

Product datasheet for **SC117477**

EEF1E1 (NM_004280) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EEF1E1 (NM_004280) Human Untagged Clone
Tag:	Tag Free
Symbol:	EEF1E1
Synonyms:	AIMP3; P18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_004280 edited <pre> ATGGCGGCGGCCGAGAGTTGTCGCTACTGGAGAAGTCCCTGGGACTGAGTAAGGGGAAT AAATACAGTGCTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAATGGTCCAAGT CTAACAGGATTGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAAGAATATTTG CTGGGGAGTACTGCAGAAGAAAAAGCAATCGTTCAGCAGTGTTAGAATACAGGGTCACT CAAGTAGATGGGCACTCCAGTAAAAATGACATCCACACACTGTTGAAGGATCTTAATTCA TATCTTGAAGATAAAGTCTACCTTACAGGGTATAACTTTACATTAGCAGATATACTATTG TACTATGGACTTCATCGCTTTATAGTTGACCTGACAGTTCAAGAAAAGGAGAAATATCTT AATGTGTCTCGCTGGTTTTGTCACATTCAGCATTATCCAGGCATCAGGCAACATCTGTCT AGTGTGTCTTCATCAAGAACAGACTATATACTAATTCCCACTAG </pre>


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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004280 unedited
 GGTCAAATTTGTATACGACTCACTATAGCGCGCCGCAATTTCGCACGAGGATGGCGGCGG
 CCGCAGAGTTGTCTGCTACTGGAGAAGTCCCTGGGACTGAGTAAGGGGAATAAATACAGTG
 CTCAGGGCGAGCGACAGATTCCAGTTCTTCAGACAAACAATGGTCCAAGTCTAACAGGAT
 TGACTACTATAGCAGCTCATCTAGTCAAGCAAGCCAACAAGAATATTTGCTGGGGAGTA
 CTGCAGAAGAAAAAGCAATCGTTCAGCAGTGGTTAGAATACAGGGTCACTCAAGTAGATG
 GGCACTCCAGTAAAAATGACATCCACACACTGTTGAAGGATCTTAATTCATATCTTGAAG
 ATAAAGTCTACCTTACAGGGTATAACTTTACATTAGCAGATATACTATTGTACTATGGAC
 TTCATCGCTTTATAGTTGACCTGACAGTTCAAGAAAAGGAGAAATATCTTAATGTGTCTC
 GCTGGTTTTGTACATTGACATTATCCAGGCATCAGGCAACATCTGTCTAGTGTGTCT
 TCATCAAGAACAGACTATATACTAATCCCACTAGAAGCTGTCCATGCCATACAGAAGAT
 CTATTAATAATGTTTTAAATGGAAAATGTACTCTAGACCACAGGACTAATGTAAATTAAT
 ATACAGTCATTCAATTTTGTGAAGTTGATAGAATTTTTGAAGTGAACTTGTGTCTG
 AATGTTTTATTTGTTCTTTAGCTGAAGTTTGAATTTTTATGTCAAAATCAATTGCTA
 TTAACCAGTTGAGATCCAGTTANTAATTAACCTTGTTTTAGTAGATGACATTNNATTT
 CATAAAGNTGCAATCGGGCTTAATCTAAAATGNGGTATTNCATGGNNTGACATATTG
 GGCTATTATAACCTCTCTTTCTATTCTAANATCATTTCCCTATGAATNTAGGGGNNAT
 TTGGTAGACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004280 unedited
 TATCTTGNACCGCGCGCTTTCTAGGATCGAGTTTTTTTTTTTTTTTTTCAACCACATT
 TACTAGCTCACATAAATATTTTAAACAAATCCATCTGTCTTCCCTTTTGGCTTCCTTGG
 CACAATTTATCAGTTCTTAACAACTACCATAAATATCCATAAGGGGAAAATGAATTTTA
 GAATATGAAAGAGAGGTTAATAAATAGCCAAATATGTCAACCATTGAAATGACCACCAAT
 TTAAAGATTAAGCCCGATTTGCAACTTTTATTGAAATAAATGTCACTACTAAAAACAAG
 GTTAATTTATACTGGATCTCAACTTGTTAATAGCAATTGAATTTTGACATAAAATTTG
 CAAAATTCAGCTAAAGAACAAATAAACATTCAGACACAAGTTTACACTTCAAAAATTC
 TATCAACTTCAACAAATAATGAATGACTGTATATTAATTTACATTAGTCTGTGGTCTAG
 AGTACATTTTCCATTTAAACATTTTAAATAGATCTTCTGTATGGCATGGACAGCTTCTA
 GTGGGAATTAGTATATAGTCTGTTCTTGATGAAGACAACACTAGACAGATGTTGCCTGAT
 GCCTGGATATGCTGAATGTGACANANCCAGCGAGACACATTAAGATATTTCTCCTTTTTC
 TGAAGTGTCAAGTCAACTATAAAGCGATGAAGTCCATAGTACAATAGTATATCTGCTTAT
 GTAAAGTTATACCTGTTAGGTAGACTTTNNATCTCAGATATGAATTAAGATCCNTNCAC
 AGTGTGTGGATGTCATTTTACTGGNAGTGCCCATCTACTTGAGTGACCTGGTTTCTAC
 ACCTGCTGAACGATTGCTTTTCTCTGCAGTACTCCCCAGCAAAAATCTTTGNTGGCTT
 GCTTGACTAAAAGAGCTGCTTTAGTAATCAATCCTGTTAACTTGAC

Restriction Sites:

NotI-NotI

ACCN:

NM_004280

Insert Size:

1000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_004280.2, NP_004271.1</u>
RefSeq Size:	1067 bp
RefSeq ORF:	525 bp
Locus ID:	9521
UniProt ID:	<u>O43324</u>
Cytogenetics:	6p24.3
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a multifunctional protein that localizes to both the cytoplasm and nucleus. In the cytoplasm, the encoded protein is an auxiliary component of the macromolecular aminoacyl-tRNA synthase complex. However, its mouse homolog has been shown to translocate to the nucleus in response to DNA damage, and it plays a positive role in ATM/ATR-mediated p53 activation. Alternative splicing results in multiple transcript variants. Read-through transcription also exists between this gene and the neighboring downstream MUTED (muted homolog) gene. An EEF1E1-related pseudogene has been identified on chromosome 2. [provided by RefSeq, Dec 2010] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).