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Sequence analysis of a 1.6kb repetitive element from a porcine isolate of *Trichinella spiralis*

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A 1.6kb repetitive DNA band from an EcoRI digest of a porcine isolate of Trichinella spiralis was ligated to the EcoRI site of the plasmid pUC9, producing the plasmid pPra. Hybridization studies indicated that the repetitive band had a tandem organization (1). Hybridization with Trichinella isolates from a variety of wild and domestic hosts indicated that pPra is a useful probe for this parasite.

Fragments of pPra were subcloned into M13mp18/19 vectors, and the insert was sequenced in both directions using the dideoxy sequencing method. Probing of the GenBank sequence data bank showed no significant homologies to eukaryotic DNA or structural RNA sequences. Two possible open reading frames exist, one from 633-887, and the other from 811-1199, but we have no evidence for transcription.

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GAATTCTGAATTGCAGGTTCGATGTCTGACCTTTAAAACAACCTCCTCGATGGATTATTC   60
TTCATGATATTGCAACTTCTATGGGTTAGCTAATGTCTTCTATTCTGCTACTGCTAACAC  120
TTCGACGAATATTTCTTTAGGATTCTTCTTGCAGAACAGTGCGAATCATTTGATTATATC  180
GATTTTAATAAATGAAAAGCTTGTAAAGCGGTGGTGCGTATTCCATTCTTGAGCCACACC  240
ATTAATGTGATTGGCTATTTATTTTGCAACCTATTTTATCGAATTTCATCTCTCAATTTT  300
ACACATTCATACCTATGCTTTTCCACCGGGAATGGTATTAATCGCTTCACCGCCATGTCT  360
GTAACACCAGTAAATACTCGTGAAGCTTTGCTAATCATTGCATTTCACAGCGCCCTAACG  420
AATATGAGCGGTTTGTCGATGTGTAAACTATAATAAGGGTTCTTCTTACCAATTTTCCGG  480
ATTTGTACCTGTGTTTCTCCGCACACATGTTTGGTAATGGTTCCTCTCTATGGAATGTAA  540
TACTCTCTAATATAGTCGAGCATTGTTAATCATTCCATTTCAGAGCGCTCCAAGGAATAT  600
ACACGGTCAATCGGTACACAAACTCTGGTAAGCAGTTACTCTTACCAATATTGCGGATTT  660
CTACCAGTGTTTCTCCCCACAGATGTCAGGTAATGTTGCCTCTCTATGGCCTGCTATACT  720
TTCTAAGATAGGTAAACATGTTAATCTTTGCATTTCATTTCAGACAGCACCAAGGAATAT  780
GAGCGGTTGTTCGGTATGCAAACTCTGGAGAGTAATTCCTGACTCTTCCTGTGTTTCTAC  840
GCTCAGAAATCAGCTAATGTTCCTTTGTATTGTCTGTAACAGCAGCTGACATGTCAAAGC  900
CATGTTAATCAATTTCATTTTACTTCACCACCAAAAGCATGATCAATCATTCGTTATTCA  960
CCATCTTGAATGCTTTTTCCTGCAGGGATCTTCGGCACGTATGACTTGTTATTCCACAGA 1020
AAATAATTATGATCGTATGACTGCAGTGACGAGAATTTCAGCTTCACTGCACAGCAGTTG 1080
TAATACAGCCTGTTACATTTTAAAATCGACAGTTACTACCCACTTGCAGTTCGTTTTATC 1140
ATTGGTAATATTACAGAACTTGAAAATCATTAATGTCTACTGTAAGATTACTGTATTTTA 1200
AAAATAGAATTATTTATGAAAAATAATACCATTTTGTGTATTTGATTAAATTGCTTATAG 1260
TTGATATATTGCAATTGTTACAGTGTCTAGAGTAAAAATTCCATGTAACCAAACGACAGT 1320
TTTCGTTTCGTTTAAAATCAACTGTTTGCGTCAGATACTTCGTATTGGATGAAGATTGTG 1380
CAGTTTTTGATTCAGTCAGATTTTACGCTTAAATAGTCACCTTAATTGATTTTTCTATAG 1460
TGTGCAGTTGATGCGGTTTAAAAAAGGAACCAGTATAATACCAAAAAACATGATTTGATC 1500
AGTATGATCTGCAAGAAAAACGTTGATTCGTGATATGATCGTTCATGTAGTTTGAGTTGA 1560
AGCTACTTCAATTATCACGCAGTGTATGAACGACATTCCCCGCACCTGAATTC         1613
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