# Nucleotide sequence of group antigen (VP6) of the UK tissue culture adapted strain of Bovine Rotavirus 

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A full length c-DNA clone corresponding to RNA segment 6, which encodes the group antigen VP6 (1), of the UK tissue culture adapted strain of Bovine Rotavirus was isolated from a pAT153 library (2). The nucleotide sequence of the viral insert was determined by dideoxy sequencing following subcloning into m 13 . The final sequence obtained was 1356 base pairs and contained the terminally conserved sequences found on all group A rotavirus genes (3). The gene contained a single long open reading frame (bases $24-1214$ ) giving rise to a group antigen (VP6) of 397 amino acids with a calculated molecular weight of 44873. Comparison of the UKtc gene 6 sequence with that from the other strain of rotavirus subject to intensive molecular analysis, namely the simian virus SA11 (4), showed that the UKtc gene had a single base deletion in the 3 ' non-coding sequence but the overall sequence conservation was high ( $87.8 \%$ at the nucleotide level and $97.5 \%$ at the amino acid level). The gene 6 sequence of the RF strain of bovine rotavirus (5) was even more similar to that of the UKtc reported here ( $97.8 \%$ at the nucleotide level and $99 \%$ at the amino acid level).

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