

Product datasheet for **VC100602**

HCov-OC43 NS2 Gene Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCoV-OC43 NS2 Gene Tagged ORF Clone
Tag: Myc-DDK
Symbol: NS2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >The Viral ORF clone VC100602 represents NCBI reference of NP_937951 with codon optimized for human cell expression
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATATATGGAGACCCGAGAAGAAGTATCTCAGGTACATCAATGGGTTAATGTCAGCGAACTGGAGG
ACGCTTGCTTCAAATCAACTATCAGTCCCAAGGTGGGATACTGCCCGTGCCAAGCCATGCATGGTG
TCGAAACCAAGGGAGATTCTGTGCAACTTTCACACTGTACGGCAAAGTAAGCATTACGACAAATATTTT
GGGGTGATAAATGGATTTACAGCCTTTGCGAACCCGTAGAGGATGCAGTGAATAAGCTGGTCTTTCTGG
CAGTCGATTTTCATCACCTGGCGGAGGCAGGAGCTCAACGTTTATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC100602 representing NP_937951
Red=Cloning sites **Green**=Tags

MDIWRPEKKYLRYINGFNVSELEDACFKFNYQFPKVGYCRVPSHAWCRNQGRFCATFTLYGKSKHYDKYF
GVINGFTAFANTVEDAVNKLVLAVDFITWRRQELNVYG

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NC_005147

ORF Size: 327 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_937951](#)
RefSeq ORF: 327 bp
Locus ID: 2648211
MW: 12.9 kDa