Cloning & Transgenesis

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Clinical image **Open Access**

Reporter High FiveTM XXL-GFP Cell line Induced by AcMNPV-DsRED Baculovirus Infection

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Clinical Image

The images correspond to a transgenic cell line derived from the lepidopteran cell line High FiveTM that was engineered to express GFP under the control of the AcMNPV (Autographa californica Multiple

Nucleopolyhedrovirus) polyhedrin promoter.

This transgenic cell line (named XXL-GFP) was infected with an AcMNPV that expresses the red fluorescent protein (DsRED) under the control of the polyhedrin promoter. Thus, red fluorescence acts as a marker of the baculovirus infection and green fluorescence acts as a marker of the cell line transgene expression. Images a-b and c-d correspond to the same frame with Red (a and c) or Green (b and d) excitation fluorescence filters.
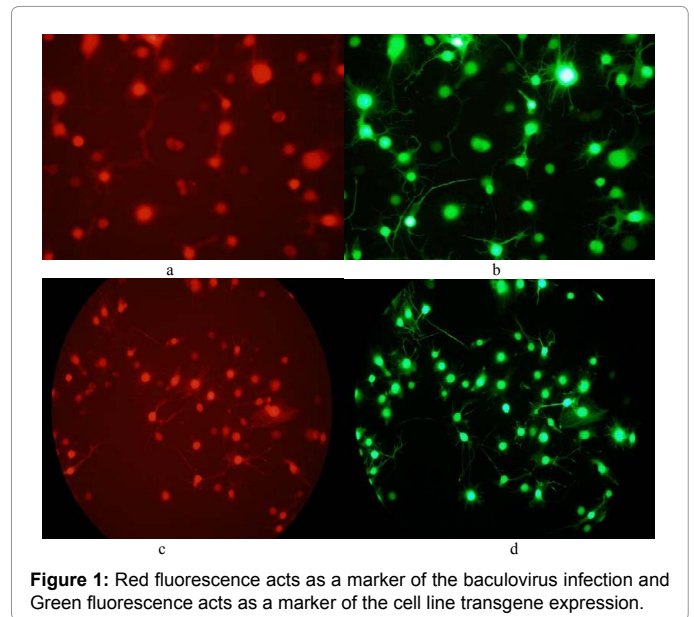

Figure 1: Red fluorescence acts as a marker of the baculovirus infection and Green fluorescence acts as a marker of the cell line transgene expression.

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