

Multiplex Oligos 1 for Illumina

Instruction for Use

【Product Name】

Multiplex Oligos 1 for Illumina

【Cat. No./Spec.】

K002-A/192 rxns

【Product Description】

#K002-A Multiplex Oligos 1 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-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 (192rxns)
Adapter	960µl

i5 PCR Primer	Specification
KP501	90µl
KP502	90µl
KP503	90µl
KP504	90µl
KP505	90µl
KP506	90µl
KP507	90µl
KP508	90µl

i7 PCR Primer	Specification
KP701	60µl
KP702	60µl
KP703	60µl
KP704	60µl
KP705	60µl
KP706	60µl
KP707	60µl
KP708	60µl
KP709	60µl
KP710	60µl
KP711	60µl
KP712	60µl

Sequence Information

Adapter:

5'-ACACTCTTTCCCTACACGACGCTCTTCCGATCT-3'

5'-GATCGGAAGAGCACACGTCTGAACTCCAGTC-3'

i5 PCR Primer:

5'-AATGATACGGCGACCACCGAGATCTACAC[i5]ACACTCTTTCCCTACACGACGCT
C-3'

i7 PCR Primer:

5'-CAAGCAGAAGACGGCATAACGAGAT[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
KP503	P503	CCTATCCT	CCTATCCT	AGGATAGG
KP504	P504	GGCTCTGA	GGCTCTGA	TCAGAGCC
KP505	P505	AGGCGAAG	AGGCGAAG	CTTCGCCT
KP506	P506	TAATCTTA	TAATCTTA	TAAGATTA
KP507	P507	CAGGACGT	CAGGACGT	ACGTCCTG
KP508	P508	GTAAGTAC	GTAAGTAC	GTCAGTAC

i7 PCR Primer index sequences

Primer Name	Index Name	Index Sequences	Input Sequences
KP701	P701	CGCTGATC	GATCAGCG
KP702	P702	ACAAGCTA	TAGCTTGT
KP703	P703	ATGCCTAA	TTAGGCAT
KP704	P704	AGTGGTCA	TGACCACT
KP705	P705	ACCACTGT	ACAGTGGT
KP706	P706	ACATTGGC	GCCAATGT
KP707	P707	CAGATCTG	CAGATCTG
KP708	P708	CATCAAGT	ACTTGATG
KP709	P709	CTGTAGCC	GGCTACAG
KP710	P710	AGTACAAG	CTTGACT
KP711	P711	AACAACCA	TGGTTGTT
KP712	P712	AACCGAGA	TCTCGGTT