

## Product datasheet for **SC108770**

### EIF5 (NM\_001969) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5 (NM_001969) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF5
Synonyms:	EIF-5; EIF-5A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108770 sequence for NM_001969 edited (data generated by NextGen Sequencing)

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ATGTCTGTCAATGTCAACCCGAGCGTGTGACACCAGTTCTATCGTACAAGATGCCCCGT
CTGATTGCCAAGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTT
GACGTTGCAAAGGCGCTTAATCGGCCTCCAACGTATCCCACCAAATATTTTGGTTGTGAG
CTGGGAGCACAGACCCAGTTTGTGTTAAGAATGACCGTTACATTGTCAATGGATCTCAT
GAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCATTAATAAATTTGTTCTCTGTCTCT
GAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCAAAGAAGCAAACAATAGGTAAT
TCTTGTAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTC
ATTCTCAAAAACCCACCTGAGAATAGTGACAGTGGTACAGGAAAAGAAAAGAAAAGAAAAG
AAAACAGAAAGGCAAAGACAAGGAAAATGGCTCCGTATCCAGCAGTGAGACACCACCA
CCACCACCACCACCAAATGAAATTAATCCTCCTCCACATACAATGGAAGAAGAGGAGGAT
GATGACTGGGGAGAAGATACAACCTGAGGAAGCTCAAAGGCGTCAATGGATGAAATCAGT
GACCATGCAAAAGTTCTGACACTCAGTGATGATTTGAAAAGAACAATTGAGGAGAGGGTC
AATATCCTCTTTGATTTTGTAAAGAAAAGAAAAGAGAGGGTGTATTGATTCATCTGAC
AAAGAAATCGTTGCTGAAGCAGAAAGACTGGATGTAAAAGCCATGGGCCCTTTGTTCTA
ACTGAAGTTCTTTTAAATGAGAAGATTAGAGAACAGATTAAGAAATACAGGCGCCATTTCT
TACGATTTTGTACACAACAACAAAAAGCCCAACGGTACCTTCTTCATGGTTTGGAGTGT
GTGGTAGCAATGCATCAAGCTCAGCTTATCTCCAAGATTCCACATATCTTGAAGGAGATG
TACGATGCAGACCTTTTGAAGAAGAGGTCATCATCAGCTGGTTCGAAAAGGCCTCTAAG
AAATATGTCTCCAAAGAAGCTGCAAAAGAGATTGCTGTCAAAGCAGAACCATTTATAAAA
TGGTTGAAGGAGGAGGAGGAAGAATCTTCTGGTGGCGAAGAAGAAGATGAAGATGAGAAC
ATTGAGGTGGTGTATTGGAAGGCTGCCAGTGTACCGAAAAGTTGAGACTGTAAAGTCAGAC
AACAAAGGATGACGACATCGATATTGATGCCATTAA

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Clone variation with respect to NM\_001969.3



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_001969 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGCCGCTCCTCGCTGC GCTTCGCCTCCGCCTCCTCGGACTCGGACTCGGACTCGGGTTTATATCGCGCCTCACTTC ATCCCAGTCCCGGGCGAGCAGCGTTGGGTTTATGTCTTTATTTGACGAAAACGAGCTGTT GCGCAGCCATTGGTACCTGTATTGGGAAACATAGCATAACAAGCAAGAAGCTTACAGCCT CAGTGGCGAAAAATTTTTTCATGTGAGAGCCGAGAAGCTTGCAGTCGTTTATGTCATCC CTTCTTCTCCAGACAGAAGATACCAAAAAGTTGCAATCAAAGATCTCTTCATCTTATTGA TAAAGCCACTAATAAGCCAAAATGTCTGTCAATGTCAACCGCAGCGTGTGACAGCCAGTTC TATCGCTACAAGATGCCCGTCTGATTGCCAAGGTTGAGGGCAAAGGCAATGGAATCAAG ACAGTTATAGTCAACATGGNTTGACGTTGCAAAGGCGCTTAATCGGCCTCCAACGTATCC CAACCAAAATTTTTGGTTGTGAGCTGGGAGCACAGCCAGTTTGTGTTAAGAATGACC GTTACATTGTCAATGGGATCTCATGAGGCGAATAANGCTGCAGACATGTTGGATGGATTC ATTAATAATTTGTTCTCTGCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATC AAAGAAAGCAACATAGGTAATTCTTGTAAAGCCTGGGCTATCGAGGCATGCTTGAACACT CATAAACTCTGCACATTCATTCTCAAAACCACTGAGAATATNGACCGGGGTCAGGAAGAA AGAAAGAAGAAACCGAGGGGCAGACNNGAATGGGTTTCGTATCACCTGAAACCACCACAC CA
<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_001969 unedited GGCCGCAATCTAGAGTCGAGTTTTTTNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN NNNNNNNNNTTTTTTAAAACGACCAAAAACAAACCTTTATTTTTATACTGGATAAAT GGGAACCAAAATGGGTCCACCACTATTTTTTCAAAAAAAAAACATGCTTTAATAAGCAAAC TACATTTGCTCACTGATGGGTATGGACTCCCTAAATGTCTCATTGGGCTTAATAACAAC CCCTCACAGTAATAAATTTTTAGTGTAAGGGTAACATGATGTTAAACCATTTTACTGTTT TGACATACATGTTGCACTTTTGCTGATAATGGAGGAAAATTTGCAGCATTATACTGGT AAGCTAGGGTGCATCCATCCCTTTAAAGGCATCAATATCGATGGCGCCATCCTTGGTGG CTGACTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_001969
<b>Insert Size:</b>	1880 bp
<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>	<u><a href="#">NM_001969.3</a></u> , <u><a href="#">NP_001960.2</a></u>
<b>RefSeq Size:</b>	5809 bp

RefSeq ORF: 1296 bp

Locus ID: 1983

UniProt ID: [P55010](#)

Cytogenetics: 14q32.32

Domains: eIF2B\_5, eIF5C

**Gene Summary:** Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations (summary by Si et al., 1996 [PubMed 8663286]).[supplied by OMIM, May 2010]  
Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein. 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.