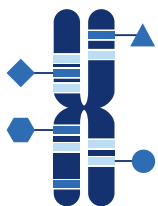


Fast-track primer design and transform your laboratory with the benefits of microfluidics

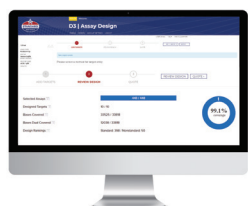
D3 Assay Design

Automated microfluidics-based workflows for genomic analysis applications help streamline laboratory methods and substantially reduce costs. Simplify panel development with the D3™ assay design website. Powerful algorithms enable you to define parameters for targeted NGS library prep, genotyping and gene expression assays. For researchers who value the carefully selected targets included in our Advanta™ Solid Tumor NGS Library Prep Assay or Advanta Sample ID Genotyping Panel but wish to add or substitute primer pairs, the D3 assay design tool enables easy modification for your desired content.



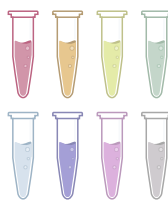
Define.

Define your targets.



Design.

D3 designs a panel driven by user-identified parameters.



Deliver.

We deliver the ideal primers for your NGS, genotyping or gene expression research.

HIGHLIGHTS

- **Simplify the complex**
Confidently develop custom PCR and NGS library prep panels with a robust design algorithm that provides optimal primer performance for your projects.
- **Design quickly**
Use the intuitive D3 design interface to create any size panel in 2 days or less.
- **Connect to support**
Easily engage with our design experts for assistance with challenging target designs and project-specific needs.

The microfluidics advantage

All D3 custom assays are preformulated in 96- or 384-well plates and designed to integrate seamlessly with Standard BioTools™ microfluidics-based systems. Simply load samples and assays into the integrated fluidic circuit (IFC), then place the IFC into the instrument where reagent mixing and chemistry proceed. IFC technology significantly minimizes pipetting steps, hands-on time and reagent consumption while maximizing efficiency and cost savings.

Figure 1. Flexible nanoscale platforms for genomics workflows. The X9™ High-Throughput Genomics System is our flagship system for PCR-based applications, including genotyping, gene expression and copy number variation. Use the Juno™ instrument for automated NGS library prep and as a universal IFC controller for all IFCs. D3 delivers custom assays formulated for use with our extensive portfolio of application and throughput-specific IFCs.



The X9 System

Choose the assay type appropriate for your project and instrument workflow.



SNP TYPE™ ASSAYS

Cost-effective single-nucleotide polymorphism (SNP) genotyping assays with performance comparable to TaqMan genotyping assays

For use on X9 System and Biomark™ and EP1™ systems



TARGETED DNA SEQ LIBRARY ASSAYS

Highly multiplexed targeted NGS sequencing primers for use with Advanta NGS Library Prep chemistry on Illumina® systems

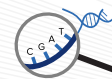
For use on Juno and Access Array™ systems



DELTA GENE™ ASSAYS

High-quality, economical real-time PCR gene expression assays with performance comparable to TaqMan gene expression assays. Assays are offered with or without wet-lab testing for human or mouse panels.

For use on X9 and Biomark systems

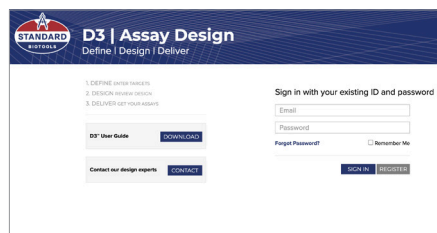


ACCESS ARRAY TARGET-SPECIFIC PRIMERS

Targeted NGS sequencing primers for use with Access Array chemistry on Illumina systems. Analyze up to 480 targets at a time with the NGS LP 48.48 IFC.

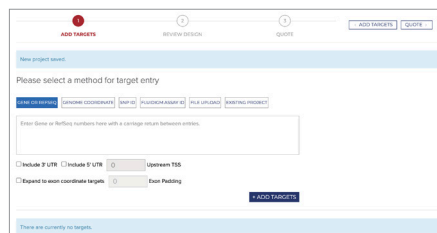
For use on Access Array systems

It's easy to create a custom panel with D3 assay design



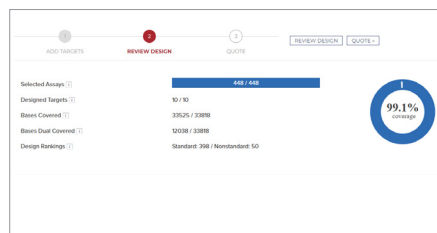
1

Create an account at d3.standardbio.com.



2

Select your assay type and define your targets of interest. D3 accepts a variety of targets such as gene names and user-provided sequences. Design results are sent to you within 48 hours.



3

Review the design results and make any necessary modifications. Finalize your panel by requesting a quote from your sales representative.



4

We will manufacture and deliver your assays that work seamlessly with Standard BioTools reagents and protocols.

We're here to help with your custom panel design needs

Our dedicated D3 Assay Design Group provides support for custom panels and is available to answer any inquiries. Three easy channels are available to connect for support.

1 Email

Email the Assay Design Group at assay_design_group@standardbio.com.

2 Ask

Ask a question from the D3 assay design portal on standardbio.com/d3.

3 Contact

Contact your local sales representative or field application specialist.

Learn more at standardbio.com/d3

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