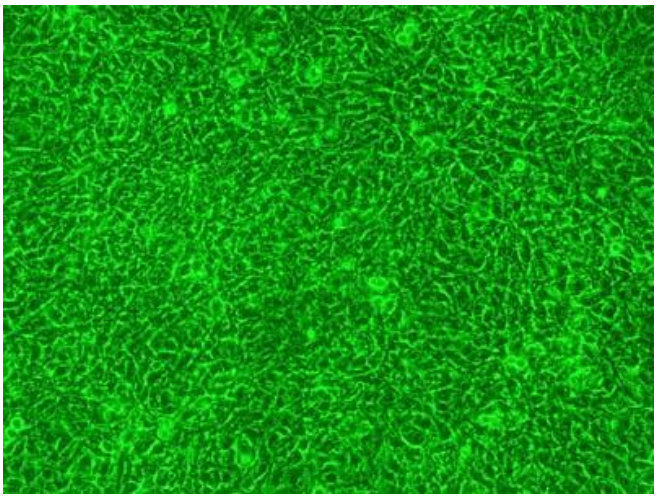
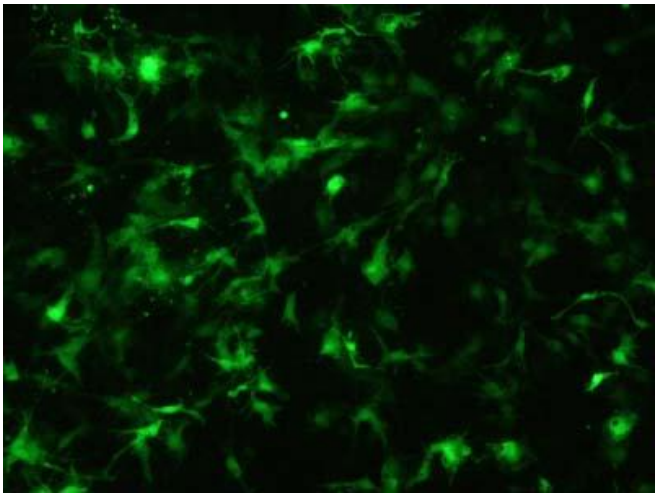
Comparison of Disposable Kits / Special Buffers

NEPA21 (Nepa Gene)	Nucleofector (Lonza)	Neon (Invitrogen)
		
Cuvettes Only **No Special Buffers** 	Cuvettes Special Buffers 	Tips Special Buffers 
Cost per Sample: **JPY 210**	Cost per Sample: JPY 1,920-2,750	Cost per Sample: JPY 1,719-2,200

Nepa Gene Co., Ltd.
3-1-6 Shioyaki, Ichikawa, Chiba, 272-0114 Japan
phone: +81 47 306 7222 fax: +81 47 306 7333
www.nepagene.jp

MC3T3-E1 Mouse Osteoblastic Cells





NEPA21
(Nepa Gene)

Viabiliry: 85%

Transfection Efficiency: 75%

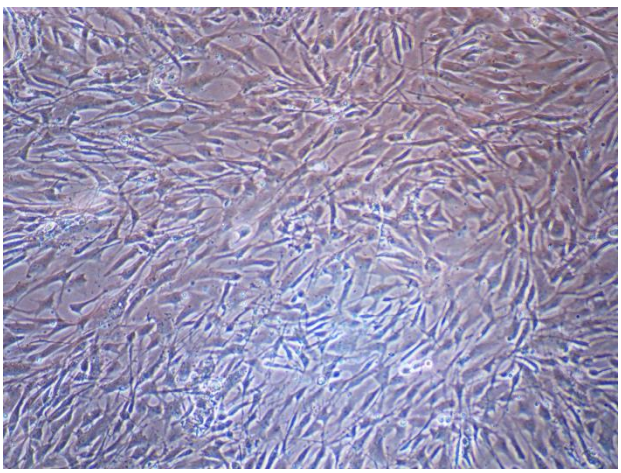
Nucleofector
(Lonza: amaxa)

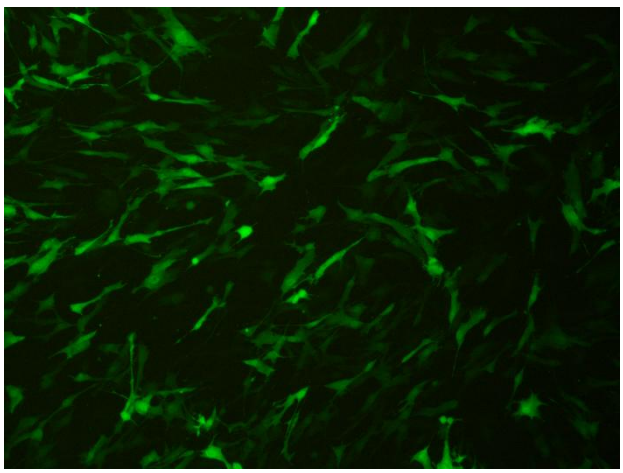
Viabiliry: 95%

Transfection Efficiency: 10%

The University of Tokushima Graduate School, Japan

Primary Mesenchymal Stem Cells

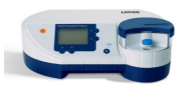




NEPA21
(Nepa Gene)

Viabiliry: 78%

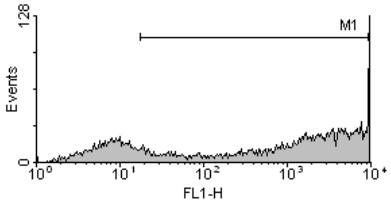
Transfection Efficiency: 75%



Nucleofector
(Lonza: amaxa)

Viabiliry: 20%

Transfection Efficiency: 20%



A Biotechnology Company, Korea

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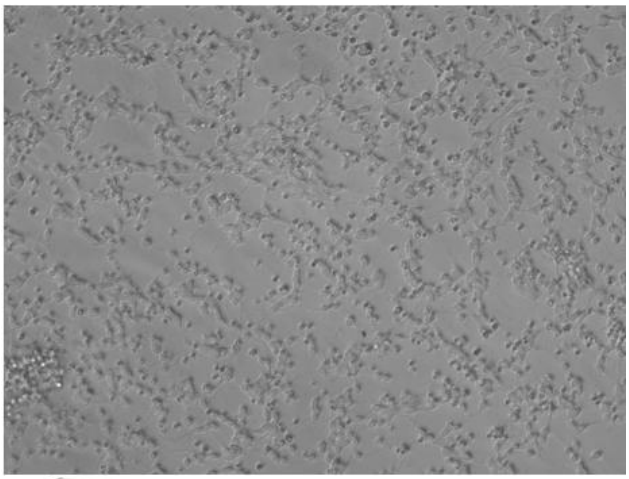
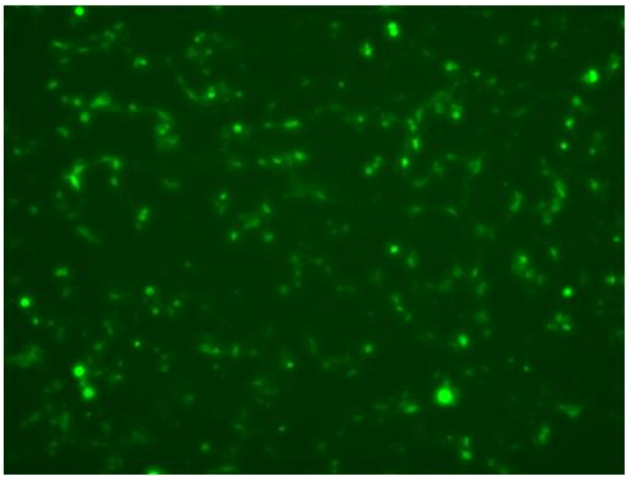
Primary Rat Cerebellar Granule Neurons (CGN)

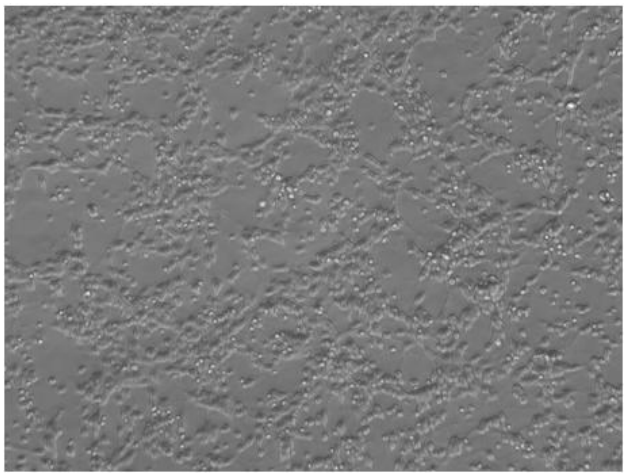


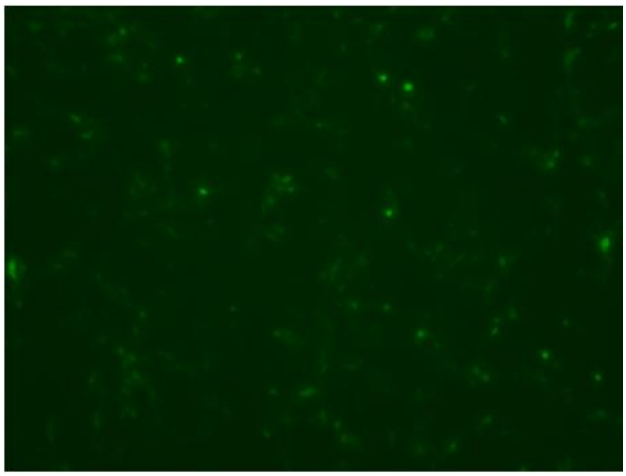


NEPA21
(Nepa Gene)

Viabiliry: 70%

Transfection Efficiency: 80%





Nucleofector
(Lonza: amaxa)

Viabiliry: 65%

Transfection Efficiency: 45%

Graduate School of Biomedical Sciences, Hiroshima University, Japan

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Human Astrocytoma Cells (1321N1)

NEPA21
(Nepa Gene)

Viabiliry: 85%

Transfection Efficiency: 75%

Nucleofector
(Lonza: amaxa)

Viabiliry: 10%

Transfection Efficiency: --

Takasaki University of Health and Welfare, Japan

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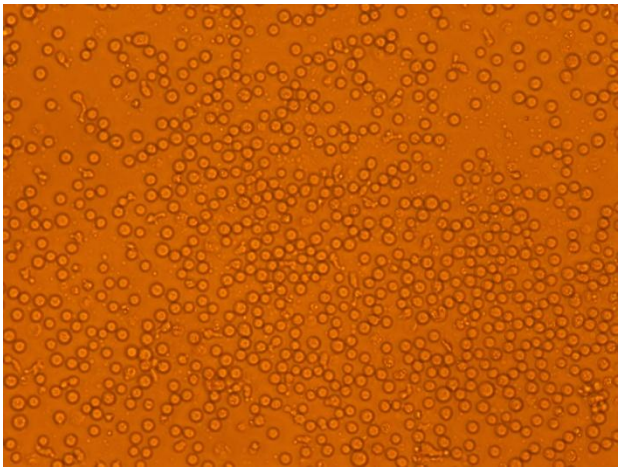
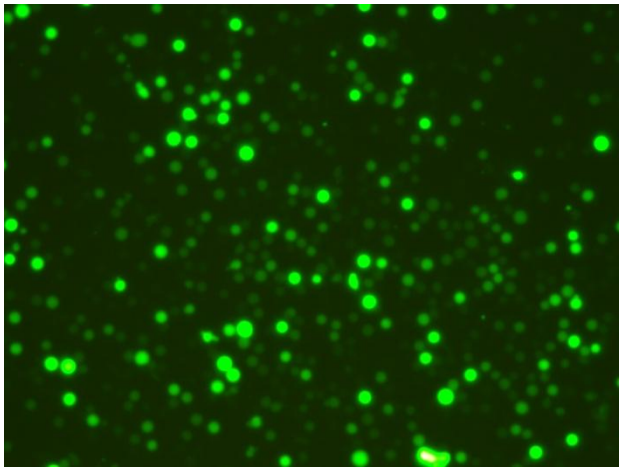
Primary Human T Cells

The cells were cultured and stimulated with CD3 CD28 antibody for 66 hours before Electropation





NEPA21
(Nepa Gene)

Viabiliry: 58%

Transfection Efficiency: 90%

Nucleofector
(Lonza: amaxa)

Viabiliry: 20%

Transfection Efficiency: 60%

Pasteur of Shanghai, Chinese Academy of Sciences, China

RAW264.7 Mouse Macrophage-like Cells

siRNA transfection

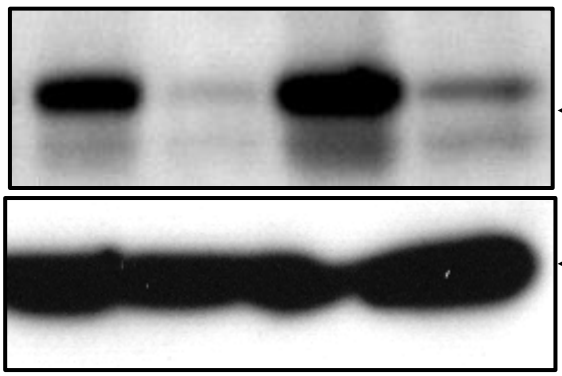
NEPA21
(Nepa Gene)

Nucleofector
(Lonza: amaxa)

\- : negative control siRNA

\+ : TACE siRNA

\- + - +



Keio University School of Medicine, Japan

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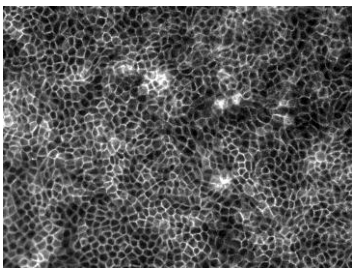
Madin-Darby Canine Kidney Cells (MDCK)

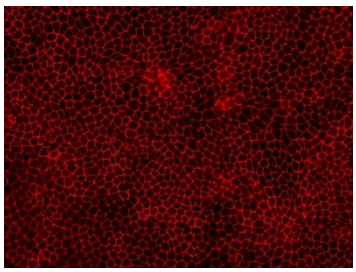
shRNA plasmid transfection

***After EP, the cells were directly seeded on Transwells.**

No Electroporation (EP)



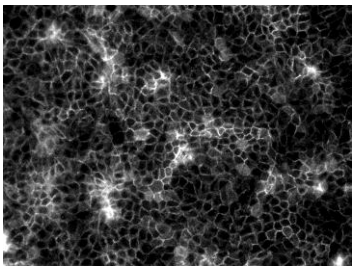
PAR-1b staining



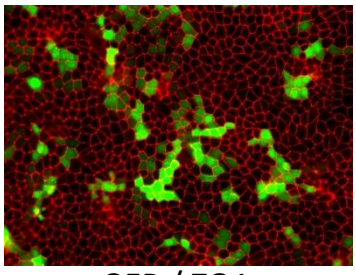
GFP / ZO1

Nonsilencing control (transfected cells were detected with GFP signals)

The cells survived enough for being cultured on Transwells.



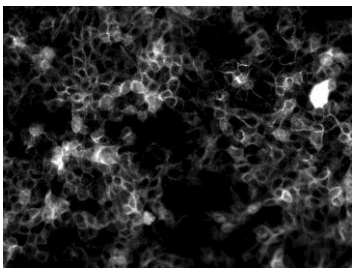
PAR-1b staining



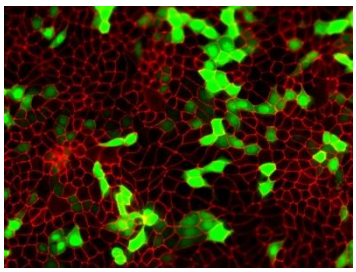
GFP / ZO1

PAR-1b RNAi (transfected cells were detected with GFP signals)

The cells survived enough for being cultured on Transwells.



PAR-1b staining



GFP / ZO1

"Only NEPA21 makes it possible to culture MDCK cells on Transwells after EP. **The amaxa device can not allow such experiments due to severe damage to the cells.**"

Dr. Atsushi Suzuki, Yokohama City University Graduate School of Medical Science, Japan

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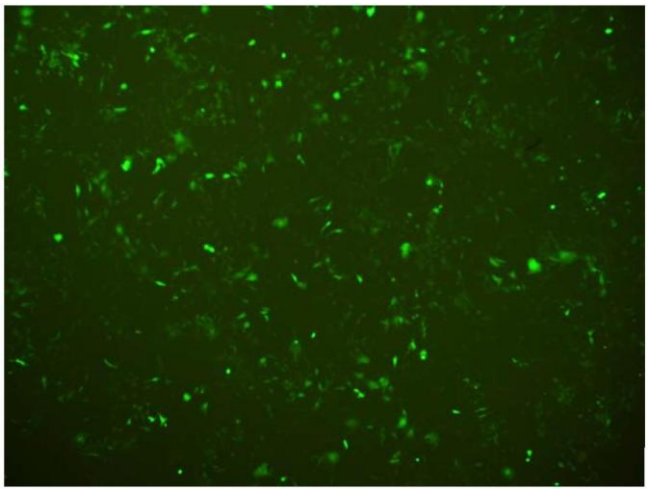
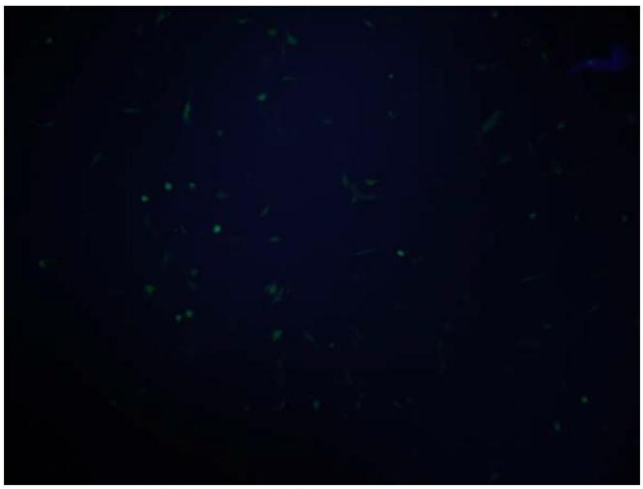
Primary Mouse Embryonic Fibroblasts (MEF)





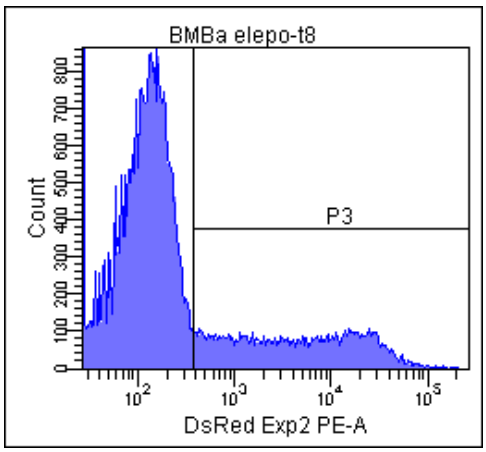
NEPA21
(Nepa Gene)

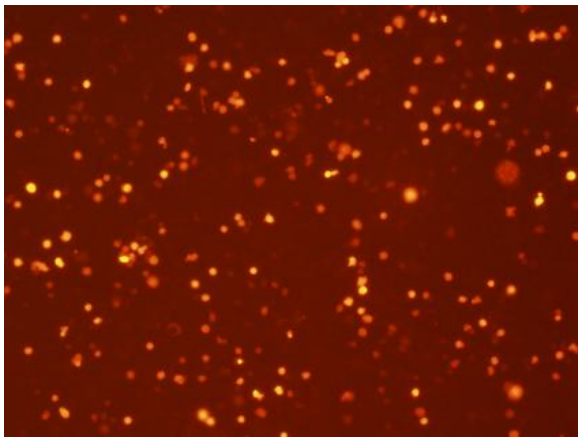
Neon
(Invitrogen)

Viabiliry: 70% Transfection Efficiency: 80%

Shanghai Jiao Tong Unversity School of Medicien, China

BMBa Mouse Bone Marrow-derived Basophils





NEPA21
(Nepa Gene)

Viabiliry: 43%

Transfection Efficiency: 26%

Neon
(Invitrogen)

Viabiliry: 18%

Transfection Efficiency: 23%

Tokyo Medical and Dental University, Japan