

Product datasheet for **VC102547**

nonstructural protein NS2A (NC_001474) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nonstructural protein NS2A (NC_001474) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nonstructural protein NS2A
Synonyms:	DENV_gp1, Dengue, DENV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC102547 represents NCBI reference of NP_739585 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACATGGGCAGGTCGATAACTTCTCTCTTGGCGTCTGGGCATGGCTCTGTTTTGGAGGAGATGC
TGAGAACTAGAGTTGGAACAAAGCATGCCATCCTGCTTGTAGCCGTGAGCTTCGTGACATTGATTACCGG
GAACATGTCTTTAGGGATCTCGGGCGGTGATGGTAATGGTCGGAGCCACTATGACTGACGATATCGGT
ATGGGAGTCACATATCTTGCCCTCTCGTGCCTTTAAAGTGCGCCCTACCTTCGCTGCTGGACTGCTCC
TCCGAAAGCTGACATCCAAGGAACATCATGATGACAACAATTGGCATCGTCCTTCTCTCCAGTCAACAAT
TCCAGAGACCATCCTCGAACTCACAGAGCCCTCGCGCTCGGAATGATGGTACTGAAATGGTAAGAAAC
ATGAAAAATATCAACTGGCAGTCACGATTATGGCCATCCTCTGTGTACCGAACGCTGTTATTCTGCAGA
ACGCCTGGAAAGTTAGCTGTACTATTCTCGCCGTCTCAGTCTCACCCCTGCTCCTCACCTCATCTCA
ACAAAAACCGACTGGATTCCCTTGGCGCTGACAATAAAAGGACTGAACCCACCCTATCTTTTTGACA
ACCCTTAGCCGGACTTCAAAGAAACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >VC102547 representing NP_739585
 Red=Cloning sites Green=Tags

MGHGQVDNFSLGLVLMALFLEMLRTRVGTKHAILLVAVSFVTLITGNMSFRDLGRVMMVGATMTDDIG
 MGVTYLALLAAFKVRPTFAAGLLLRKLSKELMMTTIGIVLLSQSTIPETILELTDALALGMMVLKMVRN
 MEKYQLAVTIMAILCVPNAVILQNAWKVSCILAVSVSPLLLTSSQQKTDWIPLALTIKGLNPTAIFLT
 TLSRTSKKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NC_001474

ORF Size: 657 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_739585](#)

RefSeq ORF: 657 bp
MW: 23.8 kDa