

# SureGuide Cas9 Programmable Nuclease Kit

## Data Sheet

### Key Features

- CRISPR/Cas *in vitro* system in a complete and ready-to-use kit
  - Perform unrestricted *in vitro* **cloning of large DNA fragments** without the limitations imposed by common Restriction Enzymes or PCR
  - Clone complex DNA libraries with high specificity
  - Blunt ends ready for the next molecular step
- Fast & Easy synthesis and purification of guide RNAs with a single kit
- Free SureDesign CRISPR guide gRNA design workspace identifies gRNAs for any input sequence



The SureGuide Cas9 Programmable Nuclease Kit is the basis of the next-generation genetic engineering tool set.

The full kit contains a purified, recombinant Cas9 *S. pyogenes* nuclease, the SureGuide gRNA *in vitro* expression and purification system, control target and sgRNA templates, and all the necessary reagents to get you started with the CRISPR/Cas9 system. Agilent's SureGuide product line provides a set of tools for genetic engineering that are extensively validated by our scientists, allowing you to obtain results you can be sure of.

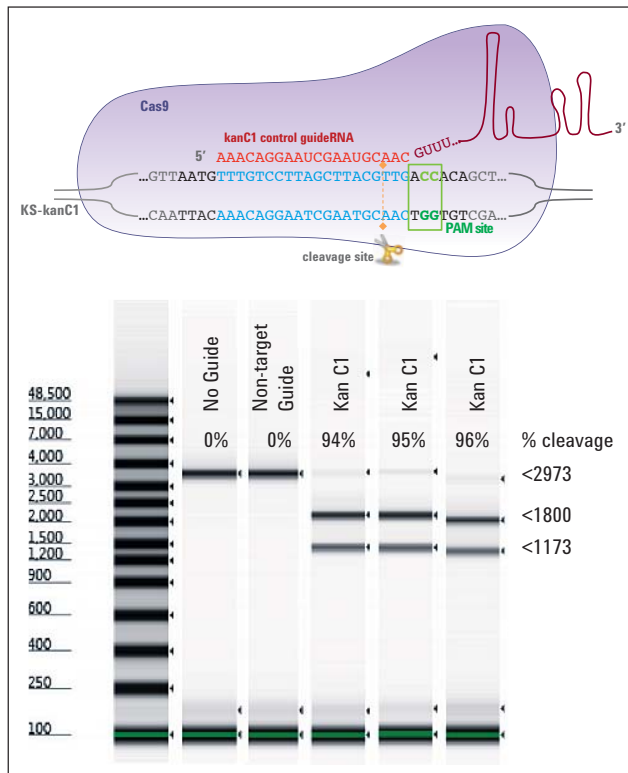
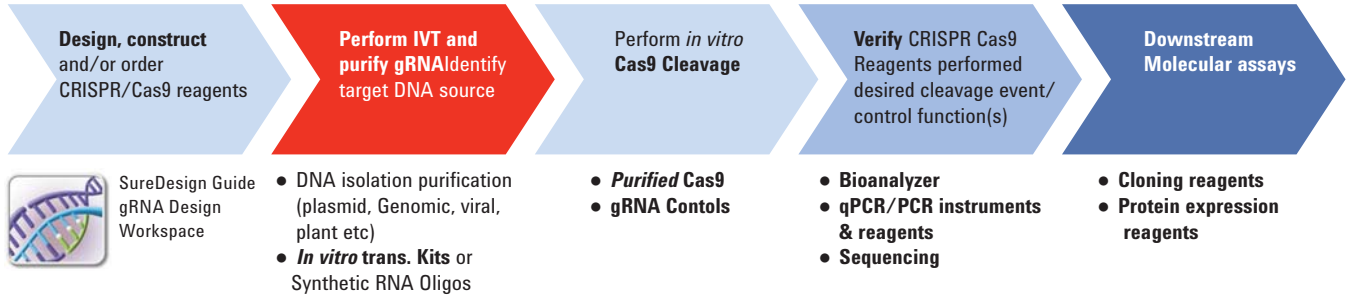
The only complete, *in vitro* CRISPR/Cas9 system that contains everything you need to immediately explore and benefit from this new technology.

Enjoy faster start-up times, and better results.



**Agilent Technologies**

## Cas9 programmable nuclease experimental workflow



**Figure 2.** Cas9 digestion of KanC1 linear plasmid with three KanC1 Guide RNA controls (5190-7718) analyzed on the Agilent TapeStation. Cleavage is typically greater than 90%.

PN	Description	Enzyme & Buffer	sgRNA Control	IVT
5190-7714	SureGuide CRISPR/Cas Complete Kit, 40rx	✓	✓	✓
5190-7719	SureGuide gRNA Synthesis Kit, 50rx			✓
5190-7717	SureGuide Cas9 Programmable Nuclease, 100rx	✓		
5190-7718	SureGuide gRNA Control Kit, 20rx		✓	
5190-7715	SureGuide Cas9 Programmable Nuclease Kit, 20rx	✓	✓	
5190-7716	SureGuide Cas9 Programmable Nuclease Kit, 100rx	✓	✓	

Free gRNA Design Workspace tool, in SureDesign, identifies gRNAs for any input sequence. Start your design today: [www.agilent.com/genomics/suredesign](http://www.agilent.com/genomics/suredesign)

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