

Product datasheet for **VC102510**

non-structural protein NS3 (NC_001563) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	non-structural protein NS3 (NC_001563) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	non-structural protein NS3
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 VC102510 represents NCBI reference of NP_776018 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGGGCGTTCCTTTGGGACACCCCGCCCTAAAGAATACAAAAAGGGGGACACAACCTACCGGCTCT
ACAGGATAATGACCCGGGGCCTTCTGGGATCCTATCAAGCCGGAGCCGGCGTCATGGTTAGGGGGTATT
TCACACACTCTGGCATACTACCAAGGGCGCAGCCCTGATGAGCGCGAAGGCAGGCTGGATCCGTATTGG
GGTTCCTGAAGGAGGATCGACTCTGCTATGGCGGTCCATGGAAGCTTCAACATAAATGGAACGGTCATG
ACGAGGTGCAGATGATCGTGGTGGAGCCTGAAAGAACGTGAAGAACGTCCAGACTAAACCTGGGGTATT
TAAACTCCTGAAGGTGAGATCGCGCCGTTACTCTGGATTATCCGACAGGCACTAGCGGCTCACCCATA
GTTGACAAGAACGGGACGTGATAGGCCTGTATGGGAATGGGGTCATCATGCCCAATGGATCTTACATCA
GCGCCATTGTCCAGGGCGAGAGAATGGAAGAGCCCGCTCCAGCTGGTTTCGAGCCAGAAAATGCTGAGGAA
GAAGCAGATTACAGTGTGGATCTGCATCCCGGCGCAGGTAAGACTAGGAAAATACTGCCACAGATTATC
AAGGAAGCCATTAACAAACGCCTGCGGACAGCTGTCTGGCCCCACCAGAGTGGTGGCAGCCGAGATGT
CCGAGGCCCTTCGGGACTCCCGATCAGGTACCAACCTCAGCGGTCCATAGGGAGCATTCCGGCAATGA
GATCGTGGATGTGATGTGCCATGCGACCCTGACGCACAGACTTATGAGTCTCACCGGGTGCCTAATTAC
AACCTGTTTATTATGGACGAGGCACACTTTACAGATCCAGCCAGTATCGCCGCCCGCGGTACATCGCAA
CAAAAGTGAACGGGTGAGGCTGCCGCATATTTATGACCGCAACCCCCCAGGAACATCCGATCCCTT
CCCAGAGTCCAACGCCCTATATCCGACATGCAGACCGAGATCCAGACAGGGCTTGAACACTGGGTAC
GAGTGGATTACCGAATACGTTGGGAAGACAGTTTGGTTTGTGCCAAGCGTAAAGATGGGCAATGAGATAG
CTCTCTGCTCCAACGCGCAGGCAAAAAAGTCATTTCAGCTGAATAGGAAAAGTTACGAAACAGAATATCC
CAAGTGAAGAATGATGACTGGGACTTCGTAATTACCACAGACATTAGCGAGATGGGAGCTAATTTTAAA
GCTAGCAGGGTATCGACAGTGCAGTCTGTTAAACCTACGATCATTGAAGAAGGGGATGGCAGGGTTA
TCCTTGGTGGCCTTCGCCATTACAGCGCCCTCCGCCGCCAACGGAGAGGGAGAATCGCCCGAAACCC
ATCCCAAGTTGGAGACGAATACTGTTACGGCGGGCACACAACGAAGACGACTCCAACCTTGCCATTGG
ACCGAAGCCCGGATAATGCTCGATAATATCAACATGCCCAATGGGTTGGTCCGCCAGCTGTATCAGCCC
AGAGAGAAAAAGTATATACCATGGACGGGAGTATCGGCTTCGCGCGGAGGAACGGAAGAACTTCTTGA
GTTCTCAGAACTGCCGACTGCCGTGTGGCTGGCATATAAAGTGGCGGAGCCGGCATTTCATACCAC
GACCGAAAAGTGGTCTTTGACGGCCAAGGACCAACCATCCTGGAGGACAACAACGAAGTGAAGTGA
TAACAAAGCTGGGAGAGCGGAAGATTTTGCGCCCTCGGTGGGCCGATGCCCGAGTGTACTCAGATACCA
GGCCCTGAAATCCTTTAAGGACTTTGCAAGTGGAAAGAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC102510 representing NP_776018

Red=Cloning sites Green=Tags

MGGVLWDTSPKEYKKGDTTTGVYRIMTRGLLGSYQAGAGVMVEGVFHTLWHTTKGAALMSGEGRLDPYW
GSVKEDRLCYGGPWKLQHKWNGHDEVQMIIVVEPGKNVKNVQTKPGVFKTPEGEIGAVTLDYPTGTSGPSI
VDKNGDVIGLYNGVIMPNGSYISAIIVQGERMEEPAPAGFEPEMLRKKQITVLDLHPGAGKTRKILPQII
KEAINKRLRTAVLAPTRVVAEMSEALRGLPIRYQTSAVHREHSGNEIVDVMCHATLTHRLMSPHRVPNY
NLFIMDEAHFTDPASIAARGYIATKVELGAAAIFMTATPPGTSDFPFESNAPISDMQTEIPDRAWNTGY
EWITEYVGKTVVFPVSVKMGNEIALCLQRAGKKVIQLNRKSYETEYPKCKNDWDFVITTDISEMGANFK
ASRVIDSRKSVKPTIIIEEGDGRVILGEP SAITAASAAQRRGRIGRNPSQVGDEYCYGGHTNEDDSNFAHW
TEARIMLDNINMPNGLVAQLYQPEREKVYTMGEYRLRGEERKNFLEFLRTADLPVWLAYKVAAGISYH
DRKWCDFGPRNTILEDNNEVEVITKLGERRKILRPWADARVYSDHQALKSFKDFASGKR

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001563

ORF Size: 1860 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001563.2](#), [NP_776018](#)

RefSeq ORF: 1860 bp
MW: 69.1 kDa