

Resource Summary Report

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Secreted dual reporter assay with *Gaussia* luciferase and mCherry

DOI:10.17504/protocols.io.kbwcspe

Type: Protocol

Proper Citation

Diana Wider, Didier Picard 2017. Secreted dual reporter assay with *Gaussia* luciferase and mCherry. protocols.io dx.doi.org/10.17504/protocols.io.kbwcspe

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.kbwcspe>

Authors: Diana Wider, Didier Picard

Summary: This is a novel dual reporter assay for transfected tissue culture cells. It is based on the naturally secreted luciferase from *Gaussia princeps* as the main reporter protein and a secreted version of the red fluorescent protein mCherry as internal standard. After first measuring mCherry fluorescence in the medium, an enzyme buffer with coelenterazine as substrate is added to the same sample to trigger a glow-type luminescence of the luciferase. The simple and cheap assay can easily be adapted to a variety of experimental situations and should be an attractive alternative to the currently available commercial kits for dual reporter protein assays.

Associated Publications: Wider D, Picard D (2017) Secreted dual reporter assay with *Gaussia* luciferase and the red fluorescent protein mCherry. PLoS ONE 12(12): e0189403. doi: [10.1371/journal.pone.0189403](https://doi.org/10.1371/journal.pone.0189403)

Affiliations: Dept. of Cell Biology, University of Geneva, Dept. of Cell Biology, University of Geneva

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