

TransNGS® Index Primers (384) Kit for Illumina®

Cat. No. KI241

Version No. Version 2.0

Storage: at -20°C for two years

Description

TransNGS® Index Primers (384) Kit for Illumina® is suitable for multiplex library preparation for next-generation sequencing on the Illumina platform. This kit contains 16 different i5 primers (i509-i524) and 24 different i7 primers (i713-i736). 384 uniquely dual-indexed libraries can be prepared using this kit.

Application

Multiplex next-generation sequencing library preparations on the Illumina platform.

Kit Contents

Component	KI241-00 (24 rxns)	KI241-01 (192 rxns)	KI241-02 (384 rxns)
TransNGS® i5 Primer	09-12	09-24	09-24
	15µl each	15µl each	60µl each
TransNGS® i7 Primer	13-18	13-36	13-36
	10µl each	10µl each	40µl each

Sequence Information

TransNGS® i509-i524 Primer:

5'-AATGATACGGCGACCACCGAGATCTACAC[i5]ACACTCTTCCCTACACGACGCTCTTCCGATC-s-T-3'

TransNGS® i713-i736 Primer:

5'-CAAGCAGAAGACGGCATAACGAGAT[i7]GTGACTGGAGTTCAGACGTGTGCTCTTCCGATC-s-T-3'

i5: Index 2, 8 bases;

i7: Index 1, 8 bases;

-s- indicates a phosphorothioate bond



Component		Index Sequence Read	
		Miseq, HiSeq 2000/2500, NovaSeq v1.0	MiniSeq, NextSeq, HiSeq 3000/4000, NovaSeq v1.5
i5 Primer	<i>TransNGS</i> [®] i509 Primer	T A T A G C C T	A G G C T A T A
	<i>TransNGS</i> [®] i510 Primer	A T A G A G G C	G C C T C T A T
	<i>TransNGS</i> [®] i511 Primer	C C T A T C C T	A G G A T A G G
	<i>TransNGS</i> [®] i512 Primer	G G C T C T G A	T C A G A G C C
	<i>TransNGS</i> [®] i513 Primer	A G G C G A A G	C T T C G C C T
	<i>TransNGS</i> [®] i514 Primer	T A A T C T T A	T A A G A T T A
	<i>TransNGS</i> [®] i515 Primer	C A G G A C G T	A C G T C C T G
	<i>TransNGS</i> [®] i516 Primer	G T A C T G A C	G T C A G T A C
	<i>TransNGS</i> [®] i517 Primer	G A C C T G T A	T A C A G G T C
	<i>TransNGS</i> [®] i518 Primer	A T G T A A C T	A G T T A C A T
	<i>TransNGS</i> [®] i519 Primer	G T T T C A G A	T C T G A A A C
	<i>TransNGS</i> [®] i520 Primer	C A C A G G A T	A T C C T G T G
	<i>TransNGS</i> [®] i521 Primer	T A G C T G C C	G G C A G C T A
	<i>TransNGS</i> [®] i522 Primer	A G C G A A T G	C A T T C G C T
	<i>TransNGS</i> [®] i523 Primer	T A T G C T G C	G C A G C A T A
<i>TransNGS</i> [®] i524 Primer	A G A A G A C T	A G T C T T C T	
Component		Index Sequence Read	
i7 Primer	<i>TransNGS</i> [®] i713 Primer	A T T A C T C G	
	<i>TransNGS</i> [®] i714 Primer	T C C G G A G A	
	<i>TransNGS</i> [®] i715 Primer	C G C T C A T T	
	<i>TransNGS</i> [®] i716 Primer	G A G A T T C C	
	<i>TransNGS</i> [®] i717 Primer	A T T C A G A A	
	<i>TransNGS</i> [®] i718 Primer	G A A T T C G T	
	<i>TransNGS</i> [®] i719 Primer	C T G A A G C T	
	<i>TransNGS</i> [®] i720 Primer	T A A T G C G C	
	<i>TransNGS</i> [®] i721 Primer	C G G C T A T G	
	<i>TransNGS</i> [®] i722 Primer	T C C G C G A A	
	<i>TransNGS</i> [®] i723 Primer	T C T C G C G C	
	<i>TransNGS</i> [®] i724 Primer	A G C G A T A G	
	<i>TransNGS</i> [®] i725 Primer	C G T G T A G G	
	<i>TransNGS</i> [®] i726 Primer	G A C A C T A C	
	<i>TransNGS</i> [®] i727 Primer	T G C A T A C A	
	<i>TransNGS</i> [®] i728 Primer	C A G T C T G G	
	<i>TransNGS</i> [®] i729 Primer	T G G C A C C T	
	<i>TransNGS</i> [®] i730 Primer	C A A G G T G A	
	<i>TransNGS</i> [®] i731 Primer	A A A G A T A C	
	<i>TransNGS</i> [®] i732 Primer	T G G A G C T G	
<i>TransNGS</i> [®] i733 Primer	T A A G G C G A		
<i>TransNGS</i> [®] i734 Primer	C G T A C T A G		
<i>TransNGS</i> [®] i735 Primer	G C T A C G C T		
<i>TransNGS</i> [®] i736 Primer	C G A G G C T C		

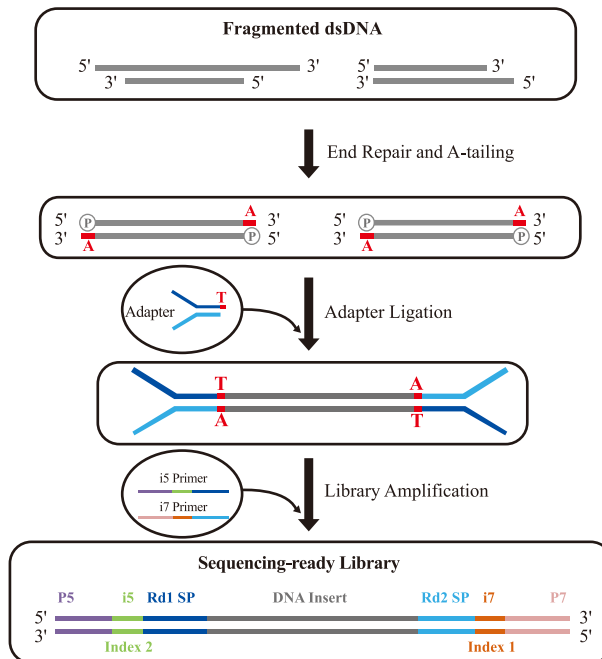


Index Pooling Guidelines

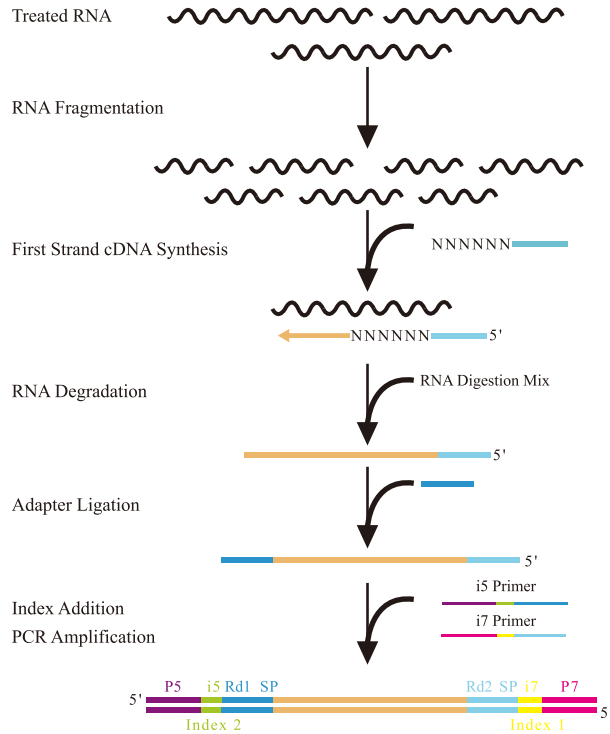
Illumina sequencers use a green laser to sequence bases G/ T and a red laser to sequence bases A/ C. To ensure the success of sequencing, color balance in each sequencing cycle is required. Therefore, it is necessary to make sure that both green-laser bases and red-laser bases are included in each sequencing cycle when pooling multiple indexes.

Appendix

Workflow demonstrating the use of this kit with *TransNGS*[®] DNA Library Prep Kit for Illumina[®]:



Workflow demonstrating the use of this kit with *TransNGS*[®] Stranded RNA-Seq Library Prep Kit for Illumina[®]:



If this kit is used with *TransNGS*[®] DNA Library Prep Kit for Illumina[®] or *TransNGS*[®] Stranded RNA-Seq Library Prep Kit for Illumina[®], the resulting library has the following sequences:

5'-AATGATACGGCGACCACCGAGATCTACAC[i5]ACACTCTTCCCTACACGACGCTCTCCGATCT-XXXXXXX-
AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG-3'

i5: Index 2, 8 bases;

i7: Index 1, 8 bases;

-XXXXXXX-: inserted DNA

For research use only, not for clinical diagnosis.

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