VIASURE

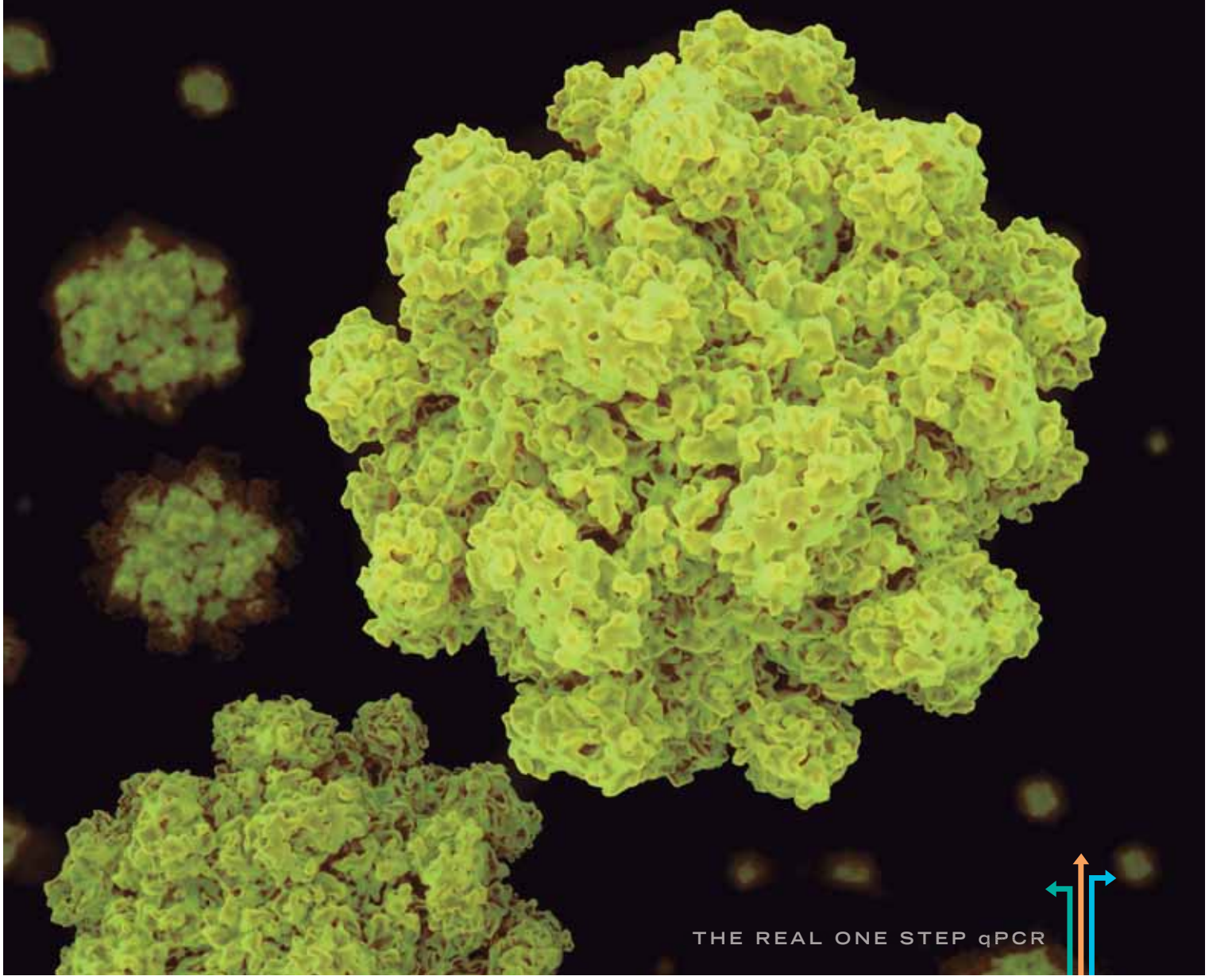
Norovirus GII Real Time PCR Detection Kit

Pathogen and product description

Norovirus (NoV) belongs to the *Caliciviridae* family and is considered to be the major cause of acute nonbacterial gastroenteritis in all age groups, worldwide. They are classified into six different genogroups, but only GI, GII, and GIV infects humans. Among them, GII.4 is responsible for the majority of the outbreaks worldwide.

Norovirus illness is characterized by projectile vomiting, nonbloody diarrhea, nausea, abdominal cramps, and low-grade fever. Noroviruses can infect humans via multiple routes, including the oral route, transmitted through contact with fecal matter or aerosolized vomitus from infected people, as well as contaminated surfaces, food, or water.

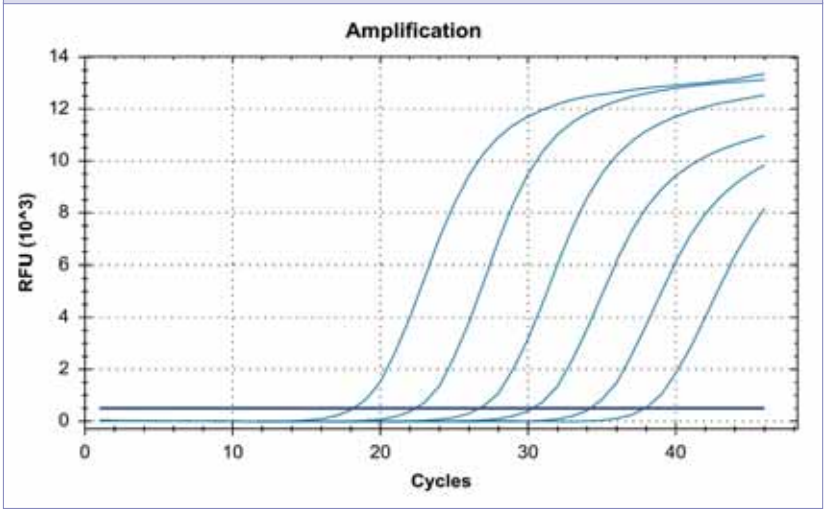
VIASURE Norovirus GII Real Time PCR Detection Kit is designed for the diagnosis of gastroenteritis caused by *Norovirus GII* in human stool samples. After RNA isolation, the identification of Norovirus GII is performed by the use of target specific primers and a fluorescent-labeled probe that hybridizes to a conserved region with ORF1-ORF2 junction.



THE REAL ONE STEP qPCR

Analytical sensitivity

VIASURE *Norovirus GII* Real Time PCR Detection Kit has a detection limit of ≥100 viral RNA copies per reaction.



Dilution series of Norovirus GII (10^7-10^2 copies/rxn) template run on the Bio-Rad CFX96 Touch™ Real-Time PCR Detection System

Components

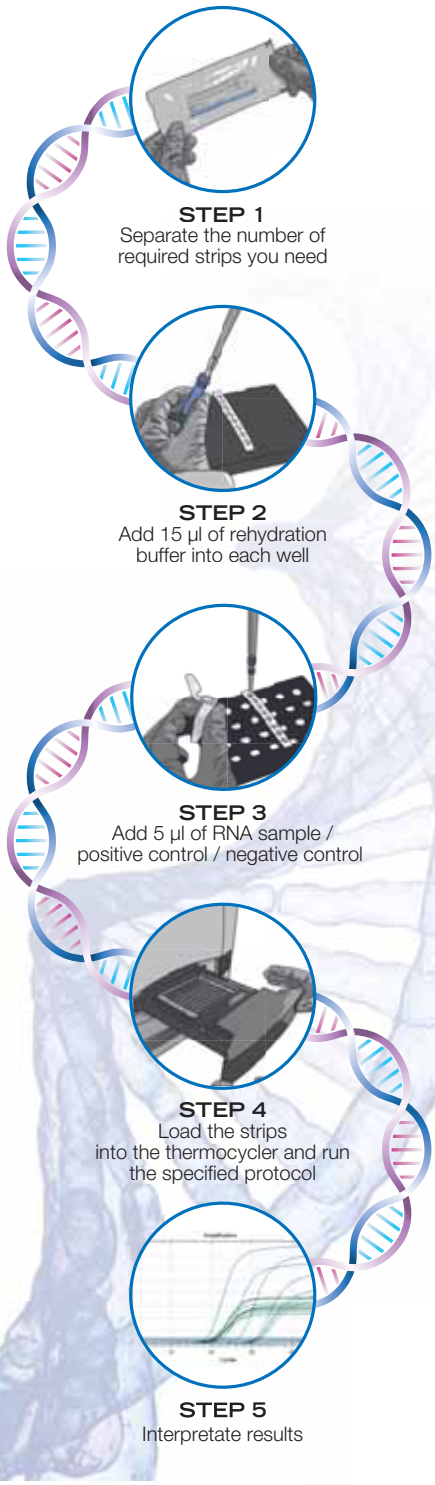
Reagent/Material	Description	Quantity
Norovirus GII **8-well strips**	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	6/12 X 8-well strip
Norovirus GII **96-well plate**	A mix of enzymes, primers-probes, buffer, dNTPs, stabilizers and Internal control in stabilized format	1 plate
Rehydration Buffer	Solution to reconstitute the stabilized product	1 vial x 1,8 mL
Norovirus GII **Positive Control**	Non-infectious synthetic lyophilized DNA	1 vial
Negative Control	Non template control	1 vial x 1 mL
Water RNAse/DNAse free	Water RNAse/DNAse free	1 vial x 1 mL
Tear-off 8-cap strips	Optical caps for sealing wells during thermal cycling	6/12 X 8-cap strip
Shell frame Grid	Shell frame Grid	1 or 2

Kit References

Reference	Description
VS-NOP106L	Viasure *Norovirus GII* Real Time PCR Detection Kit 6 x 8-well strips, low profile
VS-NOP106H	Viasure *Norovirus GII* Real Time PCR Detection Kit 6 x 8-well strips, high profile
VS-NOP112L	Viasure *Norovirus GII* Real Time PCR Detection Kit 12 x 8-well strips, low profile
VS-NOP112H	Viasure *Norovirus GII* Real Time PCR Detection Kit 12 x 8-well strips, high profile
VS-NOP113L	Viasure *Norovirus GII* Real Time PCR Detection Kit 96-well plate, low profile
VS-NOP113H	Viasure *Norovirus GII* Real Time PCR Detection Kit 96-well plate, high profile

Work Flow

One-step rehydration of wells and add your extracted RNA viral



STEP 1
Separate the number of required strips you need

STEP 2
Add 15 µl of rehydration buffer into each well

STEP 3
Add 5 µl of RNA sample / positive control / negative control

STEP 4
Load the strips into the thermocycler and run the specified protocol

STEP 5
Interpretate results

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