

Product datasheet for **SC211775**

EIF3A (NM_003750) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	EIF3A (NM_003750) Human 3' UTR Clone
Symbol:	EIF3A
Synonyms:	EIF3; eIF3-p170; eIF3-theta; EIF3S10; P167; p180; p185; TIF32
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_003750
Insert Size:	2000 bp



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Insert Sequence: >SC211775 3'UTR clone of NM_003750
 The sequence shown below is from the reference sequence of NM_003750. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
GAAGATGGATGGACCACAGTACGACGTAAAGTCTCAAGATAATGGATTTAACTGGTGTCTTAAATAGG
TTTGATCACATTCAAGGATTATTATACTTGTGCTTCAACCAATCTAAATTGGATTCTTTAATGTTGTTT
CACCATAACACAAAAAGCATGAACCTTGATTAATCCTATATAATAGATTGATCATGCACCATATCCACA
GGAGGTTGGAAAAACCATGCCATTTCTGGAATTTAAGGGTGTTCATTATTTCAATCATTTGTTG
ACAAAAAGAAAACTAAAAATAAATTTAAATGTGACCCTTCAGGTATTGAGTAACACCTTTATCTT
GGTATAGAACTGATACTTTTTTTTTGATTTGAAATATCTGATAATAATTTGGAATGAAGTAAGGTTCT
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TACGTACCTATTTAGGTATTTGAGGTATTTACCATAAACTAAATTTAGAAATTTTTAGATTCACCTT
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AAAGCAATTTGCAGTTGTTGTAATGACAAGATTACTGCGCAAGTGTGAATCCAAACAGTATAGCTTTTA
AATTTTAAAGCATTTGGTAAATTATCGCTGAGTTTTTTCTGTTGCCAATAGCAAAGTCTTTTCCATT
AATGGAGAATTCATGCCTTTCAAGCATTTTAAATATGACAATATTTATAAATGTATGGTTGGAGGAAT
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ATCTGGTATTTCAAATACGTAGAAGTCTTTAAAGGTCTTTCTGTTGGGAGAAGGACTTTTCTTTCATAAC
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GCTGCCTACGTTAGAGTTAGATTTCAAGGCGAGTCAGCAAACCCATCCTTTCTGCTCAGTCTCCCGTAC
TGTTCTCCCAAGTTCTTTGTTCTGGGAGTCAGAACCCAAAGTGCAAGAGGAGGGCAGAAGAGTCTGATGC
TGTTACTTTGCGATCCTGCTCTTGGTTTCCACTGTCCAGGCCATACAACCTCTGTCTACTCCCATAGTA
TTTACCAACAGGTGTTAAAGGAAAGCTGAACAAGCAGCCTACTCACCGATCTGCTAGGTGGTCTTCCA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_003750.4](#)

Summary:

RNA-binding 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). 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, PubMed:11169732). 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, PubMed:27462815). [UniProtKB/Swiss-Prot Function]

Locus ID:

8661

MW:

77.6