

# 吉林双阳型梅花鹿sentrin/SUMO的发现 Discovery of Cervus nippon Temminck-derived sentrin/SUMO

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**摘要** 为了确定梅花鹿未知的编码区cDNA, 我们利用TaKaRa公司的cDNA 合成试剂盒及PCR cDNA文库试剂盒, 构建了吉林双阳型梅花鹿子宫PCR cDNA文库。将文库的PCR产物克隆入pGEM-Teasy载体并进行测序后, 应用BLAST网络服务对测得的序列在GenBank数据库中进行同源性比较。结果显示构建的PCR cDNA文库中包含有不同长度的cDNA片段, 而且自该文库中我们发现了一与人sentrin-1/SUMO-1 (small ubiquitin-related modifier 1) 高度同源的全编码区cDNA序列。此序列已在Genbank登录, 登录号为AF 242526。这说明我们自梅花鹿子宫PCR cDNA文库中发现了梅花鹿的sentrin/SUMO基因。

**Abstract:** In order to identify unknown encoding cDNAs of Cervus nippon Temminck (sika deer), we constructed a cDNA library of uterus from Jilin-Shuangyang Cervus nippon Temminck using PCR cDNA library kit. PCR products of the library were cloned into pGEM-Teasy vectors and the cDNAs were sequenced and analyzed by nucleotide homology comparison against GenBank Database using the BLAST network service. The results showed that the cDNA library contained cDNA fragments of different lengths and a full length encoding cDNA highly homologous to human sentrin-1/SUMO-1 (small ubiquitin-related modifier 1) was identified. The cDNA was deposited in GenBank under the accession number AF 242526. These show that Cervus nippon Temminck-derived sentrin/SUMO gene has been discovered from PCR cDNA library of uterus from Cervus nippon Temminck.

**关键词** [梅花鹿](#) [cDNA文库](#) [sentrin/SUMO](#) **Key words** [cervus nippon temminck](#) [cDNA library](#) [sentrin/SUMO](#)

分类号

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## Abstract

## Key words

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