LumiPore™, a Non-Viral Platform for Intracellular Delivery of Large Payloads

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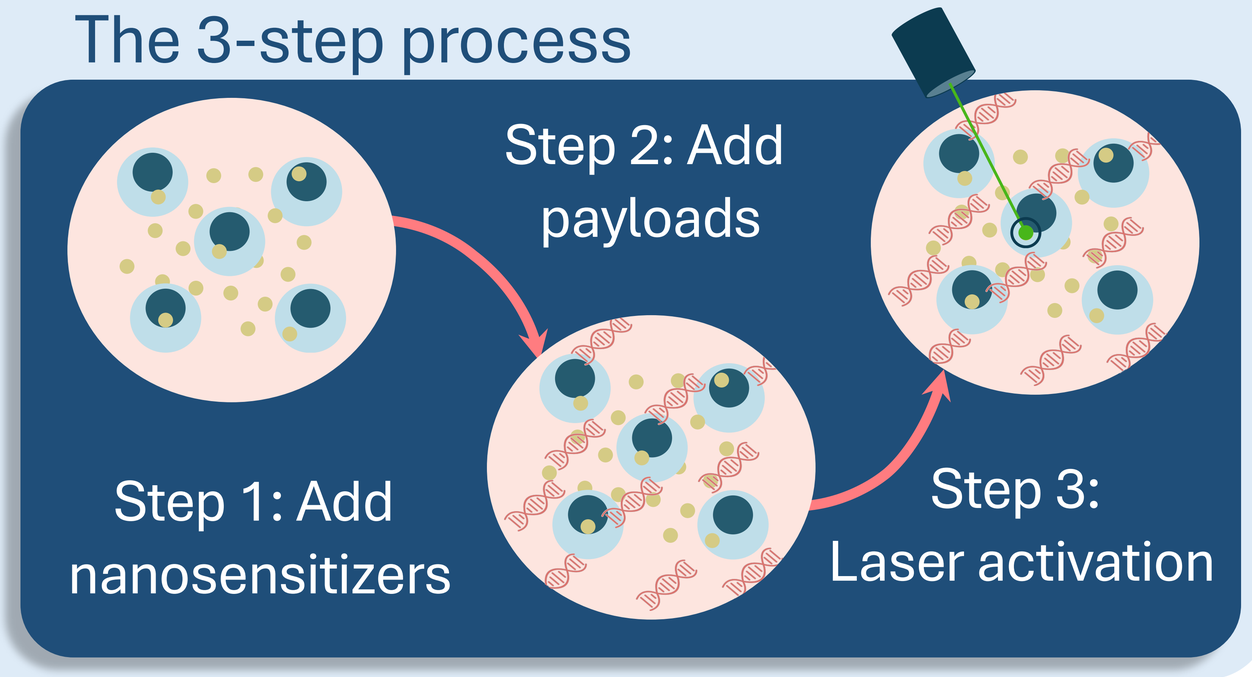
Intracellular delivery of large payloads

- The challenge: efficient delivery of **large payloads** in **hard-to-transfect cells.**
- **Trince's LumiPore™ intracellular delivery** platform combines **laser** irradiation with **nanosensitizers** to **transiently permeabilize** the cell membrane, allowing external payloads to enter into cells.
- The platform operates in **high-throughput** and results in **excellent viability, proliferative capacity** and **functionality** of treated cells.
- Proven technology backed by **> 10 years of research**.

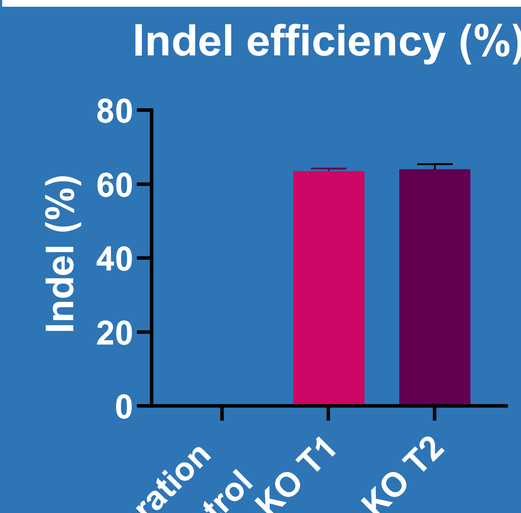
The 3-step process



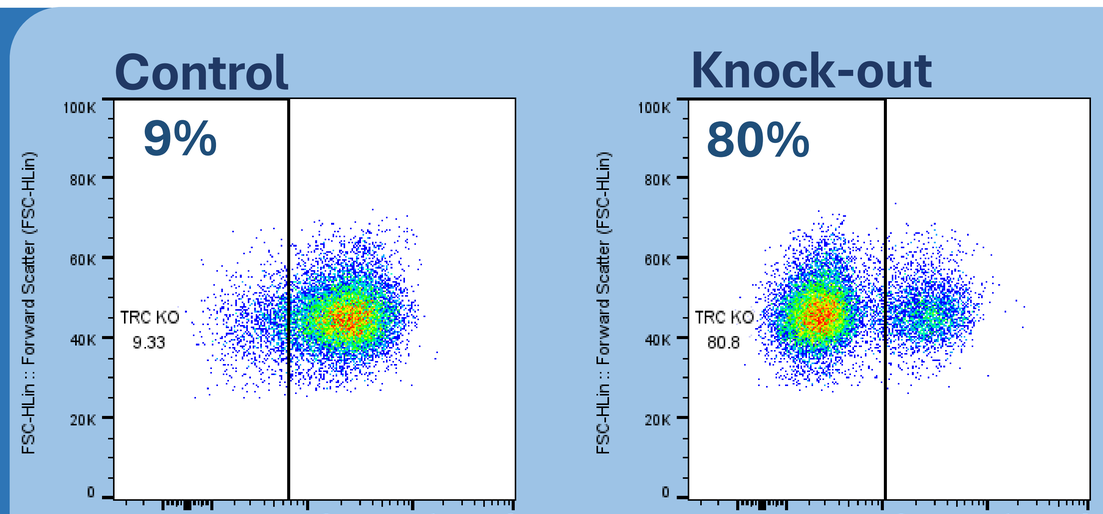
T-cells From PBMC

TRAC Knock-out

Sanger sequencing

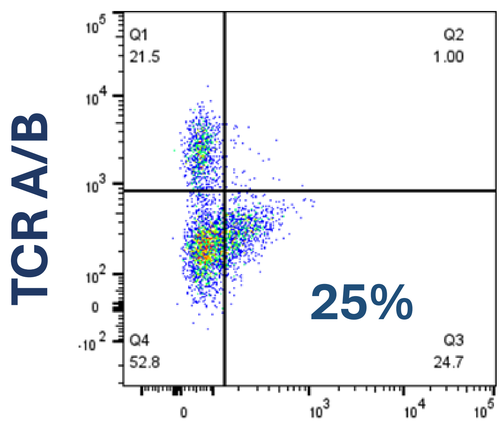


Flow cytometry

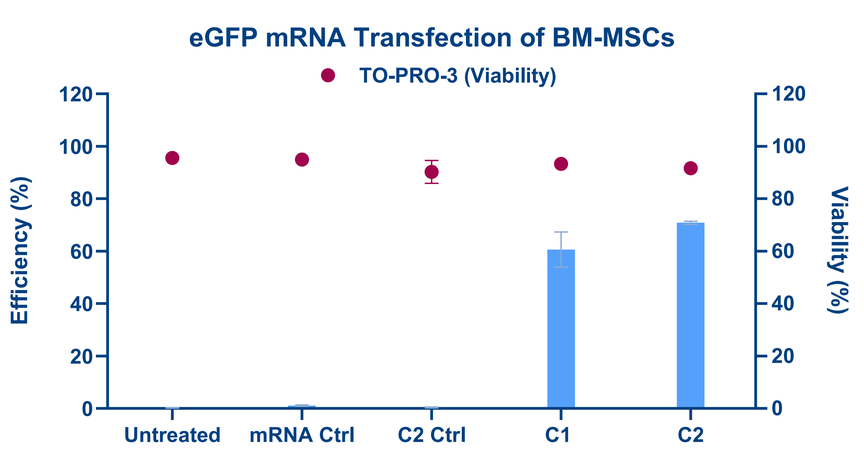


Knock-in

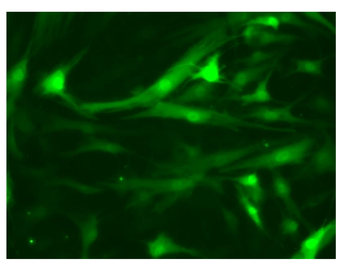
1,5 Kb HDR template: ds-DNA-eGFP



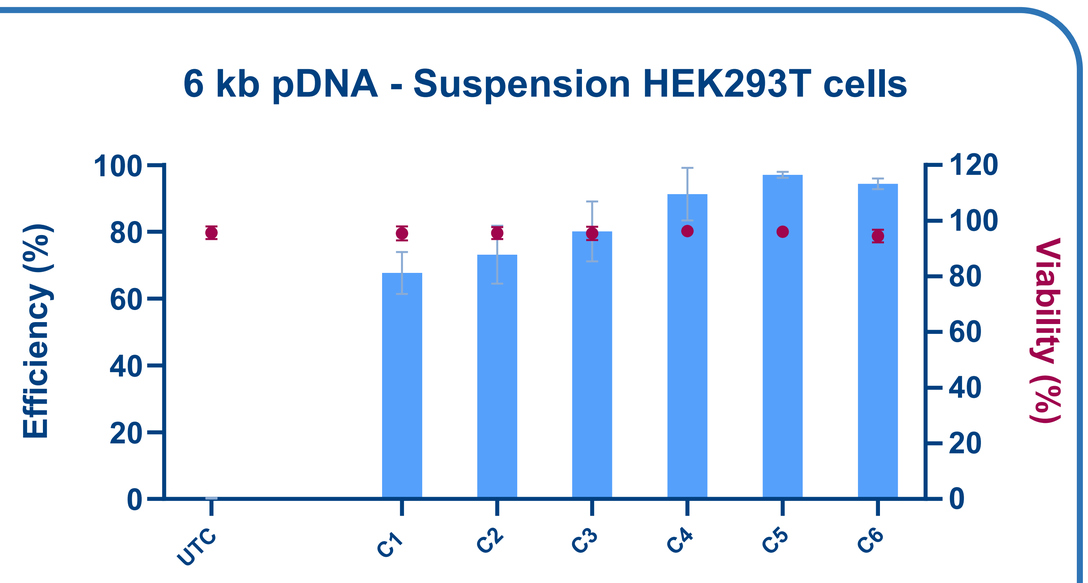
Adherent Stem Cells



High transfection efficiency while maintaining perfect morphology

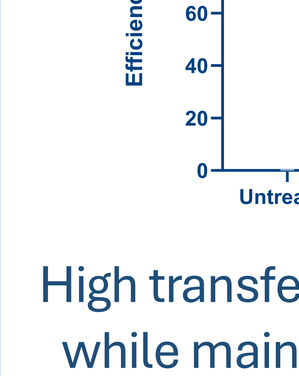


HEK293T Cells for Bioproduction



>90% pDNA transfection efficiency with low toxicity

The LumiPore™ platform



Including spatially controlled delivery!

- Benchtop transfection system.
- Easy optimization protocol
- Excellent recovery of cells.
- Compatible with well-plates (6-384), T-flasks and slides.
- Full well plate in < 8 min.
- Available today, with expert support!

Applications

- High throughput screening
- Cell line development
- Bioproduction
- Gene function studies
- Bulk transfection

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European Innovation Council
Funded by the European Union