

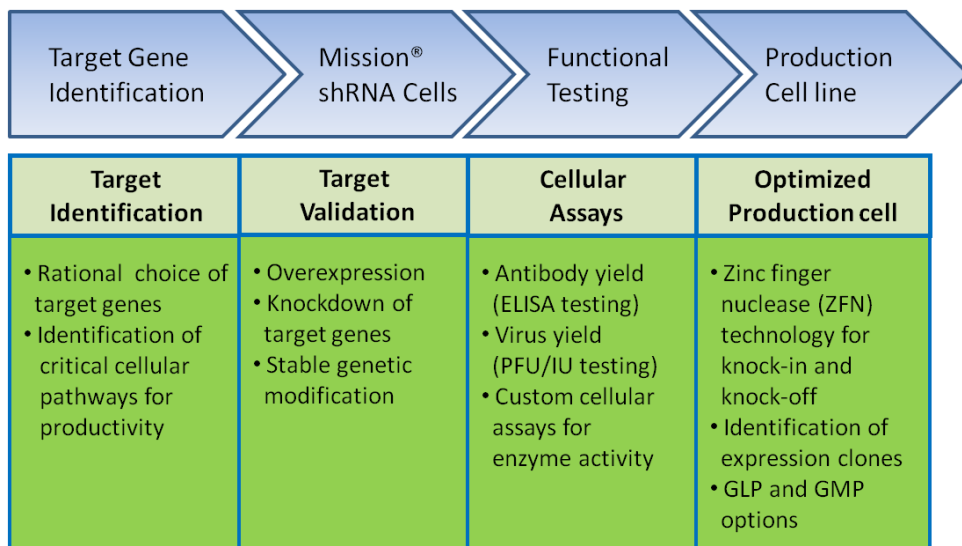
**Optimization of established and new production cell lines**

**Optimization of established and new cell lines for production of biologicals, antibodies and viral vaccines**

Sirion Biotech and Sigma Aldrich offer a service dedicated to the optimization of production cell lines for antibodies, therapeutic proteins, enzymes, and viral vaccines. Starting from rational target gene identification to small scale screening of up to 500 candidate genes involved in innate immunity and intracellular protein degradation, the effect of each gene is studied on productivity in stable cell lines.

Productivity of cell lines may be dependant on availability of rate-limiting glycosylation enzymes or viral glycoproteins and stability of gene expression. For screening purposes the gene of interest is either over-expressed or knocked-down. In order to avoid experimental bias of results through positional effects, optional side directed integration can be used for generation of stable cell pools. Finally, stable modification of production cell lines with deletion or knock-in of validated genes can be accomplished using the custom cell engineering service of SAFCBioscience and the CompoZr™ zinc finger nuclease (ZFN) technology. Sirion is experineced in stable cell generation and fully licensed to use RNAi technology.

**Workflow**



- Sirion has all the expertise and capacity to handel functional cell culture screening and virus production.
- The collaboration with Sigma-Aldrich grants Sirion access to the world largest validated lentivirus shRNA library, and shRNA Mission® cells
- Use of Mission® LV library allows fast project time lines and throughput in stable cell line generation
- Final genetic modification of production cell lines by SAFC can be accomplished optionally under GLP and GMP standard

The all-in-one service is designed for rational and screening-based improvement in production of antibody, protein, and viruses offerening a finalized improved production cell line.

The price will depend on the complexity and options chosen. To obtain a quotation please email to Sirion Biotech or call +49-89-7009-6199-16.

*Don't miss the oportunity to improve by getting your productivity optimized*