

# Bovine Viral Diarrhea Virus

## A Key Member of the Pestivirus Genus

Bovine viral diarrhea virus (BVDV) is a significant pathogen affecting bovine species worldwide. It belongs to the genus **Pestivirus** within the family **Flaviviridae**, which also includes other viruses impacting sheep and swine, such as **border disease virus (BDV)** and **classical swine fever virus (CSFV)**. These viruses collectively cause substantial economic losses to the global livestock industry.

BVDV is a positive-sense, single-stranded RNA virus with an enveloped structure and a genome approximately **12.5 kb** in size. It encodes a single polyprotein that undergoes post-translational cleavage by viral and cellular proteases to form four structural proteins (**C, Erns, E1, and E2**) and eight nonstructural proteins (**Npro, p7, NS2, NS3, NS4A, NS4B, NS5A, and NS5B**).

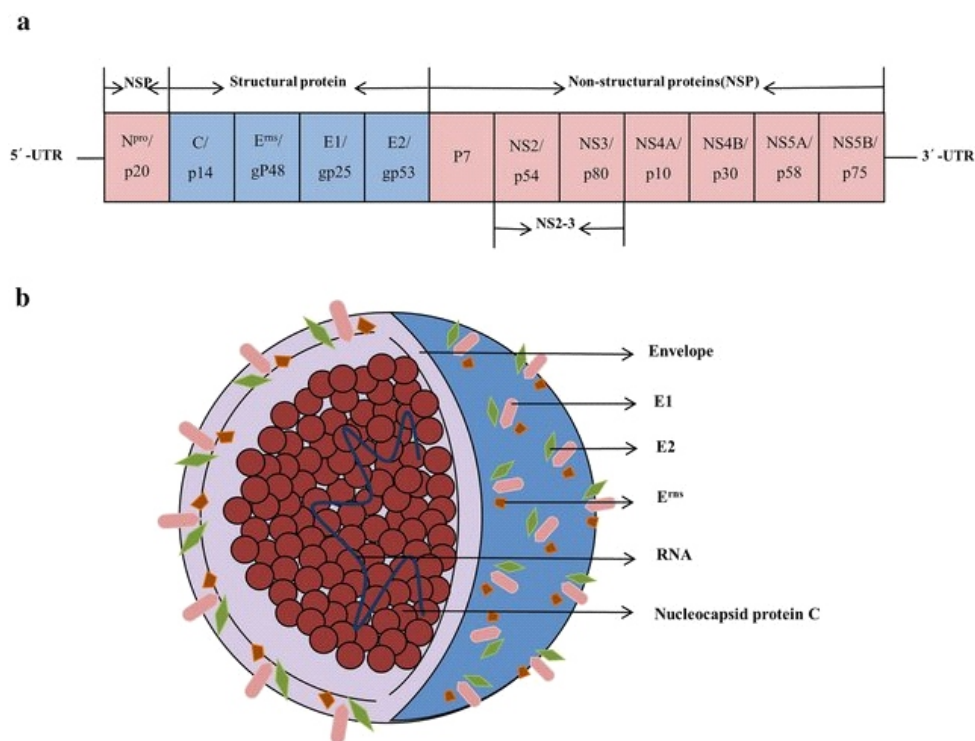


Fig 1. The schematic diagram of the genome and morphological structure of BVDV (Virus Genes)

### Protein

Catalog No.	Product Name
VK778011	Recombinant BVDV Glycoprotein E2 Protein, C-His
VK778021	Recombinant BVDV Glycoprotein E2/gp55 Protein, C-Fc
VK778031	Recombinant BVDV Glycoprotein E2/gp53 Protein, C-His
VK778032	Recombinant BVDV NS3/p80 Protein, N-His
VK778042	Recombinant BVDV NS2/p54 Protein, N-GST & C-His
VK778052	Recombinant BVDV E(rns)/gp44/48 Protein, N-His
VK750031	Recombinant CSFV Glycoprotein E2/gp55 Protein, N-His
VK750021	Recombinant CSFV E2 glycoprotein Protein, C-Strep-His
VK750011	Recombinant CSFV E2 glycoprotein Protein, C-Fc (Pig IgG3)
VK687011	Recombinant CSFV NS5B Protein, C-His
VK404011	Recombinant CSFV N-Pro Protein, C-His
VK404012	Recombinant CSFV N-Pro Protein, N-His
VK463022	Recombinant CSFV NS5A Protein, N-His
VK463012	Recombinant CSFV NS5B Protein, N-His
VK803012	Recombinant CSFV NS4A Protein, N-His-SUMO

### Monoclonal Antibody

Catalog No.	Product Name
VK778013	Anti-BVDV Envelope glycoprotein E2/gp55 Antibody (H15)
VK778023	Anti-BVDV Envelope glycoprotein E2/gp55 Antibody (H18)
VK778033	Anti-BVDV Envelope glycoprotein E2 Antibody (ABS1147)
VK778043	Anti-BVDV Envelope glycoprotein E2 Antibody (ABS1174)
VK778053	Anti-BVDV Envelope glycoprotein E2 Antibody (ABS1128)

### Polyclonal Antibody

Catalog No.	Product Name
VK778024	Anti-BVDV E2 glycoprotein Polyclonal Antibody
VK778014	Anti-BVDV Envelope glycoprotein E2 Polyclonal Antibody
VK778034	Anti-BVDV NS3/p80 Polyclonal Antibody
VK778044	Anti-BVDV NS2/p54 Polyclonal Antibody
VK778054	Anti-BVDV E(rns)/gp44/48 Polyclonal Antibody
VK778064	Anti-BVDV Glycoprotein E1/gp33 Polyclonal Antibody
VK404014	Anti-CSFV N-Pro Polyclonal Antibody
VK463014	Anti-CSFV NS5A Polyclonal Antibody
VK463034	Anti-CSFV E(rns)/gp44/48 Polyclonal Antibody

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