

## Product datasheet for **VC102558**

### SARS-CoV-2 ORF3a Gene Tagged ORF (codon optimized)

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SARS-CoV-2 ORF3a Gene Tagged ORF (codon optimized)
Tag:	Myc-DDK
Symbol:	ORF3a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>VC102558 representing YP_009724391, <b>codon optimized</b> . Due to the complexity of YP_009724391, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGACCTCTTTATGCGCATTTTACCATTGGCACCGTAACTCTCAAACAAGGTGAAATAAAGGACGCC
ACCCCATCAGATTTTGTCCGAGCTACAGCAACCATCCCTATACAGGCATCCCTGCCTTCGGCTGGCTC
ATTGTTGGGGTCGCCCTTCTGGCCGATTTCAATCCGCATCAAAAATTATCACTCTGAAGAAACGCTGG
CAGCTGGCTCTGTCTAAAGGCGTGCACTTCGTCTGTAATCTCCTTCTCCTGTTTGTACCCTACTCT
CATCTTTTGTCTGGCTGCCGGCTGGAAGCCCCATTCTGTATCTCTATGCCCTCGTCTATTTTCTC
CAATCAATTAATTTGTTAGGATTATCATGCGCCTCTGGTTGTGCTGAAATGCCGCTCCAAAACCCC
CTGCTCTATGACGCTAACTACTTCTTTGCTGGCACACCAACTGCTATGATTACTGCATCCCCTATAAC
TCTGTTACAAGTAGCATTGTGATCACATCTGGCGACGGCACAACCTCTCCAATCTCCGAGCAGGATTAT
CAAATGGTGGCTATACTGAAAATGGGAAAGTGGCGTAAAGACTGCGTGGTGTGCACTCCTATTTTC
ACATCCGATTATTACCACTCTATTCAACCAACTGTCAACTGATACAGGCGTCGAACACGTGACGTTTC
TTTATTTATAATAAGATTGTCGATGAACCTGAAGAACACGTACAGATCCACACAATCGACGGATCATCT
GGCGTCGTCAACCCCGTAATGGAGCCCATCTACGACGAACCAACAACACTACTACCTCTGTACTCTGT
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TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```



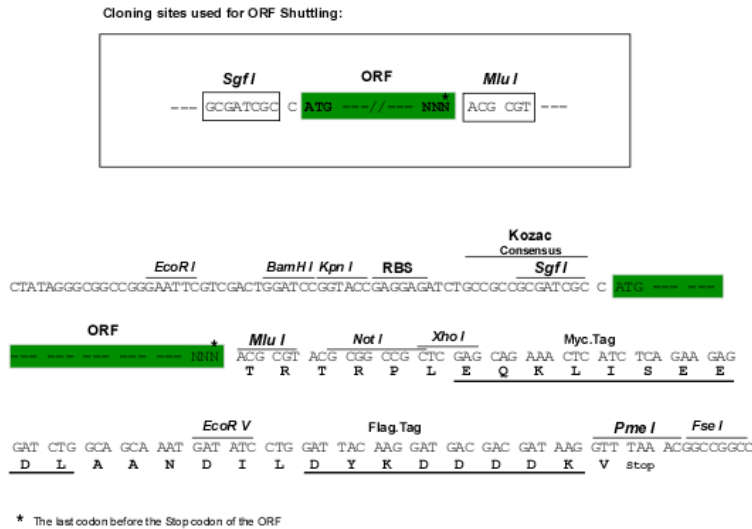
[View online »](#)

**Protein Sequence:** >VC102558 representing YP\_009724391  
 Blue=ORF Red=Cloning site Green=Tag(s)

MDLFMRIFTIGTVTLKQGEIKDATPSDFVRATATIPIQASLPFGWLIVGVALLAVFQSASKIITLKKRW  
 QLALSKGVHFVCNLLLLFVTVYSHLLLVAAGLEAPFLYLALVYFLQSFVRIIMRLWLCWKCCKRKNP  
 LLYDANYFLCWHNTNCYDYCIPYNSVTSSIVITSGDGTTSPISEHDYQIGGYTEKWEESGVKDCVVLHSYF  
 TSDYYQLYSTQLSTDTGVEHVTFYIYNKIVDEPEEHVQIHTIDGSSGVVNPVMEPIYDEPTTTTSVPL  
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NC\_045512

**ORF Size:** 825 bp

**OTI Disclaimer:** The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

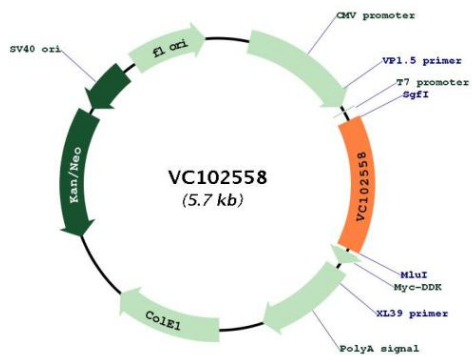
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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:** [YP\\_009724391](#)

RefSeq ORF: 825 bp  
 MW: 31.1 kDa

**Product images:**



Circular map for VC102558