

DNASCRIPT

SYNTAX 96 HI-FIDELITY KITS

FOR USE WITH THE SYNTAX™
SYSTEM, MODEL STX-200

Cat. No. 101867 SYNTAX DNA
Synthesis Kit

Cat. No. 101868 SYNTAX 96
Hi-Fidelity Run Kit

Cat. No. 101870 SYNTAX 96 Hi-Fidelity
Run Kit, Custom iDNA, pack of 8

The SYNTAX 96 Hi-Fidelity Kits include the reagent and consumables required for the parallel enzymatic synthesis of 96 ready-to-use DNA oligos of up to 120 nucleotides (nt) in length and are intended for use in applications requiring high sequence accuracy, such as gene assembly, protein mutagenesis, or CRISPR gene editing. Rapid setup and printing of oligos enable same or next-day use in downstream workflows. The synthesis and run kit are both required for oligo synthesis using the SYNTAX System.

HIGHLIGHTS

- Flexible runs: Synthesize up to 96 unlabeled DNA oligos ≤ 120 nt in one run or up to 384 oligos ≤ 30 nt in four¹ runs using the SYNTAX DNA Synthesis Kit. Each run requires one SYNTAX 96 Hi-Fidelity Run Kit.
- Fast setup and synthesis: Set up a run in approximately 15-30 minutes and oligos are ready in 5-24 hours depending on length.
- Application-ready output: Oligos are desalted and normalized in molecular biology grade water and suitable for downstream Research and Development applications such as gene assembly, protein mutagenesis, or CRISPR-based gene editing.
- Custom iDNA kit: Add a custom leading 5' DNA sequence of up to 45nt to all oligos synthesized (maximum total length of 165nt) using the SYNTAX 96 Hi-Fidelity Run Kit, Custom iDNA (sold separately).



SPECIFICATIONS

Turnaround time	<ul style="list-style-type: none">• Approximately 7.5 hours for 96 x 30mer oligos• Approximately 24 hours for 96 x 120mer oligos
Oligo length	<ul style="list-style-type: none">• 15-120 nucleotides
Yield and concentration	<ul style="list-style-type: none">• ≥ 200 pmol and ≥ 5 μM ($\geq 95\%$ of wells)*
Bases	<ul style="list-style-type: none">• Unmodified A, T, G, and C
Degenerate bases	<ul style="list-style-type: none">• Yes, all IUPAC codes (R, Y, M, K, S, W, H, B, V, D, N)
Error rate (per base)	<ul style="list-style-type: none">• Approximately 0.4%

* For oligos determined to be of standard synthesis difficulty by the Console Software.

¹ Runs must be performed within 7 days.

KIT COMPONENTS

SYNTAX DNA Synthesis Kit	
Box 1 of 3: Synthesis Reagents	<ul style="list-style-type: none"> Includes the S1 & S2 synthesis reagents for the SYNTAX DNA Synthesis Kit Store at 4°C (shipped at room temperature)
Box 2 of 3: Synthesis Reagents	<ul style="list-style-type: none"> Includes the S3 and S4 synthesis reagents for the SYNTAX DNA Synthesis Kit Store at room temperature (shipped at room temperature)
Box 3 of 3: Synthesis Nucleotides & Enzyme	<ul style="list-style-type: none"> Includes the nucleotides and enzyme reagents for the SYNTAX DNA Synthesis Kit Store at -20°C (shipped on dry ice)

SYNTAX 96 Hi-Fidelity Run Kit (and Custom iDNA version)	
Box 1 of 3: Post-Processing Reagents	<ul style="list-style-type: none"> Includes the post-processing reagents P1, P2, P4 and P5 for the SYNTAX 96 Hi-Fidelity Run Kit Store at room temperature (shipped at room temperature)
Box 2 of 3: Post-Processing Enzymes	<ul style="list-style-type: none"> Includes the post-processing enzymes P1E and P2E for the SYNTAX 96 Hi-Fidelity Run Kit Store at -20°C (shipped on dry ice)
Box 3 of 3: Consumables	<ul style="list-style-type: none"> Includes one Hi-Fidelity iDNA Plate Set or Custom iDNA Plate Set for the SYNTAX 96 Hi-Fidelity Run Kit Store at 4°C (shipped at room temperature)

RELATED ITEMS

ITEM	CATALOG NUMBER
SYNTAX System, Model STX-200	101773

FOR MORE INFORMATION

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