

Product datasheet for **VC102552**

RNA-dependent RNA polymerase NS5 (NC_001474) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNA-dependent RNA polymerase NS5 (NC_001474) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNA-dependent RNA polymerase NS5
Synonyms:	DENV_gp1, Dengue, DENV
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 VC102552 represents NCBI reference of NP_739590 with codon optimized for human cell expression

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGGTACAGGAAATATAGGGGAGACTCTTGGTAAAAGTGAAGTCTAGACTGAACGCCCTTGAAAT
CTGAGTTTCAGATCTACAAAAGTCCGGAATCCAGGAGTTGATCGAACACTCGCCAAGGAAGGAATCAA
ACGGGGAGAGACCGACCATCATGCAGTATCACGCGGTCTGCTAAGCTTCGCTGGTTCGTAAGAACGAAAC
ATGGTGACCCCGAAGGCAAAGTCGTGGACCTTGGGTGCGGTGCGGGCGGCTGGAGCTATTACTGTGGAG
GATTGAAAACGTTCCGGGAAGTGAAGGCTGACTAAGGGAGGACCAGGACACGAGGAACCTATCCCAT
GAGCACATACGGCTGGAACCTGGTACGACTTCAATCAGGTGTGACGTGTTCTTCATCCCACCAGAGAAA
TGTGATACTCTGCTCTGTGACATAGGAGAGTCTAGCCCCAATCCTACTGTTGAGGCCGCGAGAACCCTTC
GCGTTTTGAACCTCGTGGAAAACGGTGAATAACAATACCAATTTTGCATTAAGTGCTTAATCCATA
CATGCCCTCAGTAATAGAAAAGATGGAGGCCTTGCAACGAAAATACGGGGCGCAGCTCGTAAGGAATCCT
TTGCTCGCAATTAACCCACGAAATGACTGGGTCTCCAACGCATCCGGAACATTGTTAGTCCGTGA
ATATGATTTCCAGAAATGCTGATTAACAGATTACAATGCGGTACAAGAAAGCAACATACGAACCAGATGT
AGACCTCGGCTCTGGAACCTCGAACATTGGCATTGAGTCTGAAATACCAATCTGGACATTATCGGAAAA
AGAATCGAGAAAAACAACAAGAATGAGACTTCTGGCACTACGATCAGGACCATCCCTATAAAACCT
GGGCTTACCACGGATCATATGAGACCAAGCAAAGTGGATCCGCAAGTTCAATGGTTAACGGCGTAGTACG
GCTTCTTACCAAACCATGGATGTGTTCCCATGGTGACCCAGATGGCAATGACTGATACAACACCATT
GGCCAGCAGCGAGTTTTTAAGGAGAAAGTCGACACACGCACTCAAGAGCCCAAAGAGGGTACAAAAAGC
TCATGAAAATAACAGCGGAGTGGTTGTGGAAGAAGTGGGCAAGAAAAAACCCCTCGGATGTGTACTCG
CGAAGAATTAACCCGGAAGGTGCGGAGTAAATGCAGCCCTCGGGCAATCTTACTGACGAAAATAAATGG
AAGAGCGCAGGAAAGCCGTGCAAGATTACGATTCTGGAACTGGTTGATAAAGAACGAAACTGCATC
TGGAAGGTAAATGCGAACTTGCCTGATAACATGATGGGGAAGCGCAAAAAAGCTGGGAGAATTCGG
TAAAGCAAAGGGCAGCAGAGCTATTTGGTACATGTGGTTGGGCGCAAGTTTTCTGGAATTTGAGGCCCTG
GGATTTTTGAATGAGGATCATTGGTTTAGTAGGGAGAATAGTTTGTCTGGCGTGGAGGTGAAGGGCTC
ACAAGCTCGGCTACATCCTTAGAGATGTGAGCAAAAAAGAAGGAGGTGCTATGTACGCTGACGATACAGC
TGCTGGGACACACGATTACACTCGAAGACCTGAAGAATGAAGAATGGTAACAATACATGGAAGGA
GAGCATAAAAAGCTCGCAGAGGCAATTTTAAACTGACGTACCAAAAATAAGGTGGTTTCGAGTACAGCGCC
CAACCCACGAGGCACAGTAATGGATATAATTAGTCGCCGGGATCAGCGAGGATCAGGACAGGTTGGAAC
ATACGGATTGAATACTTTACCAACATGGAGGCACAACCTGATCAGACAGATGGAAGGTGAAGGCGTTTTT
AAGAGCATTACGCACTTGACAATTACCGAGGAGATTGCGGTACAAAACCTGGTTGGCCAGGGTCGGCAGGG
AACGGCTTAGCAGAAATGGCCATTTACGGGGATGACTGTGTGGTTAAACCTCTCGACGATAGATTTGCTTC
CGCTTTGACCGCTTTGAACGACATGGGTAAAGATTGCAAAAGACATCCAACAGTGGGAACCAAGTCGGGT
TGAATGATTGGACACAGGTGCCCTTCTGCTCTCATTTTTATGAGTTGATAATGAAAGATGGTCGCG
TACTGGTTGTCCCATGTAGAAACCAGGACGAACCTATTGGAAGGGCCAGGATAAGCCAAGGAGCTGGATG
GTCCCTGAGAGAGACTGCATGCCTCGGCAAATCATACGCCAAAATGTGGTCCCTCATGATTTCCATAGG
AGAGATCTCAGACTGGCAGCCAACGCCATTTGCTCTGCCGTTCCCTCACATTGGGTTCCGACAAGTAGGA
CGACATGGTCTATTACGCCAAACACGAGTGGATGACTACAGAGGATATGCTGACTGTGTGGAATCGCGT
TTGGATTACGAAACCCATGGATGGAGGATAAGACTCCCGTGGAGAGTTGGGAAGAAATCCCTACTTG
GGGAAAAGAGAAGATCAGTGGTGCAGTCACTTATCGGCTTGACCTCTAGGGCCACTTGGGCCAAAAATA
TTCAAGCTGCCATCAATCAGGTGAGGAGCTGATTGGAACGAGGAATACACAGATTACATGCCATCCAT
GAAAAGATTTAGAAGGGAGGAGGAGGAGCGGGAGTGTGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATTAAGGTTTAA

Protein Sequence: >VC102552 representing NP_739590
 Red=Cloning sites Green=Tags

MGTGNIGETLGEKWSRLNALGKSEFQIYKKSIGQEVDRTLAKEGIKRGETDHHAVSRGSAKLRWFVERN
 MVTPEGKVVLDLGCGRGGWSYYCGGLKNVREVKGLTKGGPGHEEIPMSTYGWNLVRLQSGVDVFFIPPEK
 CDTLLCDIGESSNPPTVEAGRTLRLVNLVENWLNNTQFCIKVLNPYMPSVIEKMEALQRKYGGALVRNP
 LSRNSTHEMYWVSNASGNIVSSVNMISRMLINRFTMRYKKATYEPDVLGSGTRNIGIESEIPNLDIIGK
 RIEKIKQEHETSWHYDQDHPYKTWAYHGSYETKQTGSASSMVNGVVRLLTKPWDVVPMTQMAMTDTPF
 GQQRVFKKVDTRTQEPKEGTKKLMKITAEWLWKELGKKKTPRMCTREEFTRKVRSAALGAIFTDENKW
 KSAREAVEDSRFWELVDKERNLHLEGKCEVCVYNNMMGKREKLGEGFKAKGSRAIWMWLGARFLEFEAL
 GFLNEDHWF SRENSL SGVEGEGHLKLGYL RDVSKKEGGAMYADDTAGWDTRITLEDLKNEEMVTNHMEG
 EHKKLAEAIFKLYQNKVVRVQRPTPRGTVMDDIISRRDQRGSGQVGTGYLNTFTNMEAQLIRQMEGEGVF
 KSIQHLTITEEIAVQNLARVGRERLSMAISGDDCVVKPLDDRFASALTALNDMGKIRKDIQQWEPESRG
 WNDWTQVPFCSHHFHELIMKDGRVLVPCRNQDELIGRARISQGAGWSLRETA CLGKSYAQMWSLMYFHR
 RDLRLAANAICSAVPSHWVPTSRTTWSIHAKHEWMTTEDMLTVWNRVWIQENPW MEDKTPVESWEEIPYL
 GKREDQWCGSLIGLTSRATWAKNIQAAINQVRSLIGNEEYTDYMP SMKRF RREEEEAGVLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NC_001474

ORF Size: 2703 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:	<ol style="list-style-type: none">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:	<u>NC_001474.2</u> , <u>NP_739590</u>
RefSeq ORF:	2703 bp
MW:	103.4 kDa