

Product datasheet for **VC101981**

E2 (NC_001693) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	E2 (NC_001693) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC101981 represents NCBI reference of NP_043440 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCAGGCCGATCTGACTGAAAGAAGCGATGCCCTGCAGGAACAGATCTTGAACCTGTACGAGCAAG
ATAGCAAGGACATCCAGGCTCAGATTAGTGGGATTTGAATAGGAAATTGTATGTGACTTATTATTA
TGCACGGAAGGAGGGCTATTCTCACCTGGGTCTCCAGCCTTTGCCAGACTCCAAGTATCTGAGTACAAG
GCGAAGCAAGCGATCGAAATGGGGCTGCTGCTCACCTCTTTGTCCAAGTCCAGTATGCCCTCCGAACCTT
GGGGCCTGACAGACACAAGTGCCGAACTCCTCCTTACCCCCCGGAACACATTTAAAAAGAAGGGGTA
TACTGTGAACGTGTGGTTTGATAATAACGAAAATAATACCTTTCCATATACAAACTGGGAGTATATCTAC
TATCAGGACGATATTGAACAATGGCACAGAACGCGCGGCGAAGTTGATTATAACGGGCTTTACTTTACCG
AGAACAACGAAACCGGGCTTACTTTCTTGTTCGACAGTGACGCCAGACTACAGCCAGACTGGCAC
ATGGACAGTTCATTACAAAAACCAGATAATCTCAGCTCCTGTTACGAGCAGCAGCAAACAGTCTCCGAC
GACTATACATCCAAGCCGGTCAAGCAGCTCATTTTTTTGCTCCTCATCAAGCCCTACAACCACAGATG
GGGGCAAACCTCTCAAGAGGTGTGAGCTCCAGTACTACCAGCCCTCCGCGGTGAGTCCGCGAGAAG
GCGGAGTAAATGAGCAGCAGCGAGAGTTGAGTCCCGGGAATCACCTCGAACTAAACGGCGCAGGGTGCC
GACGAGGTAGACAGACAGAGTGTGTAGGATCTGCCCCACCGCGAAGAAGTGGGGAGCCGCCATCGCA
GCCTGCCACGGAGCGGAATAAGCAGACTCGCTCGCCTCCAGGGCGAAGCAGCGATCCGCGGATCCTTCT
TATTAAGGACTGGCCAACTCCCTGAAGTGTGGCGCTACCGCCTTAAGAAATACACACGGTACTTTAAA
TGCATGAGCACAGTTTTTCAGATGGGTCGACATTGATGTGCCCGAGTCATCCCGCCATAAACTGCTCGTGC
TGTTCAATGACACAACCCAGCGGACGTGTTTCATGAACTGGTGACACTGCCCGGGGTGCACGTATAC
ATTTGGCACTCTGAACAGCCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >VC101981 representing NP_043440
Red=Cloning sites Green=Tags

MNQADLTERSDALQEILNLYEQDSKDIQAQIQYWDLNRKLYVTYYYARKEGYSHLGLQPLPALQVSEYK
 AKQAIEMGLLLTSLSKSQYASELWGLTDTSAELLLTPRNTFKKKGYTVNVWFDDNNENNTFPYTNWEYIY
 YQDDIEQWHRTRGEVDYNGLYFTENNGNRAYFLLFDSDAQTYSTGTWTVHYKNQIISAPVTSSSKQSSD
 DYTSTKAGQQPHFFASSSSPTTTDGGQTSQEGVSSSTTSPSAVRLRRRRSNEQQRELSSRESPTKRVRVP
 DEVDRQSAVGSAPTAEVGSRRHSLPRSGISRRLARLQGEARDPPILLIKGLANSLKCWRYLKKYTRYFK
 CMSTVFRWVDIDVPESSRHKLLVVFNDTTQRDVFMKLVTLPRGCTYTFGLNSL

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001693

ORF Size: 1212 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_001693.1](#), [NP_043440](#)

RefSeq ORF: 1212 bp

Locus ID: 1403641

MW: 46.5 kDa