

# Custom Sigma CRISPRs Application Form

## Instructions

The information in this form will be used by Sigma to generate a quotation for your particular project and to anticipate any potential risks in its production and your application. **Please answer all questions in sections 1 to 6**, and then answer section 7 for Gene Knockout Projects, section 8 for Gene Modification Projects, or section 9 for Targeted Integration Projects. Sections 12–15 are for donor design. Sections 10 and 11 are optional.

After completing the form, please email it to [CRISPR@sial.com](mailto:CRISPR@sial.com). Once we receive your order, a CRISPR design and production specialist will contact you to discuss and agree upon a detailed CRISPRs design strategy.

<b>1. Name</b>	1a. Title	1b. First Name	1c. Last Name
<b>2. Address</b>	2a. Institution or company name		
	<b>SHIPPING ADDRESS</b>		
	2b. Building and street address		
	2c. City or town, state or province, and country. Include ZIP code or postal code where appropriate.		
<b>3. Contact Details</b>	3a. Email address	3b. Telephone. Include country and area code.	
<b>4. Project Goals</b>	4a. Please indicate the type of project. <input type="checkbox"/> Gene Knockout <input type="checkbox"/> Targeted Gene Integration <input type="checkbox"/> Gene Modification <input type="checkbox"/> Other (please describe) _____		
	4b. What is the final format of your project? <input type="checkbox"/> Cell line      and/or <input type="checkbox"/> Whole animal		
	4c. What is your intended application? <input type="checkbox"/> Basic Research <input type="checkbox"/> Target ID / Validation <input type="checkbox"/> Screening <input type="checkbox"/> Bioproduction <input type="checkbox"/> Model cell line / animal <input type="checkbox"/> Other, please describe _____		
	4d. Is there an intended commercial application for this project? <input type="checkbox"/> No <input type="checkbox"/> Bioproduction <input type="checkbox"/> Food Production <input type="checkbox"/> Textile Production <input type="checkbox"/> Companion Animal <input type="checkbox"/> Other, please describe _____		
	4e. Are you interested in learning more about CompoZr ZFNs, the gold standard in genome editing? <input type="checkbox"/> Yes <input type="checkbox"/> No		
	5. CRISPR Format		
5. Indicate the format you would like to receive your Sigma CRISPRs in: <input type="checkbox"/> Plasmid			
<b>6. Target Gene(s)</b>	6a. What organism's genome are you interested in editing? (please select one) <input type="checkbox"/> Human <input type="checkbox"/> Mouse <input type="checkbox"/> Rat <input type="checkbox"/> Zebrafish <input type="checkbox"/> Other ( <i>genus species</i> ): _____		
	<b>IF ORDERING FOR 3+ GENES PLEASE ATTACH SPREADSHEET WITH THE FOLLOWING INFORMATION:</b>		
	6b. Name of target gene(s):	6c. Target gene Id(s):	6d. mRNA accession number (eg, NM_000111):
	6e. For a target gene with multiple transcript variant(s), please specify which isoforms would you like to target (mRNA accession number required). mRNA accession number _____		
	6f. Are there any pseudogenes or homologs for your target? If yes, which ones should be targeted? <input type="checkbox"/> Yes, please target: _____		
	6h. How many copies are in your cell line or organism?	6i. Is it essential to cell viability or organism development? <input type="checkbox"/> Yes <input type="checkbox"/> No	

<p><b>7. Gene Knockout Project</b></p>	<p>7a. Is standard targeting within the first 2/3 ORF acceptable to your application?  <input type="checkbox"/> Yes      <input type="checkbox"/> No</p> <p>7b. If 'No', please specify the target region(s) and provide its or their DNA sequence(s) for CRISPR design in detail below:</p>
<p><b>8. Gene Modification Project</b></p>	<p>8. Please attach target sequence to be modified, either as cDNA sequence or at least 200 nt of genomic sequence, with specified mutation position(s) marked.</p>
<p><b>9. Targeted Integration Projects</b></p>	<p>9a. Do you wish to maintain function of the gene product when modifying the allele?  <input type="checkbox"/> Yes      <input type="checkbox"/> No</p> <p>9b. Please select and specify integration site(s) on the target gene:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> At N-termini of the target gene. Typically 200 nt centering around the start codon will be used for CRISPR design.</li> <li><input type="checkbox"/> At C-termini of the target gene. Typically 200 nt centering around the stop codon will be used for CRISPR design.</li> <li><input type="checkbox"/> At either N-termini or C-termini of the target gene.</li> <li><input type="checkbox"/> Other integration regions. Please specify the regions for tagging and provide the DNA sequences for CRISPR design.</li> </ul>

10. Other Design Information	10. Are there any other details about your Gene-Editing objective that you would like to share with us in order to design and deliver the most effective CRISPRs for your project goal? Please provide details here.	
11. Cell Design Studio (CDS)	11a. Do you want CDS to engineer your cell line? <input type="checkbox"/> Yes <input type="checkbox"/> No	11b. Is this cell line available commercially? <input type="checkbox"/> Yes <input type="checkbox"/> No

### **THIS SECTION FOR DONOR DESIGN REQUESTS ONLY**

**We strongly encourage identifying active CRISPRs BEFORE designing donors. Additional charges apply for donor design.**

12. Project Information	12a. Model system: <input type="checkbox"/> Cells <input type="checkbox"/> Embryo injection	12b. Preferred donor format: <input type="checkbox"/> dsDNA <input type="checkbox"/> ssDNA oligo
13. Insertion Projects	13a. Please indicate the insertion position(s) in your sequence of interest. Include $\geq 50$ bases on each side and denote the insertion position with an underscore (e.g., "ACTG_ACTG").	
	List all exogenous elements to be inserted. Begin with the most 5' element; end with the most 3' element. (example: i. CMV promoter, ii. GFP, iii. polyA...)	
	13b. Name	13c. Sequence (if available)
	i.	
	ii.	
	iii.	
	iv.	
	v.	
	vi.	
	vii.	
14. Modification or Deletion Projects	Nucleotide sequence of locus before targeting, and desired nucleotide sequence after targeting (include $\geq 50$ bases of sequence flanking the modification or deletion site(s)):	
	14a. Sequence before:	14b. Sequence after:
15. Donor Modifications	15. RFLP mutations? <input type="checkbox"/> Yes <input type="checkbox"/> No	

Internal use only: