mesenchymal stem cells: transfection of siRNA

**Fig. 1:** Monitoring of GFP-labeled siRNA uptake by MSCs (derived from iPS) transfected with Viromer® BLUE

- FACS data made 24h post-transfection with 3 different amounts of Viromer:siRNA complexes.
- The “high” condition gives the best efficiency for 2 tested MSCs lines.
- Analysis after 48h shows comparable or slightly lower efficiency.
- Viromer® GREEN also tested but efficiency limited to 30-40%.

Data from L. Portier, ES-Team, INSERM U935, Paris (France)
WT (untransfected cells) and Lipofectamine® RNAiMAX: read-out after 48h
Viafect™ and Viromer® BLUE: read-out 24h post-transfection

Data from J. Luetzkendorf, University Hospital Halle (Germany)

“The Viromer reagent is very encouraging for MSC. By using a FITC labeled control siRNA I got a 92% transfection efficiency using Viromer BLUE. This is an enormous difference compared to promega reagent and lipofectamine.”
Fig. 3: Knockdown of gene expression in MSCs transfected with Viromer® BLUE

“The Viromer reagent is very appropriate to transfect MSC with siRNA. I was able to achieve a nearly 4-fold target gene knock down.”

Data from S. Werner, Institute for Physiological Chemistry, University of Halle (Germany)