

Product datasheet for VC100580

HCoV-HKU1 nsp5 Gene Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-HKU1 nsp5 Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nsp5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC100580 represents NCBI reference of YP_459936 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGGAATAGTCAAGATGGTAAGCCCTACTCAAAAATCGAACCGTGTATCGTTAGCGTGACTTATG
GAAGCATGACACTGAATGGCCTGTGGCTGGATGATAAGGTTTATTGCCCCAGGCATGTAATCTGCTCTAG
CTCAAACATGAATGAGCCTGACTACTCCGCGCTGCTTTGCCCGTGACCCCTGGGGGACTTCACGATTATG
TCTGGAAGAATGAGCCTTACTGTGGTGAGCTATCAGATGCAGGGCTGTCAACTCGTGTACTGTGAGTT
TGCAGAACCCGTACACTCCGAAGTATACATTCGGCAACGTAAAACCCGGGAAACATTTACCGTTCTGGC
GGCATATAATGGTAGACCGCAAGGCGGTTTCATGTGACCATGCGCAGTAGCTATACTATCAAGGGTCT
TTCCTGTGCGGTTCTGCGGATCTGTTGGCTACGTGCTGACTGGCGATAGCGTTAAGTTCGTGTACATGC
ACCAACTCGAACTCTCTACAGGATGCCACACCGGAACAGATTTACCGGTAACCTCTATGGGCCGTACCG
GGATGCTCAGGTGGTGCAGCTGCCCGTTAAAGATTATGTGCAGACTGTGAATGTAATAGCTTGGCTGTAT
GCGGCAATTTGAATAATTGCGCCTGGTTCGTTTCCAGAAATGATGTGTGCAGCACCGAGGACTTTAACGTCT
GGGCAATGGCAAATGGCTTTTACAGGTGAAAGCCGATCTGTGCTGGACGCCCTGGCTTCTATGACGGG
CGTCAGTATCGAAACCCCTCTCGCGCCATTAAGCGGCTGTACATGGGGTTTCAAGGACGGCAGATCCTG
GGCAGCTGCACCTTTGAGGATGAACTGGCCCCAGTGATGTCTACCAACAGCTCGCTGGGGTCAAGCTGC
AG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >VC100580 representing YP_459936
Red=Cloning sites Green=Tags

```
MSGIVKMSPTSKEPCIVSVTYGSMTLNLGLWDDKVYCPRHVICSSSNMNEPDYSALLCRVTLGDFTIM
SGRMSLTVVSYQMQGCQLVLTVSLQNPYTPKYTFGNVKGPEFTVLAAYNGRPQGAHVHVMRSSYTIKGS
FLCGSCGSGVGYLTDGDSVKFVYMHQLELSTGCHTGTDFGNFYGPYRDAQVQVQLPVKDYVQTVNVIWLY
AAILNCAWFVQNDVCSSTEDFNVMAMANGFSQVKADLVLDALASMTGVS IETLLAAIKRL YMGFQGRQIL
GSCTFEDELAPSDVYQQLAGVKLQ
```

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_006577

ORF Size: 912 bp

OTI Disclaimer: 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_006577.2](#), [YP_459936](#)
RefSeq ORF: 912 bp
MW: 33.3 kDa