



NOV 24, 2022

WORKS FOR ME

1

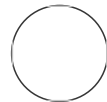
## Luciferase Activity Assay

DOI

[dx.doi.org/10.17504/protocols.io.dm6gpj37dgzp/v1](https://dx.doi.org/10.17504/protocols.io.dm6gpj37dgzp/v1)

Electra Brunialti<sup>1</sup>,  
Alessandro Maria Villa<sup>1</sup>, Paolo Ciana<sup>1</sup>

<sup>1</sup>Department of Health Sciences, University of Milan, Milan, Italy



Electra Brunialti

COMMENTS 0

### ABSTRACT

Luciferase activity assay on cell extracts using Veritas (Turner) luminometer.

DOI

[dx.doi.org/10.17504/protocols.io.dm6gpj37dgzp/v1](https://dx.doi.org/10.17504/protocols.io.dm6gpj37dgzp/v1)

### PROTOCOL CITATION

Electra Brunialti, Alessandro Maria Villa, Paolo Ciana 2022. Luciferase Activity Assay.  
**protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.dm6gpj37dgzp/v1>



### FUNDERS ACKNOWLEDGEMENT

The work was supported by the EU Joint Programme - Neurodegenerative Disease Research (JPND) project GBA-PaCTS, 01ED2005B

### LICENSE

————— This is an open access protocol distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

### CREATED

Nov 22, 2022

### LAST MODIFIED

Nov 24, 2022

### PROTOCOL INTEGER ID

73113

1 Lysate the cell using 1X Luciferase Cell Culture Lysis Reagent (Cat. E1531, Promega) following

manufacturer instruction;

- 2 prepare Reaction Buffer (100µl for each sample): 500 µM luciferin (Cat E160E, Promega), 20 mM Tricine, 0.1 mM EDTA, 1.07 mM (MgCO<sub>3</sub>)<sub>4</sub>·Mg(OH)<sub>2</sub>, 2.67 mM MgSO<sub>4</sub> in H<sub>2</sub>O, pH 7.8, with 33.3 mM DTT and 530 mM ATP.
- 3 put 20 µl/well of cell lysate into the white plate (Cat 3912, Corning);
- 4 turn on the luminometer (Veritas, Turner);
- 5 let the samples' plate and Reaction Buffer equilibrate at room temperature; Insert the plate into the instrument and prime the tube with the Reaction Buffer;
- 6 run the protocol on the luminometer (injection volume 100µl, delay before measurement 0s, integration time 10s)