

Product datasheet for **VC102549**

nonstructural protein NS3 (NC_001474) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nonstructural protein NS3 (NC_001474) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nonstructural protein NS3
Synonyms:	DENV_gp1, Dengue, DENV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>The Viral ORF clone VC102549 represents NCBI reference of NP_739587 with codon optimized for human cell expression

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGGTGTCTCTGGGACGTGCCTTCCCCCACC AATGGGAAAAGCAGA A CTGAAGATGGCGCAT
ATAGAATTAAGCAGAAAGGAATCCTTGGGTACTCACA AATCGGGGCTGGCGTTTATAAGGAAGGACCTT
TCATACTATGTGGCACGTGACCCGGGGCGCTGTCTTATGCACAAGGGCAAGAGAATCGAACCTCTTGG
GCAGACGTTAAGAAGGATCTTATTTCTTATGGGGCGGCTGGAACTGGAAGGCGAATGGAAGGAAGGGG
AGGAGGTGCAGGTGCTGGCCTTGAACCCGGTAAGAACCACGAGCAGTGCAGACAAAACCCGGACTTTT
TAAGACTAATGCTGGCACTATCGGCGGGT GAGCCTTGATTTTTCCCTGGCACATCTGGTCCCCATT
ATTGACAAGAAAGCAAAGTTGTTGGACTGTATGGAACGGCGTGTACTCGGAGCGGGGCATATGTTT
CTGCAATCGCGCAGACCAGAAGTCAATCGAAGATAACCCGAGATAGAGGATGACATTTCCGAAAAAG
GGATTGACCATTATGGACTTGATCCTGGAGCCGGCAAGACAAAAGCGGTATCTCCCTGCTATAGTACGC
GAAGCCATTAACGAGGCCTTAGAACACTGATTCTGGCACCTACAAGAGTTGTTGCTGCAGAAATGGAGG
AAGCCCTCAGGGGACTCCCTATAAGGTACCAGACACCCGCAATAAGAGCAGAGCACAGGTCCGGGAGAT
CGTAGACCTTATGTGTCACGCCACCTTTACAATGAGATTGCTCTCCCCAGTACGGGTGCCAACTACAAT
CTTATCATTATGGATGAAGCGCATTTTACCGATCCGGCGTCAATTGCTGCAAGAGGATATATCAGCACAC
GAGTGGAGATGGTGAAAGCGCAGGGATTTTCATGACCGCCACCCCGAGGCTCTAGAGACCCTTTTCC
CCAGTCCAACGCACCCATCATAGACGAGGAACGAGAAATCCCGAGAGATCATGGAACAGCGGGCATGAA
TGGTGACCGATTTCAAGGGAAAAACAGTGTGGTTTGTCCATGCATCAAGGCCGGGAACGATATCGCAG
CCTGCCTCCGGAAAAACGGCAAGAAGTAATCCAAC T GAGTAGGAAGACGTTTGATTCCGAATACGTGAA
GACCCGA ACTAATGACTGGGACTTCGTAGTGACGACAGATATTTAGAGATGGGTGCCAATTTCAAAGCA
GAACGAGTCATTGACCCTAGGAGATGCATGAAGCCGTAATTCTCACCGATGGAGAAGAGAGGGTAAATCC
TGGCCGGGCCATGCCCGTACCCATAGCTCTGCGGCCAGAGACGAGGCAGGATCGGACGGAATCCCAA
GAACGAAAATGACCAATATATTTATATGGGAGAGCCTCTGGAGAACGACGAAGATTGTGCACACTGGAAA
GAGGCCAAGATGCTGCTTGACAACATAAATACCCGAGGGAATAATCCAAGCATGTTCGAACCTGAGC
GAGAAAAGTTGACGCAATTGATGGCGAGTACCGCTGAGAGGGGAGGCCAGGAAAACATTTGTGGACCT
TATGCGCCGGGGAGATCTTCCCGTCTGGTTGGCCTACCGGTAGCAGCTGAGGGCATCAACTATGCCGAT
AGGAGATGGTGTTCGACGGGGTCAAAAATAATCAGATACTGGAAGAAAACGTGGAGGTGGAGATTTGGA
CAAAAGAGGGCGAGAGGAAAAA ACTTAAACCTCGGTGGCTTGATGCAAGAATTTATTCGATCCGTTGGC
CTTGAAGGAGTTTAAAGAATTCGCCGAGGGAGAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC102549 representing NP_739587

Red=Cloning sites Green=Tags

MAGVLWDVSPPPMGKAELEDGAYRIKQKGI L GYSQIGAGVYKEGTFHTMWHVTRGAVLMHKGRIEPSW
ADVKKDLISYGGGWKLEGEWKEGEEVQVLAL EPGKNPRAVQTKPGLFKTNAGTIGAVSLDFSPGTS GSP I
IDKKGKV VGLYNGVVTRSGAYVSAIAQTEKSI EDNPEIEDDIFRKRRLTIMDLHPGAGTKRYLPAIVR
EAIKRGLRTLILAPTRVVAEMEEALRGLPIRYQTPAIRA EHTGREIVDLMCHATFTMRLLSPVRV PNYN
LIIMDEAHFTDPASIAARGYISTRVEMGEAAGIFMTATPPGSRDPFPQSNAPIIDEEREIPERSWNSGHE
WYTFDKGKT VWFVPSIKAGNDIAA CLRKNGKVIQLSRKTFDSEYVKTRTNDWDFVVTDDISEMGANFKA
ERVIDPRRCMKPVILTDGEERVILAGPMPVTHSSAAQRRGRIGRNPNKENDQYIYMGEPLENDEDCAHWK
EAKMLLDNINTPEGIIPSMFEPEREKVDAIDGEYRLRGEARKTFVDLMRRGDLPVWLA YRVA AEGIN YAD
RRWCFDGVKNNQILEENVEVEIWTKEGERK LKPRWLDARIYSDPLALKEFKEFAAGRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001474

ORF Size: 1857 bp

OTI Disclaimer: The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NC_001474.2, NP_739587](#)

RefSeq ORF: 1857 bp

MW: 69.5 kDa