

Confirm your on- and off-target edits, from coordinates to report.

You define the targets. We design the panel, run LockSeq in our lab in Solna, Stockholm and deliver an analyzed report in 15 business days. No instrument investment, no bioinformatics overhead.


0.1% VAF

standard detection limit

1,000+

sites per reaction, by design

15 days

business days to report

1–200 bp

target window, read in full

YOUR REPORT

Illustrative data

290 / 300

sites reportable

1

off-target edit found

Site	Edited	Control	Call
DP-001 on-target	71.3%	0.00%	Edited
DP-187 off-target	0.23%	0.00%	Edited
DP-069 off-target	0.52%	0.58%	In control
DP-004 off-target	0.00%	0.00%	No variant

Mean variant frequency, 3 replicates. Every site is called against your untreated control. Each report adds indel profiling, coverage charts, FASTQ + BAM, and a call to walk you through the results.

WHY LOCKSEQ

High-confidence edit detection

Every captured molecule gets a UMI before amplification, and reads collapse into one consensus call per molecule. Confident calls down to 0.1% VAF.

Every site clearly reported

Sites we can't design for are flagged before you send samples. Every other site gets a clear status, including any that drop out in the lab.

Small and large panels, same workflow

From a single site to 1,000+. Add targets later without redesigning the panel. Illumina, MGI or Oxford Nanopore.

One probe per target. One consensus call per molecule.



01 · HYBRIDIZE

Each probe carries its own UMI. Both arms bind next to the target, leaving a gap over the site.



02 · GAP-FILL

A polymerase copies the site, including any edit, into the probe.



03 · LIGATE

The circle closes only with exact base pairing.



04 · SEQUENCE

Only captured targets enter the library. Reads collapse into one consensus per UMI.

"LockSeq has been instrumental in scaling our validation panels for off-target candidates, a key process in the safety assessment of our gene writing platform."

Marta Sanvicente García, PhD · Bioinformatics Scientist, Integra Therapeutics

Projects start from €1,000

For example, up to 25 sites and 2 samples. Price scales with sites and samples.

Send us your site list

We scope your project within 24 hours. Scan the code to request a quote.



Get a quote