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10. Sensitive In Vivo Detection of Primary T Cells Expressing Membrane-Anchored Gaussia Luciferase for the Study of Adoptive T Cell Immunotherapy in Murine Models of Malignancy.
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References citing red and green-emitting luciferases from the Italian firefly *Luciola Italica*:

Note : The red- and green-emitting *Luciola* luciferases are improved significantly brighter versions (mammalian expression) of the luciferases mentioned in the references below.

- 1) "A Redshifted Codon-Optimized Firefly Luciferase is a Sensitive Reporter for Bioluminescence Imaging," H. Caysa, R. Jacob, N. Müther, B. Branchini, M. Messerle and A. Söling, *Photochemical and Photobiological Sciences*, 8: 52-56 (2009).
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- 6) Improved red-emitting firefly luciferase for biotechnical applications. Audrey Davis, Connecticut College, 2009 . Can be accessed at the following link. digitalcommons.conncoll.edu/chemhp/5/
- 7) "Thermostable red and green light-producing firefly luciferase mutants for bioluminescent reporter applications," B.R. Branchini, D.M. Ablamsky, M.H. Murtiashaw, L. Uzasci*, H. Fraga and T.L. Southworth, *Analytical Biochemistry*, 361 (2): 253-262 (2007).
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- 10) "Red- and Green-Emitting Firefly Luciferase Mutants for Bioluminescent Reporter Applications," B.R. Branchini, T.L. Southworth, N.K. Khattak*, E. Michelini, and A. Roda in *Analytical Biochemistry*, vol. 345, pp.140-148 (2005).

Some relevant interesting papers :

1) Visualizing fewer than 10 mouse T cells with an enhanced firefly luciferase in immunocompetent mouse models of cancer Brian A. Rabinovich, Yang Ye, Tamara Etto, Jie Qing Chen, Hyam I. Levitsky, Willem W. Overwijk, Laurence J. N. Cooper, Juri Gelovani, and Patrick Hwu PNAS, Sep 2008; 105: 14342 - 14346.

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