# 人类YAC库PCR三维筛选体系的建立及质量考核

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为了在知道某个区域、位点、基因或DNA片段的部分信息后,能从CEPH YA C库中筛选出与其对应的YAC克 隆,为进一步研究奠定基础,需要建立一个筛选体系。本文概述了这一筛选体系的建立过程。随后,用两对与已知基<mark>▶加入我的书架</mark> 因对应的引物进行了筛选验证工作,证明了这一体系的可用性,同时提出了以后筛选的途径,即首先筛选YAC库的 Mega YAC部分, 并以5块板为一组进行筛选。另外, 运用荧光原位杂交技术(FISH), 对CEPH YAC库的质量及其第一代 人类基因组物理图谱进行了考察。我们取26个YAC克隆进行FISH定位,结果其中嵌合体13个,占50%。定位错误的克 隆有6个,占23%。非嵌合体且定位正确的共9个,占35%。

CEPH YAC库 PCR筛选体系 荧光原位杂交 FISH 关键词

分类号

# The Establishment of a Three Dimensional PCR Screening System and **Quality Evaluation of Human YAC Libary**

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#### Abstract

In order to screen out YAC clones in the CEPH YAC library related to a definite gene DNA fragment or locus, we need to establish a screening system. This paper includes the establishment of this system and the evaluation of its feasibility. According to the experiments, we suggest that it is better to screen the Mega YAC part of the library at first and put five culture plates as a group. Meanwhile, FISH experiments to assess the quality of CEPH YAC library and the first generation physical map of human genome, Were conducted FISH experiments on 26 YAC clones were corrid out. There were 13 clones that were chimeric (about 50%), 6 clones that were mapped correctly and were not chimeric (about 35%).

**Key words** CEPH YAC library PCR screening system FISH

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