

## Product datasheet for **SC324616**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_001568.2  
 CTTTTTTTTTTTTCTTTGGCAAGATGGCGGAGTACGACTTGACTACTCGCATCGCGCAC  
 TTTTGGATCGGCATCTAGTCTTTCCGCTTCTTGAATTTCTCTGTAAAGGAGATAT  
 AATGAAAAGGAATTATTACAAGGTAAATTGGACCTTCTTAGTGATACCAACATGGTAGAC  
 TTTGCTATGGATGTATACAAAAACCTTTATTCTGATGATATTCCTCATGCTTTGAGAGAG  
 AAAAGAACCACAGTGGTTGCACAACGCTTCAAGCAGAAACAGAACCAATTGTG  
 AAGATGTTTGAAGATCCAGAACTACAAGGCAATGCAGTCAACCAGGGATGGTAGGATG  
 CTCTTTGACTACCTGGCGGACAAGCATGGTTTTAGGCAGGAATTTAGATACACTCTAC  
 AGATATGCAAAATCCAGTACGAATGTGGGAATTAAGTCAAGGAGCAGCAGAATATCTTTAT  
 TTTTTAGAGTGTGGTCCAGCAACAGATAGAAATGCTTTAAGTCACTCTGGGAAAAG  
 CTGGCCTCTGAAATCTTAATGCAGAATTGGGATGCAGTCAAGGACCTTACACGGTTA  
 AAAGAGACCATAGATAAATCTGTGAGTTCTCCACTTCAGTCTTTCAGCAGAGAACA  
 TGGCTCATTCACTGGTCTCTGTTTGTCTTCAATCACCCCAAAGGTCGCGATAATATT  
 ATTGACCTCTTCTTTATCAGCCACAATATCTTAATGCAATTCAGACAATGTGTCCACAC  
 ATCTTCGCTATTTGACTACAGCAGTCATAACAAACAAGGATGTTTCGAAAACGTCGGCAG  
 GTTCTAAAAGATCTAGTTAAAGTTATTTCAACAGGAGTCTTACACATATAAAGACCAATT  
 ACAGAATTTGTTGAATGTTTATATGTTAACTTTGACTTTGATGGGGCTCAGAAAAAGCTG  
 AGGGAATGTGAATCAGTGTGTTGTAATGACTTCTTCTGGTGGCTGTCTTGAGGATTTT  
 ATTGAAAATGCCCGTCTTTCATATTTGAGACTTTCTGTGCGACTCCACCAGTGTATCAGC  
 ATTAACATGTTGGCAGATAAATTGAACATGACTCCAGAAGAAGCTGAAAAGGTGGATTGTA  
 AATTTGATTAGAAATGCAAGACTGGATGCCAAGATTGATTCTAAATAGTTCATGTGGTT  
 ATGGGTAACAATGCAGTCTCACCTATCAGCAAGTGATTGAAAAGACCAAAAGCCTTTCC  
 TTTAGAAGCCAGATGTTGGCCATGAATATTGAGAAGAACTTAATCAGAAATAGCAGGTCA  
 GAGGCTCCTAACTGGGCAACTCAAGATTCTGGCTTCTACTGAAGAACCATAAAGAAAAGA  
 TGAAAAAAAACATCAAGAAAGATGAAATAATAAACTATTATATAAAGGTGACTT  
 ACATTTTGAAAACAACATATTACGTATAAATTTGAAGAATTGGAATAAAATTGATTCAT  
 TCTAAAAAAAACATATTACGTATAAATTTGAAGAATTGGAATAAAATTGATTCAT



[View online »](#)

<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_001568
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001568.2</a></u> , <u><a href="#">NP_001559.1</a></u>
<b>RefSeq Size:</b>	1516 bp
<b>RefSeq ORF:</b>	1338 bp
<b>Locus ID:</b>	3646
<b>UniProt ID:</b>	<u><a href="#">P60228</a></u>
<b>Cytogenetics:</b>	8q23.1
<b>Domains:</b>	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<sub>i</sub> 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]