

论著

## 含小鼠糖皮质激素受体第二外显子基因片段的克隆和结构分析

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**摘要** 克隆适于构建可调控基因打靶载体的小鼠糖皮质激素受体( GR) 基因片段,为建立糖皮质激素受体基因缺陷型小鼠模型奠定基础。用PCR 扩增小鼠GR 基因第二外显子上562bp 的核酸片段作为探针,筛选小鼠基因组文库,共获得6 个阳性克隆。对C10 克隆进行详细的测序和酶切图谱和Southern 杂交分析后获得一6. 5kb 的基因片段。该片段含完整的GR 基因第二外显子,左右分别有319kb 和114kb 的DNA 片段可作为下一步构建基因打靶载体的同源臂。

**关键词** [基因打靶](#) [糖皮质激素受体基因](#)

## CLONING AND STRUCTURE ANALYSIS OF GENE FRAGMENT BEARING MOUSE GLUCOCORTICOID RECEPTOR GENE EXON II

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**Abstract** To clone a genomic DNA fragment containing mouse glucocorticoid receptor ( GR) gene for the construction of an inducible gene targeting vector used in the establishment of a GR gene deficient mouse model. The mouse genomic library was screened by using a 562bp PCR product from GR gene exon II as a probe. Six positive clones were got after screening. The DNA of positive clones was profoundly characterized by sequencing , restriction mapping and Southern blotting to get the right fragment . A 6. 5 kb DNA fragment was separated from the C10 clone. The gene fragment contains entire GR gene exon II , and two flanking fragments which are 3. 9 kb and 1. 4 kb respectively can be used as homologous arm in the construction of the targeting vector.

**Keywords** [gene targeting](#) [glucocorticoid receptor gene](#)

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