

## Product datasheet for **VC102511**

### non-structural protein NS4a (NC\_001563) Virus Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** non-structural protein NS4a (NC\_001563) Virus Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** non-structural protein NS4a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >The Viral ORF clone VC102511 represents NCBI reference of NP\_776019 with codon optimized for human cell expression  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

GACGTTGATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTCAAATTGGCCTTGTGGAAGTTCTGGGCAGGATGCCAGAACATTTTCATGGTTAAGACCTGGGAGG  
 CTCTCGACACAATGTACGTCGTGGCTACCGCCGAGAAGGGGGACGCGCCACAGGATGGCTCTCGAGGA  
 GCTGCCTGATGCACTCCAGACAATTGTGCTGATAGCCCTTCTGTCCGTGATGAGCCTCGGCGTATTCTTC  
 CTGCTGATGCAGCGCAAGGGCATTGGTAAGATTGGCCTCGGTGGTGTGATACTGGGCGCAGCCACCTTCT  
 TTTGCTGGATGGCAGAGGTCCCAGGTACCAAAATTGCCGGTATGCTCCTGCTGTCTCTTGTCTGATGAT  
 AGTGTTGATTCTGAACCGAGAAGCAGAGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >VC102511 representing NP\_776019  
**Red**=Cloning sites **Green**=Tags

MSQIGLVEVLGRMPEHFMVKTWEALDTMYVVATAEKGGRAHRMALEELPDALQTIIVLIALLSVMSLGVFF  
 LLMQRKGIGKIGLGGVILGAATFFCWMAEVPGTKIAGMLLL SLLLMIIVL IPEPEKQR

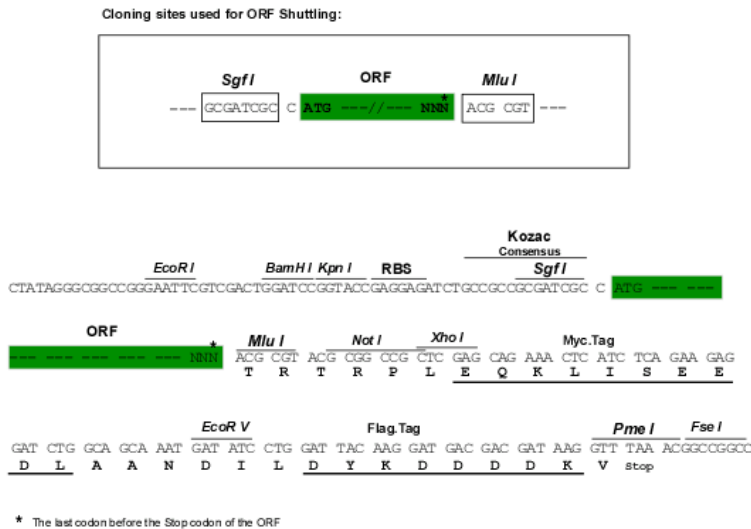
**TR**TRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**



**ACCN:** NC\_001563

**ORF Size:** 381 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](mailto: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\_776019  
RefSeq ORF: 381 bp  
MW: 13.9 kDa