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Cells electroporation for cell transfection with NEON system

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Protocol for cell electroporation with the NEON transfection system



ABSTRACT

OPEN ACCESS

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Protocol status: Working We use this protocol and it's working

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1

distribution, and reproduction

2 Put the electrode part inside the left hand side hood in 419 3 Put a NEON glass tube matching the electrode position 4 Add A 3 mL of E2 buffer in the glass tube. Note The buffer should cover the electrode level 5 Switch on the NEON equipment 6 Load the saved settings. Note The settings depend on the cells used. I.e., we used 3 pulses of 10 ms at 1650 mV for C2C12 myoblasts 7 of the plasmid in a sterile Eppendorf tube Add Δ 5 μg Add 👲 3 mL of fresh cell media without antibiotics in a T25 flask 8

- **9** Trypsinise the cells as usual
- 10 Once you have the cell pellet, discard the supernatant carefully
- 11 Wash the pellet with Δ 150 μ L of sterile DPBS and discard the supernatant carefully

- 15 Mix without making any bubble
- Take a $\boxed{100 \, \mu L}$ tip with the NEON pipette

- 18 Press "START" in the NEON display
- Once the "COMPLETE" message appears in the NEON display, put the cells with the NEON pipette in the T25 flask
- 20 Put the T25 flask in the "Antibiotics free" incubator
- After 24:00:00 , check the cells under the microscope and perform the required experiment