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## 杜氏利什曼原虫表达位点相关基因样蛋白的分子克隆及表达定位

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## Molecular Cloning and Localization of Leishmania donovani Expression Site Associated Genes-like Protein

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## 摘要

## 服务

目的 克隆杜氏利什曼原虫 (*Leishmania donovani*) 无鞭毛体特异表达新基因, 观察其编码蛋白的亚细胞定位。方法 制备杜氏利什曼原虫前鞭毛体和无鞭毛体mRNA, 以消减抑制杂交技术筛选无鞭毛体新的表达序列标签, 扩增含有新表达序列标签的基因全长cDNA, Northern杂交和RT-PCR检测新基因在前鞭毛体和无鞭毛体中的表达, 共表达方法观察杜氏利什曼原虫内新基因编码蛋白的亚细胞定位。结果 构建了杜氏利什曼原虫无鞭毛体表达序列标签消减文库, 克隆到一个新基因, 命名为表达位点相关基因样蛋白 (ESAGLP) 基因, 其cDNA全长为2 258 bp, 编码620 aa。ESAGLP基因仅在无鞭毛体内表达, 其编码蛋白定位于线粒体。结论 ESAGLP鉴定为杜氏利什曼原虫无鞭毛体新基因, 其编码蛋白定位于无鞭毛体的线粒体。

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关键词: 杜氏利什曼原虫, ESAG样蛋白, 表达, 定位, 消减抑制杂交

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Objective To clone the novel gene that specifically expressed in the amastigotes of *Leishmania donovani*, and observe subcellular localization of the gene encoding protein. Methods mRNA from promastigotes and amastigotes of *L. donovani* were prepared. The novel expressed sequence tag of amastigotes was selected by suppression subtractive hybridization. The expression of the novel gene in different stages of *L. donovani* was detected by Northern hybridization and semi-quantitative RT-PCR. The subcellular localization of the novel gene encoding protein was observed. Results The subtractive library of the specifically expressed sequence tag of amastigotes was constructed, and a novel gene designated as expression site associated genes-like protein (ESAGLP) gene was cloned. The full length of ESAGLP cDNA was 2 258 bp. The open-reading frame encoded a polypeptide of 620 amino acid residues. ESAGLP gene expressed only in amastigotes, the encoding protein was localized in the mitochondria. Conclusion The ESAGLP gene is identified as a novel gene which specifically expressed in *Leishmania donovani* amastigotes, and its encoding protein is localized in the mitochondria.

**Key words:** *Leishmania donovani* ESAG-like protein Expression Localization Suppression subtractive hybridization

## 引用本文:

刘鹏, 张仁刚, 张洁, 敬保迁. 杜氏利什曼原虫表达位点相关基因样蛋白的分子克隆及表达定位[J]. 中国寄生虫学与寄生虫病杂志, 2014, 32(5): 1-327-333. LIU Peng, ZHANG Ren-gang, ZHANG Jie, JING Bao-qian. Molecular Cloning and Localization of *Leishmania donovani* Expression Site Associated Genes-like Protein., 2014, 32(5): 1-327-333.

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