

Multiplex Oligos 1 for Illumina

Instruction for Use

【Product Name】

Multiplex Oligos 1 for Illumina

【Cat. No./Spec.】

K002-A02/24 rxns

【Product Description】

#K002-A02 Multiplex Oligos 1 for Illumina includes the universal adapter as well as 2 i5 PCR Primers and 2 i7 PCR Primers, each containing 8 nt index, allowing the construction of 4 different combinations of unique dual index libraries. Large package #K002-A can be constructed in 96 different combinations, when used with #K002-B Multiplex Oligos 2 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 (24rxns)	
Adapter	120µl	
i5 PCR Primer	KP501	30µl
	KP502	30µl
i7 PCR Primer	KP701	30µl
	KP702	30µl

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 8nt 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
KP501	P501	CTCTCTAT	CTCTCTAT	ATAGAGAG
KP502	P502	TATCCTCT	TATCCTCT	AGAGGATA

i7 PCR Primer index sequences

Primer Name	Index Name	Index Sequences	Input Sequences
KP701	P701	CGCTGATC	GATCAGCG
KP702	P702	ACAAGCTA	TAGCTTGT