The complete nucleotide sequence of genome segment 7 of bluetongue virus, serotype 1 from South Africa

A.M.Wade-Evans
Institute for Animal Health, Pirbright Laboratory, Ash Road, Pirbright, Woking, Surrey, UK

Submitted July 16, 1990 EMBL accession no. X53740

The complete sequence of genome segment 7, of bluetongue virus, serotype 1 South Africa (BTV1SA), which encodes the serogroup-specific antigen, VP7 (1), was determined from a full length cDNA clone synthesized using terminal oligonucleotides as primers (2). Genome segment 7 from BTV1SA is the same length as the corresponding segment from BTV10 (3). 1156 nucleotides with an open reading frame of 349 amino acids. Comparison of the two clones at the nucleotide level revealed an homology of 88.9%. The homology at the amino acid level was 98.3% identity and 98.9% similarity (including conservative changes).

REFERENCES