

## Product datasheet for **VC100270**

### **E2A (NC\_001460) Virus Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	E2A (NC_001460) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	E2A
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 VC100270 represents NCBI reference of NP\_040926 with codon optimized for human cell expression

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

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGGATCGCC**

ATGGCCAGTAACCAACATTCTCAGCGCAGAGAACACCCGATAGAAGCGCGCAGCCCCACCTCCAAAA  
TGGGGAGGTATTTTCTTGACTCTGAGTCCGAAGAGGAACTGGAAGCCGTTCCACTGCCTCAAAAAAAAA  
AGTCAAAAAAGTATGGCCGCCATACCTCTGAGCCAGAAAGCGCTGAAGAGGAAGAGGCCGAACCCCC  
AGGGCCGTCTTGGGGTATGGGCTTCTATGCCTCCTGTCCGGATCATGCACCATGCCGACGGCAGTC  
AATCCTCCAGAAGATGGAACAAGACAAGTTCATGTGCTGAAAGCTCCGCCAGAATTCTGACGAGAA  
TGAAAAAATGTGGTCTGTGAGGAACCCAGCCAGTCAGCCCCTGGTTCCGCTTGGGAGAAAGGAATG  
GAAGCAATGGCAATGCTGATGGAGAAATACACGTGGACCATGATGAGAGAGCAACATTTTCGTTTCTTC  
CTGACCAGGGTCCGTCTATAAAAAATCTGCACAACCTGGCTGAATGAGAAAAAAGAGGTCTCCAGCT  
CACATTCTAGTCAAAAGACTTTTCAGGAACTCATGGGACGGTCTGCAAGGCTACATGCAGGGGTAC  
GCTGGTGTGCAACAGAACAGCTGGGAACCCACCGGTGTTGCGTATGGGAACACAAGTGTACTGAGAGGG  
AGGGTGAACCTCCGATGCTTGCATGGTATGGAGATGGTAAGGAAGGAACATCTTGTGAGATGGACGTTAC  
TTCCGAAAGTGGACAACGCGCCCTTAAAGAGAACCCTTCAAAGCTAAAGTGGCCAAAAACAGATGGGGC  
CGAAACGTGGTCAAATAAAGAACGACGACGCTCGGTGTTGTTTCCATGATGTGGGGTGGCGCAATAACA  
GTTTTTCTGGCAAGAGCTGCGGACTCTTTACTCCGAGGGGATGAAAGCACAGATCGCCTTTAGACAGAT  
CGAGGCCCTCATGCTGGCCGACTATCCACATATGAGGCACGGCCAAAAGCGCCTTCTGATGCCCGTACGG  
TGCGAGTGTCTGAACAAAACAGGATGGACTGCCTAGAATGGGGCGCCAGTTGTGCAAAATCACCCCTTTA  
ACCTCTCTAACGTAGACAATATAGACATTAACGAAGTTACCGATCCCGGAGCTCTGGCATCCATCAATA  
TCCGTGCTGTTGGTCTTCCAGTGCACAAATCCAGTGTACCGAATGCACGGGAAACGCAGGTCCAAC  
TGTGATTTCAAAATAAGTCCCTGATGTGATGGGAGCACTGCAGCTGGTTCGACAGCTCTGGGGTAAAA  
ATTTTGACGGATCTCCCCGCGGCTTGTGATCCCGAGTTTAAATGGCACCAGCGGCTTCAGTACAGAAA  
TATCAGTCTCCCCACCAATCATGGGACTGTGGGAGGAGCCTTTCGACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>VC100270 representing NP\_040926

Red=Cloning sites Green=Tags

MASNQHSQRERTPDRSAQPPPKMGRYFLDSESEEELEAVPLPPKKKVKKSMAA.IPLSPESAEEEEAEPP  
RAVLGVMGFSMPVVRIMHHADGSQSFQKMETRQVHVLKASQNSDENENVVVVRNPASQPLVSAWEKGM  
EAMAMLMEKYHVDHDERATFRFLPDQGSVYKICTTWLNEEKRLQLTFSSQKTFQELMGRFLQGYMQAY  
AGVQQNSWEPTGCCVWEHKCTEREGELRCLHGMEMVRKEHLVEMDVTSESGQRALKENPSKAKVAQNRWG  
RNVVQIKNDDARCCFHDVCGNNSFSKSCGLFYSEGMAQIAFRQIEAFMLADYPHMRHGQKRLMPVR  
CECLNKQDGLPRMGRQLCKITPFNL SNVDNIDINEVTPGALASIKYPCLLVFQCANPVYRNARGNAGPN  
CDFKISAPDVMGALQLVRQLWGENFDGSPRLVIEPFKWHQRLQYRNISLPTNHGDCCREPFDF

**TR**TRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NC\_001460

**ORF Size:** 1452 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\\_001460.1](#), [NP\\_040926](#)
**RefSeq ORF:** 1452 bp

**Locus ID:** 1460850

**MW:** 55.0 kDa