

Product datasheet for **VC102538**

RNA-dependent RNA polymerase NS5 (NC_012532) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RNA-dependent RNA polymerase NS5 (NC_012532) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RNA-dependent RNA polymerase NS5
Synonyms:	ZIKV_gp1, ZIKV
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 VC102538 represents NCBI reference of YP_009227205 with codon optimized for human cell expression

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGAGGGGGACCGGGAAACTCTGGGTGAAAAATGGAAGGCCCGCTCAATCAATGAGTGCCTGG
AATTTTACAGCTATAAAAAATCCGGGATACAGAAAGTGTGTAGGGAGGAGCCAGACCGCACTCAAGGA
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CAATTCGAAAAGTCCAGGAAGTTCGAGGTTACACCAAAGGAGGACCTGGCCATGAGGAACCTATGCTTGT
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TGTGATACCTTCTTTGTGATATCGGTGAATCATCTCTCCCTGAGGTGCAAGAAACACGGACACTCA
GAGTACTTAGCATGGTTGGAGACTGGCTGAAAAAGAGACCAGGAGCATTCTGCATTAAGGTCTTGTGCC
CTATACATCCACCATGATGGAACCATGGAACGGCTTCAGCGCAGGCATGGAGGCCGACTTGTGAGGGTG
CCCTTGTGTCGCAACTCAACTCACGAAATGTAAGTGGTGTCTGGTGCAGAACTAACATCATCAAAATCCG
TAAGCACAAATCACAGCTGCTTCTGGGGAGAATGGATGGACCTAGGAGACCAGTGAAGTATGAAGAGGA
CGTCAACCTCGGCAGCGGCACCCGCGCGTGGCGTATGTGCGGAGGCCCAACATGAAAAATCATAGGA
AGAAGAATTGAAAGGATACGGAACGAGCATGCCGAAACATGGTTCCTTGACGAGAATCACCTTACCGGA
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TACGGACAGCAGAGAGTGTCAAAGAGAAGGTGGACACTCGAGTCCCGATCCTCAGGAAGGAACACGGC
AGGTAATGAACATTGTGTCTAGTTGGCTGTGGAAGGAGCTGGGAAGCGAAAGAGACCCGCGTATGTAC
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CGGGAAGGCTAAAGTTTACGAGCCATTTGGTATATGTGGTTGGGAGCTAGGTTCTTGGAGTTCGAAGCC
CTGGGATCCTGAACGAAGATCATTGGATGGTTCGCGAGAACAGTGGAGGAGGGTGAAGGCTGGGAT
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TGCTGGATGGGATACTCGAATAAGCAAGTTCGATCTGGAGAACGAGGCTCTGATTACAAATCAGATGGAG
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AGAATATTAAGACACCGTTAATATGGTTAGAAGGATCATAGGTGACGAAGAAAAGTACATGGATTACCT
GTCAACCCAGGTGAGGTATCTCGGGGAGGAAGGGAGCACTCCCGCGTGTCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence: >VC102538 representing YP_009227205
 Red=Cloning sites Green=Tags

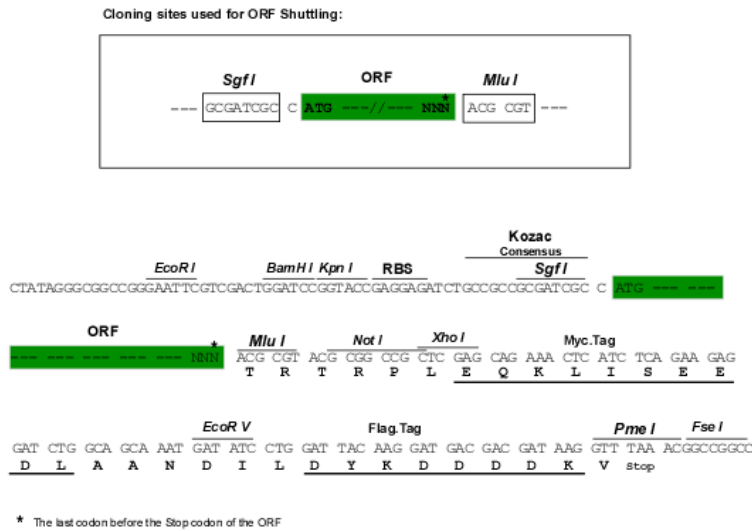
MGGGTGETLGEKWKARLNQMSALEFYSSYKKSIGITEVCREEARRALKDGVATGGHAVSRGSAKIRWLEERG
 YLQPYGKVVLDGCGRGGWSYYAATIRKQVEVRGYTKGGPGHEEPLMVQSYGWNIVRLKSGVDVFMMAAEP
 CDTLLCDIGESSSSPEVEETRTLRLVLSMVGDWLEKRPQAFCIKVLCPYTTMMETMERLQRRHGGGLVRV
 PLCRNSTHEMYVWSGAKSNIKSVSTTSQLLLGRMDGPRRPVKYEEEDVNLGSGTRAVASCAEAPNMKIIG
 RRIERIRNEHAETWFLDENHPYRTWAYHGSYEAPTQGSASSLVNGVVRLLSKPWDVVTGVTGIAMTDTP
 YGQQRVFKKVDTRVPDPQEGTRQVMNIVSSWLWKLGKRKRPRVCTKEEFINKVRSNAALGAIFFEEKE
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 LGFLNEDHWMGRENSGGVEGLGLQRLGYILEEMNRPAGGKMYADDTAGWDTRISKFDLENEALITNQME
 EGHRTLALAVIKYTYQNKVVKVLPAEGGKTVMIDIISRQDQRGSGQVVTYALNTFTNLVVQLIRNMEAAE
 VLEMQDLWLLRKPEKVRWLQSNWDRLKRMVSGDDCVVKPIDDRFAHALRFLNDMGKVRKDTQEWKPS
 TGWSNWEVFPFCSHHFNKLYLKDGRSIVVPCRHQDELIGRARVSPGAGWSIRETACLAKSYAQMWQLLYF
 HRRDLRLMANAICSAVPVDWVPTGRTTWSIHGKGEWMTTEDMLMVNWRVWIEENDHMDKTPVTKWTDIP
 YLGKREDLWCGSLIGHRPRTTWAENIKDVTVMVRRRIIGDEEKYMDYLSTQVRYLGEEGSTPGVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NC_012532

ORF Size: 2712 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_012532.1</u> , <u>YP_009227205</u>
RefSeq ORF:	2712 bp
MW:	103.1 kDa