

Custom Sigma CRISPRs Application Form

Instructions

The information provided will be used to recommend designs for your project. Please answer all questions in the spaces provided to help expedite your request. After completing the form, please email to CRISPR@sial.com.

For an example of a Completed CRISPR Application, please [click here](#).

Date _____

1. Target Sequence

1a. What genome are you interested in editing? (Please select one)

Human Mouse Rat Other (genus species): _____

1b. Name of Target Gene and/or Gene ID:

1c. NCBI Ref Seq Number (e.g. NM_000111):

* Need help finding Ref Seq? [Click here](#).

1d. Please paste Target Genomic DNA Sequence below:

1e. Please specify additional transcripts to be targeted below:

2. Project Goals

2a. Please indicate the type of project:

Gene Knockout

Gene Modification (Please see options below. Use Section 7 if necessary.)

Conditional Knockout

**Please paste sequence to be deleted.*

**See Section 5 for LoxP information.*

SNP Modification

**Please specify 200 nt of genomic sequence upstream and downstream with modification highlighted.*

Before:

After:

| | | | |
|--|---|--|--|
| <input type="checkbox"/> Insertion <i>*Please paste insertion sequence and 200 nt upstream and downstream of insertion site.</i> | Insertion Sequence: | | |
| <input type="checkbox"/> Deletion <i>*Please paste sequence to be deleted.</i> | Deletion Sequence: | | |
| 2b. What is the model system for your project? <input type="checkbox"/> Cell Line and/or <input type="checkbox"/> Whole Animal | | | |
| 3. CRISPR Format Please indicate the format(s) you would like for your Sigma CRISPRs: | | | |
| 3a. Plasmid All-in-One Vector <input type="checkbox"/> gRNA + Cas9 WT <input type="checkbox"/> GFP or <input type="checkbox"/> RFP Dual Vector <input type="checkbox"/> Cas9 <input type="checkbox"/> GFP or <input type="checkbox"/> RFP or <input type="checkbox"/> No Fluorophore <input type="checkbox"/> gRNA Paired Nickase <input type="checkbox"/> Cas9D10A <input type="checkbox"/> GFP or <input type="checkbox"/> RFP or <input type="checkbox"/> No Fluorophore <input type="checkbox"/> Paired gRNA | | | |
| 3b. RNA and Protein <input type="checkbox"/> gRNA <input type="checkbox"/> Synthetic gRNA or <input type="checkbox"/> <i>In vitro</i> transcribed gRNA <input type="checkbox"/> Cas9 mRNA <input type="checkbox"/> Cas9D10A Nickase mRNA <input type="checkbox"/> Cas9 Protein | | | |
| 3c. Lentivirus <input type="checkbox"/> Virus Particles <input type="checkbox"/> Plasmid | | | |
| Vector: | Cas9 Only Options <input type="checkbox"/> Cas9 Neo <i>(EF1a-Cas9-2A-Neomycin)</i> <input type="checkbox"/> Cas9 Blast <i>(EF1a-Cas9-2A-Blasticidin)</i> | gRNA Only Options <input type="checkbox"/> Gecko Puro <i>(U6-gRNA/human-tef1a-puro)</i> <input type="checkbox"/> Gecko eGFP <i>(U6-gRNA/human-tef1a-tGFP)</i> | All-in-One Options <input type="checkbox"/> All-in-One <i>(U6-gRNA/truncated human-eF1a-puro-2A-Cas9-tGFP)</i> <input type="checkbox"/> Sanger <i>(U6-gRNA/hPGK-puro-2A-tBFP)</i> |
| 3d. CRISPR Activator <input type="checkbox"/> dCas9p300 Activator <input type="checkbox"/> gRNA <i>(10 tiled gRNAs)</i> <i>*Please paste activation region sequence.</i> | | Activation Region Sequence: | |

4. Validation

4a. Would you like to order Sigma CRISPR Validation Service to test gRNA cleavage efficiency? Yes No

5. Donor Design

5a. Would you like to order Donor Design Service? Yes No

5b. Preferred Donor Format: ssDNA oligo or dsDNA plasmid

5c. Conditional KO LoxP Sequence Information
Sequences below will be used unless alternate sequences are provided.

Lox P Upstream
ATAACTTCGTATAATGTATGCTATACGAAGTTAT

Lox P Downstream
ATAACTTCGTATAATGTATGCTATACGAAGTTAT

6. Contact Information

6a. Title:

6b. First Name:

6c. Last Name:

6d. Institution or Company Name:

6e. Shipping Address (building name and street address):

6f. City/Town, State/Province, and Country (include ZIP code or postal code where appropriate):

6g. Email Address:

6h. Telephone (include country and area code):

6i. Name of Sigma Sales Representative:

6j. May we contact regarding future promotions? Yes No

7. Additional Information

7a. Please provide any additional project details below: