Zygote Genome Editing Electroporator

Genome Editor GEB15

Achieves low price by extracting only the functions required for zygote genome editing from CUY21EDITII

Enables high-throughput and highly efficient genome editing

Features

Specialized in zygote genome editing

For genome editing in zygotes conventional microinjection method, in which embryos could be manipulated only one by one under a microscope. The Genome Editing by Electroporation of Cas9 Protein (GEEP) method, published in 2016 with CUY21EDITII, has dramatically reduced working time required for embryo manipulation in zygote genome editing using specialized electrodes (LF501 series and GE series). GEB15 is a simple and low-cost electroporator, which focuses only on the functions required for zygote genome editing equipped in CUY21EDITII.

Provides highly accurate square pulses for in vivo experiments

GEB15 can output not only the same types of square pulses as CUY21EDIT but also pulses with switched polarities. GEB15 can be used for in vivo, in utero, ex vivo, in ovo, and ex ovo experiments which can be performed by CUY21EDIT.
Operating GEB15 is easy with its touch panel. GEB15 can save up to 100 output current values automatically and send data to a personal computer via USB. More than 20,000 protocols, which can be given any name, can also be saved in GEB15.

Specifications

Voltage range	1-200 V in increments of 1 V	Measurement range of resistance	0.000 - 4.00 kΩ
Pulse width (Pon)	0.10 - 1000 ms	Measurement range of impressed current	-1000 - +1000 mA in increments or 1 mA
Pulse interval (Poff)	1.00 - 1000 ms	Number of memorable programs	>20,000
Number of pulses	1-1000 for Pd(+) 1-500 for Pd(+/-) or Pd(ALT)	History of applied pulses	Last 100 patterns (sequentially overwrote) Data can be exported to PC via USB memory

Power unit	Single-phase 100V; 260VA; 50/60Hz
Dimensions/Weight	240 mm(W)-380 mm (D without projections) -190 mm (H without rubber foot), 9kg

* Product specifications are subject to change without notice

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