

Product datasheet for **SC323942**

IF3EI (EIF3L) (NM_016091) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IF3EI (EIF3L) (NM_016091) Human Untagged Clone
Tag:	Tag Free
Symbol:	IF3EI
Synonyms:	EIF3EIP; EIF3S6IP; EIF3S11; HSPC021; HSPC025; MSTP005
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	>OriGene sequence for NM_016091.2 <pre> CTCGCAAGCGAGGCAGCCATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTAT GACCCCTACGCTTATCCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTT GCTTATGAACGTGAGTATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAAC TTCATCCAGTATTTCCACAAAAGTCTCAGATTTGATTGACCAGAAAGTGTATGAGCTA CAGGCCAGTCGTGCTCCAGTGATGTCATTGACCAGAAGGTGTATGAGATCCAGGACATC TATGAGAACAGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCGAG GCTGAAGCCATTGCTCCACAGGTTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAA TTATACTACAGGCACATATATGCCAAAGTCAGTGGGGGACCTTCCTTGGAGCAGAGGTTT GAATCCTATTACAACACTGCAATCTCTCAACTACATTCTTAATGCCGATGGTCTGCT CCCCTTGAACACCAACCAGTGGCTCTGGGATATTATCGATGAGTTCATCTACCAGTTT CAGTCATTCAGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTT CTTCGTTCCAATCCCAAAATCTGGAATGTTCAAGTGTCTCAATGTCCTTCATTCCCTG GTAGACAAATCCAACATCAACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAG AGTGTGGCTGGGGAGTATGGGCGGCACTCCCTCTACAAAATGCTTGGTTACTTCAGCCTG GTCGGGCTTCTCCGCTGCACTCCCTGTTAGGAGATTACTACCAGGCCATCAAGGTGCTG GAGAACATCGAACTGAACAAGAAGAGTATGTATCCCGTGTGCCAGAGTGCCAGGTCAACC ACATACTATTATGTTGGGTTTGCAATTTGATGATGCGTCGTTACCAGGATGCCATCCGG GTCTTCGCCAACATCCTCCTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACG TACAAGTATGAGATGATTAACAAGCAGAATGAGCAGATGCATGCGCTGCTGGCCATTGCC CTCAGCATGTACCCATGCGTATCGATGAGAGCATTACCTCCAGCTGCGGGAGAAATAT GGGGACAAGATGTTGCGCATGCAGAAAGGTGACCCACAAGTCTATGAAGAAGTTTTCAGT TACTCTGCCCCAAGTTCTGTGCGCTGTAGTGCCCAACTATGATAATGTGACCCCAAC TACCACAAGAGCCCTTCTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAG GCCCAGCTTTCAACCATCCGAGCTTCTGAAGCTCTACACCACCATGCCTGTGGCCAAG CTGGCTGGCTTCTGGACCTCACAGAGCAGGAGTTCGGATCCAGCTTCTGTCTTCAA CACAAGATGAAGAACCTCGTGTGGACAGCGGTATCTCAGCCCTGGATGGTGAATTCAG TCAGCCTCAGAGGTTGACTTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAG GTGCCAGGCGTTATGGGGATTTCTTCATCCGTCAGATCCACAAATTTGAGGAGCTTAAT CGAACCTGAAGAAGATGGGACAGAGACCTTGATGATTTACACACATTGAGGAACCTG TTTTGATGATTATAGGCAGGAAGTGTGTTTGTACCGTGAAACCTTTACCTAGATCAGC CATCAGCCTGTCAACTCAGTTAAACAAGTTAAGGACCGAAGTGTTCAGTGGATCTCAGT AAAGGATCTTTGGAGCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA </pre>
Restriction Sites:	ECorI-NOT
ACCN:	NM_016091
Insert Size:	1695 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).
OTI Annotation:	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.
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_016091.2](#), [NP_057175.1](#)

RefSeq Size: 1970 bp

RefSeq ORF: 1695 bp

Locus ID: 51386

UniProt ID: [Q9Y262](#)

Cytogenetics: 22q13.1

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-tRNAⁱ 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).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.