

# Porcine epidemic diarrhea virus

**Porcine epidemic diarrhea virus (PEDV)** is an emerging and re-emerging coronavirus that causes severe vomiting, acute diarrhea, dehydration, and up to 100% mortality in neonatal piglets. This highly contagious disease leads to substantial economic losses in the global swine industry. Vaccination remains the most effective and promising strategy to prevent and control PEDV.

PEDV is an enveloped virus with a single-stranded, positive-sense RNA genome belonging to the genus Alphacoronavirus. Its genome is approximately 28 kb in size, encoding 16 non-structural proteins (nsp1-nsp16), as well as critical structural proteins including the **spike protein (S)**, **envelope protein (E)**, **membrane protein (M)**, and **nucleocapsid protein (N)**.

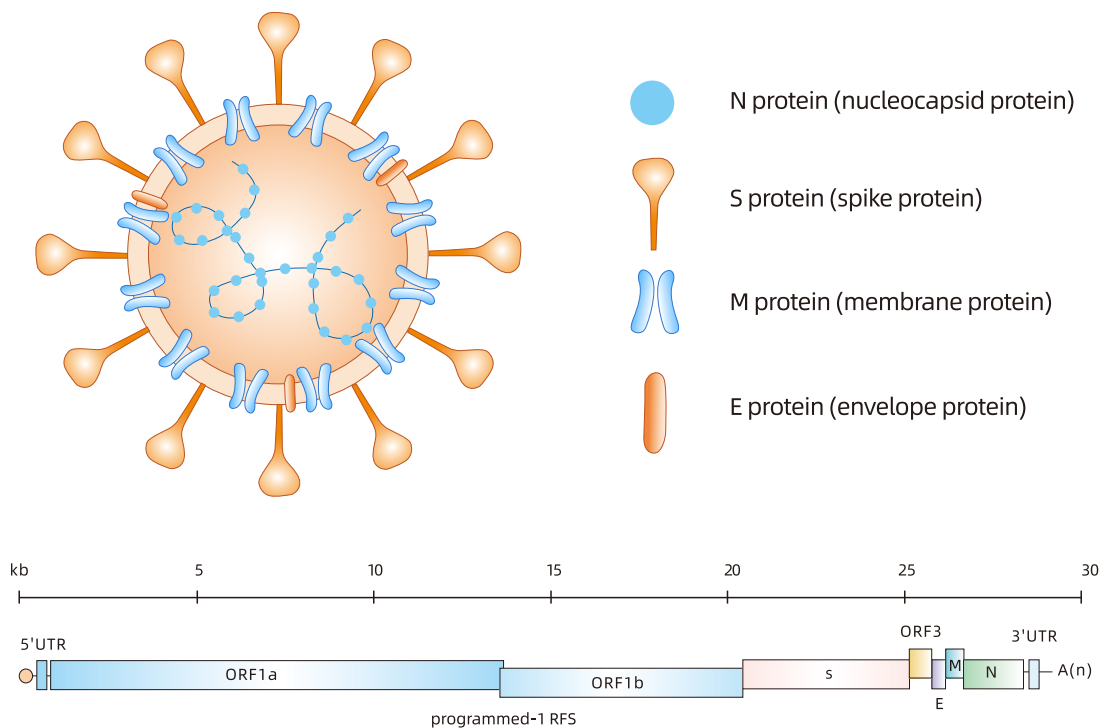


Fig.1 Schematic representation of PEDV genome organization and virion structure

Catalog No.	Product Name
<b>Protein</b>	
VK727022	Recombinant PEDV N/Nucleoprotein Protein, N-His & C-His
VK727032	Recombinant PEDV N/Nucleoprotein Protein, C-His
VK564012	Recombinant PEDV S1/Spike glycoprotein 1 Protein, N-His & C-His
VK564022	Recombinant PEDV S2/Spike glycoprotein 2 Protein, N-His & C-His
VK564032	Recombinant PEDV S1/Spike glycoprotein 1 Protein, N-His
VK564042	Recombinant PEDV S2/Spike glycoprotein 2 Protein, N-His
VK564062	Recombinant PEDV Spike glycoprotein (RBD) Protein, N-His
VK564072	Recombinant PEDV S/Spike glycoprotein Protein, C-Strep
VK564082	Recombinant PEDV Nsp5/Mpro/3CL Protein, N-His
VK564011	Recombinant PEDV S/Spike glycoprotein Protein, C-His
VK564021	Recombinant PEDV S/Spike glycoprotein Protein, C-His
VK564031	Recombinant PEDV Spike glycoprotein (RBD) Protein, C-His
VK564041	Recombinant PEDV Spike glycoprotein (RBD) Protein, C-Fc
<b>Polyclonal Antibody</b>	
VK727014	Anti-TGEV N/Nucleoprotein Polyclonal Antibody
VK727024	Anti-PEDV N/Nucleoprotein Polyclonal Antibody
VK727034	Anti-PEDV N/Nucleoprotein Polyclonal Antibody
VK564014	Anti-PEDV Spike glycoprotein (RBD) Polyclonal Antibody
VK564024	Anti-PEDV S1/Spike glycoprotein 1 Polyclonal Antibody
VK564034	Anti-PEDV S2/Spike glycoprotein 2 Polyclonal Antibody
VK564044	Anti-PEDV Nsp5/Mpro/3CL Polyclonal Antibody
VK564054	Anti-PEDV S1/Spike glycoprotein 1 Polyclonal Antibody
VK564064	Anti-PEDV S2/Spike glycoprotein 2 Polyclonal Antibody
<b>Kits</b>	
VK564018	PEDV Spike glycoprotein (RBD) ELISA Kit
VK727018	PEDV NP/Nucleoprotein ELISA Kit

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