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New transgenic techniques using bioactive beads that have entrapped the DNA-lipofectin complex have been developed for introducing exogenous genes.The green fluorescence protein-expressing tobacco BY-2 protoplasts (left, phase contrast images; right, fluorescence images) resulted in fourfold higher transformation efficiency than that by the conventional method.

Related article: Murakawa, T., Kajiyama, S., Ikeuchi, T., Kawakami, S., and Fukui, K., "**Improvement of transformation efficiency by bioactive-beads-mediated gene transfer using DNA-lipofectin complex as entrapped genetic material**", **J. Biosci. Bioeng., vol. 105, 77-80 (2008)**.

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