


Hieff NGS™ Complete Adapter Kit for Illumina, Set 1

13519

INSTRUCTIONS FOR USE

Ver. HB230113

A decorative graphic at the bottom of the page consisting of several overlapping, wavy shapes in various shades of orange, creating a modern, abstract background.

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Product description

HiEff NGS™ Complete Adapter Kit for Illumina are designed for use with DNA and RNA library preparation kits to prepare libraries for sequencing on an Illumina sequencer. Complete Adapter Kit contains 2 sets. Each set has 48 adapters labelled with 8-nucleotide indexes (barcode) for multiplexed sequencing applications. Set 1 contains DNA Adapters 01-48. All the reagents provided in the kit have strictly quality controlled and functional verification, which ensures the stability and repetitiveness of the library preparation to the greatest extent.

Components

Components No.	Name	13519ES04 (48×4T)	13519ES16 (48×16T)
13519	DNA Adapter 01-48	14 µL each	56 µL each

Specifications

Product Type	Adapter Kit
Libraries	DNA or RNA Library
Input DNA amount	100 pg - 1000 ng
Input RNA amount	10 ng-4 µg
Instrument compatibility	Illumina Platforms
Application	NGS library preparation
Quantity	192/768 Reactions

Storage

-25°C ~ -15°C storage, valid for 18 months.

Notes

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. In Complete Adapter Kit for Illumina, the concentration of adapters is 15 µM. The usage of adapters is adjustable to meet the require of different library preparation kits and input DNA.
3. Each adapter contains Universal Adapter and one Unique Index (barcode) for multiplexed sequencing applications
4. Complete Adapter Kit contains 2 sets. Each set has 48 adapters labelled with 8-nucleotide indexes (barcode) for multiplexed sequencing applications. 2 sets can be used to prepare 96 kinds of single-end indexed libraries in total.
5. Do not heat the adapters. Please thaw the adapters at room temperature. The best room temperature is 20-25°C. To avoid repeated freeze-thawing, it is recommended to store as divided package, which can be stored briefly at 4°C.
6. The DNA library structure prepared by t Complete Adapter Kit is as follows:





7. For research use only!

Sequence information

The sequences of DNA Adapter for Illumina:

Universal Adapter:

5' -AATGATACGGCGACCACCGAGATCTACACTCTTTCCCTACACGACGCTCTCCGATCT-3'

index Adapter:

5' -GATCGGAAGAGCACACGTCTGAACTCCAGTCACXXXXXXXXATCTCGTATGCCGTCTTCTGCTTG-3'

XXXXXXXX₁ represent the 8-nucleotide indexes (barcodes), which used in Sample Sheet, are listed in the Table below:

DNA Adapter	Index	DNA Adapter	Index	DNA Adapter	Index	DNA Adapter	Index
DNA Adapter 01	AACGTGAT	DNA Adapter 25	AGATCGCA	DNA Adapter 49	GATAGACA	DNA Adapter 73	AATGTTGC
DNA Adapter 02	AAACATCG	DNA Adapter 26	AGCAGGAA	DNA Adapter 50	GCCACATA	DNA Adapter 74	ACACGACC
DNA Adapter 03	ATGCCTAA	DNA Adapter 27	AGTCACTA	DNA Adapter 51	GCGAGTAA	DNA Adapter 75	ACAGATTC
DNA Adapter 04	AGTGGTCA	DNA Adapter 28	ATCCTGTA	DNA Adapter 52	GCTAACGA	DNA Adapter 76	AGATGTAC
DNA Adapter 05	ACCACTGT	DNA Adapter 29	ATTGAGGA	DNA Adapter 53	GCTCGGTA	DNA Adapter 77	AGCACCTC
DNA Adapter 06	ACATTGGC	DNA Adapter 30	CAACCACA	DNA Adapter 54	GGAGAACA	DNA Adapter 78	AGCCATGC
DNA Adapter 07	CAGATCTG	DNA Adapter 31	GACTAGTA	DNA Adapter 55	GGTGC GAA	DNA Adapter 79	AGGCTAAC
DNA Adapter 08	CATCAAGT	DNA Adapter 32	CAATGGAA	DNA Adapter 56	GTACGCAA	DNA Adapter 80	ATAGCGAC
DNA Adapter 09	CGCTGATC	DNA Adapter 33	CACTTCGA	DNA Adapter 57	GTCGTAGA	DNA Adapter 81	ATCATTCC
DNA Adapter 10	ACAAGCTA	DNA Adapter 34	CAGCGTTA	DNA Adapter 58	GTCTGTCA	DNA Adapter 82	ATTGGCTC
DNA Adapter 11	CTGTAGCC	DNA Adapter 35	CATACCAA	DNA Adapter 59	GTGTTCTA	DNA Adapter 83	CAAGGAGC
DNA Adapter 12	AGTACAAG	DNA Adapter 36	CCAGTTCA	DNA Adapter 60	TAGGATGA	DNA Adapter 84	CACCTTAC
DNA Adapter 13	AACAACCA	DNA Adapter 37	CCGAAGTA	DNA Adapter 61	TATCAGCA	DNA Adapter 85	CCATCCTC
DNA Adapter 14	AACCGAGA	DNA Adapter 38	CCGTGAGA	DNA Adapter 62	TCCGTCTA	DNA Adapter 86	CCGACAAC
DNA Adapter 15	AACGCTTA	DNA Adapter 39	CCTCCTGA	DNA Adapter 63	TCTTCACA	DNA Adapter 87	CCTAATCC
DNA Adapter 16	AAGACGGA	DNA Adapter 40	CGAACTTA	DNA Adapter 64	TGAAGAGA	DNA Adapter 88	CCTCTATC
DNA Adapter 17	AAGGTACA	DNA Adapter 41	CGACTGGA	DNA Adapter 65	TGGAACAA	DNA Adapter 89	CGACACAC
DNA Adapter 18	ACACAGAA	DNA Adapter 42	CGCATACA	DNA Adapter 66	TGGCTTCA	DNA Adapter 90	CGGATTGC
DNA Adapter 19	ACAGCAGA	DNA Adapter 43	CTCAATGA	DNA Adapter 67	TGGTGGTA	DNA Adapter 91	CTAAGGTC
DNA Adapter 20	ACCTCCAA	DNA Adapter 44	CTGAGCCA	DNA Adapter 68	TTCACGCA	DNA Adapter 92	GAACAGGC
DNA Adapter 21	ACGCTCGA	DNA Adapter 45	CTGGCATA	DNA Adapter 69	AACTCACC	DNA Adapter 93	GACAGTGC
DNA Adapter 22	ACGTATCA	DNA Adapter 46	GAATCTGA	DNA Adapter 70	AAGAGATC	DNA Adapter 94	GAGTTAGC
DNA Adapter 23	ACTATGCA	DNA Adapter 47	CAAGACTA	DNA Adapter 71	AAGGACAC	DNA Adapter 95	GATGAATC
DNA Adapter 24	AGAGTCAA	DNA Adapter 48	GAGCTGAA	DNA Adapter 72	AATCCGTC	DNA Adapter 96	GCCAAGAC



To enable success of our customers
Together to make a healthier and brighter world

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