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FURTHER EVIDENCE THAT GENOTYPE I AND C *CRYPTOSPORIDIUM PARVUM* ARE DISTINCT

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Abstract: Three new genes of *Cryptosporidium parvum* were cloned, encoding methionine aminopeptidase, one encoding chaperonin containing protein 1 delta (TCP-1 delta) and one with unknown function. DNA analysis indicated that these genes are quite conserved, but there were some differences between genotype I and genotype II isolates. These differences were confirmed by restriction fragment length polymorphism (PCR-RFLP) analysis of 10 isolates collected from different hosts and geographical origins. In b

generated by endonuclease Hind III or Hinf I restrictions of the gene aminopeptidase, Sac I restriction of the gene of chaperonin, or Ava unknown gene could differentiate the isolates of *C. parvum* into genotype I and genotype II. PCR primers based on these genes amplified only *C. parvum* genotype I. The oocyst was detectable with these PCR primers. Thus the results prove that genotype I and genotype II are distinct, and our three new primers can detect and characterize *C. parvum* isolates with high sensitivity.

Key words: [Cryptosporidium parvum](#), [methionine aminopeptidase gene](#), [PCR-RFLP](#)

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