mRNA Transfection Reagent

FuGENE® RX

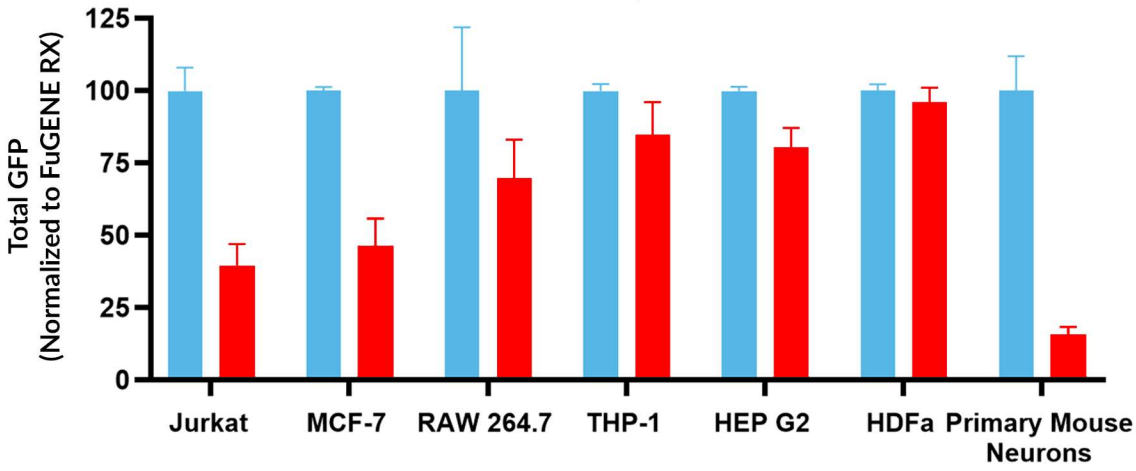
Robust RNA Delivery

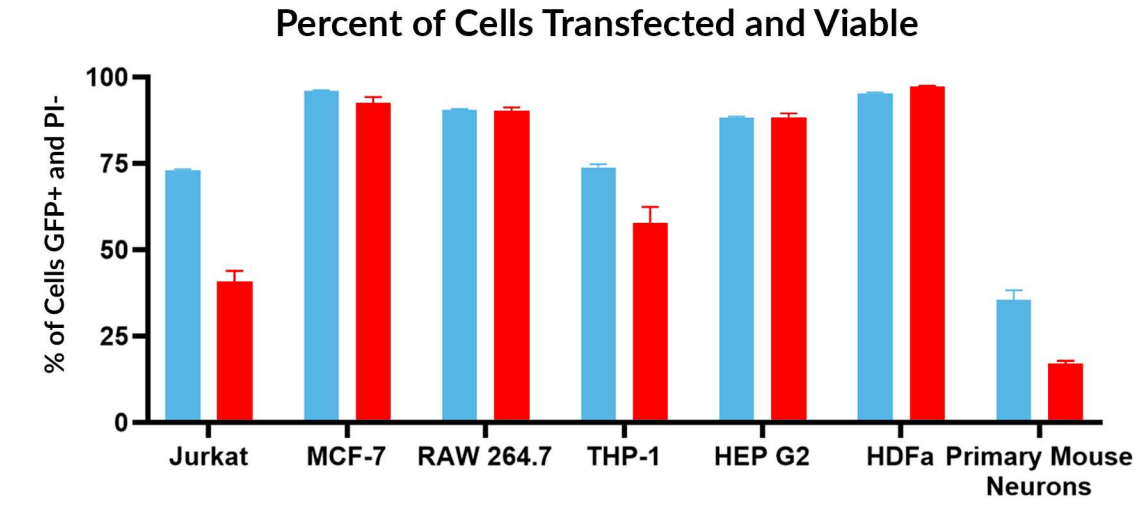
Messenger RNA (mRNA) is a highly versatile tool for the manipulation of cells and tissues. It can act as a directed translational template to produce virtually any protein. This leads to a rapid and high expression of the protein of interest and while eliminating the risk of disrupting vital genes or causing cancer-promoting mutations.

There are two key differences when mRNA is compared to DNA, its short half- life in cells and the immune responses it generates. FuGENE has been working on ways to minimize these effects by shielding the mRNA post-transfection from pattern recognition receptors that trigger defense responses and can lead to apoptosis.

HIGHLIGHTS

- Outperforms MessengerMax™
- Use with modified & non-modified mRNA
- Works with difficult-to-transfect cells





0.2µl of FuGENE RX or 0.3µl of MessengerMax were used to transfect 100 ng of N1-methyl-pseudo-uridine modified GFP-mRNA into a 96 well plate containing the cell lines shown. Transfection was assessed 48 hours later using flow cytometry.

Total GFP was calculated as the count of positive cells multiplied by the mean fluorescence of those cells. Normalization was calculated as the Total GFP of each replicate divided by the average of FuGENE RX Total GFP.