

Product datasheet for SC119138

EIF3E (NM_001568) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3E (NM_001568) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF3E
Synonyms:	eIF3-p46; EIF3-P48; EIF3S6; INT6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119138 sequence for NM_001568 edited (data generated by NextGen Sequencing)

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ATGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTTGGATCGGCATCTAGTCTTT
CCGCTTCTGAATTTCTCTCTGTAAAGGAGATATAAATGAAAAGGAATTATTACAAGGT
AAATTGGACCTTCTTAGTGATACCAACATGGTAGACTTTGCTATGGATGTATACAAAAAC
CTTTATTCTGATGATATTCTCATGCTTTGAGAGAGAAAAGAACCACAGTGGTTGCACAA
CTGAAACAGCTTCAGGCAGAAACAGAACCAATTGTGAAGATGTTGAAGATCCAGAAACT
ACAAGGCAAAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCTGGCGGACAAG
CATGGTTTTAGGCAGGAATTTAGATACACTCTACAGATATGCAAAATCCAGTACGAA
TGTGGGAATTACTCAGGAGCAGCAGAATATCTTTATTTTTTAGAGTGTGGTCCAGCA
ACAGATAGAAATGCTTTAAGTTCACTCTGGGAAAGCTGGCCTCTGAAATCTTAATGCAG
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TATCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCCTTTAGAAGCCAGATGTTGGCCATG
AATATTGAGAAGAACTTAATCAGAATAGCAGGTCAGAGGCTCCTAACTGGGCAACTCAA
GATTCTGGCTTCTACTGA

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Clone variation with respect to NM_001568.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001568 unedited
 AAAAACGGTACGGCCGCCCGTTGCCGCTTATAGGGCGTAGGCGGTACGGTGGGAGGTC
 TATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCA
 GCGGCCGCGAATTCGGCACGAGGGTTTTAGTGAGCACAGACTCCCTTTCTTTGGCAAGA
 TGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTTGTTTCGGCATCTAGTCTTTC
 CGCTTCTTGAATTTCTCTCTGTAAAGGAGATATATAATGAAAAGGAATTATTACAAGGTA
 AATTGGACCTTTAGTGATACCAACATGGTAGACTTTTGCATGGATGTATACAAAAACC
 TTTATTCTGATGATATTCTCATGCTTTGAGAGAGAAAAGAACCACAGTGGTTGCACAAC
 TGAACAGCTTCAGGCAGAAACAGAACCAATTGTGAAGATGTTTGAAGATCCAGAAACTA
 CAAGGCAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCTGGCGGACAAGC
 ATGTTTTAGGCAGGAATTTAGATACACTCTACAGATATGCAAAATCCAGTACGAAT
 GTGGGAATTAAGGAGCAGCAGAATATCTTTATTTTTTTAGAGTGCTGGTTCCAGCAA
 CAGATAGAAATGCTTTAAGTTCCTCTGGGAAAGCTGGCCTCTGAAATCTTAATGCAGA
 ATGGGATGCAGCCATGGAAGACCTTACACGGTAAAAGAGACCATAGATAATAATTCTG
 TGAGTTCTCCACTCAGTCTCCTCAGCAGAGAACATGGCTCAATCACTGGTCTCTGTTTG
 TTTTCTCAATACCCAAAGGTCGCGATAATATTATTGACCTCTTCTTTATCAAGCACA
 ATATCTTATGCAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001568 unedited
 CCCATTTATGTACCGCGCCCAATTCTANAGTCGGTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTAAAATGAATCAATTTTATTCCAATCTTCAAATTTATACGTAATATGTTG
 TTTCCAAAATGTAAGTCACCCTTATATAATAGTTTTATTATTTTCATCTTTCTTTGATAG
 TTTTTTTTTTCATCTTTCTTTATGGTTCTTCAGTAGAAGCCAGAATCTTGAGTTGCCCA
 GTTAGGAGCCTCTGACCTGCTATTCTGATTAAGTTTCTTCTCAATATTATGCGCCAAACAT
 CTGGCTCTTAAAGGAAAGGCTTTTGGTCTTTTCAATCACTTGCTGATAGGGTGAGACTGC
 ATTGTTACCCATAACCACATGACCTAATTTAGAATCAATCTTGGCATCCAGTCTTGCATT
 TCTAATCAAATTTACAATCCACCTTTTCAGCTTCTTCTGGAGTCATGTTCAATTTATCTGC
 CAACATGTTAATGCTGATACACTGGTGGATGCGACAGAAAGTCTCAAATATGAAGAGACG
 GGCATTTTCAATGAAATCCTCAAGACAAGCCACCAAGAAGAAGTCATTCACAAGCACTGA
 TTCACATTCCTCAGCTTTTTCTGAGCCCCATCAAAGTCAAAGTTAACATATAAACATTC
 AACAAATTCCTGTATTGGTCTTTATATGTGTAAGACTCCTGGTAGATAAACTTTAAGT
 AGATCTTTTAGAACCTGCCGACGTTTTTGAACATCCTTGTGTTGTTATGACTGCNTGTAGT
 CAAATAGCGAAGAATGTGTNGACCACACTGTCTGAATTGCATTAATAAATGGGGCCTGAT
 AAAGGAAGAGGCAATTATTTTATTCGCGACCTTGGGGGTGAGTTGAGGAAAACCAACGGA
 GCCAGTGGATA

Restriction Sites:

NotI-NotI

ACCN:

NM_001568

Insert Size:

1600 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: [NM_001568.1](#), [NP_001559.1](#)

RefSeq Size: 1510 bp

RefSeq ORF: 1338 bp

Locus ID: 3646

UniProt ID: [P60228](#)

Cytogenetics: 8q23.1

Domains: PCI

Gene Summary: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773). Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway (PubMed:17468741). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed:17310990, PubMed:17324924).[UniProtKB/Swiss-Prot Function]