

レプトスピラ インテロガンスの5S リボソームRNA遺伝子

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Isolation and characterization of the 5S rRNA gene of *Leptospira interrogans*.

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ABSTRACT The gene encoding the 5S rRNA for *Leptospira interrogans* serovar canicola strain Moulton was isolated and sequenced. The 5S rRNA gene occurs as a single copy within the genome and encodes a 117-nucleotide-long RNA molecule. The 5S rRNA gene is flanked at both the 5' and 3' ends by regions of A + T-rich sequences, and the 5'-flanking region contains a promoter sequence. *L. interrogans* has a unique and remarkable organization of the 5S rRNA gene. The 5S rRNA molecule exhibits a strong similarity to typical eubacterial 5S rRNA in terms of overall secondary structure, while the primary sequence is conserved to a lesser degree. Restriction analysis of the 5S rRNA gene indicated that the DNA sequence including the 5S rRNA gene is highly conserved in the genomes of parasitic leptospires.

抄録 病原性レプトスピラは5SのリボソームRNA遺伝子を染色体上に一本だけ有している。この遺伝子を分離、塩基配列を決定した。またプライマーエクステンション実験を行い、この遺伝子が実験に独自のプロモータを有し、転写されている事を明らかにした。