The sequence of cDNA of bovine coronavirus 32K nonstructural gene

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In addition to the four structural proteins of bovine coronavirus a minimum of four virus-encoded nonstructural proteins are found in infected cells. The nucleotide sequence of the NS 32 is presented. The gene is situated immediately upstream from the E3 gene and terminates within the NS32-E3 conserved intergenic region. An ORF extends from nucleotides 15 to 845 and the computer generated translational product of 32K is in agreement with our observations (unpublished) and reports for other coronaviruses. In addition to the conserved intergenic region (single underline) this gene shares homology (65% at the nt level, 45% at the aa level) with the ORF-1 in mRNA2 of MHV-A59.

References