How to order:

**Basic Knockouts**

1) Use Sigma-Aldrich online CRISPR design tool to identify predesigned CRISPRs - [http://crispr.sigmainformatics.com/CrisprSearch](http://crispr.sigmainformatics.com/CrisprSearch)
   a. Always best to use the NM_# or Gene ID
   b. Designs listed by the exon they target.
   c. Click on the 2 different tabs to find CRISPR or CRISPR Paired Nickases gRNA designs

2) Open Sigma/GRCF CRISPR Order Form
   a. Fill in “Customer Info”
   b. Choose tab that contains the CRISPR format you are ordering and fill in the information
      – CRISPR (all-in-one, Cas9/gRNA), Paired Nickases, or CRISPRV (lentiviral format)
   c. Don’t forget to indicate whether you would like any controls on the controls tab.

3) Send completed order form to [customorders@jhmi.edu](mailto:customorders@jhmi.edu)
   a. Subject line “First initial. Last name CRISPR”

We suggest you purchase at least 2 gRNA per target due to CRISPRs being shown to have a wide variation in their activity, even among multiple CRISPRs designed within close genomic proximity.

**Custom project** (Example: Inserting point mutant, inserting a tag, swapping out a promoter, inserting loxP sites, etc)
1) Fill out Custom CRISPR Form (add link to form)
2) Send completed form to customorders@jhmi.edu
3) Your form will be submitted to Sigma-Aldrich CRISPR design group. Michelle Laird, your Sigma rep, will deliver to you Sigma’s top suggested designs and a price.
4) You will need to communicate with Michelle which designs you choose and she will work with GRCF DNA Services to process the order.