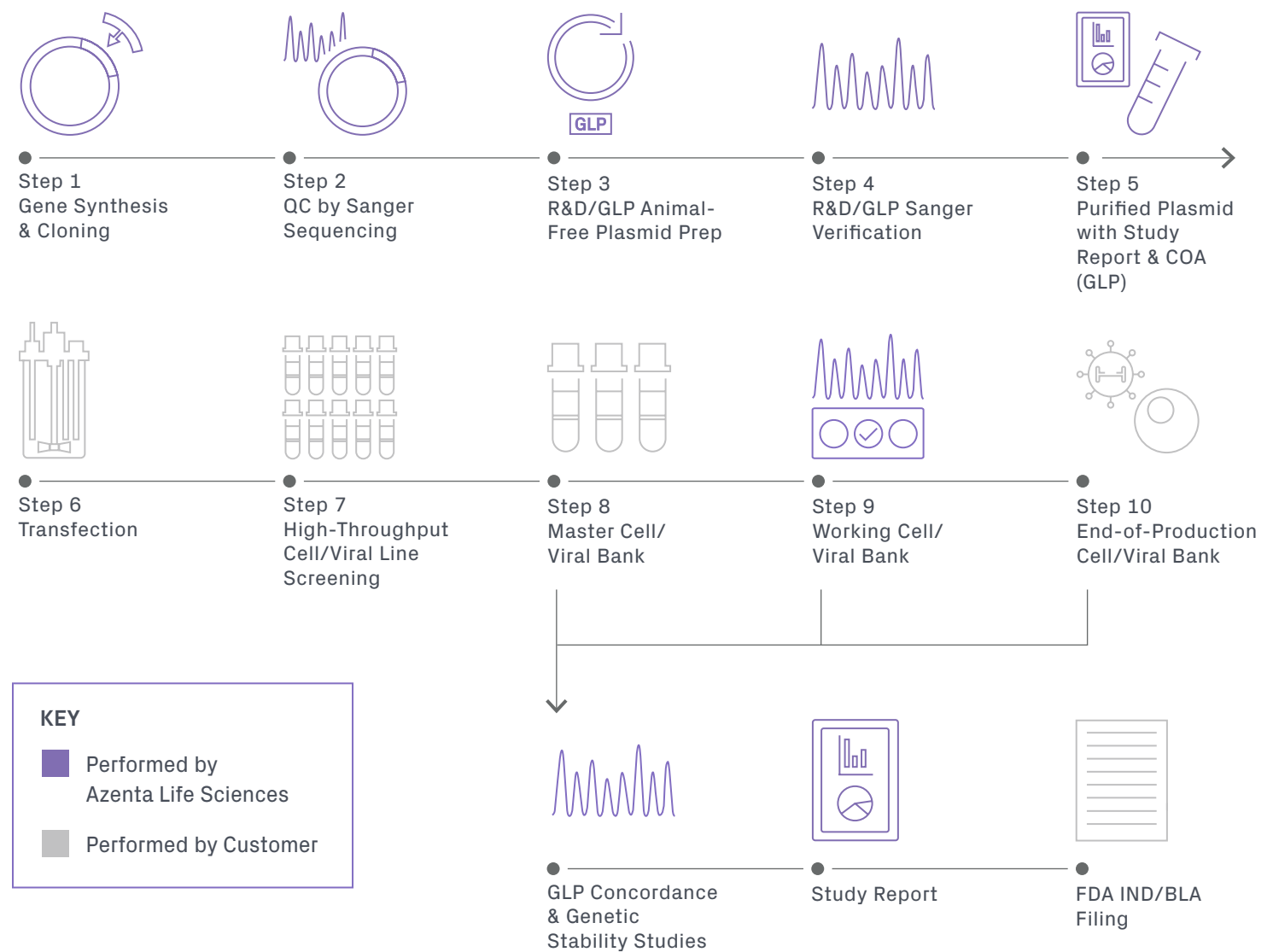
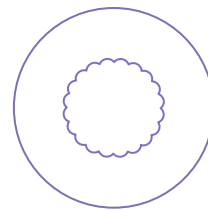


# Cell/Viral Line Development

Critical to therapeutic production, the development of cell lines or viral stocks can be challenging and painstaking. To support and streamline this process, Azena Life Sciences has developed a suite of genomics services from gene synthesis to GLP-compliant genetic stability studies to deliver accuracy, precision, thorough testing, and documentation to assist in meeting FDA submission guidelines.

## Cell Line Development Workflow





# Cell/Viral Line Development

## Screening and Confirmation Services

### Cell Line Screening

- Transgene sequence confirmation
- Gene expression assays
- Insertion site detection

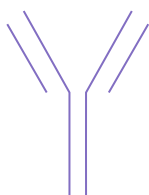
### GLP Sanger Confirmation Studies

- Heavy and light chain confirmation
- Viral strain confirmation
- Mutation analysis of MCB, WCB, and PPCBs

## Service Highlights

- Complete solution from gene synthesis to GLP Sanger confirmation
- Experience creating and working with bicistronic plasmids
- Endotoxin and animal-free plasmid preparations
- Robust next generation sequencing solutions for cell/viral line screening
- Dedicated Study Manager, QA oversight, and detailed study report for GLP services
- Certificate of Analysis (COA) provided for all GLP plasmid preparations

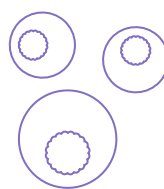
## Applications



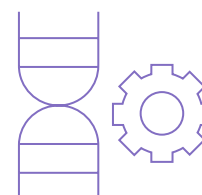
Antibody therapeutic development



Vaccine and antiviral development



Cell therapy development



Gene therapy development