

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

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## 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) 技术进行结合, 仅用一条特异性引物和一条通用引物, 成功地实现了从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、省时、经济和特异性好的优点。Abstract: RACE (rapid amplification of cDNA ends) is a popular technique to rapidly obtain the full-length cDNA. After obtaining the 3' cDNA and 5' cDNA fragments with a overlapped region by 3' RACE and 5' RACE, the full-length cDNA could be generated by end-to-end 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 fast, economical and highly specific. It especially fits the rapid construction of full-length cDNA by RACE method.

关键词 [RACE](#) [触减PCR](#) [MnSOD](#) [cDNA](#) Key words [RACE](#) [touch-down PCR](#) [MnSOD](#) [Cdna](#)

分类号

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## Abstract

## Key words

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