

## Product datasheet for **VC102551**

### nonstructural protein NS4B (NC\_001474) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	nonstructural protein NS4B (NC_001474) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nonstructural protein NS4B
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 VC102551 represents NCBI reference of NP_739589 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACGAAATGGGCTTCTTGGAGAAGACAAAAAGGATCTGGGACTTGGATCTATCGCCACACAACAGC  
CCGAATCTAACATCCTCGATATTGATCTCCGGCCCGCATCCGCCTGGACCCTCTACGCCGTTGCCACCAC  
CTTTGTCACCCCTATGCTGCGCCACTCTATCGAAAACCTCCGTGAACGTTTCCCTGACCGCCATAGT  
AACCAGGCCACCGTTCTGATGGGACTGGGAAAGGCTGGCCTCTTCAAAAATGGATATCGGTGTCCCAC  
TCCTTGCTATCGGATGCTATTCTCAGGTTAATCCACTTCTTACAGCTGCACTCTTCTGCTCGTGCC  
ACACTACGCAATCATCGGCCCTGGACTTCAGGCAAAAGCCACTCGGGAAGCGCAAAAACGAGCTGCCGCA  
GGAATTATGAAAAACCTACAGTCGACGGCATAACAGTTATAGATCTCGACCCTATCCCCTATGACCCTA  
AGTTTGAGAAGCAGCTTGGGCAAGTCACTGCTCCTCGTCTCTGTGTCACTCAGGACTCATGATGAGAAC  
TACTTGGGCACTGTGTGAAGCCCTGACTCTTGTACTGGACCCATTTCAACTCTGTGGGAAGGCAATCCC  
GGTAGGTTCTGGAACACAACCATCGCAGTCAGTATGGCCAATATATTCAGGGGCAGCTACCTCGCAGGCC  
CTGGACTCCTCTTAGTATTATGAAAAACACAACGAACACACGAAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >VC102551 representing NP\_739589  
 Red=Cloning sites Green=Tags

MNEMGFLEKTKKDLGLGSIATQQPESNILDIDLRPASAWTL YAVATTFVTPMLRHSIENSSVNVSLTAIA  
 NQATVLMGLGKGWPLSKMDIGVPLLAIGCYSQVNPITLTAALFLLVAHYAIIIGPLQAKATREAQKRAAA  
 GIMKNPTVDGITVIDLDP IYPDPKFEKQLGQVMLLVLCVTQVLMRRTTWALCEALTLATGP I STLWEGNP  
 GRFWNTTIAVSMANIFRGSYLAGAGLLFSIMKNTTNTNR

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:** 747 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\\_739589](#)

RefSeq ORF: 747 bp  
MW: 26.9 kDa