

Norwalk virus Capsid protein VP1 (ORF2) Recombinant Protein | ORF2 recombinant protein

Recombinant Norwalk virus Capsid protein VP1 (ORF2)

CATALOG # AAA116564	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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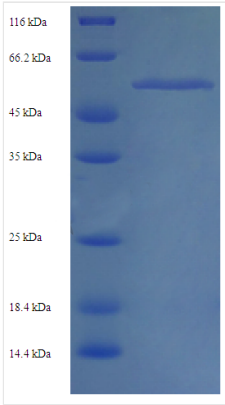
PRODUCT SYNONYMS

Norwalk virus Capsid protein VP1 (ORF2); Recombinant Norwalk virus Capsid protein VP1 (ORF2); p59; ORF2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-530aa; Full Length
Sequence	MMMASKDATS SVDGASGAGQ LVPEVNASDP LAMPVAGSS TAVATAGQVN PIDPWIINN FVQAPQG EFTI SPNNTPGDVL FDL SLGPHLN PFL LHSQMY NGWVGNM RVR IMLAGNAFTA GKIIVSCIPP GFGSHNLTIA QATLFPHVIA DVRTLDP IEV PLEDVRNVLF HNNDRNQ QTM RLVCM LYTPL RTGGGTGDSF VVAGRVMTC P SPDFN FLFLV PPTVEQKTRP FTL PNLPLSS LSNSRAPLPI SSMGISPDNV QSVQFQNGRC TLDGRLV GTT PVSLSHVAKI RGTSNGTVIN LTEL DGT PPH PFEGPAPIGF PDLGGCDWHI NMTQFGHSSQ TQYD VDTTPD TFVPHLGS IQ ANGIGSGNYV GVLSWISPPS HPSGSQVDLW KIPNYGSSIT EATHLAPSVY PPGFGEVLVF FMSKMPGPGA YNLPCLLPQE YISHLASEQA PTVGEAALLH YVDPDTGRNL GEKAYPDGF LTCVPNGASS GPQQLPINGV VFVSWVSRF YQLKPVGTAS SARGRLGLRR
Sequence Length	530
Production Note	Special Offer: The Mammalian-Cell host-expressed protein is manufactured from a stock plasmid containing the protein gene. Mammalian-Cell host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The Mammalian-Cell host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select Mammalian-Cell host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for ORF2 recombinant protein	Capsid protein self assbles to form an icosahedral capsid with a T=3 symmetry, about 38 nm in diameter, and consisting of 180 capsid proteins. A smaller form of capsid with a diameter of 23 nm might be capsid proteins assbled as icosahedron with T=1 symmetry. The capsid encapsulate the genomic RNA and VP2 proteins. Attaches virion to target cells by binding histo-blood group antigens present on gastroduodenal epithelial cells.
References	Sequence and genomic organization of Norwalk virus.Jiang X., Wang M., Wang K., Estes M.K.Virology 195:51-61(1993) Specific proteolytic cleavage of recombinant Norwalk virus capsid protein.Hardy M.E., White L.J., Ball J.M., Estes M.K.J. Virol. 69:1693-1698(1995) Attachment and entry of recombinant Norwalk virus capsids to cultured human and animal cell lines.White L.J., Ball J.M., Hardy M.E., Tanaka T.N., Kitamoto N., Estes M.K.J. Virol. 70:6589-6597(1996) Biochemical characterization of a smaller form of recombinant Norwalk virus capsids assembled in insect cells.White L.J., Hardy M.E., Estes M.K.J. Virol. 71:8066-8072(1997) Norwalk virus binds to histo-blood group antigens present on gastroduodenal epithelial cells of secretor individuals.Marionneau S., Ruvoen N., Le Moullac-Vaidye B., Clement M., Cailleau-Thomas A., Ruiz-Palacois G., Huang P., Jiang X., Le Pendu J.Gastroenterology 122:1967-1977(2002) The 3' end of Norwalk virus mRNA contains determinants that regulate the expression and stability of the viral capsid protein VP1 a novel function for the VP2 protein.Bertolotti-Ciarlet A., Crawford S.E., Hutson A.M., Estes M.K.J. Virol. 77:11603-11615(2003) Noroviruses bind to human ABO, Lewis, and secretor histo-blood group antigens identification of 4 distinct strain-specific patterns.Huang P., Farkas T., Marionneau S., Zhong W., Ruvoen-Clouet N., Morrow A.L., Altaye M., Pickering L.K., Newburg D.S., LePendou J., Jiang X.J. Infect. Dis. 188:19-31(2003) C-terminal arginine cluster is essential for receptor binding of norovirus capsid protein.Tan M., Meller J., Jiang X.J. Virol. 80:7322-7331(2006) Norovirus protein structure and function.Hardy M.E.FEMS Microbiol. Lett. 253:1-8(2005) X-ray crystallographic structure of the Norwalk virus capsid.Prasad B.V.V., Hardy M.E., Dokland T., Bella J., Rossmann M.G., Estes M.K.Science 286:287-290(1999)

NCBI AND UNIPROT INFORMATION

NCBI GI #	106060736
NCBI GeneID	1491972
NCBI Accession #	NP_056821.2
NCBI GenBank Nucleotide #	NC_001959.2
UniProt Accession #	Q83884
Molecular Weight	58.6 kDa
NCBI Official Full Name	58 kd capsid protein
NCBI Official Symbol	NVgp2
NCBI Protein Information	58 kd capsid protein
UniProt Protein Name	Capsid protein VP1

UniProt Gene Name	ORF2
UniProt Synonym Gene Names	CP; p30
UniProt Entry Name	CAPSD_NVN68

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/orf2-recombinant-protein-e-coli/116564>