**Invitrogen Neon Transfection Protocol for 10 µl tips kit (cat # MPK1096)**

**(**[**https://www.thermofisher.com/us/en/home/life-science/cell-culture/transfection/neon-transfection-system.html**](https://www.thermofisher.com/us/en/home/life-science/cell-culture/transfection/neon-transfection-system.html)**)**

* 200,000 cells are resuspended in 10 µl buffer R and mixed with 4pmol-40pmol RNP reconstituted in 10 µl buffer R.
* Load the cell/RNP mixture into a 10 µL Neon Pipette tip (final account of cells is 100,000 and RNP is 2 pmol-20 pmol)
* Plug into pipette holder containing ~3 mL of Electrolytic Buffer, and transfect with protocol specific to cell type being used (see table).
* Unplug the pipette and transfer cells into media inn 24 well plate, and incubate for 72 hours in incubator for cell culture at 37oC with 5% CO2.

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| --- | --- | --- | --- |
| **Cell type:** | **Voltage (V):** | **Width (ms):** | **Pulses:** |
| HEK293T | 1150 | 20 | 2 |
| HEPA | 1200 | 50 | 1 |
| MEF | 1650 | 20 | 1 |
| N2A | 1400 | 30 | 1 |