

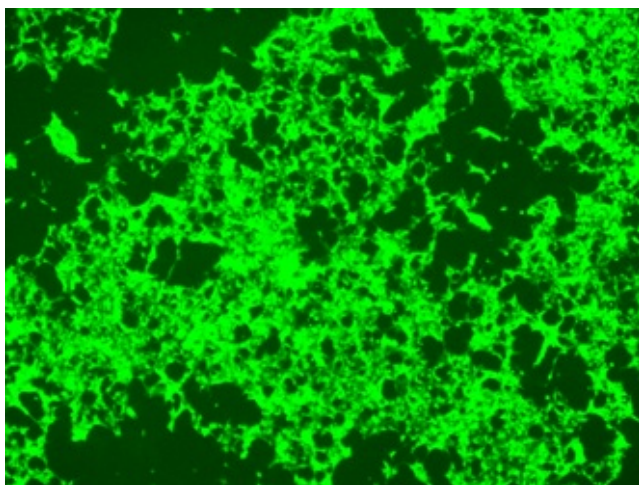
Product datasheet for **TT300004S**

EZ-LNP RNA Transfection Kit – 0.3 mL

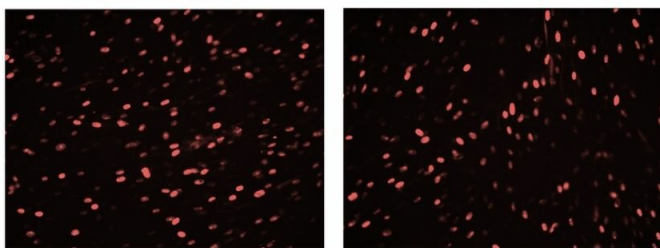
Product data:

Product Type:	Transfection Reagents
Description:	Instrument-free LNP kit enabling effective RNA transfection in vitro and RNA delivery in vivo.
Storage:	4°C for short term (1-2 months); -20°C for long-term. RNA buffer can be stored at 4°C for both short and long-term storage.
Stability:	6 months

Product images:

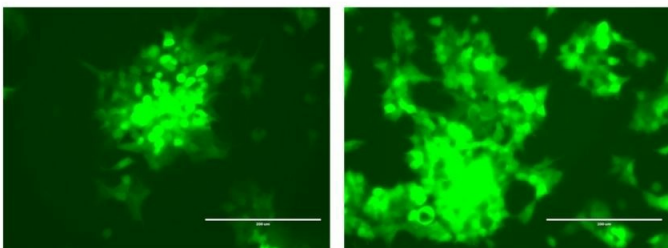


Nuclear mScarlet3 mRNA delivery in canine fibroblasts



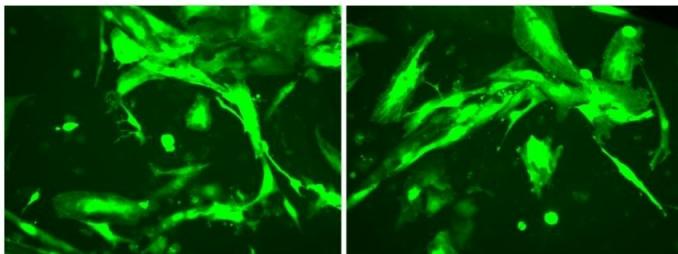
LNP-mediated delivery of nuclear-localized mScarlet3 mRNA across species. Canine iPSC-derived adherent fibroblasts were transfected with nuclear-localized mScarlet3 mRNA using Ez-LNP. Fluorescence images were acquired 21 h post-transfection at 20×. Strong nuclear-localized red fluorescence demonstrates effective delivery, expression and nuclear targeting in fibroblasts across species.

mRNA delivery in human iPSC (2D culture)



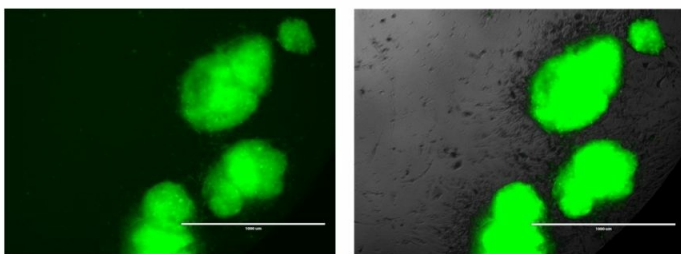
LNP-mediated delivery of mWasabi mRNA in human iPSCs (2D culture). Human iPSCs were seeded at 20,000 cells per well (96-well plate) and transfected with 150 ng mWasabi mRNA using Ez-LNP. Fluorescence images were acquired 21 h post-transfection at 20× magnification (scale bar 200 µm). Strong green fluorescence demonstrates effective mRNA delivery and protein expression in iPSCs.

mRNA delivery in iPSC-derived endothelial cells



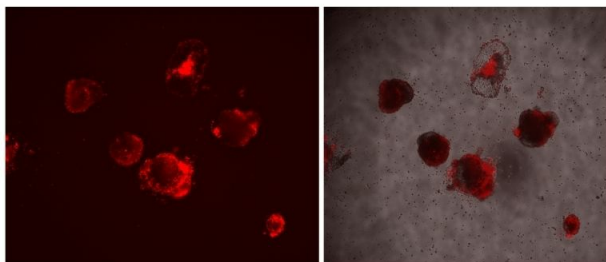
LNP-mediated delivery of mWasabi mRNA in iPSC-derived endothelial cells. Cells were seeded at 20,000 per well (96-well plate) and transfected with 300 ng mWasabi mRNA using Ez-LNP. Fluorescence images were acquired 21 h post-transfection at 20×. Strong green fluorescence with clear elongated / spindle-like morphology confirms effective delivery and expression in differentiated endothelial cells.

mRNA delivery in 3D hepatocyte spheroids



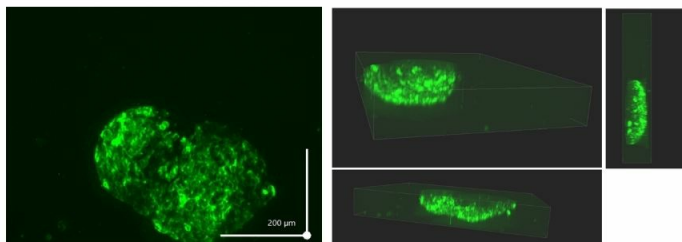
LNP-mediated delivery of mWasabi mRNA in iPSC-derived hepatocyte spheroids (3D culture). Spheroids were transfected with 300 ng mWasabi mRNA using Ez-LNP and imaged 21 h post-transfection (scale bar 1000 μ m). Strong green fluorescence is observed throughout the spheroid — penetration through the structure, not just the edge — demonstrating effective delivery and expression in 3D.

Delivery across heterogeneous iPSC spheroids



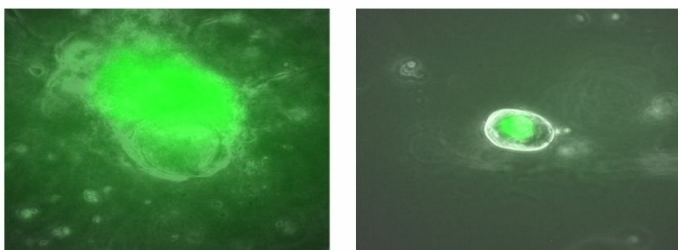
LNP-mediated delivery of nuclear-localized mScarlet3 mRNA in 3D iPSC spheroids. Spheroids were transfected with nuclear-localized mScarlet3 mRNA using Ez-LNP and imaged 21 h post-transfection at 20 $\times$ (scale bar 200 μ m). Red fluorescence localized to nuclei demonstrates effective delivery, protein expression and nuclear targeting within 3D structures.

Z-stack confirms internal (depth) distribution



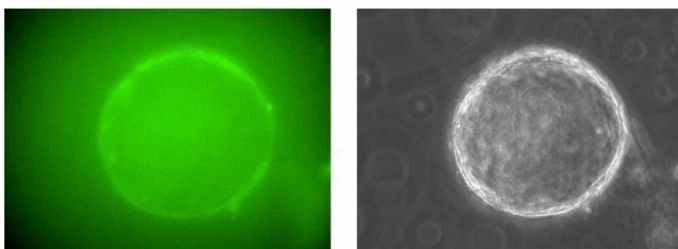
Z-stack acquisition and 3D reconstruction of LNP-mediated mRNA delivery in iPSC-derived spheroids by confocal microscopy. Orthogonal views (XY / YZ / XZ, scale 20 μ m) and a 3D-rendered reconstruction reveal fluorescence signal within the spheroid interior, supporting genuine internal distribution of mRNA delivery rather than surface labelling.

Functional ChlorON biosensor in live organoids

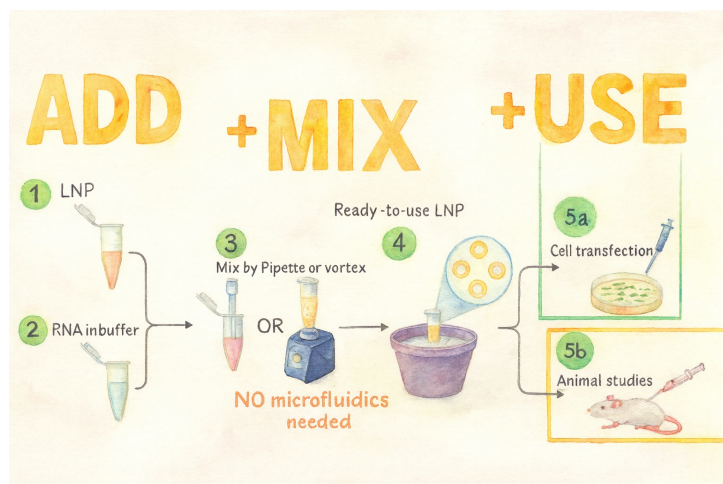


LNP-mediated delivery of mRNA encoding the ChlorON chloride biosensor in live cholangiocyte organoids. Cysts were transfected with mRNA at 100 ng/μL using Ez-LNP (LNP3: 3 μL + 9 μL mRNA) in live cells. Fluorescent and brightfield-merged images were acquired live. Signal confirms functional protein expression and enables real-time visualization of chloride dynamics in 3D organoid systems.

Functional ChlorON biosensor in live Matrigel Dome



LNP-mediated delivery of mRNA encoding the engineered ChlorON chloride biosensor in live cholangiocyte organoids (Matrigel dome). Cysts were transfected with mRNA at 100 ng/μL using Ez-LNP in live cells. Fluorescent and brightfield-merged images were acquired live. Signal confirms functional protein expression and enables real-time visualization of chloride dynamics in 3D organoid systems.



Add + Mix + Use Workflow.



EZ-LNP RNA Transfection Kit 0.3 mL.