遗传　2002 24 (3): 263-266　ISSN: 0379-4172　CN: 11-5450/R

香猪肌肉组织cDNA文库的构建及其EST测序成功率的分析 Analysis of Succeed Percentage on Sequencing ESTs and Construction of Porcine Muscle cDNA library

王秀利1,3,李宁2,赵志辉2,冯继东2,赵兴波1,李长绿1,吴常信1 WANG Xiu-li1,3,LI Ning2,ZHAO Zhi-hui2,FENG Ji-dong2,ZHAO Xing-bo1,LI Chang-lv1,WU Chang-xin1

1．中国农业大学动物科技学院，北京100094； 2．中国农业大学农业生物技术国家重点实验室，北京100094； 3．黑龙江八一农垦大学动物科技学院， 密山 158308 1．College of Animal Science and Technology,China Agricultural University,Beijing 100094,China; 2．National Laboratory for Agrobiotechnology of China Agricultural University,Beijing 100094,China; 3．College of Animal Science and Technology,Heilongjiang August First Land Reclamation University,Mishan 158308,China

收稿日期　修回日期　网络版发布日期　接受日期

摘要　以香猪背最长肌为实验材料，以Lambda ZAP II为载体，构建了肌肉组织的cDNA文库。结果表明，cDNA文库的滴度在3.4×107 pfu/ml以上，重组率在94%以上，插入片段大小平均在1.5kb以上。同时指出，如果从3′端测序，多于30 个碱基T的插入片段是造成ESTs测序成功率低的主要因素。

Abstract:Using Longissimus Dorsi muscle as material and Lambda ZAP II as Vector,Xiang Pig Longissimus Dorsi muscle cDNA library has been constructed in our study.The results showed that the tritation of the library was 3.4×107 pfu/ml, the recombinant percentage was 94%, and the fragment length of inserted average cDNA were 1.5kb.The study pointed out that the more than 30 T insertion is the major factor for low percetage if sequencing the 3′-end.

关键词　香猪　背最长肌　cDNA文库　ESTs Key words　xiang pig　longissimus dorsi muscle　cDNA library　ESTs

分类号

Abstract

Key words

DOI:

通讯作者