



Great Gene Editing Results Start Here

Edit



REQUEST YOUR CAS9 SAMPLE

www.lucigen.com/Sample-Cas9

CRISPRcraft™ S.p. Cas9 Nuclease

- Recombinant wild-type *Streptococcus pyogenes* Cas9 nuclease, with NLS
- Ideal for efficient RNP-based delivery of Cas9/gRNA complexes
- High concentration (10 mg/mL, 62 μM) compatible with multiple delivery methods
- Extensive QC to ensure activity and purity

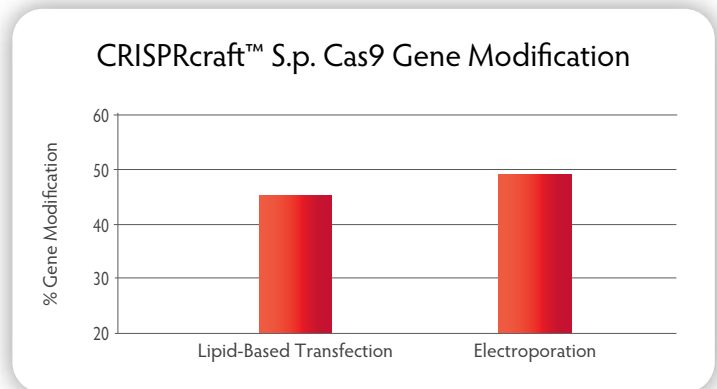


Figure 1: Comparing delivery methods with CRISPRcraft S.p. Cas9 Nuclease. HEK293T cells were transfected with RNP containing guide RNA targeting human HPRT1 locus CRISPRcraft™ S.p. Cas9 Nuclease, using either lipid-based or electroporation transfection methods. Percent gene modification was evaluated using T7E1 assay.

AmpliScribe™ T7-Flash™ Transcription Kit

Synthesize Guide RNA for CRISPR RNP or mRNA Delivery

- Quickly synthesize maximum amounts of guide RNA
- Perfect for Cas9 (97 nt) and Cpf1 (40 nt) guide RNA synthesis
- Protocol can be scaled up to 8-fold to yield milligrams of RNA

Synthesize gRNA for >300 RNP Transfections* in 30 Minutes

RNA Transcript Size	RNA Yield at 30 Minutes		RNA Yield at 60 Minutes	
	μg	pMol	μg	pMol
47 bases	24	1550	36	2320
96 bases	36	1140	60	1890

* = 96-well scale transfections

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Lucigen[®]
Simplifying Genomics



Detect

QuickExtract™ DNA Extraction Solution

Most Trusted Reagent for T7E1 Assay Sample Prep

- Recommended for PCR-based indel/mutation detection (e.g., T7E1 assays)
- Quickly extract PCR-ready DNA from cells in 8 minutes
- Easy, automation-friendly protocol: add reagent, heat and go!

High-Yield, Clean PCR Products from QuickExtract™ Lysates

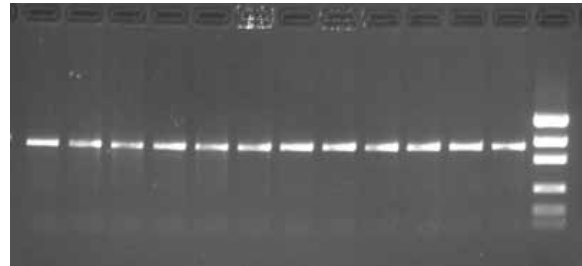


Figure 2: CRISPR target site amplicons generated from QuickExtract lysates of Cas9 RNP-transfected HEK293T cells. Each lane represents extraction and PCR from 1 well of a 96-well plate.

FailSafe™ PCR Systems

Successful Amplification of CRISPR Target Site

- Quickly optimize amplification of target site for mutation detection assay
- Successful PCR, the first time and EVERY time
- High sensitivity and specificity

Products	Size	Cat. No.	Price
CRISPRcraft™ S.p. Cas9 Nuclease, 40 ug at 3.2 mg/mL (20 uM)	40 ug	70020-0	FREE SAMPLE
CRISPRcraft™ S.p. Cas9 Nuclease, 120 ug at 10 mg/mL (62 uM)	120 ug	70020-1	\$195
CRISPRcraft™ S.p. Cas9 Nuclease, 400 ug at 10 mg/mL (62 uM)	400 ug	70020-2	\$495
CRISPRcraft™ S.p. Cas9 Nuclease Control Kit	10 rxns	70030-1	\$130
AmpliScribe™ T7-Flash™ Transcription Kit	25 rxns	ASF3257	\$202
AmpliScribe™ T7-Flash™ Transcription Kit	50 rxns	ASF3507	\$303
QuickExtract™ DNA Extraction Solution	50 mL	QE09050	\$291
QuickExtract™ DNA Extraction Solution	5 mL	QE0905T	\$55
FailSafe™ PCR PreMix Selection Kit (all 12 Premixes)	60 U	FS99060	\$109
FailSafe™ PCR System with PreMix Choice (any 1 Premixes)	100 U	FS99100	\$135
FailSafe™ PCR System with PreMix Choice (any 2 Premixes)	250 U	FS99250	\$313
FailSafe™ PCR System with PreMix Choice (any 8 Premixes)	1000 U	FS9901K	\$1,106

*Premixes and FailSafe™ Enzyme Mix are available separately.

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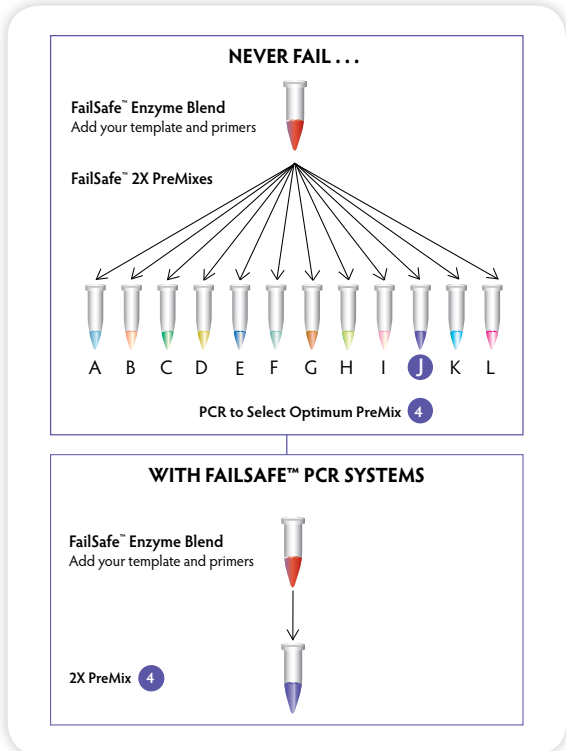


Figure 3: Overview of the FailSafe PCR System. In the example, Premix J was determined experimentally to give optimal results with the template and primers being tested.

