

Product datasheet for SC117777

EIF3S2 (EIF3I) (NM_003757) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3S2 (EIF3I) (NM_003757) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF3S2
Synonyms:	eIF3-beta; eIF3-p36; EIF3S2; PRO2242; TRIP-1; TRIP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117777 sequence for NM_003757 edited (data generated by NextGen Sequencing)

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ATGAAGCCGATCCTACTGCAGGGCCATGAGCGGTCCATTACGCAGATTAAGTATAACCGC
GAAGGAGACCTCCTCTTTACTGTGGCCAAGGACCCTATCGTCAATGTATGGTACTCTGTG
AATGGTGAGAGGCTGGGCACCTACATGGGCCATACCGGAGCTGTGTGGTGTGTGGACGCT
GACTGGGACACCAAGCATGTCCTCACTGGCTCAGCTGACAACAGCTGTCGTCTCTGGGAC
TGTGAAACAGGAAAGCAGCTGGCCCTTCTCAAGACCAATTCGGCTGTCCGGACCTGCGGT
TTTGACTTTGGGGCAACATCATCATGTTCTCCACGGACAAGCAGATGGGCTACCAAGTGC
TTTGTGAGCTTTTTTACCTGCGGGATCCGAGCCAGATTGACAACAATGAGCCCTACATG
AAGATCCCTTGAATGACTCTAAAATCACCAGTGTGTTTGGGGACCCCTGGGGGAGTGC
ATCATCGCTGGCCATGAGAGTGGAGAGCTCAACCAGTATAGTGCCAAGTCTGGAGAGGTG
TTGGTGAATGTTAAGGAGCACTCCCGGCAGATCAACGACATCCAGTTATCCAGGGACATG
ACCATGTTTGTGACCGCTCCAAGGACAACACAGCCAAGCTTTTTGACTCCACAACCTCTT
GAACATCAGAAGACTTTCCGGACAGAAGCTCCTGTCAACTCAGCTGCCCTCTCCCCAAC
TATGACCATGTGGTCTGGGCGGTGGTCAGGAAGCCATGGATGTAACCACAACCTCCACC
AGGATTGGCAAGTTTGGAGCCAGTTCTTCCATTTGGCCTTTGAAGAAGAGTTTGGGAAGA
GTCAAGGGTCACTTTGGACCTATCAACAGTGTTCCTTCCATCCTGATGGCAAGAGCTAC
AGCAGCGGCGGCAAGATGGTTACGTCCGTATCCATTACTTCGACCCACAGTACTTCGAA
TTTGAGTTTGAGGCTTAA

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Clone variation with respect to NM_003757.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003757 unedited</p> <p>TCACTATAGGGCGGCCGGAATTCGGCACGAGGCTCACGTTGCGGCCTTCTCGCGTCAC AGCCGGGATGAAGCCGATCTACTGCAGGGCCATGAGCGGTCCATTACGCAGATTAAGTA TAACCCGGAAGGAGACCTCTCTTTACTGTGGCCAAGGACCCTATCGTCAATGTATGGTA CTCTGTGAATGGTGAGAGGCTGGGCACCTACATGGGCCATACCGGAGCTGTGTGGTGTGT GGACGCTGACTGGGACACCAAGCATGTCCTCACTGGCTCAGCTGACAACAGCTGTCTGTCT CTGGGACTGTGAAACAGGAAAGCAGCTGGCCCTTCTCAAGACCAATTTCGGCTGTCCGGAC CTGGCGTTTTGACTTTGGGGCAACATCATGTTCTCCACGGACAAGCAGATGGGCTA CCAAGTCTTTGTGAGCTTTTTGACCTGCGGGATCCGAGCCAGATTGACAACAATGAGCC CTACATGAAGATCCCTTGNATGACTCTAANATCACCAGTGCTGTTTGGGGACCCCTGGG GGAGTGATCATCGCTGGCCATGAGAGTGGAGAGCTCAACCAGTATAGTGCCAAGTCTGG AGAGGTGTTGTGAATGTTAAGAGCACTCCCGCAGATCACGACACCAGTATCCAGGACATG ACATGTTGTGACCGCGTCAAGACACACAGCCAGCTTTTTGACNCACTCTTGACATAN AAGACTCCGGACAGACGTTCTGTCACTAGCTGCCCTCTCCCACTATGACATGTGTCC TGGGCCGTGGTNGAANCCATGGATGTACCACCACCTCCCAGATTGCCAGTTGAAGGCA GTTCTCCTTTTGCTTGAATAAAGTTGAAAATAAGGTCCTTTGGACTATCAAGGGTGCCT CCTCTGAGCAAACCTCACACGCGGAAAATGTACNTCGATCATATTGACCAGACTTGATGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003757 unedited</p> <p>NNGGTAACCTTTGAACCGCGCCGAATCTANGATCGATTTTTTTTTTTTTTTTTTTGAGAC GGAGTTTTGCTCTTGTGCTCAGGGTGGAGTGCAATGACGTGATCTCAGCTCACTGCAAC CTCTGCCTCCTGGTTCAAGTATTCTCCTGCCTCAGCCTCCTGAGTAGCTGGGACTATA GGCGTGTGCCACCATGCCTGGCTAATTTTTGTATTTTTAGTAGAGACGAGTTTTCTCCAT GTTGGTCAAGGCTGGTCTTAACTCCTGACCTCAGGTGATCCGCCTGCCTTAAAAAAAAG TGGTGGGATTACAGGCATGAGCCACCACGCCCGCAGGAGATCCAGCTTCTTAAGCCTCA AACTCAAATTCGAAGTACTGTGGGTGCAAGTAATGGATACGGACGTAACCATCTTCGCCG CCGCTGCTGTAGCTCTTGCCATCAGGATGGAAGGCAACTGTTGATAGGTCCAAAGTGA CCCTTGACTCTTCCAACTCTTCTTCAAAGGCCAAATGGAAGAACCTGGCCTCAAACCTG CCAATCCTGGTGGAGGTTGTGGTTACATCCATGGCTTCTGACCACCGCCAGGACCACA TGGTCATAGTTGGGGGAGAGGGCAGCTGAGTTGACAGGACGTTCTGTCCGGAAAGTCTTC TGATGTTCAAGAGTTGTGGAGTCAAAAAGCTTGCCTGTGTTGTCCTTGGACGCGGTACA AACATGGGCATGTCCCTGGATAACTGGATGTCGTTGATCTGCCCGGAGTGCTCCCTACAT TCACCAACACCTCTTCACTTGGCACTATCCTGGTTGACCTCTCACCTCCATGGCCAAC GATGATGCACTCCCCAGGGTCCCCAAAACCACTGTTGATTTTAAACCC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003757
Insert Size:	1370 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:	NM_003757.1 , NP_003748.1
RefSeq Size:	1402 bp
RefSeq ORF:	978 bp
Locus ID:	8668
UniProt ID:	Q13347
Cytogenetics:	1p35.2
Domains:	WD40
Gene Summary:	<p>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]</p>