

## Recombinant Norovirus GII.4 VP1 antigen

Cat. No. VP1-16N Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Norovirus GII.4 VP1 antigen produced in mammalian HEK293 cells.
<b>Species</b>	Norovirus GII.4
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-539 aa
<b>Description</b>	<p>Norovirus VP1 protein is the capsid protein of Norovirus. It is a 59kD glycoprotein with three key domains. The shell domain (S domain) contains elements essential for the formation of the icosahedron. The Protruding domain (P domain) is divided into sub-domains P1 and P2. P domain interacts in dimeric contacts that increase the stability of the capsid and form the protrusions on the virion. An hypervariable region in P2 is thought to play an important role in receptor binding and immune reactivity.</p>
<b>Form</b>	Liquid
<b>Molecular Mass</b>	59 kDa
<b>Purity</b>	Greater than 95% purity by SDS-PAGE.
<b>Storage</b>	Short Term Storage: 4 centigrade Long Term Storage: -80 centigrade Freezing: Can be frozen and thawed at least 5 times.

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<b>Concentration</b>	1.0 mg/ml, according to BCA test method using BSA standards.
<b>Storage Buffer</b>	20mM Tris-HCl pH 7.8, 10mM NaCl.
<b>References</b>	<p>Karst SM. (2010). Pathogenesis of noroviruses, emerging RNA viruses. <i>Viruses</i>.Mar;2(3):748-81. PMID: 21994656</p> <p>Robilotti E, Deresinski S, Pinsky BA. (2015). Norovirus. <i>Clin Microbiol Rev</i>.Jan;28(1):134-64. PMID: 25567225</p> <p>Centers for disease control and prevention: Norovirus, Clinical overview</p> <p>Centers for disease control and prevention: Norovirus, Burden of norovirus illness and outbreaks</p> <p>Takeda press release: Takeda initiates world's first norovirus vaccine field trial</p>

## GENE INFORMATION

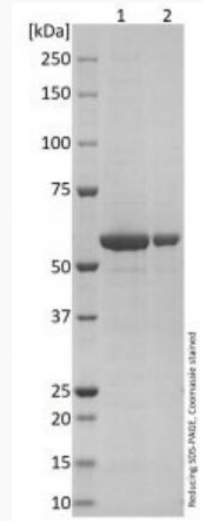
<b>Gene Name</b>	ORF2 VP1 [ Norovirus GII ]
<b>Official Symbol</b>	VP1
<b>Synonyms</b>	VP1; D9V40_gp2; ORF2
<b>Gene ID</b>	39105315
<b>Protein Refseq</b>	YP_009518842.1
<b>UniProt ID</b>	Q83884

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**SDS-PAGE**



Reducing SDS-PAGE gel showing purified Norovirus VP1, with protein migrating as a band of approximately 60kDa.

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