

## SYNTAX 384 HI-PLEX KIT

FOR USE WITH THE SYNTAX<sup>®</sup>  
SYSTEM MODEL STX-200

Cat No. 102294 SYNTAX DNA  
Synthesis Kit

Cat No. 102223 SYNTAX 384  
Hi-Plex Run Kit



The SYNTAX 384 Hi-Plex Run and SYNTAX Synthesis Kits include the reagents and consumables required for enzymatic synthesis of ready-to-use oligos. Synthesize as many as 384 oligos (up to 60 nt) or 288 oligos (up to 80 nt) in a single SYNTAX 384 Hi-Plex run. The SYNTAX 384 Hi-Plex kit is intended for use in applications such as high-throughput gene synthesis and high-throughput mutagenesis.

### HIGHLIGHTS

- High-throughput, fast turnaround time: Synthesize up to 384 oligos in 1 run and in under 24 hours.
- High quality, ready-to-use oligos: Get ready-to-use oligos of up to 80 nt in length at industry-level quality.
- Low hands-on time, high automation: Streamline your entire workflow with <1hr hands-on time, automated synthesis and semi-automated desalting.
- Safe synthesis free from hazardous organic chemicals: Use a technology based on enzymatic DNA synthesis.

### SPECIFICATIONS

Maximum throughput per run	Up to 384 oligos <sup>1</sup>
Oligo length	From 15 nt up to 80 nt <sup>2</sup>
Coupling efficiency	99.5% <sup>2</sup>
Yield	≥80 pmol (95% confidence interval)
Concentration	≥2.5 μM (95% confidence interval)
Run time	< 24hrs <sup>3</sup>
Bases	Unmodified A, T, G, and C
Degenerate bases allowed?	No
Labeled bases allowed?	No

<sup>1</sup> In single run run, it is possible to synthesize either a maximum of 384 oligos of 60 nt each or a maximum of 288 oligos of 80 nt each.

<sup>2</sup> The average coupling efficiency was determined based on oligonucleotides with a sequence difficulty categorized as "standard" by Console software. Note that complex motifs may impact average coupling efficiency.

<sup>3</sup> Exact run time depends on the number of oligos and oligo length.

## KIT COMPONENTS

SYNTAX DNA Synthesis Kit – Cat. No. 102294	
Box 1 of 3: Synthesis Reagents	<ul style="list-style-type: none"><li>• Includes synthesis reagents (S1, S2)</li><li>• Store at 4°C (shipped at room temperature)</li></ul>
Box 2 of 3: Synthesis Reagents	<ul style="list-style-type: none"><li>• Includes synthesis reagents (S3, S4)</li><li>• Store at room temperature (shipped at room temperature)</li></ul>
Box 3 of 3: Synthesis Nucleotides & Enzyme	<ul style="list-style-type: none"><li>• Includes synthesis nucleotides (dA, dT, dC, dG) and synthesis enzymes (S1E, S4E)</li><li>• Store at -20°C (shipped on dry ice)</li></ul>

SYNTAX 384 Hi-Plex Run Kit – Cat. No. 102223	
Box 1 of 3: Post-Processing Reagents	<ul style="list-style-type: none"><li>• Includes the post-processing reagents (P1, P2, P4, P5)</li><li>• Store at room temperature (shipped at room temperature)</li></ul>
Box 2 of 3: Post-Processing Enzymes	<ul style="list-style-type: none"><li>• Includes the post-processing enzymes (P1E, P2E)</li><li>• Store at -20°C (shipped on dry ice)</li></ul>
Box 3 of 3: Consumables	<ul style="list-style-type: none"><li>• Includes one 384 Hi-Plex Plate Set (One synthesis and desalting plate unit, and one oligo plate unit), and one adhesive plate sealing film</li><li>• Store at 4°C (shipped at room temperature)</li></ul>

## RELATED ITEMS

ITEM	CATALOG NUMBER
SYNTAX System, Model STX-200	101773
SYNTAX 96 standard Run Kit	101869
SYNTAX 96 Hi-Fidelity Run Kit	101868

## FOR MORE INFORMATION

### Headquarters

DNA Script SAS  
Immeuble Okabé - 67, avenue de Fontainebleau  
94270 Le Kremlin-Bicêtre, France  
Simplified joint-stock company with capital of 81,206.50 €  
801 172 834 RCS Créteil

support@DNAScript.co  
[DNAScript.com](https://DNAScript.com)

# DNAScript

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