

## Product datasheet for **VC100599**

### HCov-OC43 NS2a Gene Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HCov-OC43 NS2a Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NS2a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC100599 represents NCBI reference of NP_937948 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGTAGCCTATGCAGACAAGCCCAACCACTTCATTAACCTCCCTCTACCCATTTCCAAGGGTTGG  
TGCTGAATTACAAGGGCCTCCAGTTCAAATCCTGGACGAAGGCGTGGACTGTAAGATTC AACACAGCACC  
TCATATCTCTGACAATGCTCGATATTCAGCCGAAGACTACAAGAGCGTTGATGTGGCCATTCAGGAG  
GTAATTGACGATATGCATTGGGGCGATGGATTCCAGATTAAGTTCGAGAATCCCATATCCTGGGTCGCT  
GTATCGTGTGGACGTGAAGGGGTGGAGAACTGCATGATGACCTCGTTAACTATATAAGAGATAAGGG  
CTGCGTCGCTGACCAAAGTAGAAAATGGATCGGCCACTGTACTATTGCCAGCTACCGATGCAGCACTT  
TCCATTAAGAGAATGTAGATTTCAATCAATTCAATGCAGTTAATTATAAAATTACGATCAACCCCTCAA  
GCCCGCACGGTTGAAAATAGTGAAGCTGGGAGCCGAGAAAAAGATGGATTCTACGAGACAATAGTGTC  
CCATTGGATGGGCATCCGCTTTGAGTATACTCCCAACCGACAAGTTGGCTATGATCATGGGATACTGC  
TGCCTGGACGTGAGAAAAGGAGCTCGAAGAGGGGATCTGCCGAAAACGACGACGATGCCTGGTTCA  
AGCTGTCTTACCACTACGAAAATAACAGCTGGTTTTTTAGGCATGTGTATAGGAAATCCTCCACTTTAG  
AAAGGCTTCCAGAACCTGGACTGCAATTGTCTGGGCTTCTACGAGTCATCTGTTGAAGAATAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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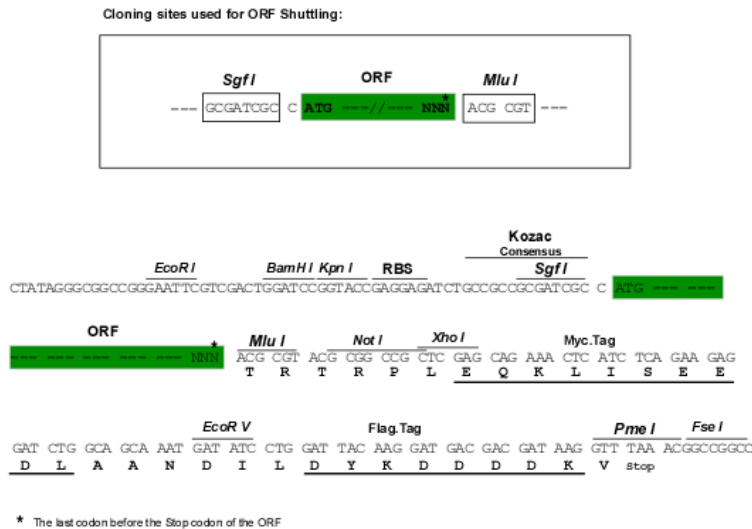
**Protein Sequence:** >VC100599 representing NP\_937948  
Red=Cloning sites Green=Tags

MAVAYADKPNHFINFPLTHFQGFVLNYKGLQFQILDEGVDCKIQTAPHISLTMLDIQPEDYKSVDVAIQE  
 VIDDMHWGDFQIKFENPHILGRCIVLDVKGVEELHDDL VNYIRDKGCVADQSRKWIGHCTIAQLTDAAL  
 SIKENVDFINSMQFNKITYINPSSPARLEIVKLGAEKKDGFYETIVSHWMGIRFEYTSPTDKLAMIMGYC  
 CLDVVRKELEEGLPENDDDAWFKLSYHYENNSWFFRHVYRKSFHFRKACQNLDCNCLGFYESSVEEY

TRRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NC\_005147

**ORF Size:** 834 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.

**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\\_937948](#)

**RefSeq ORF:** 834 bp

**Locus ID:** 2648207

**MW:** 32.3 kDa