

## Product datasheet for **VC100597**

### HCoV-NL63 N Gene Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-NL63 N Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nucleocapsid protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC100597 represents NCBI reference of YP_003771 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCGTGAACGGGCTGATGACAGAGCTGCGAGGAAGAAGTCCCCCCCCATCCTTTTACATGC  
CCCTGTGGTTTCCTCTGACAAGGCTCCCTACAGGGTGATCCCGCGCAACCTGGTTCTATCGGCAAGGG  
AAACAAGGACGAGCAGATAGGATATTGGAATGTCCAGGAGCGCTGGCGCATGCGCAGAGGGCAGCGGGTG  
GATCTCCCGCCTAAAGTCCACTTCTACTACCTCGGAACAGGACCACACAAGGATCTGAAATTCGCACAAC  
GGAGCGATGGAGTTGTGTGGGTGGCAAAGGAGGGGCCAAGACAGTGAATACCTCTCTTGGTAACCGGAA  
ACGGAATCAGAAGCCCTGGAGCCAAATTCAGCATAGCACTCCCCCAGAGCTCTCAGTAGTCGAATTT  
GAAGATAGAAGCAACAACAGCAGCCGCGCAAGCAGTCGATCCAGCACAAGGAATAACTCTAGGGACTCTT  
CAAGAAGTACGTCCCGCCAACAGTCCCGAACGAGGTCAGATAGTAATCAGTCCAGCTCCGACCTCGTGCC  
AGCTGTGACCTTGGCCCTCAAGAACCTCGGATTCGACAATCAGTCCAAGTCTCCTTCTCTAGCGGGACA  
TCAACGCCTAAGAAACCTAACAAACCCCTGTCCCAGCCTAGAGCAGACAAGCCTAGCCAGCTTAAAAAGC  
CTCGGTGGAAGCGGGTCCCCACAAGAGAAGAGAACGTGATTGAGTCTTCGGTCCACGGGACTTCAATCA  
TAACATGGGCGACTCTGATCTCGTACAGAACGGCGTCGACGCTAAGGGGTTTCCCAGCTTGCCGAGCTG  
ATTCCAAATCAGGCAGCACTTTTCTTCGATAGCGAAGTTTCAACTGACGAGGTGGGCGACAACGTCCAGA  
TAACCTACACCTACAAGATGCTTGTAGCTAAGGACAACAAAAATCTGCCAAGTTCATCGAGCAATAAG  
CGCCTTTACTAAACCTCAAGCATCAAAGAAATGCAGTCCAGAGTTACACGTTGCCGAGAACCCGCTC  
CTGAATGCGTCAATTCCGGAGAGCAAACCTCTTGTGACGATGACTCTGCCATCATCGAAATTGTCAACG  
AGGTCTTGCAAT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >VC100597 representing YP\_003771  
 Red=Cloning sites Green=Tags

MASVNWADDRAARKKFPFPPSYMPLLVSDDKAPYRVIPRNLVPIGKGNKDEQIGYWNVQERWRMRGRQV  
 DLPPKVHFYYLGTGPHKDLKFRQRSDGVVWAKEGAKTVNTSLGNRKRKQKPLEPKFSIALPPEL SVVEF  
 EDRSNSSRASSRSSTRNNSRDSSRSTSRQQSRTRSSDSNQSSSDLVAAVTLALKNLGFDNQSKSPSSSGT  
 STPKKPNKPLSQPRADKPSQLKKPRWKRVP TREENVIQCFGPRDFNHNMGDSDLVQNGVDAKGFQQLAEL  
 IPNQAALFFDSEVSTDEVGDNVQIITYTYKMLVAKDNKNLPKFIEQISAF TKPSSIKEMQSQSSSHAQNTV  
 LNASIPESKPLADDDSAIIEIVNEVLH

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2352\\_b01.zip](https://cdn.origene.com/chromatograms/ja2352_b01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NC\_005831

**ORF Size:** 1131 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NC_005831.2</a></u> , <u><a href="#">YP_003771</a></u>
<b>RefSeq ORF:</b>	1131 bp
<b>Locus ID:</b>	2943504
<b>MW:</b>	42.3 kDa