

Product datasheet for VC102217

E2 protein (NC_004102) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2 protein (NC_004102) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2 protein
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC102217 represents NCBI reference of NP_751921 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACCCATGTTACAGGGGGCAGCGCAGGCAGGACCACAGCTGGCCTCGTAGGGCTCCTGACCCCTG
GTGCCAAGCAGAACATTCAGCTTATTAACACAAATGGCTCCTGGCATATAAACTCTACAGCACTGAATTG
CAATGAGAGTCTTAATACGGGCTGGCTGGCAGGCCTCTTTACCAACACAAGTTAACTCTCCGGATGT
CCTGAAAGGTTGGCCAGCTGTCGCCGACTCACCAGCTTTGCCAGGGTTGGGGTCTATCTTTACGCCA
ACGGGTCTGGACTCGATGAGCGCCCTACTGCTGGCATTACCCGCCACGACCCTGCGGCATTGTGCCGGC
AAAAAGTGTGGCGTCCCGTGTATTGCTTTACTCCATCCCCGTGGTCGTCGGCACTACCGATCGGAGT
GGCGCCCCTACATACTCATGGGGGGCTAACGACACCGACGTTTTTGTATTGAACAATACCAGGCCCCCTT
TGGGCACTGGTTTGGGTGACTTGGATGAATTCTACAGGCTTACGAAAGTGTGCGGAGCACCACCTTG
CGTCATCGGGGTGTGGTAATAACTCTGCTGTGCCAACAGACTGTTCCGGAAACACCCTGAGGCT
ACGTATAGTAGGTGCGGCTCCGGCCCTGGATAACACCTCGTGCATGGTTGACTACCCCTATCGCCTTT
GGCACTACCCATGTACAATCAACTATAACATTTTAAGGTACGAATGTACGTGCGGCGCTTGAACCCG
GCTGGAGCGGCATGTAAGTGGACTAGGGGCGAACGCTGCGACCTGGAAGACAGAGACCCTCCGAAGT
TCTCCCTGCTGCTGTCTACAACACAATGGCAAGTCTTGCCCTGCTCATTACTACCCCTGCCCGCACTGT
CCACTGGGCTGATTACCTGCACCAGAACATTGTGGATGTTCACTGTTGATGGCGTGGCTCCTCTAT
TGCCAGTTGGGCTATTAAGTGGGAATATGTAGTCTCTGTTCTTGTCTCCTCGCAGACGCCCGAGTGTGC
TCATGCCTGTGGATGATGCTGCTGATCTCCAAGCCGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >VC102217 representing NP_751921
Red=Cloning sites Green=Tags

METHVTGGSAGRRTAGLVGLLTPGAKQNIQLINTNGSWHINSTALNCNESLNTGWLAGLFYQHKFNSSGC
 PERLASCRRLTDFAQGWGPISYANGSGLDERPYCWHPYPPRPGI VPAKSVCGPVYCF TSPV VVGT DRS
 GAPTYSWGANDTDVFLNTRPPLGNWFGCTWMNSTGFTKVCGAPPCVIGGVGNNTLLCPTDCFRKHPEA
 TYSRCGSGPWITPRCMVDYPYRLWHYPCTINYTI FKV RMYVGGVEHRLEAACNWTRGERCDLEDRRSEL
 SPLLLSTTQWQVLP CSFTTLPALSTGLIHLHQNIYDVQYLYGVGSSIASWAIKWEYV VLLFLLLADARVC
 SCLWMMLLISQAEA

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8100_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NC_004102

ORF Size: 1092 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_004102.1](#), [NP_751921](#)

RefSeq ORF: 1092 bp

MW: 40.2 kDa