

# ViroReal<sup>®</sup> Kit CSF Virus



For veterinary use only

## ViroReal<sup>®</sup> Kit CSF Virus

Order no.	Reactions	Pathogen	Internal positive control
DVEV02313	100	FAM channel	Cy5 channel
DVEV02353	50	FAM channel	Cy5 channel
DVEV02311	100	FAM channel	VIC/HEX channel
DVEV02351	50	FAM channel	VIC/HEX channel

### Kit contents:

- Detection assay for classical swine fever virus
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and/or RNA extraction)
- RNA reaction mix for one-step reverse transcription real-time PCR
- Nuclease-free water
- Positive control (RNA) for CSF virus

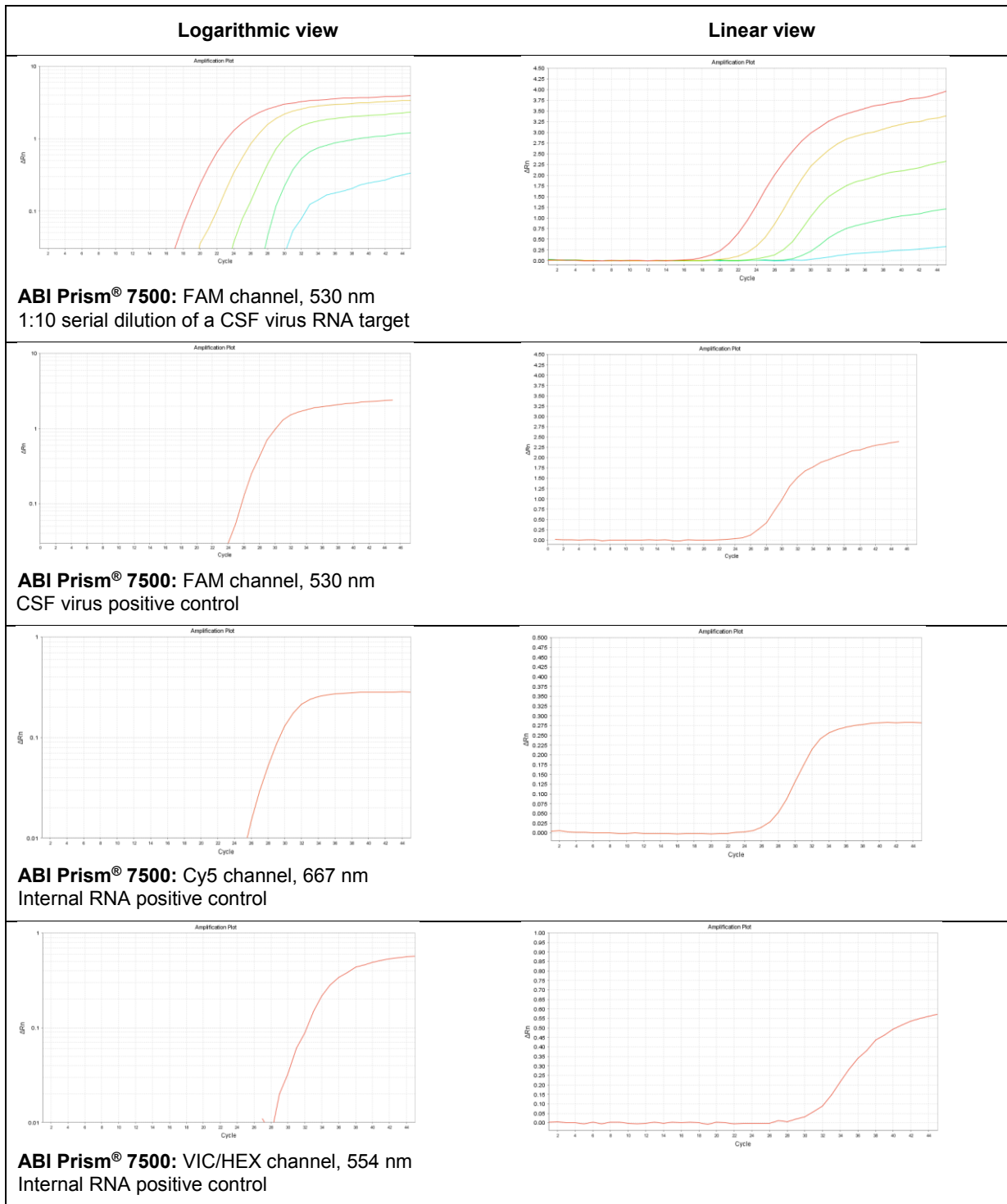


**Background:** The CSF virus is a single strain, positive-sense ((+)sRNA) RNA virus belonging to the genus *Pestivirus* in the family *Flaviviridae*. This virus is closely related to the ruminant pestiviruses that cause bovine viral diarrhoea (BVDV) and border disease (BDV) of sheep, both of which can naturally also infect pigs causing reproductive problems. The CSF virus is the infectious agent of classical swine fever (CSF) or hog cholera (also sometimes called pig plague based on the German word “Schweinepest”), which is a highly contagious disease of swine. Swine fever causes fever, skin lesions, convulsions, and usually death. The effect of different CSF virus strains varies widely, leading to a wide range of clinical signs. There is only one serotype of the virus and attenuated vaccines are available.

**Description:** ViroReal<sup>®</sup> Kit CSF Virus is based on the amplification and detection of the 5'UTR of the CSF virus genome by one-step reverse transcription real-time PCR (RT PCR). It allows the rapid and sensitive detection of CSF virus RNA purified from tissue samples (e.g. tonsils, kidney, spleen), nasal swabs, tonsil scrapings or blood (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

**PCR-platforms:** ViroReal<sup>®</sup> Kit CSF Virus is developed for the ABI PRISM<sup>®</sup> 7500 instrument (Thermo Fisher Scientific), LightCycler<sup>®</sup> 480 (Roche) and Mx3005P<sup>®</sup> QPCR System (Agilent), but is also suitable for other real-time PCR instruments.

**Sensitivity and specificity:** ViroReal<sup>®</sup> Kit CSF Virus detects at least 400 target copies/PCR reaction. The limit of detection (LoD<sub>95</sub> = smallest number of copies of target RNA which can be detected in 95% of cases) is 600 target copies/reaction. The kit cross-reacts with BVDV and BDV, both of which can naturally also infect pigs causing reproductive problems.



**BactoReal®, MycoReal, ParoReal and ViroReal® Kits run with the same thermal cycling conditions. RNA and DNA material can be analysed in one PCR run.**

For further information on our products please visit our homepage ([www.ingenetix.com](http://www.ingenetix.com))