

# ViroReal<sup>®</sup> Kit Bovine Norovirus



For veterinary use only

## ViroReal<sup>®</sup> Kit Bovine Norovirus

Order no.	Reactions	Pathogen	Internal positive control
DVEV02613	100	FAM channel	Cy5 channel
DVEV02653	50	FAM channel	Cy5 channel
DVEV02611	100	FAM channel	VIC/HEX channel
DVEV02651	50	FAM channel	VIC/HEX channel

### Kit contents:

- Detection assay for bovine norovirus
- 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 bovine norovirus

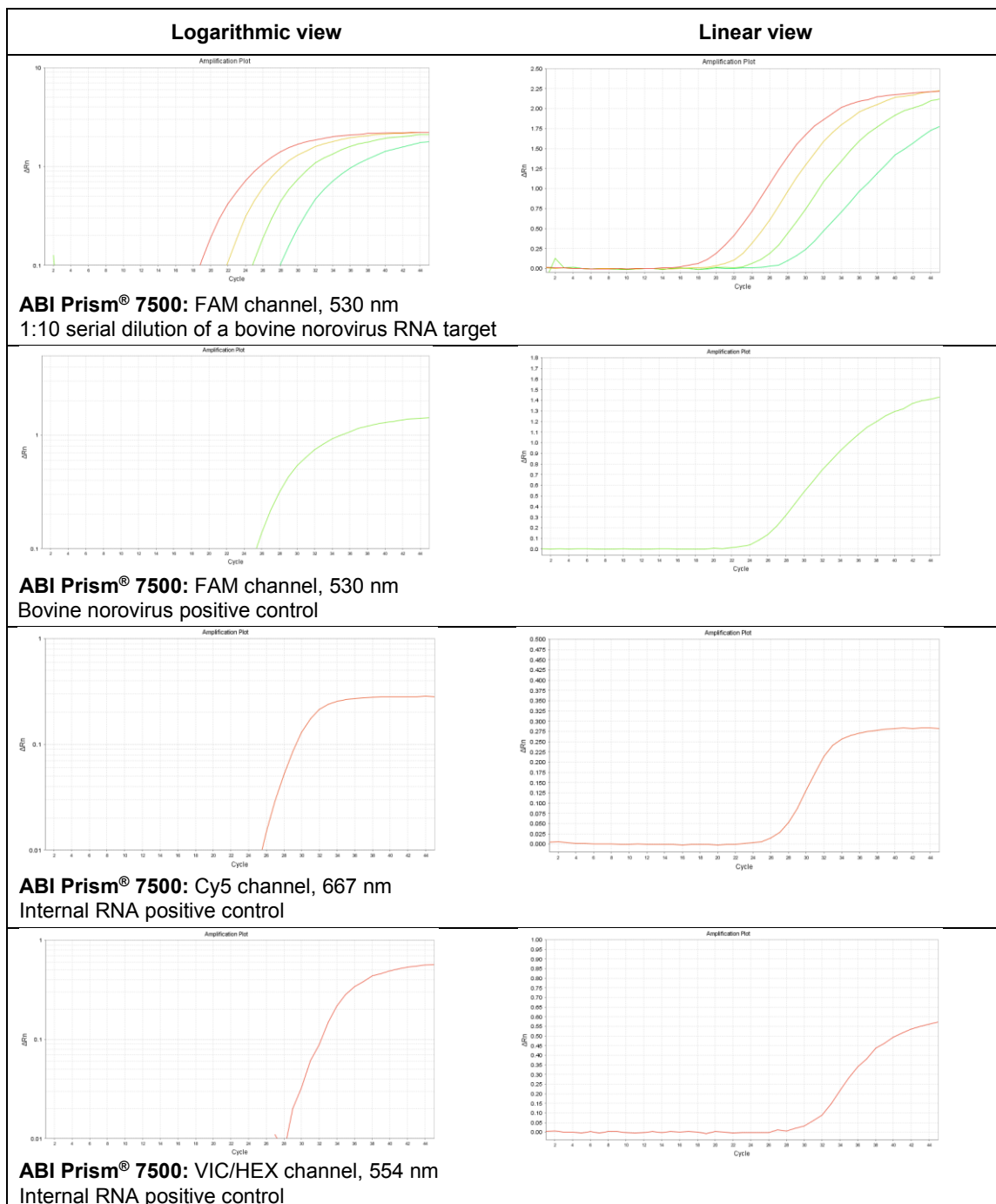


**Background:** Noroviruses are non-enveloped, single-stranded, positive-sense RNA viruses ((+)ssRNA), belonging to the family *Caliciviridae*. Strains are classified in 5 genotypes (GI – GV), infecting different species, including human, bovine, swine, mice and oysters. Bovine norovirus belong to GIII. Norovirus GIII includes two genotypes (GIII.1 and GIII.2), with genotype GIII.1 represented by Jena virus and GIII.2 represented by Newbury-2 virus. Infection is associated with gastrointestinal manifestations such as diarrhea, villus atrophy and crypt hyperplasia of the proximal small intestine in cattle, especially in young calves.

**Description:** ViroReal<sup>®</sup> Kit Bovine Norovirus is based on the amplification and detection of the ORF1 of so far known bovine norovirus genotypes GIII.1 and GIII.2 by one-step reverse transcription real-time PCR (RT PCR). It allows the rapid and sensitive detection of bovine norovirus RNA purified from stool (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

**PCR-platforms:** ViroReal<sup>®</sup> Kit Bovine Norovirus is developed for the ABI PRISM<sup>®</sup> 7500 instrument (Life Technologies), 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 Bovine Norovirus detects at least 50 target copies/PCR reaction and is specific for bovine norovirus. This kit detects both known genotypes BoNV GIII.1 and GIII.2.



**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))