

Product datasheet for **VC100578**

HCoV-HKU1 nsp2 Gene Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCoV-HKU1 nsp2 Gene Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nsp2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>The Viral ORF clone VC100578 represents NCBI reference of YP_459934 with codon optimized for human cell expression
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATTA AACCCGTCCTGTTTGTGGATCAGTATGGGTGCGATTATAGCGGTAAGCTCGCCGATTGTCTTC
 AAGCCTACGGACACTATAGCTTGACAGGACATGCCCCAGAAGCAGTCAGTGTGGCTGGCAAACCTGTGATTT
 CGATATTGTGGTGGCATGGCACGTGGTGAAGGATTCTCGCTTCGTTATGAGGCTTCAGACAATTGCCACC
 ATCTGCGGTATAAAATACGTGGCCAGCCACCGAAGATGTAGTCGATGGCGATGTGGTATCCGCGAGC
 CAGTCCATCTCCTCTCCGCCGATGCTATAGTCTGAAGCTGCCAGCCTTATGAAGGTCATGACCCACAT
 GGTGACTTCTCAATTAATCCATCTACAACGTAGACCTCTGCGACTGCGGCTTCGTGATGCAGTATGGT
 TACGTGGACTGCTTAAATGACAACGCGATTTTTACGGTTGGGTATCCGGCAACATGATGGACGGATTCA
 GCTGTCCCTCTGTTGTACTGTTTACGATTCATCAGAGGTGAAGGCCAGTCATCTGGCGTCATCCCTGA
 AAACCCTGACTTTTTACCAACAGTACAGACACCGTGAATCATGACTCTTCAACCTGTACGGCTACAGC
 GTCACACCATTTGGTTCATGCATTTACTGGAGCCCAAGACCCGGACTTTGGATCCCCATCATCAAATCCT
 CCGTAAATCCTACGACGACCTGGTTTATTCGGCGTGGTCCGGCTGTAAGTCTATCGTGAAGGAAACCGC
 CCTGATAACACACGCACTGTATCTCGATTATGTACAGTGAAGTGTGGCAACCTGGAAACAAAACACATC
 CTGGGCGTTAACAAATAGCTGGTGTGCCAGCTGCTTCTGAACCGCGGAGATTATAACATGCTGTTGAAGA
 ATATAGATCTCTCGTGAAGAGACGGCCGACTTCGCCTGAAGTTCGCTGTTTGTGGAGATGGGTTGCT
 TCCCTTCTGCTCGATGGTTTGATACCCGATCTTACTACCTGATACAAAGTGAATCTTCTTCACTTCT
 CTGATGAGTCAGTTCAGCCAGGAAGTGTCCGACATGTGCCTCAAGATGTGATTCTTTCATGGATAGAG
 TGTCCGTTGCCAGCTTCTACATCGAACATTATGTGAACCGACTCGTGACCAATTCGAAGCTGCTGGGCAC
 CACACTGGTGAATAAGATGGTGAAGTCAACACGATGCTGGACGCGAGCGCTCCTGCTACTGGCTGG
 CTCCTTTACCAACTGCTTAATGGACTGTTTGTGGTGAAGCCAGGCTAACTCAATTTTGTGGCCCTTATCC
 CCGACTACGCAAAGATTCTGGTTAACAAAGTCTACACATCTTCAAACCTCCTCTGGAGTGGCTGACTGT
 AGACGTGTTGAAGGACATGCCAGTCTGAAAACAATCAATGGCCTGGTGTGATCGTGGGTAACAAATTC
 TACAACGTGTCTACCGACTCATCCCGGCTTCGTGTTGCCCTGAACGCTCAGGAGCAGCAGATCTATT
 TTTTCGAGGGGTGGCAGAAAGTGTGATCGTGGAGGATGACGTGATAGAAAATGTTAAAAGCTCACTGTC
 TTCTTACGAATACTGCCAGCCACCAAGTCCGTCGAAAAAATTTGTATCATCGACAATATGTATATGGGA
 AAGTGGCGGATAAATCTTTCCGATCGTCATGAACGATAAGAACATCTGCTTGTGGATCAGGCCTGGC
 GTTCCCATGCGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC100578 representing YP_459934
 Red=Cloning sites Green=Tags

MIKPVLVFDQYGCDSYGLADCLQAYGHYSLQDMRQKQSVWLANCDFDIVVAWHVVRDSRFVMLQTIAT
 ICGIKYVAQPTEDVVDGDVVIREPVHLLSADAIVLKLPMLKVMTHMDDFSIKSIYNVDLDCDGFVMQYG
 YVDCFNDNCFYGWVSGNMMDGFSCPLCCTVYDSSEVKAQSSGVIPENPVLFNTSDTVNHDSFNLYGYS
 VTPFGSCIYWSPRPGLWIPIIKSSVKSYDDLVSYGVVGGCKSIVKETALITHALYLDYVQCKCGNLEQNH
 LGVNNWCRQLLLNRGDYNMLLKNIDL FVKRRADFACKFAVCGDGFVPFLDGLIPRSYYLIQSGIFFTS
 LMSQFSQEVSDMCLKMCLFMDRVSVATFYIEHYVNRVLTQFKLLGTTLVNKMVNWFNMLDASAPATGW
 LLYQLLNLFFVVSQANFNVALIPDYAKILVNKFYTFKLLLECVTVDLKDMPLVKTINGLVCI VGNKF
 YNVSTGLIPGFVLPNAQEQQIYFFEGVAESVIVEDDVIENVKSSLSSEYECPPPKSVEKICIIDNMYMG
 KCGDKFFPIVMNDKNICLLDQAWRFPCA

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NC_006577

ORF Size: 1764 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_459934](#)

RefSeq ORF: 1764 bp

MW: 66.5 kDa