

# SureDesign

The Next Generation Design Tool  
From the Leader in NGS Target Enrichment

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[agilent.com/genomics/suredesign](http://agilent.com/genomics/suredesign)

## Introducing SureDesign—The Next Generation Design Tool

An enhanced design application for customizing genomic targets for clinical research. With this web-based tool researchers can quickly generate exceptionally-flexible designs for high-performance targeted re-sequencing, utilizing both HaloPlex and SureSelect products.



Creating custom designs  
for SureSelect and HaloPlex  
has never been so easy  
and intuitive!

### Transform your NGS Design Experience

- Create** Create designs for SureSelect and HaloPlex in 5 minutes.
- Collaborate** Share your designs with collaborators.
- Explore** Review previous designs on your personal homepage and browse our community of catalog and custom designs.

## Create your Design is 5 minutes

1 Input gene ID, name, and coordinate



2 Review and submit design



3 Receive design report in minutes



## 1. Input gene ID/name/coordinate

Enter target regions or upload file

Select the options for regions of interest and flanking bases

Databases

The screenshot shows the 'Targets' list with genes like AKT1, BRAF, CDH1, CDK4, CDK6, CTNNA1, EGFR, ERBB2, ERBB3, ERBB4, FGFR1, FGFR2, and FGFR3. Below it, the 'Databases' section has checkboxes for RefSeq, Ensembl, CCDS, Gencode, and VEGA. The 'Regions of Interest' section includes radio buttons for 'Coding Exons', 'Coding Exons + UTRs', and 'Entire Transcribed Region', with 'Coding Exons' selected. There are also checkboxes for '5' UTR' and '3' UTR'. The 'Include Flanking Bases' section has dropdown menus for '3': and '5': both set to '10' bp.

## 2. Review/design/submit

Review the design summary and download the design details and bed files which can be uploaded into genome browsers for review before submitting the design.

## 3. Receive design report in minutes

The PDF report for a HaloPlex catalog design contains summary information on the design and the coverage for each target region.

The screenshot shows a 'HaloPlex Design Report' with sections for 'General Information', 'Design Information', 'Target Summary', 'Amplicon Summary', and 'Target Parameters'. Green callouts point to 'Design Overview' (General Information), 'Target Summary Detail' (Target Summary), and 'Target Summary Detail' (Amplicon Summary).

Target ID	Regions	Coverage	High Coverage (>= 90%)	Low Coverage (< 90%)
AKT1	14	100.00 %	14	0
BRAF	21	99.39 %	20	1
CDH1	17	99.68 %	17	0
CDH1	13	100.00 %	13	0
CDK4	8	100.00 %	8	0
CDK6	7	99.29 %	7	0

Create your design now in 5 minutes:  
[agilent.com/genomics/suredesign](http://agilent.com/genomics/suredesign)

Scan the QR code with your smartphone for more information about Agilent SureDesign.



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