

## Product datasheet for SC117589

### EIF4EBP2 (NM\_004096) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4EBP2 (NM_004096) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4EBP2
Synonyms:	4EBP2; PHASII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004096 edited  
 ATGTCCTCGTCAGCCGGCAGCGGCCACCCAGCCAGAGCCGCGCCATCCCCACCCCG  
 ACCGTGGCCATCAGCGACGCGCCGCGCAGCTACCTCATGACTATTGCACCACGCCCGGGGG  
 ACGCTCTTCTCCACCACCCGGGAGGAACCTCGAATCATTATGACAGAAAGTTTCTGTTG  
 GATCGTCGCAATTCTCCCATGGCTCAGACCCACCCCTGCCACCTGCCAATATCCAGGA  
 GTCAGTACCCCTGGCACCTTAATTGAAGACTCCAAAGTAGAAGTAAACAATTTGAACAAC  
 TTGAACAATCACGACAGGAAACATGCAGTTGGGGATGATGCTCAGTTCGAGATGGACATC  
 TGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004096 unedited  
 NGTAACGGTCAAACATTGTAAACCACTACTAAAGCGCGCCGACATTGCGACGAGGCG  
 GGACGAGGAAAACGGGAGAAGCGAGCGAGGAGCGCGCAGAGCGCGCTTTTCCGTCCGCCT  
 GAGGAGCCGAAGCAGCCCGGCCCGCCGCGCCGCTGCCCGCCGACAAAGCCGAGAG  
 CCCGCGCCACAGCCATGTCTCGTCAGCCGGCAGCGGCCACCCAGCCAGCCAGGCCG  
 GCCATCCCCACCCGACCCGTGGCCATCAGCGACGCGCGCAGCTACCTCATGACTATTGC  
 ACCACGCCCGGGGGACGCTCTTCTCCACCACCCGGGAGGAACCTCGAATCATTATGAC  
 AGAAAGTTTCTGTTGGATCGTCGCAATTCTCCATGGCTCAGACCCACCCCTGCCACCTG  
 CCCAATATCCAGGAGTCACTAGCCCTGGCACCTTAATTGAAGACTCCAAAGTAGAAGTA  
 AACAATTTGAACAATTGAACAATCACGACAGGAAACATGCAGTTGGGGATGATGCTCAG  
 TTCGAGATGGACATCTGACTCTCCTGCAAGGATTAGAAGAAAAGCAGCAACTGATACT  
 TGTGTGCACCTGATTTGGCCAATAGGATCAACAGTGAAAAGACAGAAGAGGCAATACCAG  
 CAGTCCCCATTACAGTCTCCACCTCCCCGTCTTCTCTGGGTGCCAAATGATGGGAAGAT  
 GAGCTTCATCTGACCATTTCTTCTCCCTGTCTCCTGTTCCCTTCCCAGTTAAACCAGGT  
 TAGATTGAAGCCCTTGCTGTATTCTGTAGAGCTAAGCAGCCCTTAGAGGAAAACAGTTC  
 AACTCTGACTTTCCTAGTTGTTTTTTTATTGAGAGCCACCCTCT



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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_004096 unedited TAGAGTCGAGTTTTTTTTTTTTTTTTTTTTACTTTTCTGATTATCAATTTTTTTTGGAGA CTCAAAGCATCCCCAAAACATTGGAGATCCAGCTTATTCTGAGACATCAACCATCACAA AAGTTTTCACTCTGAACATTACATTTTTGTGGCAGAAAACAGAACAAAAGTTCTGCAG ACATCCTTCTCTCTTTCTAAAAATATATTCACAAACAGGGTCTTTTCATAGTTCAAAGA AAAAACAAACAGGTTTCTTTCTTTGGCCAAATGGCCTGTTACTCTCACCTGGGATCTGATT TCTTAATAAAAAAGTTTCAGGGCACCAAAATCCAACCAGAAATCCCAGGACACCAGTGGCT ACTTAACTATGAGGGGATGGATGCTTTTTGTCTTTCTATGAGGGGAATCATTCTCCCGGA TTATTATGCTGCTCAACAGCCCCAGGACAGGTAGGTGGGAAGGAGGGTGAATGCAAAAGC GAAAGGGTACAGAAAAGAATGAGGCTTTCTTGAACAACCCATAGCAAGGCAGAATGGTC CAGTTTTACAACCACCCACTACAACTCCAACATGCACACCCAAAACAGAGGGGGAAG GAAGAGCTCTGGGGGACTAGGGGAAGACAAAGATGTGACCTAGAACAGCAGACTTGCC TATGAAACGTTCTCAACTTCTAACCTGAAGAAGTTAATTAATAAAGTTGCTGTTTCAA AATTGACTGAAACTTTTCTAAAATGGCCGTAGCACATCTTAAAATTAAGGCCACTT CTACAATAGAGGAGGGAACGAATTTCTAAAACCAACCCTTNAAGGTTTCTTGTAGTAAA TTGAAAAAGGGCTTGGCCAAAAAGGACGAATGCAGCGAACAGACCAAGTTGGGAGGTTT GCAAAAATTTACGACCCCGGAGGCCAAAACCTTGGGGAACTTTTTTACCTTGCTTTTC TCCNCCGGCCAAACAAGCGACCACAAGAGAAAAAGCGCCTTTTCTCTAAATTTGGAACAC CCTTAACTAAACAGAACGCGGTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004096
<b>Insert Size:</b>	3000 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_004096.3</a></u> , <u><a href="#">NP_004087.1</a></u>
<b>RefSeq Size:</b>	2782 bp
<b>RefSeq ORF:</b>	363 bp
<b>Locus ID:</b>	1979
<b>UniProt ID:</b>	<u><a href="#">Q13542</a></u>
<b>Cytogenetics:</b>	10q22.1

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a member of the eukaryotic translation initiation factor 4E binding protein family. The gene products of this family bind eIF4E and inhibit translation initiation. However, insulin and other growth factors can release this inhibition via a phosphorylation-dependent disruption of their binding to eIF4E. Regulation of protein production through these gene products have been implicated in cell proliferation, cell differentiation and viral infection. [provided by RefSeq, Oct 2008]