

Product datasheet for **SC114447**

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC114447 sequence for NM_016091 edited (data generated by NextGen Sequencing)

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ATGTCTTATCCCCTGATGATTATGAGTCTGAGGCGGCTTATGACCCCTACGCTTATCCC
AGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAACGTCAGTAT
GAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAGTATTTCCAC
AAAACGTCTCAGATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGTCGTGTCTCC
AGTGATGTCATTGACCAGAAGGTGTATGAGATCCAGGACATCTATGAGAACAGCTGGACC
AAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCGAGGCTGAAGCCATTGCTCCA
CAGGTTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAATTATACTACAGGCACATA
TATGCCAAAGTCAGTGGGGGACCTTCTTGGAGCAGAGGTTTGAATCCTATTACAACCTAC
TGCAATCTCTTCAACTACATTCTTAATGCCGATGGTCTGCTCCCTTGAACACCCAAC
CAGTGGCTCTGGGATATTATCGATGAGTTCATCTACCAGTTTCAGTCATTCAGTCAGTAC
CGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTTTCTCGTTCCAATCCCAAA
ATCTGGAATGTTCATAGTGTCTCAATGTCCTTCATTCCCTGGTAGACAAATCCAACATC
AACCGACAGTTGGAGGTATACACAAGCGGAGGTGACCCTGAGAGTGTGGCTGGGGAGTAT
GGCGGGCACTCCCTCTACAAAATGCTTGGTTACTTCAGCCTGGTCGGGCTTCTCCGCTG
CACTCCCTGTTAGGAGATTACTACCAGGCCATCAAGGTGCTGGAGAACATCGAAGTGAAC
AAGAAGAGTATGTATCCCGTGTGCCAGAGTGCCAGGTACCACATACTATTATGTTGGG
TTTGATATTTGATGATGCGTCGTTACCAGGATGCCATCCGGGTCTTCGCCAACATCCTC
CTCTACATCCAGAGGACCAAGAGCATGTTCCAGAGGACCACGTACAAGTATGAGATGATT
AACAAGCAGAATGAGCAGATGCATGCGCTGCTGGCCATTGCCCTCACGATGTACCCCATG
CGTATTGATGAGAGCATTACCTCCAGCTGCGGGAGAAATATGGGGACAAGATGTTGCGC
ATGCAGAAAGGTGACCCACAAGTCTATGAAGAACTTTTCACTTACTCCTGCCCAAGTTT
CTGTGCGCTGTAGTGCCCAACTATGATAATGTGCACCCCACTACCACAAGAGCCCTTC
CTGCAGCAGCTGAAGGTGTTTTCTGATGAAGTACAGCAGCAGGCCAGCTTTCAACCATC
CGCAGCTTCTGAAGCTCTACACCACCATGCCTGTGGCCAAGCTGGCTGGCTTCTGGAC
CTCACAGAGCAGGAGTTCGGGATCCAGCTTCTTGTCTTCAAACACAAGATGAAGAACCTC
GTGTGGACCAGCGGTATCTCAGCCCTGGATGGTGAATTTCACTCAGCCTCAGAGGTTGAC
TTCTACATTGATAAGGACATGATCCACATCGCGGACACCAAGGTGCCAGGCGTTATGGG
GATTTCTTCATCCGTGAGATCCACAAATTTGAGGAGCTTAATCGAACCTGAAGAAGATG
GGACAGAGACCTTGA
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Clone variation with respect to NM_016091.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016091 unedited

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NGGGTCAATATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACGAGGCGCAAGC
GAGGCAGCCATGTCTTATCCCGCTGATGATTATGAGTCTGAGGCGGCTTATGACCCCTAC
GCTTATCCAGCGACTATGATATGCACACAGGAGATCCAAAGCAGGACCTTGCTTATGAA
CGTCAGTATGAACAGCAAACCTATCAGGTGATCCCTGAGGTGATCAAAAACCTTCATCCAG
TATTTCCAAAACTGTCTCAGATTTGATTGACCAGAAAGTGTATGAGCTACAGGCCAGT
CGTGTCTCCAGTGTGTCATTGACCAGAAGGTGTATGAGATCCAGGACATCTATGAGAAC
AGCTGGACCAAGCTGACTGAAAGATTCTTCAAGAATACACCTTGGCCCGAGGCTGAAGCC
ATTGCTCCACAGGTTGGCAATGATGCTGTCTTCTGATTTTATACAAAGAATTATACTAC
AGGCACATATATGCCAAAGTCAGTGGGGGACCTTCTTGGAGCAGAGGTTTGAATCCTAT
TACAACACTGCAATCTCTTCAACTACATTCTTAATGCCGATGGTCTGCTCCCTTGAA
CTACCAACCAAGTGGCTCTGGGATATTATCGATGAGTTTATCTACAGTTTCAGTCATTC
AGTCAGTACCGCTGTAAGACTGCCAAGAAGTCAGAGGAGGAGATTGACTNTCTTCGTTCC
AATCCCAAAATCTGGAATGTTATAGTGTCTCAATGTCTTCATTCCCTGGTAGACANA
TCCAACATCAACCCGACAGTGGGAGTATACACAAGCGGNAGTGACCCTGANAGTGTGGCT
GGGGAGTATGGGNCGGACTCCCTCTACAAATGCTTGGTACCTCAGCCTGGTCGGNCT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016091 unedited CGCAATCTAGTATCGAGTTTTTTTTTTTTTTTTCTGGCTCCAAATATCCTTTACTGAG ATCCACTTGAAACACTTCGGTCCTTAACCTGTTAACTGAGTTGACAGGCTGATGGCTGAT CTAGGTAAAGGTTTCACGGTAGCAAAAACACTTCCTGCCTATAATACATCAAAACAGGTT CCTGAATGTGTGTAATATCATCAAGGTCTCTGTCCCATTCTTCAGGGTTCGATTAAG CTCCTCAAATTTGTGGATCTGACGGATGAAGAAATCCCCATAACGCCTGGCGACCTGGT GTCCGCGATGTGGATCATGTCTTATCAATGTAGAAGTCAACCTCTGAGGCTGACTGAAA TTCACCATCCAGGCTGAGATACCGCTGGTCCACACGAGGTTCTTCATCTTGTGTTTGA GACAAGAAGCTGGATCCGGAACCTCTGCTCTGTGAGGTCCAGGAAGCCAGCCAGCTTGGC CACAGGCATGGTGGTGTAGAGCTTCAGGAAGCTGCGGATGGTTGAAAGCTGGGCTGCTG CTGTACTTCATCAGAAAACACCTTCAGCTGCTGCAGGAAGGGCTCTTTGTGGTAGTTGGA GTGCACATTATCATAGTTGGGCACTACAGGCGACAGGAACCTTGNCGCAGGAGTAAGTAA AAGTTCTTCATAGACTTGTGGGTACCTTTCTGCATGCGCAACATCTTGTCCNCATATTT CTCCAGCAGCTGGAGGTGAATGCTCTCATCNATACGCATGGNGTACATCGTGAAGGCAAT GGNCAGCAGCGCATGCATCTGCTCATTCTGGCTGTAATCATCTCATACTTGNACGGAGGC CTCTGGAACATGCTCTTGGTCTCTGGATGTANAGGAAGATTGTNGCGAAAACCCGNATG CCTCTGNTACGACGCATCTCAATATGCAAACCCACATATATATTGGTGACCTGCACTCT GCACACGGAATACTACTCTCTGTCATTTCAGTTTTCAA
Restriction Sites:	ECORI-NOT
ACCN:	NM_016091
Insert Size:	1770 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_016091.2, NP_057175.1</u>
RefSeq Size:	1970 bp
RefSeq ORF:	1695 bp
Locus ID:	51386
UniProt ID:	<u>Q9Y262</u>
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-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).[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.