

Product datasheet for **VC100605**

HCoV-OC43 N Gene Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-OC43 N Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	N Protein
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 VC100605 represents NCBI reference of NP_937954 with codon optimized for human cell expression
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCTTTTACCCCGGGAACAGTCTAGTTCACGGGCTTCTAGCGGCAATAGGTCAGGCAATGGAATCC
 TCAAATGGGCTGACCAAGTCAGACCAATTCGGAACGTCCAGACTCGAGGACGCAGAGCACAAACAAAACA
 AACCGCTACTTCACAGCAGCCAGTGGGGGAACGTGGTTCCTATTATTCCTGGTTTTAGGAATCACC
 CAGTTTCAAAGGGTAAGGAGTTCGAATTCGTCGAGGGACAAGGAGTTCATCGCTCCCGGCGTCCCG
 CTACTGAGGCGAAGGGTATTGGTACAGGCACAACAGGAGGAGCTTCAAGACTGCCGATGGAATCAGAG
 ACAGCTTCTCCCTCGGTGGTACTTCTACTATTTGGGAACAGGGCCTCACGCTAAGGACCAATACGGAACA
 GACATTGATGGCGTATATTGGTTCGCCAGCAACCAGGCCGACGTGAACACCCAGCTGATATCGTTGACC
 GGGACCCATCCAGCGATGAAGCAATCCCAACACGGTTTCCACCGGAACAGTGTGCCGAGGGCTACTA
 TATTGAAGGAAGCGGGAGATCAGCGCAAATTCAGATCCACGTCCCGAACTAGCTCCAGGGCCTCAAGC
 GCCGGATCCCGCTCAAGAGCCAACAGCGGGAACCGAACCCCAACGAGTGGCGTAACACCAGATATGGCTG
 ACCAAATCGCTAGTCTTGTGCTGGCAAAGCTCGGTAAGGACGCTACAAAACACAGCAAGTCACTAAACA
 TACAGCCAAAGAAGTTCGCCAAAAGATCCTCAATAAACCCAGGCAGAAAGCGATCACCAACAAACAGTGT
 ACTGTGCAACAATGCTTCGGGAAACCGGTCGGAATCAAATTTCCGGCGGCGGTGAGATGCTGAAACTGG
 GCACATCAGACCCACAGTTCCTCAATATTGGCTGAGCTGGCACCTACTGCCGGGCGATTCTCTTTGGCAG
 CCGATTGGAGCTTGCCAAAGTGCAGAACTTGGTGGCAATCCTGATGAGCCCCAGAAAGATGTGTACGAG
 CTTTCGCTACAATGGAGCCATTAGATTCGACAGTACATTGTCAGGCTTTGAGACCATCATGAAAGTTTTGA
 ACGAAAAATCTGAACGCTTACCAACAGCAGGATGGCATGATGAATATGTCTCCGAAGCCACAGCGGCAAG
 AGGACATAAAAAATGGACAGGAGAGAACGACAACATAAGTGTGCGAGTCCGAAGAGCAGGGTCCAGCAG
 AACAAAAGCCGAGAACTTACAGCAGAAGACATCTCCCTGCTGAAGAAGATGGATGAACCATATACGGAGG
 ATACAAGCGAGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC100605 representing NP_937954
 Red=Cloning sites Green=Tags

MSFTPGKQSSSRASSGNRSGNGLKWADQSDQFRNVQTRGRRAQPKQTATSQQPSGGNVVPPYYSWFSGIT
 QFQKGEFEFVEGQGVPIAPGVPATEAKGYWYRHNRRSFKTADGNQRQLLPRWYFYLLGTGPHAKDQYGT
 DIDGVYVWASNQADVNTPADIVDRDPSSDEAIPTRFPPGTVLPQGYIEGSGRSAPNSRSTSRSSRASS
 AGSRSRANSRNTPTSGVTPDMADQIASLVLAKLGKDATKPPQVTKHTAKEVRQKILNKPRQKRSPNKQC
 TVQQCFGKRGNQNFGGEMLKLGTSDPQFPIAELAPTAGAFFFGSRLELAKVQNLSGNPDEPQKDVYE
 LRYNGAIRFDSTLSGFETIMKVLNENLNAYQQDGMNMSPKPRQRGRHKNQGENDNISVAVPKSRVQQ
 NKSRELTAEDISLLKKMDEPYTETDSEI

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NC_005147

ORF Size: 1344 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 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_005147.1](#), [NP_937954](#)
RefSeq ORF: 1344 bp

Locus ID: 2648210

MW: 49.5 kDa