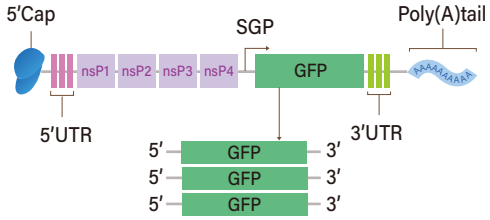
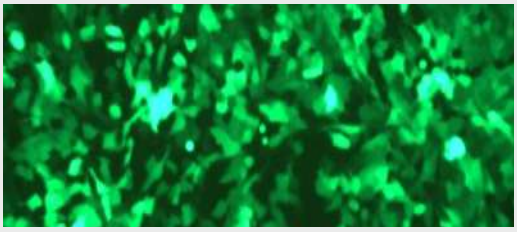
— 24 Days with Croyez saRNA-GFP

Unmatched Longevity in Transient Expression

Croyez's GFP Self-Amplifying RNA (saRNA-GFP) delivers strong and sustained protein expression in mammalian cells, ideal for live-cell imaging and gene expression studies. Built on a replicon RNA backbone, it amplifies intracellular RNA to boost output while minimizing required dose.
It sustains high-level expression for up to 24 days, making it uniquely suited for long-term observation within the transient expression category.





GFP Self-Amplifying RNA (unmodified) information

mRNA Length	8476 nt
Cap Structure	Cap 1
Modified Bases	unmodified
Purity	by FPLC analysis

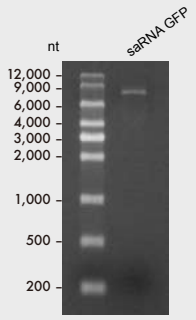


Figure 1. saRNA GFP was analyzed on a 1% E-Gel. Lane 1: Marker: High Range RNA Ladder (cat no:CR00005-50UL), Lane 2: saRNA GFP

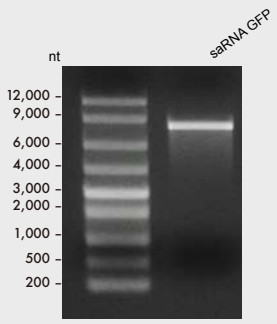


Figure 2 . saRNA GFPwas analyzed on a 1% TAE agarose gel at 100 V for 30 minutes.Lane 1: Marker: High Range RNA Ladder (cat no:CR00005-50UL), Lane 2: saRNA GFP

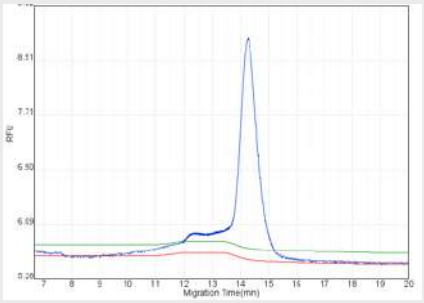
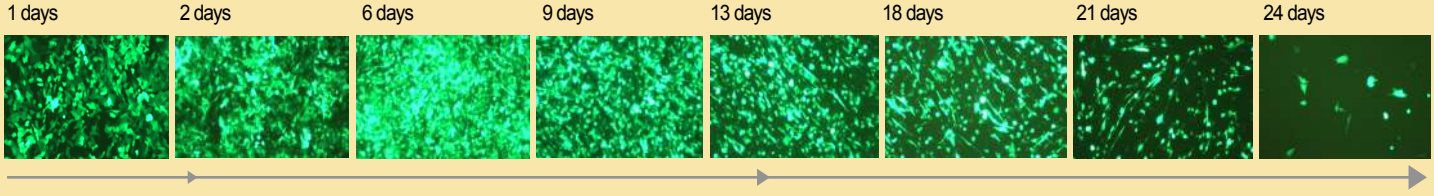


Figure 3 . saRNA GFP was analyzed by capillary electrophoresis.

Self-amplifying RNA enables prolonged and stable expression in BHK21 cells up to 24 days post-transfection



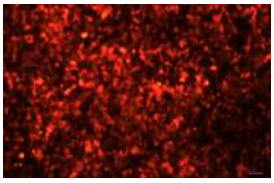
In vitro Transcription and Translation: Efficient production of GFP can be observed up to 24 days after transfection.

Labeling and Tracking: Monitor dynamic changes in live cells, such as migration, division, or differentiation.

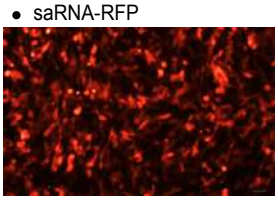
Co-expression Studies: Combine with other fluorescent mRNAs (e.g., mCherry) for multicolor imaging and analysis.

Others

- saRNA-tdtomato



- saRNA-RFP



Functional Assays: Use for RNA delivery into cells via transfection, electroporation, or microinjection.

Bright Green Fluorescence: Excitation peak: 488 nm, Emission peak: 509 nm

Imaging: Monitor fluorescence using a fluorescence microscope with suitable filters (excitation: 470–490 nm; emission: 510-530 nm)