

TransNGS[®] UDI Indexed Adapter Kit for Illumina[®]

二代测序UDI Indexed接头试剂盒 (适配illumina平台)

使用前请仔细阅读说明书



目录号: KI341

版本号: Version 1.0

保存: -18℃及其以下温度下保存两年。

产品说明

TransNGS® UDI Indexed Adapter Kit for Illumina®, 共提供96种由独立的i5和i7组成的Adapters, 是适用于Illumina高通量测序平台的多样品文库构建含两端Index的Long Adapter试剂盒。

适用范围

适用于Illumina高通量测序平台多样本文库构建。

试剂盒组成

Component	KI341-00 (24 rxns)	KI341-01 (192 rxns)	KI341-02 (384 rxns)
TransNGS® Adapter Dilution Buffer	5 mL	2×5 mL	4×5 mL
TransNGS® UDI Indexed Adapter	1-12 各10 uL	1-96 各10 uL	1-96 各20 uL

Adapter中Index序列信息

接头名称	测序单i5 Index序列		测序单i7 Index序列
	Miseq, HiSeq 2000/ 2500, NovaSeq v1.0	MiniSeq, NextSeq, HiSeq 3000/4000, NovaSeq v1.5	All Illumina Systems
TransNGS® UDI Indexed Adapter 1 for Illumina® (16 µM)	A G C G C T A G	C T A G C G C T	C C G C G G T T
TransNGS® UDI Indexed Adapter 2 for Illumina® (16 µM)	G A T A T C G A	T C G A T A T C	T T A T A A C C
TransNGS® UDI Indexed Adapter 3 for Illumina® (16 µM)	C G C A G A C G	C G T C T G C G	G G A C T T G G
TransNGS® UDI Indexed Adapter 4 for Illumina® (16 µM)	T A T G A G T A	T A C T C A T A	A A G T C C A A
TransNGS® UDI Indexed Adapter 5 for Illumina® (16 µM)	A G G T G C G T	A C G C A C C T	A T C C A C T G
TransNGS® UDI Indexed Adapter 6 for Illumina® (16 µM)	G A A C A T A C	G T A T G T T C	G C T T G T C A
TransNGS® UDI Indexed Adapter 7 for Illumina® (16 µM)	A C A T A G C G	C G C T A T G T	C A A G C T A G
TransNGS® UDI Indexed Adapter 8 for Illumina® (16 µM)	G T G C G A T A	T A T C G C A C	T G G A T C G A
TransNGS® UDI Indexed Adapter 9 for Illumina® (16 µM)	C C A A C A G A	T C T G T T G G	A G T T C A G G
TransNGS® UDI Indexed Adapter 10 for Illumina® (16 µM)	T T G G T G A G	C T A C C A A A	G A C C T G A A
TransNGS® UDI Indexed Adapter 11 for Illumina® (16 µM)	C G C G G T T C	G A A C C G C G	T C T C T A C T
TransNGS® UDI Indexed Adapter 12 for Illumina® (16 µM)	T A T A A C C T	A G G T T A T A	C T C T C G T C
TransNGS® UDI Indexed Adapter 13 for Illumina® (16 µM)	A A G G A T G A	T C A T C C T T	C C A A G T C T
TransNGS® UDI Indexed Adapter 14 for Illumina® (16 µM)	G G A A G C A G	C T G C T T C C	T T G G A C T C
TransNGS® UDI Indexed Adapter 15 for Illumina® (16 µM)	T C G T G A C C	G G T C A C G A	G G C T T A A G
TransNGS® UDI Indexed Adapter 16 for Illumina® (16 µM)	C T A C A G T T	A A C T G T A G	A A T C C G G A
TransNGS® UDI Indexed Adapter 17 for Illumina® (16 µM)	A T A T T C A C	G T G A A T A T	T A A T A C A G
TransNGS® UDI Indexed Adapter 18 for Illumina® (16 µM)	G C G C C T G T	A C A G G C G C	C G G C G T G A
TransNGS® UDI Indexed Adapter 19 for Illumina® (16 µM)	A C T C T A T G	C A T A G A G T	A T G T A A G T
TransNGS® UDI Indexed Adapter 20 for Illumina® (16 µM)	G T C T C G C A	T G C G A G A C	G C A C G G A C
TransNGS® UDI Indexed Adapter 21 for Illumina® (16 µM)	A A G A C G T C	G A C G T C T T	G G T A C C T T



接头名称	测序单i5 Index序列		测序单i7 Index序列
	Miseq, HiSeq 2000/ 2500, NovaSeq v1.0	MiniSeq, NextSeq, HiSeq 3000/4000, NovaSeq v1.5	All Illumina Systems
TransNGS® UDI Indexed Adapter 22 for Illumina® (16 µM)	GGAGTACT	AGTACTCC	AACGTTCC
TransNGS® UDI Indexed Adapter 23 for Illumina® (16 µM)	ACCGGCCA	TGGCCGGT	GCAGAATT
TransNGS® UDI Indexed Adapter 24 for Illumina® (16 µM)	GTTAATTG	CAATTAAC	ATGAGGCC
TransNGS® UDI Indexed Adapter 25 for Illumina® (16 µM)	AACCGCGG	CCGCGGTT	ACTAAGAT
TransNGS® UDI Indexed Adapter 26 for Illumina® (16 µM)	GTTTATAA	TTATAACC	GTCGGAGC
TransNGS® UDI Indexed Adapter 27 for Illumina® (16 µM)	CCAAGTCC	GGACTTGG	CTTGGTAT
TransNGS® UDI Indexed Adapter 28 for Illumina® (16 µM)	TTGGACTT	AAGTCCAA	TCCAACGC
TransNGS® UDI Indexed Adapter 29 for Illumina® (16 µM)	CAGTGGAT	ATCCACTG	CCGTGAAG
TransNGS® UDI Indexed Adapter 30 for Illumina® (16 µM)	TGACAAGC	GCTTGTC A	TTACAGGA
TransNGS® UDI Indexed Adapter 31 for Illumina® (16 µM)	CTAGCTTG	CAAGCTAG	GGCATTCT
TransNGS® UDI Indexed Adapter 32 for Illumina® (16 µM)	TCGATCCA	TGGATCGA	AATGCCTC
TransNGS® UDI Indexed Adapter 33 for Illumina® (16 µM)	CCTGA ACT	AGTTCAGG	TACCGAGG
TransNGS® UDI Indexed Adapter 34 for Illumina® (16 µM)	TTCAGGTC	GACCTGAA	CGTTAGAA
TransNGS® UDI Indexed Adapter 35 for Illumina® (16 µM)	AGTAGAGA	TCTCTACT	AGCCTCAT
TransNGS® UDI Indexed Adapter 36 for Illumina® (16 µM)	GACGAGAG	CTCTCGTC	GATTCTGC
TransNGS® UDI Indexed Adapter 37 for Illumina® (16 µM)	AGACTTGG	CCAAGTCT	TCGTAGTG
TransNGS® UDI Indexed Adapter 38 for Illumina® (16 µM)	GAGTCCAA	TTGGACTC	CTACGACA
TransNGS® UDI Indexed Adapter 39 for Illumina® (16 µM)	CTTAAGCC	GGCTTAAG	TAAGTGGT
TransNGS® UDI Indexed Adapter 40 for Illumina® (16 µM)	TCCGGATT	AATCCGGA	CGGACAAC
TransNGS® UDI Indexed Adapter 41 for Illumina® (16 µM)	CTGTATTA	TAATACAG	ATATGGAT
TransNGS® UDI Indexed Adapter 42 for Illumina® (16 µM)	TCACGCCG	CGGCGTGA	GCGCAAGC
TransNGS® UDI Indexed Adapter 43 for Illumina® (16 µM)	ACTTACAT	ATGTAAGT	AAGATACT
TransNGS® UDI Indexed Adapter 44 for Illumina® (16 µM)	GTCCGTGC	GCACGGAC	GGAGCGTC
TransNGS® UDI Indexed Adapter 45 for Illumina® (16 µM)	AAGGTACC	GGTACCTT	ATGGCATG
TransNGS® UDI Indexed Adapter 46 for Illumina® (16 µM)	GGAACGTT	AACGTTCC	GCAATGCA
TransNGS® UDI Indexed Adapter 47 for Illumina® (16 µM)	AATTCTGC	GCAGAATT	GTTCCAAT
TransNGS® UDI Indexed Adapter 48 for Illumina® (16 µM)	GGCCTCAT	ATGAGGCC	ACCTTGCC
TransNGS® UDI Indexed Adapter 49 for Illumina® (16 µM)	ATCTTAGT	ACTAAGAT	ATATCTCG
TransNGS® UDI Indexed Adapter 50 for Illumina® (16 µM)	GCTCCGAC	GTCGGAGC	GCGCTCTA
TransNGS® UDI Indexed Adapter 51 for Illumina® (16 µM)	ATACCAAG	CTTGGTAT	AACAGGTT
TransNGS® UDI Indexed Adapter 52 for Illumina® (16 µM)	GCGTTGGA	TCCAACGC	GGTGAACC
TransNGS® UDI Indexed Adapter 53 for Illumina® (16 µM)	CTTACAGG	CCGTGAAG	CAACAATG
TransNGS® UDI Indexed Adapter 54 for Illumina® (16 µM)	TCCTGTAA	TTACAGGA	TGGTGCGA
TransNGS® UDI Indexed Adapter 55 for Illumina® (16 µM)	AGAATTCC	GGCATTCT	AGGCAGAG
TransNGS® UDI Indexed Adapter 56 for Illumina® (16 µM)	GAGGCATT	AATGCCTC	GAATGAGA
TransNGS® UDI Indexed Adapter 57 for Illumina® (16 µM)	CCTCGGTA	TACCGAGG	TGCGGCGT
TransNGS® UDI Indexed Adapter 58 for Illumina® (16 µM)	TTCTAACG	CGTTAGAA	CATAATAC
TransNGS® UDI Indexed Adapter 59 for Illumina® (16 µM)	ATGAGGCT	AGCCTCAT	GATCTATC
TransNGS® UDI Indexed Adapter 60 for Illumina® (16 µM)	GCAGAATC	GATTCTGC	AGCTCGCT



接头名称	测序单i5 Index序列		测序单i7 Index序列
	Miseq, HiSeq 2000/ 2500, NovaSeq v1.0	MiniSeq, NextSeq, HiSeq 3000/4000, NovaSeq v1.5	All Illumina Systems
TransNGS® UDI Indexed Adapter 61 for Illumina® (16 µM)	CACTACGA	TCGTAGTG	CGGAAGTG
TransNGS® UDI Indexed Adapter 62 for Illumina® (16 µM)	TGTCGTAG	CTACGACA	TAAGGTCA
TransNGS® UDI Indexed Adapter 63 for Illumina® (16 µM)	ACCACTTA	TAAGTGGT	TTGCCTAG
TransNGS® UDI Indexed Adapter 64 for Illumina® (16 µM)	GTTGTCCG	CGGACAAC	CCATT CGA
TransNGS® UDI Indexed Adapter 65 for Illumina® (16 µM)	ATCCATAT	ATATGGAT	ACACTAAG
TransNGS® UDI Indexed Adapter 66 for Illumina® (16 µM)	GCTTGCGC	GCGCAAGC	GTGTCGGA
TransNGS® UDI Indexed Adapter 67 for Illumina® (16 µM)	AGTATCTT	AAGATACT	TTCTTGTT
TransNGS® UDI Indexed Adapter 68 for Illumina® (16 µM)	GACGCTCC	GGAGCGTC	CCTTCACC
TransNGS® UDI Indexed Adapter 69 for Illumina® (16 µM)	CATGCCAT	ATGGCATG	GCCACAGG
TransNGS® UDI Indexed Adapter 70 for Illumina® (16 µM)	TGCATTGC	GCAATGCA	ATTGTGAA
TransNGS® UDI Indexed Adapter 71 for Illumina® (16 µM)	ATTGGAAC	GTTCCAAT	ACTCGTGT
TransNGS® UDI Indexed Adapter 72 for Illumina® (16 µM)	GCCAAGGT	ACCTTGGC	GTCTACAC
TransNGS® UDI Indexed Adapter 73 for Illumina® (16 µM)	CGAGATAT	ATATCTCG	CAATTAAC
TransNGS® UDI Indexed Adapter 74 for Illumina® (16 µM)	TAGAGCGC	GCGCTCTA	TGGCCGGT
TransNGS® UDI Indexed Adapter 75 for Illumina® (16 µM)	AACCTGTT	AACAGGTT	AGTACTCC
TransNGS® UDI Indexed Adapter 76 for Illumina® (16 µM)	GGTTCAAC	GGTGAACC	GACGTCTT
TransNGS® UDI Indexed Adapter 77 for Illumina® (16 µM)	CATTGTTG	CAACAATG	TGCGAGAC
TransNGS® UDI Indexed Adapter 78 for Illumina® (16 µM)	TGCCACCA	TGGTGGCA	CATAGAGT
TransNGS® UDI Indexed Adapter 79 for Illumina® (16 µM)	CTCTGCCT	AGGCAGAG	ACAGGCGC
TransNGS® UDI Indexed Adapter 80 for Illumina® (16 µM)	TCTCATTC	GAATGAGA	GTGAATAT
TransNGS® UDI Indexed Adapter 81 for Illumina® (16 µM)	ACGCCGCA	TGCGGCGT	AACTGTAG
TransNGS® UDI Indexed Adapter 82 for Illumina® (16 µM)	GTATTATG	CATAATAC	GGTCACGA
TransNGS® UDI Indexed Adapter 83 for Illumina® (16 µM)	GATAGATC	GATCTATC	CTGCTTCC
TransNGS® UDI Indexed Adapter 84 for Illumina® (16 µM)	AGCGAGCT	AGCTCGCT	TCATCCTT
TransNGS® UDI Indexed Adapter 85 for Illumina® (16 µM)	CAGTCCG	CGGAACGT	AGGTTATA
TransNGS® UDI Indexed Adapter 86 for Illumina® (16 µM)	TGACCTTA	TAAGGTCA	GAACCGCG
TransNGS® UDI Indexed Adapter 87 for Illumina® (16 µM)	CTAGGCAA	TTGCCTAG	CTACCCAA
TransNGS® UDI Indexed Adapter 88 for Illumina® (16 µM)	TCGAATGG	CCATT CGA	TCTGTTGG
TransNGS® UDI Indexed Adapter 89 for Illumina® (16 µM)	CTTAGTGT	ACACTAAG	TATCGCAC
TransNGS® UDI Indexed Adapter 90 for Illumina® (16 µM)	TCCGACAC	GTGTCGGA	CGCTATGT
TransNGS® UDI Indexed Adapter 91 for Illumina® (16 µM)	AACAGGAA	TTCTTGTT	GTATGTTT
TransNGS® UDI Indexed Adapter 92 for Illumina® (16 µM)	GGTGAAGG	CCTTCACC	ACGCACCT
TransNGS® UDI Indexed Adapter 93 for Illumina® (16 µM)	CCTGTGGC	GCCACAGG	TACTCATA
TransNGS® UDI Indexed Adapter 94 for Illumina® (16 µM)	TTACAAT	ATTGTGAA	CGTCTGCG
TransNGS® UDI Indexed Adapter 95 for Illumina® (16 µM)	ACACGAGT	ACTCGTGT	TCGATATC
TransNGS® UDI Indexed Adapter 96 for Illumina® (16 µM)	GTGTAGAC	GTCTACAC	CTAGCGCT



Index选择策略

Illumina测序仪使用绿色激光测序G/T，使用红色激光测序A/C，为了保证每一个测序循环的颜色平衡。因此，在组合多种Index时，需确保每一个测序循环都有使用绿色激光和红色激光的碱基。

测序时，如果1条lane中需要的Index数小于24个，可有多种Index组合方式，推荐的可用组合有：

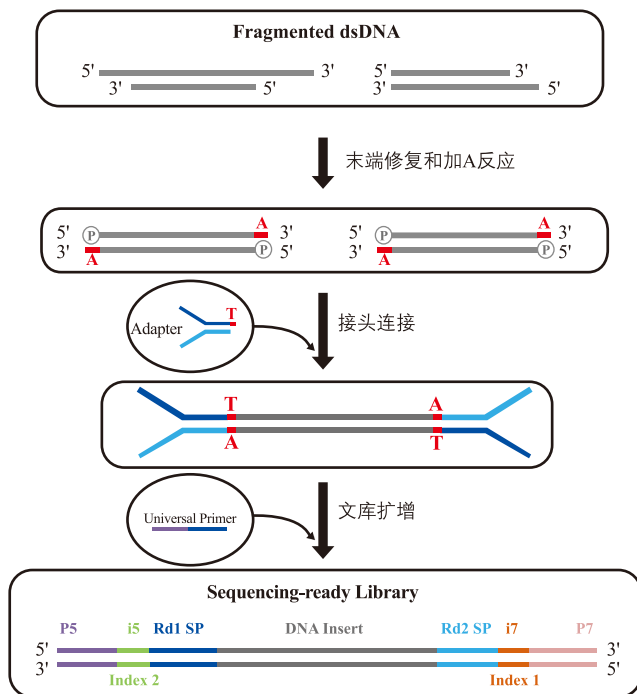
2个文库：Index 1和2；Index 25和26；Index 49和50。

3个文库：Index 3、4和5；Index 27、28和29；Index 51、52和53。

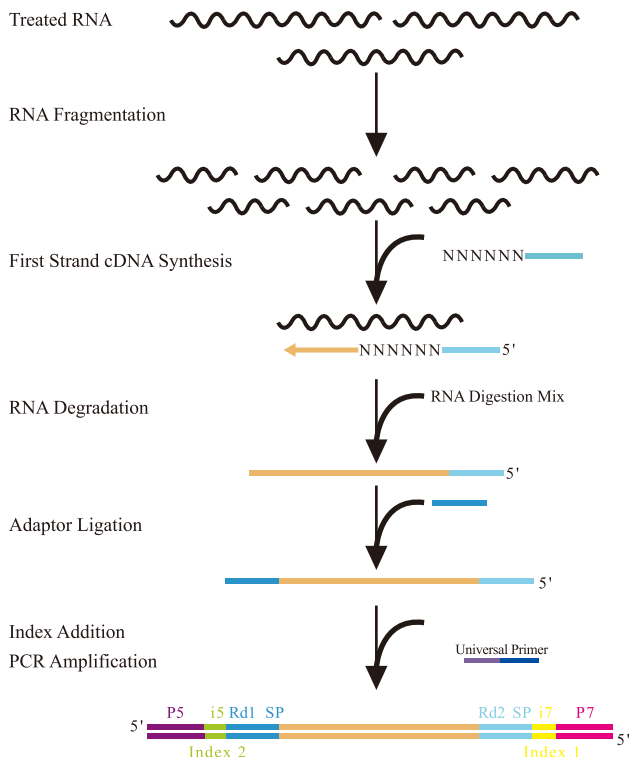
4个文库：Index 1、2、3和4；Index 27、28、29和30；Index 43、44、45和46。

附录

本试剂盒与TransNGS® DNA Library Prep Kit for Illumina®配套使用原理示意图如下：



本试剂盒与TransNGS® Fast RNA-Seq Library Prep Kit for Illumina®配套使用原理示意图如下：



本试剂盒与TransNGS® DNA Library Prep Kit for Illumina®以及TransNGS® Fast RNA-Seq Library Prep Kit for Illumina®配套使用所得文库结构如下：

5'-AATGATACGGCGACCACCGAGATCTACAC[i5]ACACTCTTTCCCTACACGACGCTCTTCCGATCT-XXXXXXXXX
-AGATCGGAAGAGCACACGTCTGAACTCCAGTCAC[i7]ATCTCGTATGCCGTCTTCTGCTTG-3'

i5: Index 2, 8 bases;

i7: Index 1, 8 bases;

-XXXXXXXX-: 插入序列。

本产品仅供研究，不用于临床诊断。

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