

Product datasheet for **SC107933**

EIF4ENIF1 (NM_019843) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4ENIF1 (NM_019843) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4ENIF1
Synonyms:	4E-T; Clast4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC107933 sequence for NM_019843 edited (data generated by NextGen Sequencing)

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ATGGATAGGAGAAGTATGGGTGAAACAGAAAGTGGAGATGCTTTCCTTGACCTGAAGAAG
CCTCCTGCCTCCAAATGCCCCATCGCTATACAAAAGAAGAACTCTTGGATATAAAAGAA
CTCCCCATTCCAAACAGAGGCCTTCATGCCTTCTGAAAAATATGACAGTGATGGTGTC
TGGGACCTGAGAAGTGGCATGCCTCTCTACCCAGCTTCAGGGCGGAGCTCACCAGTG
GAAAGTCTGAAGAAAGAGTTGGATACAGACCGGCCTTCCCTGGTGCAGGATAGTAGAT
CCACGAGAGCGTGTAAAGAAGATGACTTAGATGTTGTTCTCAGCCCTCAGAGACGGAGC
TTTGGAGGGGGCTGCCACGTGACAGCCGCTGTTAGCTCCCGGCGCTCAGGAAGTCCATTA
GAGAAAGATAGTGATGGGCTTCGTCTGCTTGGTGGACGTAGGATTGGCAGTGGGAGGATA
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AGAGACAGAGACCGAGAGAGGGACTTCAAGGACAAGCGTTTCAGGAGAGAGTTTGGAGAT
AGTAAGCGTGTCTTTGGTGGAGCGTAGAAGAAATGATTCTTACACAGAAGAAGAACAGAG
TGGTTCTCTGCTGGACCCACAAGTCAGTCTGAAACCATCGAACTGACTGGCTTTGATGAT
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CTTGACACAGGAGCCTGCGGCTGATCAGGAAGTGCCAAGGGATGCTGTCTTGCCTGAGCAG
TCCCCAGGAGACTTTGACTTTAATGAGTCTTTAACCTTGATAAGGTGCCATGCTTGGCT
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GAGCTAGAGAGACTTGCAGGTCTGGAGCAAGCCATCCTCTCTCCTGGACGAAGTCCGGGG
AATTACTTTGCTCCTATACCATTTGGAAGACCATGCTGAAAATAAAGTGGATATTTTAGAA
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GAAAAACTTAAAGAAAGCTCACATTCAGGGTTGTGCTTTCAGTGGAGGAGGTAGAAGCA
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ATGACTGCGTTCAACAAGCTAGTGAGCACAATGAAGGCAAGTGGGACTTTGCCTTCTCAG

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CCCAAAGTCAGCCGAAACCTTGAAAGCCATTTGATGTCCCCTGCTGAGATTCCAGGCCAG
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TCCAATCTTCTGAGTGGCCTTATGGGGAGCTTGGAGCCTACAACATCTTTACTGGGCCAA
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GAGTTGCAACAGGCAGCTTTAGAAGGGCTGGCCCTTGCCACATGACCTTGCTGTACAGGCA
GCAAACCTTCTACCAGCCTGGTTTTGGCAAACCACAGGTGGACAGAACCAGAGATGGATTC
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CAGCTACAGCGCTCAGTCTGCATCCTCCAGGCTCTGGTTCCCATGCAGCAGCTGCAGC
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TCAGATGTGCTACAGCAACCCTGCCCTCCATGCCCGCCAAAGTTATCAGTGTAGATGAA
TTGGAATACCGACAGTGA
    
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Clone variation with respect to NM_019843.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_019843 unedited
GTCANAATTTGTATACGACTCACTATAGGCGGCCGCAATCGGCACGAGGTGTAGACCAA
GGAGCCATGGATAGGAGAAGTTGGGTGAAACAGAAAGTGGAGATGCTTTCCTTGACCTGA
AGAAGCCTCCTGCCTCCAATGCCCCATCGCTATACAAAAGAAGAACTTTGGATATAA
AAGAACTCCCCATTCCAACAGAGGCCTTCATGCCTTCTGAAAAATATGACAGTGATG
GTGTCTGGGACCCTGAGAAGTGGCATGCCTCTCTACCCAGCTTCAGGGCGGAGCTCAC
CAGTGGAAAGTCTGAAGAAAGATTGGATACAGACCGCCTTCCCTGGTGCAGGATAG
TAGATCCACGAGAGCGTGTGAAAGAAGATGACTTAGATGTTGTTCTCAGCCCTCAGAGAC
GGAGCTTTGGAGGGGGCTGCCACGTGACAGCCGCTGTTAGCTCCCGGCGCTCAGGAAGTC
CATTAGAGAAAGATAGTATGGGCTTCGTCTGCTTGGTGGACGTAGGATTGGCAGTGGGA
GGATAATCTCTGCCCGGACCTTTGAGAAGGATCACCGTCTTAGCGATAAGGACCTGCGGG
ACTTGAGAGACAGAGACCAGAGAGGGACTTCAAGGACAAGCGTTTCAGGAGAGAGTTTG
GAGATAGTAAGCGTGTCTTTGGTGAAGCAGTGAAGAAATGATTCTTACACAGAAGAAGACC
AGNAGTGGTTCTCTGCTGGGACCCACAGTCAGTCTGAACCATCGAACTGACTGGCTNTGA
TGATAAGATACTAGAAGAAGATCACAAGGGAGAAAAAGACAAGGCGACNGACAGNCTCT
GTGAAGGAAGTATAANTANAGTGCATGGGNAGANTGGCCGAAAGGATGAAATGGNAGGTC
ATCCTTGACAGAGCCTGCGGCTGTCCAAGAAATGCCAGGNNATGCTGNCTTGCCTGANC
ANTCCCCAGAGACTTGACTTTATTGATTCTTACC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_019843 unedited TCCCTTTGACATATGCATTTTAAATCAACCAAAGNAAAACCCAAAGTACAAGTGAAAAAT CCAAACTGTTGACACAGGCCTAACTAATATCAGCTACTTTTATGTACAGCTGTATAGTTC AAAAAAGCTATCCTATATGTATATACAAAAGTTGTTTATACACAGGTCTGTACATAAGGG TCTATACATTTATTTCTCAGAACCTTAGGTGCCACCTCTTGGTGAGGACCAACACT TCATTACATATCTTACAAAAAAGAAAGACCATTCCAGGATTGACAACATTGTGCATCC TGTATTACAGACAATGTACACTCCACTCGACTGGTTAAGATCCTTCCATCATAATGCGGAC CACACCAGATGCATGGGTTCCACCAAACAGCTTACACAGAGTGCTCCAAGTAAAAGCC CATAAACCAACCCGAGATGAATTACGGCCCTGCCAGTGTGCCACCACAGGTCCCGGGCT CAGTTGACTCCGCCTGCCCTGCTCACTGCCCGCATTTCAACCCACTCACCTGAAAACCC TGCCGGCCACGGATGGCTCGGGCTCCTCCACCCCACTTTACCATCCCATCTGCCCTTGCC ATTCGCGACTTCCCTCTCGTCGTTGCTATCTCCCTCCCGTTCCGCATACGTCCCATCCC CTGTGTCGCTTTTCCCCCCCCCTCGCCTTTTCCCACTCCCTTCCCGCCCCCTCCCC CTTATCCCCCGCCCATCCCTCCTTTTCACTCTCGTCCCCCTTCCCCGCACGCCTTCG CTCCCTCCCTATCCCTGCCCTTACCATTTCACCGCCCGCATTTTCGTACGCCTCTATC TTTCCCCGCCTTATTTTCCGTTTTTCCCTTATTCGCCGTGCGGGCGCCCGTTATCCCC CTCTCGCCCTTATTACCACGTGCCCACTTCGCTCGTAACGCCCCCTATCTGTTCAACC AGTTCTGCCGCCCCCTCCTTCCCGAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_019843
Insert Size:	3670 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:	<ol style="list-style-type: none"> 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_019843.2</u> , <u>NP_062817.1</u>
RefSeq Size:	3521 bp
RefSeq ORF:	2958 bp
Locus ID:	56478
UniProt ID:	<u>Q9NRA8</u>
Cytogenetics:	22q12.2

Gene Summary:

The protein encoded by this gene is a nucleocytoplasmic shuttle protein for the translation initiation factor eIF4E. This shuttle protein interacts with the importin alpha-beta complex to mediate nuclear import of eIF4E. It is predominantly cytoplasmic; its own nuclear import is regulated by a nuclear localization signal and nuclear export signals. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Variants 1 and 2 both encode isoform a.