

Product datasheet for **VC102534**

nonstructural protein NS3 (NC_012532) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nonstructural protein NS3 (NC_012532) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nonstructural protein NS3
Synonyms:	ZIKV_gp1, ZIKV
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 VC102534 represents NCBI reference of YP_009227202 with codon optimized for human cell expression

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCAGGCGCACTGTGGGACGTGCCCGCCCAAGGAAGTCAAGAAGGGGGAACTACCGATGGCGTAT
ATAGAGTTATGACAAGAAGACTGCTGGGCTCCACACAGGTAGGAGTGGGCGTGATGCAGGAAGGAGTTTT
TCATACTATGTGGCACGTGACTAAGGGCGCAGCACTGCGAAGTGGAGAGGGAAAGGCTTGATCCTTATTGG
GGCGATGTGAAACAGGACCTGGTTTCATACTGCGGGCCGTGGAAGTTGGATGCTGCGTGGGACGGCCTGT
CTGAAGTTCAGCTCCTTGCTGTGCCTCCCGGAGAACGAGCTAGGAATATCAAACCTGCCAGGTATCTT
TAAGACAAAGGACGGAGACATTGGAGCCGTTGCCCTTGACTACCCAGCCGGCACCAGCGGTAGTCCAATC
CTCGACAAGTGGCGCCGGTTCATCGGACTTTATGGCAATGGAGTGGTATTAAAAATGGATCATACTGTGA
GCGCTATAACACAAGGAAAGAGAGAAGAAGAAACCCAGTTGAATGCTTTGAACCGAGCATGCTCAAGAA
GAAACAGCTTACCGTGCTTGATTTGCATCCAGGCGCTGGGAAGACTCGCCGCGTTCTCCCTGAAATCGTT
AGAGAAGCCATCAAGAAGCGCTTGAGAAGTGCATCCTTGACCCACAAGAGTCGTCGCCGCCGAAATGG
AAGAGGCTCTCCGAGGTCTCCAGTCCGGTACATGACAACCGCCGTTAACGTGACACACTCTGGAACCGA
AATTGTTGACCTTATGTGCCACGCCACGTTCACTTCCAGACTTCTCAAACCTATCAGGGTGCCTAACTAC
AATCTTAACATCATGGACGAAGCACATTTACTGACCCCTCAAGTATCGCGGCCCGGGTATATAGCA
CAAGAGTCGAGATGGGAGAAGCCCGCAATCTTTATGACCGCCACTCCACCAGGAACCCGGGATGCCTT
CCCCGATAGCAACTCACCATCATGGACACAGAGTGAAGTGCCTGAGCGCGCCTGGTCTTCAGGATTC
GACTGGGTCAGTACCCTCCGGAAAACCGTATGGTTCGATACCATCCGTTAGAAATGGCAACGAGATTG
CAGCTTGTCTCACTAAGGCTGGCAAGAGGGTATCCAGCTTTCCCGAAAGACCTTCGAGACTGAATTTCA
GAAGACCAAAAACCAGGAATGGGACTTCGTGATTACTACCGATATCAGCGAGATGGGGGCAACTTTAA
GCTGACAGAGTATCGACAGCAGAAGTGCCTGAAGCCGTAATATTGGACGGCAACGAGTCATTTTGG
CAGGCCAATGCCGTGACCCATGCTTCAGCTGCACAGAGGCGGGGACAGGATCGGCCGGAACCCCAATA
GCCCGGTGACGAGTACATGTATGGAGGCGGATGCGCTGAAACTGACGAAGGACATGCACACTGGCTGGAA
GCCAGAATGCTCCTGGATAATATATATCTCCAAGATGGTCTCATTGCAAGTCTTTACCGCCCTGAGGCTG
ATAAGGTTGCTGCATCGAAGGCGAGTTAAGCTGAGGACAGAGCAAAGGAAAACCTTCGTGGAAGTATG
GAAGAGAGGTGACCTGCCGTGTGGCTGGCATAACAGGTGGCTAGTGCCGGAATTACCTACACAGACCGG
AGATGGTCTTTGATGGGACCAATAACACAATCATGGAAGATAGCGTGCCTGCCGAGGTCTGGACGA
AGTACGGCGAGAAAAGAGTACTGAAACCCGCTGGATGGATGCAAGAGTCTGTAGTGACCACGCCGCCCT
GAAGAGCTTTAAGAATTTGCGGCTGGGAAACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC102534 representing YP_009227202

Red=Cloning sites Green=Tags

MSGALWDVPAPKEVKKGETTDGVYRVMTRRLGSTQVGVGVMQEGVFHTMWHVTKGAALRSSEGRDPYW
GDVKQDLVSYCGPWKLDAAWDGLSEVQLLAVPPGERARNIQTLPGIFKTKDGDIGAVALDYPAGTSGSPI
LDKCGRVIIGLYNGVVIKNGSYSAITQKREEETPVECFEPSMLKKKQLTVLHLHPGAGKTRRVLPEIV
REAIKKRLRTVILAPTRVVAEMEEALRGLPVRVMTTAVNVTHSGTEIVDLMCHATFTSRLQLPIRVPNY
NLNIMDEAHFTDPSSIAARGYISTRVEMGEAAAFMTATPPGTRDAFPDSENPIMDTEVEVPERAWSSGF
DWWTDHSGKTVWVPSVRNGNEIAACLTKAGKRVIQLSRKTFFETEFQKTKNQEWDFVITTDISEMGANFK
ADRVIDSRRCLKPVILDGERVILAGPMPVTHASAAQRRGRIGRNPKNPGDEYMYGGGCAETDEGHAHWLE
ARMLLDNIYLQDGLIASLYRPEADKVAIEGEFKLRTEQRKTFVELMKRGDLPVWLAYQVASAGITYTDR
RWCDFDGTNTIMEDSVPAEVTWKYGEKRVLKPRWMDARVCSHAALKSFKEFAAGKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_012532

ORF Size: 1854 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_012532.1](#), [YP_009227202](#)

RefSeq ORF: 1854 bp

MW: 68.5 kDa