



一步3'RACE快速构建鸡MnSOD全长cDNA克隆Rapid Construction of Full-length MnSOD cDNA by One-step 3'RACE

摘要

本研究尝试将触减 PCR与3' cDNA末端快速扩增 (rapid amplification of cDNA ends, RACE) 技术结合使用，成功实现了从3'末端cDNA库对鸡含锰超氧化物歧化酶 (manganese-containing superoxide dismutase, MnSOD) 全长cDNA的一步3'RACE快速构建。与常规使用的末端PCR或亚克隆方法相比，该法具有快速、省点。Abstract: RACE(rapid amplification of cDNA ends) is a popular technique to rapidly obtain the full-length cDNA and 5' cDNA fragments with a overlapped region by 3'RACE and 5'RACE, the full-length cDNA could be obtained by PCR or subcloning. In this study, 3'RACE combined with touch-down PCR was successfully used for the rapid construction of full-length MnSOD cDNA of chickens. Compared with the conventional end-to-end PCR or subcloning, this method, called one-step 3'RACE, is simple and highly specific. It especially fits the rapid construction of full-length cDNA by RACE method.

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