

Custom NGS Adapters

Custom NGS Adapters are for use in DNA library preparation for Illumina® platform sequencing. They are optimized for specific NGS projects through customization of indexing strategy, such as:

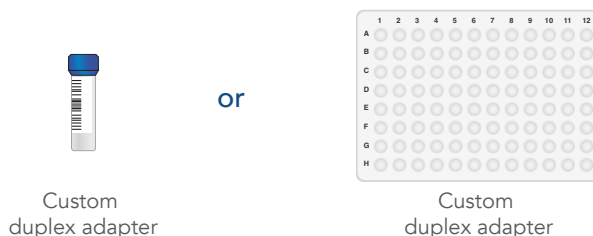
- Single Index (SI)
- Unique Dual Index (UDI)
- Combinatorial Dual Index (CDI)
- Both Unique Dual Index and Unique Molecular Identifier (UDI-UMI)

Custom NGS Adapters are provided in 1 of 3 attachment types

Both TruSeq™- and Nextera™- Compatible Adapters are available (Figure 1).

TruSeq™–Compatible Full-length Adapters

(addition by ligation)



TruSeq™–Compatible Stubby Adapter and Indexing Primers

(addition by ligation and PCR)



Nextera™–Compatible Indexing Primers

(addition by tagmentation and PCR)

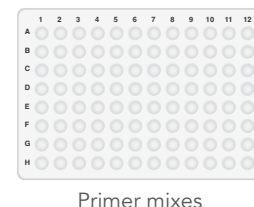
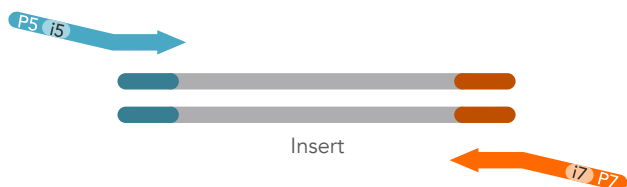


Figure 1. Custom NGS Adapter structures.

Options for specifying the size and delivery format, as well as the option for methylation and/or TruGrade processing are also available.

The Custom Adapter Configurator guides you through the selection of these options.

For more details, see www.idtdna.com/custom-ngs-adapters.

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Custom NGS Adapters are provided as either a primer mix or duplexed oligos in tubes or plates.

Components	Format	Diluent
TruSeq™–Compatible Indexing Primers (used with TruSeq™–Compatible Stubby Adapters)	Oligo mixes	IDTE, pH 8.0
Nextera™–Compatible Primers		(1X TE solution: 10 mM Tris, 0.1 mM EDTA, pH 8.0)
TruSeq™–Compatible Full-Length Adapters	Duplexed oligos	Nuclease-free Duplex Buffer
TruSeq™–Compatible Stubby Adapters (used with TruSeq™–Compatible Indexing Primers)		(30 mM HEPES, pH 7.5; 100 mM potassium acetate)

Amounts are based on the selected mass (2, 8, or 24 nmol) or reaction number (16 or 96 reactions).

Adapter or primers	Concentration (µM)	1 reaction (nmol)
TruSeq™–Compatible Full-length Adapters	15	0.075
TruSeq™–Compatible Stubby Adapter	15	0.075
TruSeq™–Compatible Indexing Primers	10	0.050
Nextera™–Compatible Indexing Primers	10	0.050

Note: The concentration of adapters needed depends on the amount of input DNA and the kit used for library preparation. Please follow the instructions of the library kit manufacturer when using NGS Custom Adapters. For additional guidance, contact us by visiting www.idtdna.com/ContactUs.

A link to files for the selected IDT 8, IDT 10, ILMN 8, or ILMN 10 index sets is available upon order. The IDT 8, IDT 10, and ILMN 8 index files can also be found on the Resources tab of the [Custom NGS Adapters product page](#).

Visit the [IDT Usage, warranty & licensing page](#) for specific information about Illumina trademarks.

Shipping, handling, and storage

Custom NGS Adapters are shipped on dry ice. Upon receipt, immediately store the adapters at –25°C to –15°C.

Thaw adapters on wet ice before use. Keep adapters on ice at all times. Do not heat adapters above room temperature (15–25°C).

For more information, go to www.idtdna.com/ContactUs

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