

## Product datasheet for VC102024

### E2 (NC\_004104) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	E2 (NC_004104) 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 VC102024 represents NCBI reference of NP_671506 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACGCTGGCTAGCCGACTGAACGCATGTCGCGAAAAGCTCCTCGAGCTCTATGAACTGATTCAG  
ACCACTGTCAGGACCAGATTATGCATTGGGGCCTGGTGGAGACTGGAGAATGTGATTATGTATAAGGCTCG  
GGAGCCGGTATGTTGCATCTCAACCACCAAGTAGTACCCGTGCAGCTGATCGAAAAGCGAAAGCCTGC  
AAGGCCATTGAAATGCAGCTCGCCCTGAAGACCTTGCTTAAGTCACCTTACGGCACAGAACCCTGGACTC  
TCCGGGACACATCCCAGGAGATGTGGGACGCCGCACCGAAGCAATGCTGGAAGAAGAAGGGATACACAGT  
CGACGTCAAATTCGACGGTGAAGATACCAAGACCATGTGTTACACTTGCTGGAGATATATACGTCAG  
TCTGGCGACGATGACACTTGGACTAAAGTGTCCGGGCACGTGCATCATGCGGGCCTGATTTCACTCACG  
AGGGCACCCGGTACATACGTGCGATTTGCCAGGAGGCTCAGACTTACGGCAATACTGGTACGTGGGA  
GGTGCACGTAGGCGCCAGCTTATTTACGATGCCTTTGATTCATCTGTATCCTCTACTCAGGACACAGAT  
CAGGAACCATTGAGTAGCACCCGCCACAGATCCTCTACACAGACGAGCCAGATGCCACAAACCCCG  
CGCAAGTGCTTGGCCTGCTAGTCCCATGTTCCGCCACCCACAAGCGGCAAAGACTGGCCACGGCTA  
CCAACATCCCATAGCACTGAAGACAGGATCAAAGGCTGGCAAGGACAATACCGGTGACCAATGCAAT  
CCGGACTCAGCCAAGCAGCACGGGAATATCAGGGTCGGAGACAGTGTCCAGTGACCCACCTGCGGGGCG  
ATCCAAACAAATTGAAGTGCCTCAGGTATCGCCTGCATAAACACAAGTCAGTGTCTTCAAAGTTCAC  
TAGCACATGGCGCTGGAGCACCTGCTCCAATACCACTAATGAGAAGTCAGCCTTTGTGACATTGTGGCAC  
GACTCTGCCGAGCAAAGAGCTACATTCTCTCAACCATCACTTTGCCTAAGGATATCGAAGCTGTGCTCG  
GATACATGACAATGCTGGCG

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAAGGTTTAA



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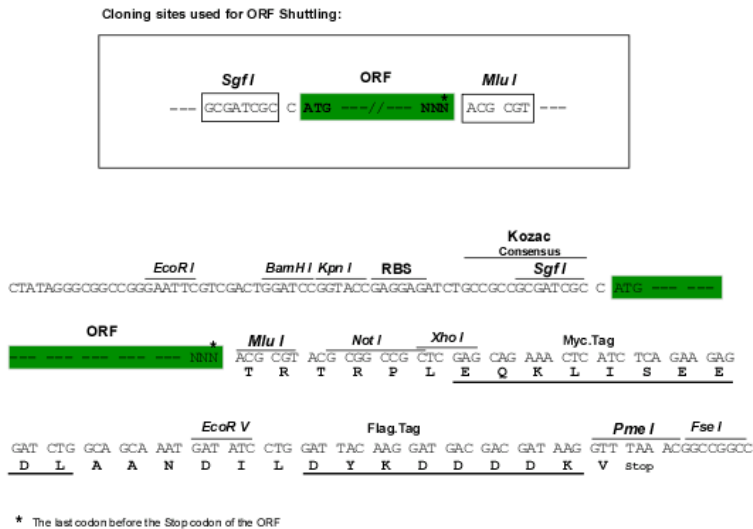
**Protein Sequence:** >VC102024 representing NP\_671506  
Red=Cloning sites Green=Tags

METLASRLNACREKLELLEYETDSDQLQDQIMHWGLVRLNENVIMYKAREAGMLHLNHQVVPVQLIAKAKAC  
 KAIEMQLALKTLKSPYGTPEWTLRDTSQEMWDAAPKQCWKKKGYVDVKFDGEDTKTMCYTCWRYIYVQ  
 SGDDDTWTKVSGHVDHAGLYFTHGTRVTYVRF AQEAQTYGNTGTWEVHVGGLIYDAFDSSVSSTQDQD  
 QEPLSSTRPTDPPYTDEPDATNPAQVLGPASPHVPPPHKRQRLGHGYQHPDSTEDRIQRLARDNTGDQCN  
 PDSAKQHGNIRVGSAPVTHLRGDPNKLKCLRYRLHKHKSVLFSKVTSTWRWSTCSNTTNEKSAFVTLWH  
 DSAEQRATFLSTITLPKDIEAVLGYMTMLA

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NC\_004104

**ORF Size:** 1140 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\\_004104.1](#), [NP\\_671506](#)

**RefSeq ORF:** 1140 bp

**Locus ID:** 951488

**MW:** 43.1 kDa