Illumina

Instruction for Use

【Product Name】

Multiplex Oligos 2 for Illumina

【Cat. No./Spec.】

K002-B/192 rxns

【Product Description】

#K002-B Multiplex Oligos 2 for Illumina includes the universal adapter as well as 8 i5 PCR Primers and 12 i7 PCR Primers, each containing 8 nt index, allowing the construction of 96 different combinations of unique dual index libraries. When used with #K002-A Multiplex Oligos 1 for Illumina, 384 different combinations of dual index libraries can be constructed.

【Storage Condition & Shelf Life】

All reagents should be stored at -20°C. The product is valid for 12 months.
Do not premix Adapter, Ligation Buffer and DNA Ligase before use to avoid formation of excessive Adapter dimer.

【Scope of application】

This product is a special adapter primer kit for # K001 Fast DNA Library Prep Kit, which is applicable for Illumina platform.

【Components】

Component	Specification (192rxns)
Adapter	960μl

i5 PCR Primer	Specification
KP509	90μl
KP510	90μl
KP511	90μl
KP512	90μl
KP513	90μl
KP514	90μl
KP515	90μl
KP516	90μl

i7 PCR Primer	Specification
KP713	60μl
KP714	60μl
KP715	60μl
KP716	60μl
KP717	60μl
KP718	60μl
KP719	60μl
KP720	60μl
KP721	60μl
KP722	60μl
KP723	60μl
KP724	60μl

Sequence Information

Adapter:

5’-ACACTCTTTCCCTACACGACGCTCTTCCGATCT-3’

5’-GATCGGAAGAGCACACGTCTGAACTCCAGTC-3’

i5 PCR Primer:

5’-AATGATACGGCGACCACCGAGATCTACAC[i5]ACACTCTTTCCCTACACGACGCTC-3’

i7 PCR Primer:

5’-CAAGCAGAAGACGGCATACGAGAT[i7]GTGACTGGAGTTCAGACGTGTGCTCT-3’

[i5] refers to the 8 nt i5 index sequence and [i7] refers to the 8 nt i7 index sequence.

i5 PCR Primer index sequences

Primer Name	Index Name	Index Sequences	MiSeq, HiSeq 2000/2500,NovaSeq Input Sequences	HiSeq, MiniSeq, NextSeq, HiSeq 3000,4000, HiSeq X Input Sequences
KP509	P509	TATAGCCT	TATAGCCT	AGGCTATA
KP510	P510	ATAGAGGC	ATAGAGGC	GCCTCTAT
KP511	P511	AGAGTAGA	AGAGTAGA	TCTACTCT
KP512	P512	GTAAGGAG	GTAAGGAG	CTCCTTAC
KP513	P513	CTATTAAG	CTATTAAG	CTTAATAG
KP514	P514	AAGGCTAT	AAGGCTAT	ATAGCCTT
KP515	P515	GAGCCTTA	GAGCCTTA	TAAGGCTC
KP516	P516	TTATGCGA	TTATGCGA	TCGCATAA

i7 PCR Primer index sequences

Primer Name	Index Name	Index Sequences	Input Sequences
KP713	P713	AACGTGAT	ATCACGTT
KP714	P714	AAACATCG	CGATGTTT
KP715	P715	AACGCTTA	TAAGCGTT
KP716	P716	AAGACGGA	TCCGTCTT
KP717	P717	AAGGTACA	TGTACCTT
KP718	P718	ACACAGAA	TTCTGTGT
KP719	P719	ACAGCAGA	TCTGCTGT
KP720	P720	ACCTCCAA	TTGGAGGT
KP721	P721	ACGCTCGA	TCGAGCGT
KP722	P722	ACGTATCA	TGATACGT
KP723	P723	ACTATGCA	TGCATAGT
KP724	P724	AGAGTCAA	TTGACTCT