

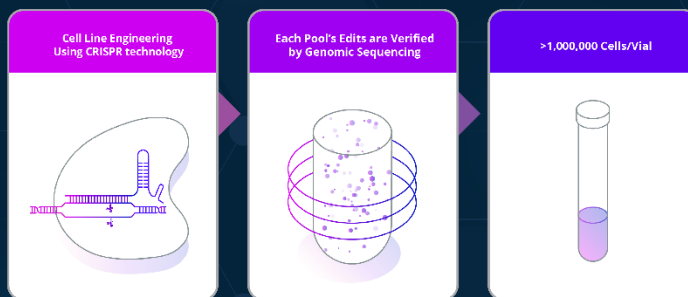
## MAKE: Integration Scenario Showcase by HighRes Biosolutions

### The Art of Make: CELL LINE PRODUCTION



The science of precision and innovation  
in modifying living systems

The science of make in cell line production revolves around the application of advanced molecular biology and genetic engineering techniques to modify cellular genomes for specific purposes.



By combining molecular biology, bioinformatics, and wholistic lab automation, cell line production advances fundamental research, drug development, and biomanufacturing

#### Process Challenges:

- Sample inputs highly variable
- High efficiency and quality control
- Data generation, harnessing, and utilization

#### Objective:

Provide edited cells with comprehensive QC data

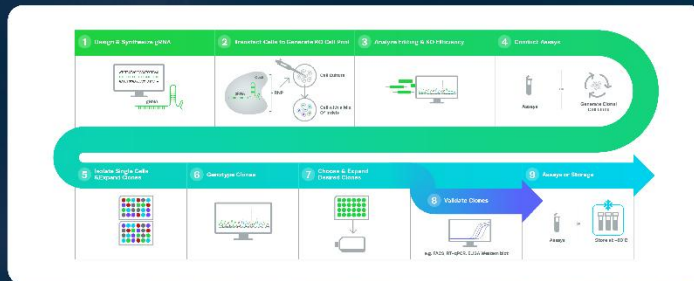


# The Art of Make: CELL LINE PRODUCTION

Industrializing cell line production through wholistic lab automation makes gene editing solutions accessible and scalable



The solutions combine lab automation with AI, allowing scientists to monitor, flag and capture important indicators that can be missed by the human eye. Robotics systems focus on Cell culture and NGS applications



Production process generates vast amounts of data (i.e. differing morphologies, growth curves and modes, etc.) from sequencing analysis at multiple points



Each process dynamically adjusts to experimental variation



Cell editing at scale = sequencing at scale



Data harnessed and utilized across all individual orders



Hardware, software and people allow for an adaptable, scalable process