

Below you will find list of online tools/resources that can be very useful to anyone working with gene editing tools. If you would like to help us expand our list, please send the link and short description of the tool to: TVG@CMRI.ORG.AU

Before you start: CRISPR How To guide:

<http://blog.addgene.org/how-to-design-your-grna-for-crispr-genome-editing>

<https://www.broadinstitute.org/what-broad/areas-focus/project-spotlight/crispr>

MIT Online CRISPR gRNA design and analysis

<http://crispr.mit.edu/>

E-CRISP: Design of CRISPR constructs

<http://www.e-crisp.org/E-CRISP/index.html>

CHOPCHOP: CRISPR / TALEN design tool:

<https://chopchop.rc.fas.harvard.edu/>

CasFinder: Flexible algorithm for identifying specific Cas9 targets in genomes (Perl script)

<http://arep.med.harvard.edu/CasFinder/>

Cas-OFFinder: A fast and versatile algorithm that searches for potential off-target sites of Cas9 RNA-guided endonucleases.

<http://www.rgenome.net/cas-offinder/>

FlyCRISPR: Optimal Target Finder

<http://tools.flycrispr.molbio.wisc.edu/targetFinder/>

Cas9 Design: CRISPR/Cas9 guide RNA Design: Design your own gRNA with better efficiency

<http://cas9.cbi.pku.edu.cn/>

CasOT: Genome-wide potential Cas9/gRNA off-target searching tool.

<http://eendb.zfgenetics.org/casot/>

CRISPR-ERA:

<http://crispr-era.stanford.edu/index.jsp>

CRISPR gRNA Design tool

<https://www.dna20.com/eCommerce/cas9/input>

WatCut: An on-line tool for silent mutation scanning

http://watcut.uwaterloo.ca/template.php?act=silent_new

CRISPRs web server

This site provides tools to assist in the finding of CRISPRs structures in published microbial genomes or in user-submitted sequences.

(Publication: <http://bmcbioinformatics.biomedcentral.com/articles/10.1186/1471-2105-8-17>)

<http://crispr.i2bc.paris-saclay.fr/>

TIDE: Easy quantitative assessment of genome editing

TIDE is a cheap, simple and accurate assay to precisely determine the spectrum and frequency of targeted mutations generated in a pool of cells by genome editing tools such as CRISPR/Cas9, TALENs and ZFNs.

<http://research.nki.nl/vansteensellab/tide.html>