



## mClavGR2 Photoconvertible Reporter Fusion Vectors

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Fluorescent Protein Vectors		
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pmClavGR2-CT	ABP-FP-CLAVC	2
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Allele's photoconvertible proteins allow researchers to track the changes in localization in living cells by changing from green to red. These two fusion vectors are monomeric photoconvertible fluorescent expression vectors with multiple cloning sites for fusions to the C and N termini of mClavGR2. Compared with previously available photoconvertible FPs, mClavGR2 has improved photostability of the red state under confocal illumination conditions, 3644 over mEOS2's 2700 and Dendra2's 2420<sup>[1]</sup>. Most notable among other advantages of mClavGR2 is its monomeric structure, its highly optimized and rapid folding efficiency, and its superior photoconversion efficiency due to the high pKa of the green state.

[1] Hoi H, Shaner NC, Davidson MW, Cairo CW, Wang J, Campbell RE. A monomeric photoconvertible fluorescent protein for imaging of dynamic protein localization. *J Mol Biol.* 2010 Sep 3;401(5):776-91.

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