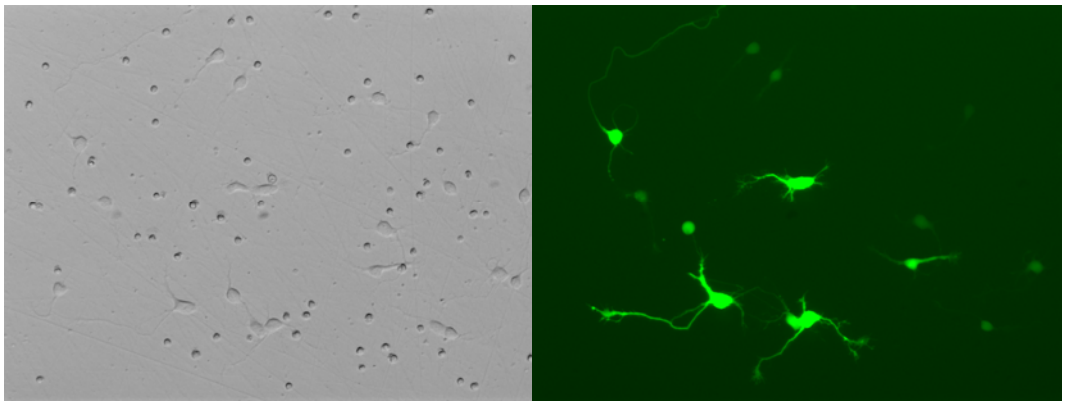

GIBCO® Primary Rat Cortex Neurons (Invitrogen cat# A10840-01) cells were transfected using the Neon™ Transfection Device and 0.5ug of a plasmid encoding the EGFP, 48 hours post-electroporation, the cells were analyzed by light (**A**) and fluorescence microscopy (**B**).

I. Electroporator-parameter

Pulse Voltage (V)	Pulse Width (ms)	Pulse Number	Cell Density (cells/ml)	Transfection Efficiency	Viability	Tip type
1700	20	1	1 X 10^7	59%	97%	10ul
1600	20	1	1 X 10^7	46%	96%	10ul

II. Cell information

Cell Type	Primary cell
Characteristics/Species	Adherent/Rat
Tissue Origin	Day-18 Fisher 344 rat embryos, cortical
Media	NEUROBASAL™ Medium (1X), liquid (Invitrogen cat# 21103-049), 2% B-27 Serum-Free Supplement (50X), liquid (Invitrogen cat# 17504-044) and 0.5mM GlutaMAX™-I Supplement (Invitrogen cat# 35050-061)
Morphology	Neuronal
Doubling time	Primary
Subculturing	After 24 hours of incubation, aspirate half of the medium from each well and replace with fresh medium. Feed cells every third day by aspirating half of the medium from each well and replacing with fresh medium.
Culture conditions	Temperature 37C Atmosphere: air, 95% carbon dioxide (CO_2), 5%