

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)	AGCGCTAG	CTAGCGCT	
TransNGS® UDI Indexed Adapter 2 for Illumina® (16 µM)	GATATCGA	TCGATATC	
TransNGS® UDI Indexed Adapter 3 for Illumina® (16 µM)	CGCAGACG	CGTCTGCG	
TransNGS® UDI Indexed Adapter 4 for Illumina® (16 µM)	TATGAGTA	TACTCATA	
TransNGS® UDI Indexed Adapter 5 for Illumina® (16 µM)	AGGTGCGT	ACGCACCT	
TransNGS® UDI Indexed Adapter 6 for Illumina® (16 µM)	GAACATAC	GTATGTTT	
TransNGS® UDI Indexed Adapter 7 for Illumina® (16 µM)	ACATAGCG	CGCTATGT	
TransNGS® UDI Indexed Adapter 8 for Illumina® (16 µM)	GTGCGATA	TATCGCAC	
TransNGS® UDI Indexed Adapter 9 for Illumina® (16 µM)	CCAACAGA	TCTGTTGG	
TransNGS® UDI Indexed Adapter 10 for Illumina® (16 µM)	TTGGTGAG	CTCACAA	
TransNGS® UDI Indexed Adapter 11 for Illumina® (16 µM)	CGCGTTTC	GAACCGCG	
TransNGS® UDI Indexed Adapter 12 for Illumina® (16 µM)	TATAACCT	AGGTATAT	
TransNGS® UDI Indexed Adapter 13 for Illumina® (16 µM)	AAGGATGA	TCATCCTT	
TransNGS® UDI Indexed Adapter 14 for Illumina® (16 µM)	GGAAGCAG	CTGCTTCC	
TransNGS® UDI Indexed Adapter 15 for Illumina® (16 µM)	TCGTGACC	GGTCACGA	
TransNGS® UDI Indexed Adapter 16 for Illumina® (16 µM)	CTACAGTT	AACTGTAG	
TransNGS® UDI Indexed Adapter 17 for Illumina® (16 µM)	ATATTCAC	GTGAATAT	
TransNGS® UDI Indexed Adapter 18 for Illumina® (16 µM)	GCGCCTGT	ACAGGCGC	
TransNGS® UDI Indexed Adapter 19 for Illumina® (16 µM)	ACTCTATG	CATAGAGT	
TransNGS® UDI Indexed Adapter 20 for Illumina® (16 µM)	GTCTCGCA	TGCGAGAC	
TransNGS® UDI Indexed Adapter 21 for Illumina® (16 µM)	AAGACGTC	GACGCTTT	



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	CCAGAATT	
TransNGS® UDI Indexed Adapter 24 for Illumina® (16 µM)	GTTAATTG	CAATTAAAC	ATGAGGCC	
TransNGS® UDI Indexed Adapter 25 for Illumina® (16 µM)	AACCGCGG	CCGCGGTT	ACTAAGAT	
TransNGS® UDI Indexed Adapter 26 for Illumina® (16 µM)	GGTTATAA	TTATAACC	GTCGAGC	
TransNGS® UDI Indexed Adapter 27 for Illumina® (16 µM)	CCAAGTCC	GGACTTGG	CTTGATAT	
TransNGS® UDI Indexed Adapter 28 for Illumina® (16 µM)	TTGGACTT	AAGTCCAA	TCCACGC	
TransNGS® UDI Indexed Adapter 29 for Illumina® (16 µM)	CAGTGGAT	ATCCACTG	CCGTAAG	
TransNGS® UDI Indexed Adapter 30 for Illumina® (16 µM)	TGACAAGC	GCTTGTC	TTACAGGA	
TransNGS® UDI Indexed Adapter 31 for Illumina® (16 µM)	CTAGCTTG	CAAGCTAG	GGCATCT	
TransNGS® UDI Indexed Adapter 32 for Illumina® (16 µM)	TCGATCCA	TGGATCGA	AATGCTC	
TransNGS® UDI Indexed Adapter 33 for Illumina® (16 µM)	CCTGAAC	AGTTCAGG	TACCGAGG	
TransNGS® UDI Indexed Adapter 34 for Illumina® (16 µM)	TTCAGGTC	GACCTGAA	CGTAGAA	
TransNGS® UDI Indexed Adapter 35 for Illumina® (16 µM)	AGTAGAGA	TCTCTACT	AGCCTCAT	
TransNGS® UDI Indexed Adapter 36 for Illumina® (16 µM)	GACGAGAG	CTCTCGTC	GATTCG	
TransNGS® UDI Indexed Adapter 37 for Illumina® (16 µM)	AGACTTGG	CCAAGTCT	TGCTAGTG	
TransNGS® UDI Indexed Adapter 38 for Illumina® (16 µM)	GAGTCCAA	TGGACTC	CTACGACA	
TransNGS® UDI Indexed Adapter 39 for Illumina® (16 µM)	CTAAAGCC	GGCTTAAG	TAGTGGT	
TransNGS® UDI Indexed Adapter 40 for Illumina® (16 µM)	TCCGGATT	AATCCGGA	CGACAC	
TransNGS® UDI Indexed Adapter 41 for Illumina® (16 µM)	CTGTATTA	TAATACAG	ATATGGAT	
TransNGS® UDI Indexed Adapter 42 for Illumina® (16 µM)	TCACGCCG	CGGCGTGA	CCCAAGC	
TransNGS® UDI Indexed Adapter 43 for Illumina® (16 µM)	ACTTACAT	ATGTAAGT	AAGATACT	
TransNGS® UDI Indexed Adapter 44 for Illumina® (16 µM)	GTCCGTGC	GCACGGAC	GGAGCGC	
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	ACCTGGC	
TransNGS® UDI Indexed Adapter 49 for Illumina® (16 µM)	ATCTTAGT	ACTAAGAT	ATACTCG	
TransNGS® UDI Indexed Adapter 50 for Illumina® (16 µM)	GCTCCGAC	GTCGGAGC	CCCTCTA	
TransNGS® UDI Indexed Adapter 51 for Illumina® (16 µM)	ATACCAAG	CTTGGTAT	AACAGGTT	
TransNGS® UDI Indexed Adapter 52 for Illumina® (16 µM)	GCGTTGGA	TCCAACGC	GGTGAAC	
TransNGS® UDI Indexed Adapter 53 for Illumina® (16 µM)	CTTCACGG	CCGTGAAG	CACCAATG	
TransNGS® UDI Indexed Adapter 54 for Illumina® (16 µM)	TCCTGTAA	TTACAGGA	TGCTGCA	
TransNGS® UDI Indexed Adapter 55 for Illumina® (16 µM)	AGAATGCC	GGCATCT	AGGACAG	
TransNGS® UDI Indexed Adapter 56 for Illumina® (16 µM)	GAGGCATT	AATGCCTC	GATGAGA	
TransNGS® UDI Indexed Adapter 57 for Illumina® (16 µM)	CCTCGGTA	TACCGAGG	TCCGCCGT	
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	CGGACIG
TransNGS® UDI Indexed Adapter 62 for Illumina® (16 µM)	TGTCGTAG	CTACGACA	TAAGGICA
TransNGS® UDI Indexed Adapter 63 for Illumina® (16 µM)	ACCACCTTA	TAAGTGGT	TTCCTAG
TransNGS® UDI Indexed Adapter 64 for Illumina® (16 µM)	GTTGTCCG	CGGACAAC	CCATTGGA
TransNGS® UDI Indexed Adapter 65 for Illumina® (16 µM)	ATCCATAT	ATATGGAT	ACACTAAG
TransNGS® UDI Indexed Adapter 66 for Illumina® (16 µM)	GCTTGCGC	GCGCAAGC	GIGTCGA
TransNGS® UDI Indexed Adapter 67 for Illumina® (16 µM)	AGTATCTT	AAGATACT	TTCIGIT
TransNGS® UDI Indexed Adapter 68 for Illumina® (16 µM)	GACGCTCC	GGAGCGTC	CCTTACC
TransNGS® UDI Indexed Adapter 69 for Illumina® (16 µM)	CATGCCAT	ATGGCATG	CCCACAG
TransNGS® UDI Indexed Adapter 70 for Illumina® (16 µM)	TGCAITGC	GCAATGCA	ATTGAGAA
TransNGS® UDI Indexed Adapter 71 for Illumina® (16 µM)	ATTGGAAC	GTTCCAAT	ACTGIGT
TransNGS® UDI Indexed Adapter 72 for Illumina® (16 µM)	GCCAAGGT	ACCTTGGC	GICACAC
TransNGS® UDI Indexed Adapter 73 for Illumina® (16 µM)	CGAGATAT	ATATCTCG	CAATTAC
TransNGS® UDI Indexed Adapter 74 for Illumina® (16 µM)	TAGAGCGC	GCGCTCTA	TGCGCGT
TransNGS® UDI Indexed Adapter 75 for Illumina® (16 µM)	AACCTGTT	AACAGGTT	AGTACTCC
TransNGS® UDI Indexed Adapter 76 for Illumina® (16 µM)	GGTTCACC	GGTGAACC	GACGICTT
TransNGS® UDI Indexed Adapter 77 for Illumina® (16 µM)	CATTGTTG	CAACAATG	TGGAGAC
TransNGS® UDI Indexed Adapter 78 for Illumina® (16 µM)	TGCCACCA	TGGTGGCA	CATAGAGT
TransNGS® UDI Indexed Adapter 79 for Illumina® (16 µM)	CTCTGCCT	AGGCAGAG	ACAGGCC
TransNGS® UDI Indexed Adapter 80 for Illumina® (16 µM)	TCTCATTC	GAATGAGA	GIGATAT
TransNGS® UDI Indexed Adapter 81 for Illumina® (16 µM)	ACGCCGCA	TGCGGCGT	AACIGTAG
TransNGS® UDI Indexed Adapter 82 for Illumina® (16 µM)	GTATTATG	CATAATAC	GGCACGA
TransNGS® UDI Indexed Adapter 83 for Illumina® (16 µM)	GATAGATC	GATCTATC	CTGCTCC
TransNGS® UDI Indexed Adapter 84 for Illumina® (16 µM)	AGCGAGCT	AGCTCGCT	TCACTCTT
TransNGS® UDI Indexed Adapter 85 for Illumina® (16 µM)	CAGTCCG	CGGAAC TG	AGGTATA
TransNGS® UDI Indexed Adapter 86 for Illumina® (16 µM)	TGACCTTA	TAAGGTCA	GACCCG
TransNGS® UDI Indexed Adapter 87 for Illumina® (16 µM)	CTAGGCAA	TTGCC TAG	CTCCAA
TransNGS® UDI Indexed Adapter 88 for Illumina® (16 µM)	TGCAATGG	CCATTGGA	TCGNGG
TransNGS® UDI Indexed Adapter 89 for Illumina® (16 µM)	CTTAGTGT	ACACTAAG	TATCCAC
TransNGS® UDI Indexed Adapter 90 for Illumina® (16 µM)	TCCGACAC	GTGTCGGA	CCCTAGT
TransNGS® UDI Indexed Adapter 91 for Illumina® (16 µM)	AACAGGAA	TTCTGTGT	GTAIGTC
TransNGS® UDI Indexed Adapter 92 for Illumina® (16 µM)	GGTGAAGG	CCTTACC	ACCACT
TransNGS® UDI Indexed Adapter 93 for Illumina® (16 µM)	CCTGTGGC	GCCACAGG	TACTATA
TransNGS® UDI Indexed Adapter 94 for Illumina® (16 µM)	TTCACAAT	ATTGTGAA	CGCTCGG
TransNGS® UDI Indexed Adapter 95 for Illumina® (16 µM)	ACACGAGT	ACTCGTGT	TGATATC
TransNGS® UDI Indexed Adapter 96 for Illumina® (16 µM)	GTGTAGAC	GTCTACAC	CTACCTT



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：

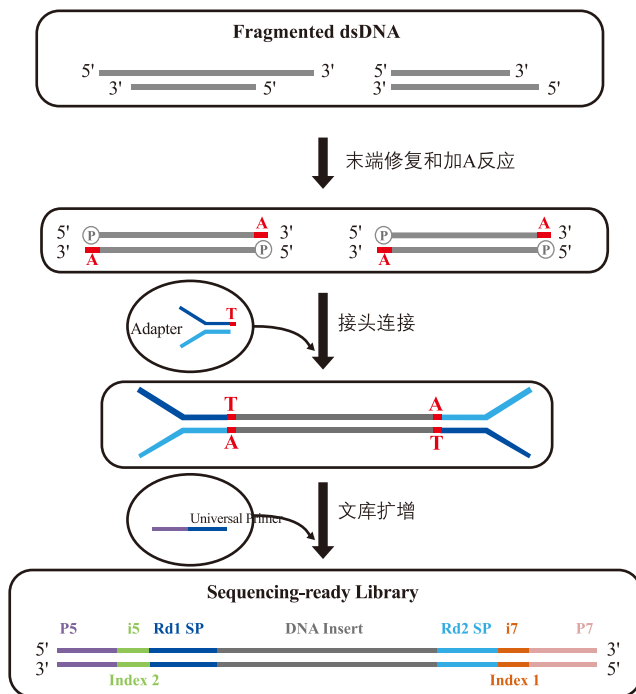
2个文库：Index 1和2；Index 25和26；Index 49和50。

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

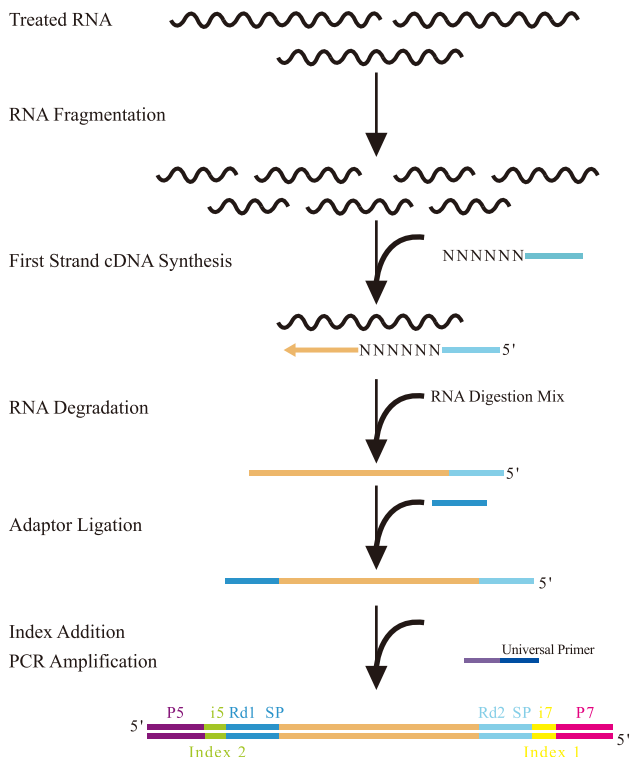
4个文库：Index 1、2、3和4；Index 27、28、29和30；Index 43、44、45和46。

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'-AATGATACGCGACCACCGAGATCTACAC[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。

版本号: V1-202312

服务电话 +86-10-57815020

服务邮箱 complaints@transgen.com

