Off-Target

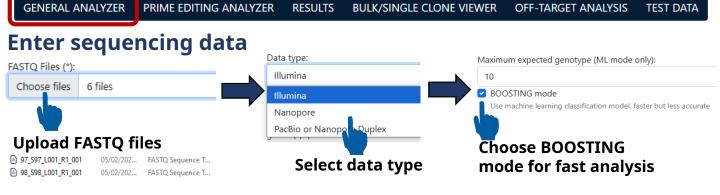
Edit-o-Matic

Suite for DNA Editing Event Analysis User guide manual for Edit-o-Matic Genome Editing Analyzer (December 2024)

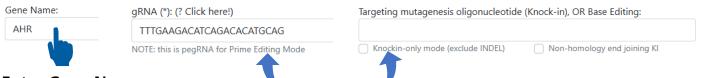
How Edit-o-Matic Works



Step 1: Input Data



Provide genotype details



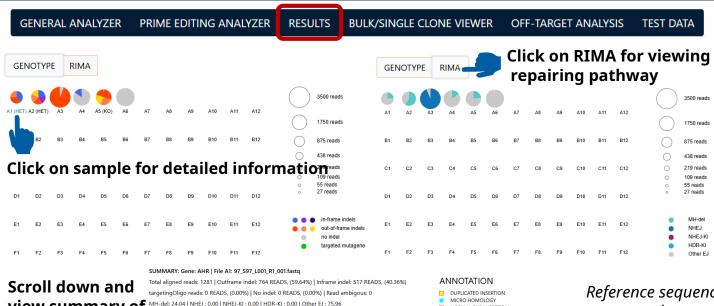
Enter Gene Name

Opportunity for custom-made reference!

Enter Target or Knock-in site sequence

Custom-made reference or self-designed!

2: Multiple Clone View Results



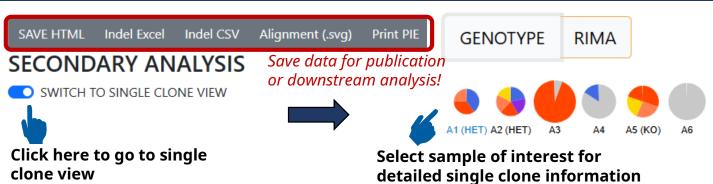
view summary of MH-del: 24.04 | NHEJ : 0.00 | NHEJ-KI : 0.00 | HDR-KI : 0.00 | Other EJ : 75.96 generated genotypes in respective TYPE: Outframe indel, (-17 bp) | 456 Reads, 35.60 % RIMA classified as: other FI (MH-del 1bp) sample

Reference sequence on top and genotypes below! Click and scroll left/right to view total sequence!

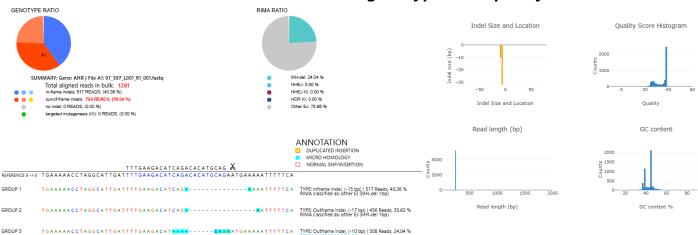
Edit-o-Matic

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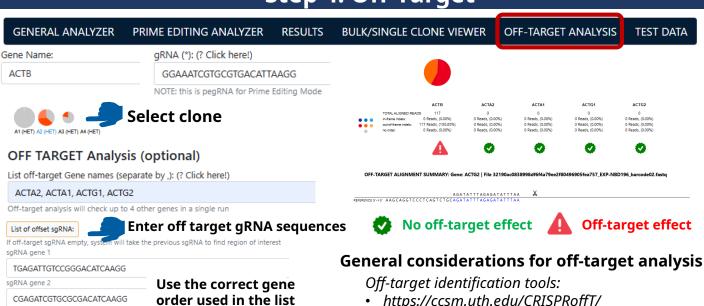
Step 3: Single Clone View Results



You receive detailed information on detected genotypes and quality control



Step 4: Off-Target



- https://ccsm.uth.edu/CRISPRoffT/
- NCBI Blast
- gRNA design pages like Chopchop

For sample preparation it is recommended to prepare gene amplicons separately and include a wildtype control!

Click here for off-target analysis

above!

GGAAATCGTGCGCGACATCAAGG

AGAAATTGTGCGAGACATCAAGG

START OFFTARGET ANALYZER

sgRNA gene 4