

Product datasheet for **VC101721**

env (NC_001802) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	env (NC_001802) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	env
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>The Viral ORF clone VC101721 represents NCBI reference of NP_057856 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGGGTTAAGGAAAAATATCAGCACCTCTGGAGGTGGGGATGGAGATGGGGCACTATGCTTCTCGGGA
TGCTCATGATTTGCAGCGCAACCGAAAAAGCTGTGGGTGACGGTATACTACGGCGTTCCAGTCTGGAAAGA
GGCAACTACAACCCTTTTTGCGCTTCCGACGCCAAGGCATATGACACTGAAGTCCATAACGTGTGGGCA
ACCCACGCTGTGTCCCAACGGATCCAAATCCCCAGGAAGTTGTATTGGTTAATGTGACTGAGAACCTTA
ACATGTGGAAAAACGACATGGTGAACAAATGCATGAAGATATTATTCCTGTGGGATCAATCTCTGAA
ACCTTGCCTCAAGCTGACACCTCTGTGTCTCACTTAAATGTACCGATCTGAAGAACGACACTAACCT
AATTTCTTAGCGGTAGAATGATCATGGAAAAGGGCGAGATCAAGAACTGCTCCTTAATATTAGTACCA
GTATTCGGGGTAAGGTCCAAAAGGAGTACGCTTTCTTTACAAGCTCGATATTATCCCATGATAACGA
TACCACAGTTATAAACTGACTTCTTGTAAACAGAGCGTGATCACTCAGGCTTGTCCCAAGTTAGCTTC
GAGCCAATTCCTTCACTACTGCGCCCTGCTGGTTTCGCCATCCTGAAGTGAATAATAAAACATTTA
ACGGAACCGGTCCGTGCACCAACGTGTCAACCGTCCAGTGTACGCATGGCATCCGACCTGTGGTTTCAAC
TCAATTGTTGCTGAACGGCTCCTTGCCGAGGAGGAGGTAGTCATCAGAAGCGTGAACCTCACCGATAAT
GCCAAGACAATTATAGTCAGCTGAATACAAGTGTGAGATCAATTGTACCAGACCAAACAATAACCC
GCAAACGCATCCGCATCCAGAGAGGTCTGGCCGGGCAATTTGTGACGATCGGAAAGATCGGAAATATGCG
ACAAGCCCACTGCAACATCTCCCGCGCAATGGAACAACACTCTCAAACAGATTGCCTCCAAATCCGA
GAGCAATTCGGGAACAACAAGACAATTATTTCAAACAGAGTTCTGGCGCGATCCAGAAATAGTGACTC
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AAACAAATAATAAATATGTGGCAGAAGGTCCGTAAAGCAATGTATGCTCCGCCTATCTCTGGCCAAATTA
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CTTCAGACCCGGGGCGGGGACATGCGGGACAACCTGGCGGAGCGAGCTCTATAAATAAAGTGGTGAAG
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GAATAGGCGCCCTGTTTCTGGTTCTCGGGCCGCGGCTCAACTATGGGTGCCGCATCCATGACACT
CACCGTGCAGGCACGCCAATTGCTGTGAGGATCGTTCAGCAGCAGAATAACCTCCTGCGCGCATAGAG
GCTCAGCAGCATCTGCTGACGCTGACCGTATGGGGCATCAAGCAGTTGCAGGCCCGCATCTTGGCGTTG
AGCGGTACCTTAAAGATCAGCAGCTGCTCGGGATCTGGGGATGCAGTGGGAAGTTGATCTGTACAACAGC
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TTGGCTGTGGTATATAAAGCTGTTATCATGATGTTGGGGGGCTTGGTGGGTTGCGGATCGTTTTCGCA
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AGTACTGGTGAATTTGCTGCACTACTGGTCAACAAGAGCTGAAAAATAGCGCCGTTTCTCTTCTGAATGC
AACTGCCATTGCAAGTGGCCGAGGGCACCGATAGGGTTATCGAAGTGGTTCAGGGCGCCTGTAGGGCTATC
CGACATATTCGCGCCGCATCCGCCAGGGGCTGGAGCGCATCTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC101721 representing NP_057856
Red=Cloning sites Green=Tags

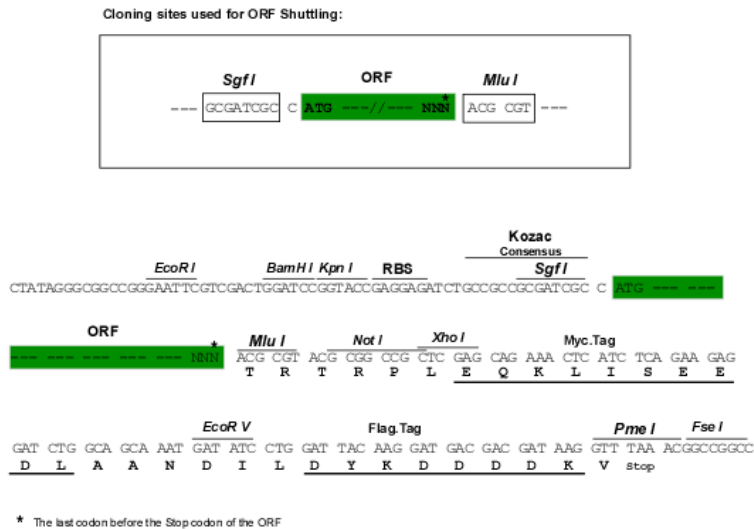
MRVKEKYQHLWRWGWGWGTMLLGLMICSATEKLWVTVYVYGVVWKEATTLFCASDAKAYDTEVHNVWA
THACVPTDNPQEVVLVNVTENFMWKNMVEQMHEDIISLWDQSLKPCVKLTPLCVSLKCTDLKNDTNT
NSSSGRMIMEKGEIKNCSFNISTSIRGKVQKEYAFFYKLDIIPIDNDTTSYKLTSCNTSVITQACPVSF
EPIPIHYCAPAGFAILKCNKTFNGTGPTNVSTVQCTHGIRPVVSTQLLLNGSLAEVVEVIRSVNFTDN
AKTIIVQLNTSVEINCTRPNNTRKRIRIQRGPGRAFVTIGKIGNMRQAHCNISRAKWNNTLKQIASKLR
EQFGNNKTIIFKQSSGGDPEIVTHSFNCGGEFFYCNSTQLFNSTWFNSTWSTEGSNTEGSDTITLPCRI
KQIINMWQKVGKAMYAPPISGQIRCSSNITGLLLTRDGGNSNNESEIFRPGGDMRDNRSELYKYKVVK
IEPLGVAPTKAKRRVVQREKRAVGIGALFLGFLGAAGSTMGAASMTLTVQARQLLSGIVQQNNLLRAIE
AQQHLLQLTVWGIKQLQARILAVERYLKDQQLLGIWGC SGKLICTTAVPWNASWSNKSLEQIWNHTTWME
WDREINNYTSLIHSLIEESQNQEQEKNEQELLELDKWASLWNWFNITNWLWYIKLFIMIVGGLVGLRIVFA
VLSIVNVRVQGYSPFSFQTHLPTPRGPDREPIEEEGERDRDRSIRLVNGSLALIWDDLRSCLFSYHR
LRDLLLLIVTRIVELLGRRGWEALKYWWNLLQYWSQELKNSAVSLLNATAIAVAEGTDRVIEVVQACRAI
RHIPRRIRQGLERILL

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001802

ORF Size: 2568 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_001802.1](#), [NP_057856](#)
RefSeq ORF: 2568 bp
Locus ID: 155971
UniProt ID: [P04585](#)
MW: 97.2 kDa