

# ViroReal® Kit Parechovirus



## ViroReal® Kit Parechovirus

Order no.	Reactions	Pathogen	Internal positive control
DHUV01753	50	FAM channel	Cy5 channel

*For Research Use Only. Not for use in diagnostic procedures.*

### Kit contents:

- Detection assay for parechovirus
- Detection assay + target for internal RNA positive control (control of RT-PCR amplification and RNA extraction)
- RNA amplification mix
- Nuclease-free water
- Positive control (RNA) for parechovirus



**Background:** Human parechoviruses are non-enveloped, positive single-stranded RNA viruses (ss(+)RNA) and are members of the *Picornaviridae* family. Six serotypes of human parechovirus have been identified (human parechovirus 1-6). Parechoviruses are responsible for gastrointestinal, respiratory and central nervous system infections. 95% of humans are carriers of human parechovirus since early life.

**Description:** ViroReal® Kit Parechovirus is a test detecting RNA of the polyprotein gene of human parechovirus strains 1-6 using one-step reverse transcription real-time PCR (RT-PCR). This test allows the rapid and sensitive detection of RNA of parechovirus from samples purified from serum, cerebrospinal fluid, nasal discharge, urine or stool (e.g. with the QIAamp Viral RNA Mini Kit, Qiagen).

Parechovirus is detected in FAM channel. The internal RNA positive control (RNA IPC) is detected in Cy5 channel and is used as RNA extraction as well as RT-PCR inhibition control. The RNA IPC target is extracted with the sample.

**PCR-platforms:** This kit has been validated with Applied Biosystems® 7500 Fast Real-time PCR System (Thermo Fisher Scientific) and tested with LightCycler® 480 Instrument II (Roche) and Mx3005P® QPCR System (Agilent). It is compatible with real-time PCR instruments detecting and differentiating fluorescence in FAM and Cy5 channel.

**Specificity and sensitivity:** ViroReal® Kit Parechovirus detects about 100 RNA copies/reaction. This kit is specific for so far known parechovirus strains.

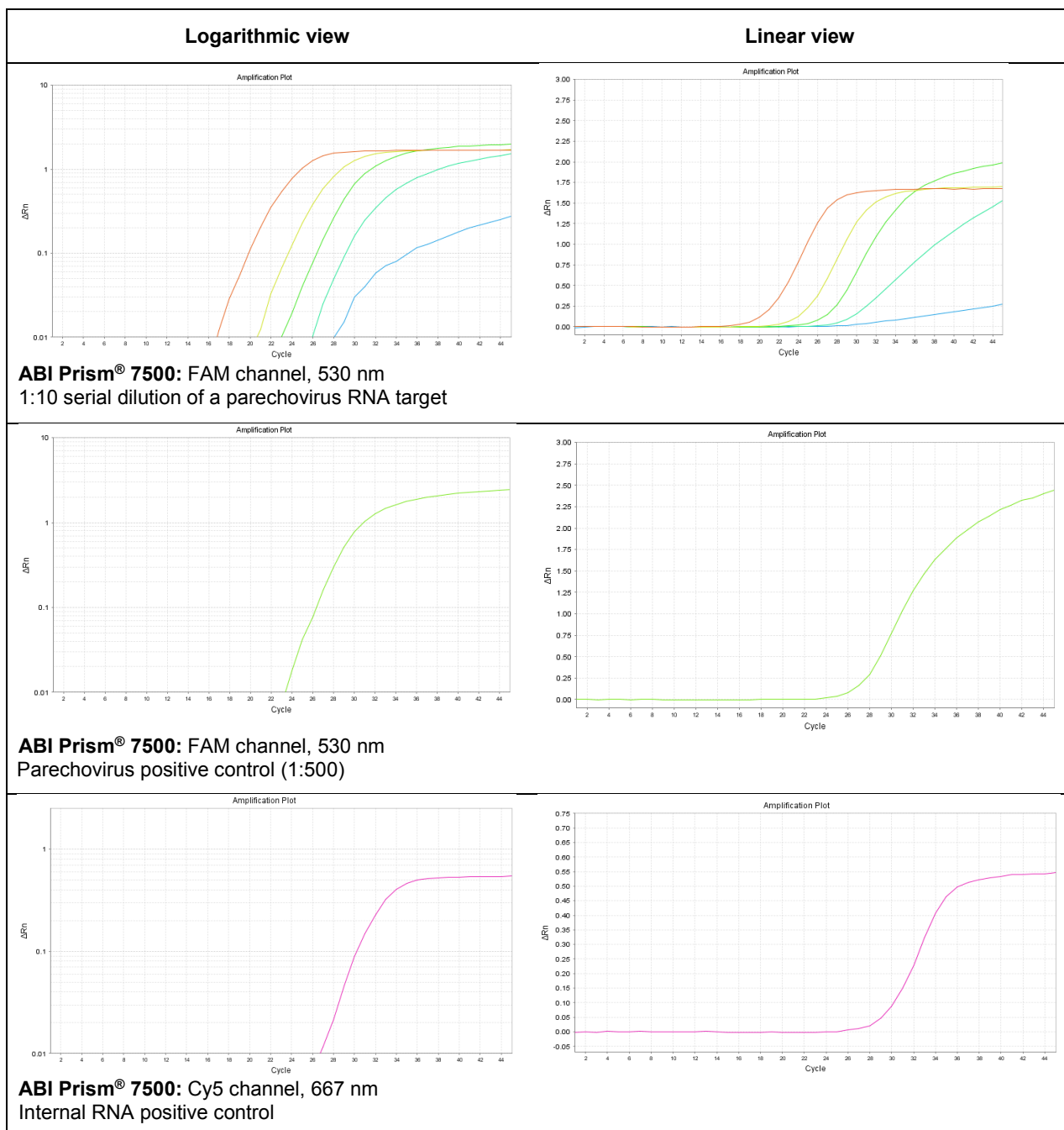


Figure 1 Performance of ViroReal® Kit Parechovirus

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