



Gibco® Rat Fetal Neural Stem Cells (Invitrogen cat# N7744-100) cells were transfected using Neon™ Transfection Device and 0.5ug of a plasmid encoding the EGFP, 24 hours post electroporation, the cells were analyzed by light (A) and fluorescence microscopy (B).

I. Electroporation-parameter

Pulse Voltage (V)	Pulse Width (ms)	Pulse Number	Cell Density (cells/ml)	Transfection Efficiency	Viability	Tip type
1300	20	2	1 X 10 ⁷	60%	91%	10ul
1500	10	3	1 X 10 ⁷	66%	92%	10ul
1600	10	3	1 X 10 ⁷	73%	88%	10ul

II. Cell information

Cell Type	Stem Cells (Neural)
Characteristics/Species	Adherent/Rat
Tissue Origin	Embryonic day 14 Sprague/Dawley rat brain, cortical
Media	Complete StemPro ^R NSC SFM (Invitrogen cat# A1050901) supplemented with 2 mM GlutaMAX™-I (Invitrogen cat# 35050-061)
Morphology	Neuronal
Doubling time	20–30 hours
Subculturing	every 3-4 days
Culture conditions	Temperature 37C Atmosphere: air, 95% carbon dioxide (CO ₂), 5%