

## Product datasheet for **SC337651**

### eIF3s8 (EIF3C) (NM\_001286478) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	eIF3s8 (EIF3C) (NM_001286478) Human Untagged Clone
Tag:	Tag Free
Symbol:	eIF3s8
Synonyms:	eIF3-p110; EIF3CL; EIF3S8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001286478, the custom clone sequence may differ by one or more nucleotides

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ATGTCGCGGTTTTCCACCACGGTTCGGACAGCGAGTCCGAGTCGCCTTGTCCGGGGAGGAGCTCGTCA
CCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGACAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCC
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AAAGCATTGTGGACAAAGAAGGTGTCCCCCGTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCT
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GCTGATGGATATCCTGTTTCAAATCCCAACATTTTGTGGAGAGAATATTCTGGAAGAGATGAGAAG
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CCCCGCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
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TGCCACATCTACCACCATGCTCTGCACTCGCGTGGTACCAGGCCGCGACCTCATGCTCATGAGCCACT
TGCAGGACAACATTCAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGG
CATCTGTGCCTTCGCCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTGCAGTGGC
CGAGCCAAGGAGCTTCTGGGCCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGA
AGGTGGAGCGGCCCGTCAAGTCCCTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCT
GGTGTCTGCCATGCTCCTGGAGATCCCCTACATGGCCGCCATGAGAGCGATGCCCGCCGACGCATGATC
AGCAAGCAGTTCACCACCAGCTGCGCGTGGGCGAGCGACAGCCCTGCTGGGTCCCCTGAGTCCATGC
GGGAACATGTGGTCGCTCCCAAGGCCATGAAGATGGGTGACTGGAAGACCTGTCACAGTTTTATCAT
CAATGAGAAGATGAATGGGAAAGTGTGGACCTTTCCCCGAGGCTGACAAAGTCCGCACCATGCTGGTT
AGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTTTACCTACAGCAGTGTCTATGACTCCATCAGCA
TGGAGACGCTGTCAGACATGTTTGAGCTGGATCTGCCACTGTGCACTCCATCATCAGCAAAATGATCAT
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GCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACGGGTGT
TTGACCACAAGCAGGGCACCTACGGGGCTACTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGA
    
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**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_001286478

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001286478.1</a> , <a href="#">NP_001273407.1</a>
<b>RefSeq Size:</b>	3066 bp
<b>RefSeq ORF:</b>	2712 bp
<b>Locus ID:</b>	8663
<b>UniProt ID:</b>	<a href="#">Q99613</a>
<b>Cytogenetics:</b>	16p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	<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-tRNA<sub>i</sub> 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> <p>Transcript Variant: This variant (5) uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.</p>