

## **Product datasheet for VC100564**

## **HCoV-229E 4A gene Tagged ORF Clone**

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** HCoV-229E 4A gene Tagged ORF Clone

Tag: Myc-DDK

Symbol: 4a

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >The Viral ORF clone VC100564 represents NCBI reference of NP\_073552 with codon

Sequence: optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCTCTGGGTCTGTTCACACTCCAGCTCGTCAGTGCGGTGAATCAGTCCCTTTCCAACGCCAAGGTGT
CTGCTGAGGTGTCACGCCAGGTTATACAGGACGTCAAGGACGGTACTGTCACCTTCAACCTTCTCGCTTA
CACTCTGATGTCCCTTTTTGTCGTCTATTTTGCATTGTTCAAAGCCAGGTCCCACCGCGGTCGGGCCGCC
CTGATCGTGTTCAAAATTCTGATTCTGTTTCGTTTACGTGCCTCTGCTGTACTGGTCTCAGGCATATATCT
ACGCAACATTGATTGCCGTGATATTGCTCGGTAGGTTTTTTCATACCGCATGGCACTGCTGGCTTTACAA
AACCTGGGATTTCATCGTGTTCAACGTGACTACGCTCTGCTACGCCAGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >VC100564 representing NP\_073552

Red=Cloning sites Green=Tags

MALGLFTLQLVSAVNQSLSNAKVSAEVSRQVIQDVKDGTVTFNLLAYTLMSLFVVYFALFKARSHRGRAA

LIVFKILILFVYVPLLYWSQAYIYATLIAVILLGRFFHTAWHCWLYKTWDFIVFNVTTLCYAR

**TRTRRL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



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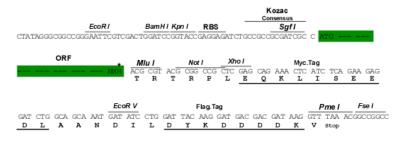
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## **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NC\_002645

ORF Size: 399 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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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.



## HCoV-229E 4A gene Tagged ORF Clone - VC100564

**RefSeq:** NC 002645.1, NP 073552

 RefSeq ORF:
 399 bp

 Locus ID:
 918759

 MW:
 15.3 kDa