

## Product datasheet for SC118904

### EEF2 (NM\_001961) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EEF2 (NM\_001961) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** EEF2  
**Synonyms:** EEF-2; EF-2; EF2; SCA26  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**Cell Selection:** None  
**Fully Sequenced ORF:** >OriGene sequence for NM\_001961 edited

```
CGCTTCTTTCGGTTCTACCTGGGAGAATCCACCGCCATCCGCCACCATGGTGAACCTCAC
GGTAGACCAGATCCGCGCCATCATGGACAAGAAGGCCAACATCCGCAACATGTCTGTCAT
CGCCCACGTGGACCATGGCAAGTCCACGCTGACAGACTCCCTGGTGTGCAAGCGGGCAT
CATCGCCTCGGCCCGGGCCGGGAGACACGCTTCACTGATACCCGGAAGGACGAGCAGGA
GCGTTGCATCACCATCAAGTCAACTGCCATCTCCCTCTTCTACGAGCTCTCGGAGAATGA
CTTGAACCTCATCAAGCAGAGCAAGGACGGTGCCGGCTTCTCATCAACCTCATTGACTC
CCCCGGGCATGTCGACTTCTCCTCGGAGGTGACTGCTGCCCTCCGAGTACCGATGGCGC
ATTGGTGGTGGTGGACTGCGTGTGAGGCGTGTGCGTGCAGACGGAGACAGTGTGCGGCA
GGCCATTGCCGAGCGCATCAAGCCTGTGCTGATGATGAACAAGATGGACCGGCCCTGT
GGAGCTGCAGCTGGAGCCGAGGAGCTCTACCAGACTTTCAGCGCATCGTGGAGAACGT
GAACGTATCATCTCCACCTACGGCGAGGGCGAGAGCGGCCCCATGGGCAACATCATGAT
CGATCCTGTCTCGGTACCGTGGGCTTTGGGTCTGGCCTCCACGGGTGGGCTTACCCT
GAAGCAGTTTGGCGAGATGTATGTGGCCAAGTTCGCCGCAAGGGGGAGGGCCAGTTGG
GCCTGCCGAGCGGGCCAAGAAAGTAGAGGACATGATGAAGAAGCTGTGGGTGACAGGTA
CTTTGACCCAGCCAACGGCAAGTTCAGCAAGTCAGCCACCAGCCCCGAAGGGAAGAAGCT
GCCACGCACCTTCTGCCAGCTGATCCTGGACCCATCTTCAAGGTGTTGATGCGATCAT
GAATTTCAAGAAAGAGGAGACAGCAAAACTGATAGAGAAACTGGACATCAAAGTGGACAG
CGAGGACAAGGACAAGAAAGGCAAAACCCCTGCTGAAGGCTGTGATGCGCCGCTGGCTGCC
TGCCGGAGACGCCTTGTGTCAGATGATCACCATCCACCTGCCCTCCCCTGTGACGGCCCA
GAAGTACCGCTGCGAGCTCCTGTACGAGGGGCCCGGACGACGAGGCTGCCATGGGCAT
TAAAGCTGTGACCCCAAAGGCCCTTTATGATGTATATTTCCAAAATGGTGCCAACTC
CGACAAAGGTCGGTTCTACGCCCTTTGGACGAGTCTTCTCGGGGCTGGTCTCCACTGGCCT
GAAGGTCAGGATCATGGGGCCCAACTATACCCCTGGGAAGAAGGAGGACCTTACCTGAA
GCCAATCCAGAGAACAATCTTGATGATGGGCCGCTACGTGGAGCCCATCGAGGATGTGCC
TTGTGGGAACATTGTGGGCCTCGTGGGCGTGGACCAAGTTCCTGGTGAAGACGGGCACCAT
CACCACCTTCGAGCACGCGCACAACATGCGGGTGTGAAGTTCAGCGTACGCCCTGTTGT
CAGAGTGGCCGTGGAGGCCAAGAACCCGGCTGACCTGCCCAAGCTGGTGGAGGGGCTGAA
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GCGGCTGGCCAAGTCCGACCCCATGGTGCAGTGCATCATCGAGGAGTCGGGAGAGCATAT
CATCGCGGGCGCCGGCGAGCTGCACCTGGAGATCTGCCTGAAGGACCTGGAGGAGACCA
CGCCTGCATCCCCATCAAGAAATCTGACCCGGTCTCGTACCGCGAGACGGTCAAGTGA
AGAGTCGAACGTGCTCTGCCTCTCAAGTCCCCCAACAAGCACAACCGGCTGTACATGAA
GGCGGGCCCTTCCCCGACGGCTGGCCGAGGACATCGATAAAGGCGAGGTGTCCGCCCG
TCAGGAGCTCAAGCAGCGGGCGGCTACCTGGCCGAGAAGTACGAGTGGGACGTGGCTGA
GGCCCCGAAGATCTGGTCTTTGGGCCCGACGGCACCGGCCCAACATCCTCACCGACAT
CACCAAGGGTGTGCAGTACCTCAACGAGATCAAGGACAGTGTGGTGGCCGGCTTCCAGTG
GGCCACCAAGGAGGGCGCACTGTGTGAGGAGAACATGCGGGGTGTGCGCTTCGACGTCCA
CGACGTACCCTGCACGCCGACGCCATCCACCGCGGAGGGGGCCAGATCATCCCCACAGC
ACGGCGCTGCCTCTATGCCAGTGTGCTGACCGCCAGCCACGCCTCATGGAGCCCATCTA
CCTTGTGGAGATCCAGTGTCCAGAGCAGGTGGTCGGTGGCATCTACGGGGTTTTGAACAG
GAAGCGGGGCCACGTGTTGAGGAGTCCCAGGTGGCCGGCACCCCATGTTTGTGGTCAA
GGCCTATCTGCCGTCAACGAGTCTTTGGCTTACCCTGACCTGAGGTCCAACACGGG
CGCCAGGCGTTCCCCAGTGTGTGTTGACCACTGGCAGATCCTGCCCGGAGACCCCTT
CGACAACAGCAGCTGCCCCAGCCAGGTGGTGGCCGAGACCCGCAAGCGCAAGGGCCTGAA
AGAAGGCATCCCTGCCCTGGACAACCTTCCCTGGACAAATTGTAGGCGGCCCTTCTGCAGC
GCCTGCCGCCCGGGGACTCGCAGCACCCACAGCACCCAGTCTCGAATTCTCAGACGAC
ACCTGGAGACTGTCCCGACACAGCGACGCTCCCTGAGAGGTTTCTGGGGCCCGCTGCCT
GCCATCACTCAACCATAACACTTGTATGCCGTTTCTTTCAATATTTATTTCCAGAGTCCGG
AGGCAGCAGACACGCCCTTTAGTAGGGACTTAATGGGCCGGTCGGGGAGGGGGAGGGCGG
GATGGGACACCAACACTTTTTCATTTCTTTCAGAGGGAACTCAGATGTCCAACTAAT
TTTAACAAACGCATTAAGAGGTTTATTTGGGTACATGGCCCGCAGTGGCTTTTGGCCCG
AAAGGGGAAAGGAACACGCGGGTAGATGATTTCTAGCAGGCAGGAAGTCTGTGCGGTGT
CACCATGAGCACCTCCAGCTGTACTAGTCCATTGGAATAATAAATTTGATAAGGTGGT
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_001961

**Insert Size:**

3200 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:**

The ORF of this clone has been fully sequenced and found to contain one SNP compared with NM\_001961.2.

**RefSeq:**

[NM\\_001961.2](#), [NP\\_001952.1](#)

**RefSeq Size:**

3148 bp

RefSeq ORF: 2577 bp

Locus ID: 1938

UniProt ID: [P13639](#), [A0A384N6H1](#)

Domains: EFG\_C, GTP\_EFTU, GTP\_EFTU\_D2, EFG\_IV

**Gene Summary:** This gene encodes a member of the GTP-binding translation elongation factor family. This protein is an essential factor for protein synthesis. It promotes the GTP-dependent translocation of the nascent protein chain from the A-site to the P-site of the ribosome. This protein is completely inactivated by EF-2 kinase phosphorylation. [provided by RefSeq, Jul 2008]