

Product datasheet for SC118908

EIF4E (NM_001968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF4E (NM_001968) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4E
Synonyms:	AUTS19; CBP; eIF-4E; EIF4E1; EIF4EL1; EIF4F
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC118908 sequence for NM_001968 edited (data generated by NextGen Sequencing)

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ATGGCGACTGTCGAACCGAAACCAACCCCTACTCCTAATCCCCCGACTACAGAAGAGGAG
AAAACGGAATCTAATCAGGAGGTTGCTAACCAGAACTATATTAACATCCCCCTACAG
AACAGATGGGCACTCTGGTTTTTAAAAATGATAAAAGCAAACTTGGCAAGCAAACCTG
CGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGGGCTCTGTACAACCATATCCAG
TTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTTTTTAAGGATGGTATTGAGCCT
ATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGGCTAATTACATTGAACAAACAG
CAGAGACGAAGTGACCTCGATCGCTTTTGGCTAGAGACTTCTGTGCCTTATTGGAGAA
TCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTTGTTAATGTTAGAGCTAAAGGT
GATAAGATAGCAATATGGACTACTGAATGTGAAAACAGAGAAGCTGTTACACATATAGGG
AGGGTATACAAGGAAAGTTAGGACTTCCTCAAAGATAGTGATTGGTTATCAGTCCCAC
GCAGACACAGCTACTAAGAGCGGCTCCACCACTAAAAATAGGTTTGTGTTTAA
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Clone variation with respect to NM_001968.3



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001968 unedited GCAATTGTATACGACTACTATAGGGCGGCCGCGAAATTCGCACGAGGTCTGGAGCGGTT GTGCGATCAGATCGATCTAAGATGGCGACTGTGGAACCGGAAACCACCCCTACTCCTAAT CCCCGACTACAGAAGAGGAGAAAACGGAATCTAATCAGGAGGTTGCTAACCCAGAACAC TATATTAACATCCCCTACAGAACAGATGGGCACTCTGGTTTTTAAAAATGATAAAAGC AAAACCTGGCAAGCAAACCTGCGGCTGATCTCCAAGTTTGATACTGTTGAAGACTTTTGG GCTCTGTACAACCATATCCAGTTGTCTAGTAATTTAATGCCTGGCTGTGACTACTCACTT TTTAAGGATGGTATTGAGCCTATGTGGGAAGATGAGAAAAACAAACGGGGAGGACGATGG CTAATTACATTGAACAAACAGCAGAGACGAAGTGACCTCGATCGTTTTTGCTAGAGACA CTTCTGTGCCTTATTGGAGAATCTTTTGATGACTACAGTGATGATGTATGTGGCGCTGTT GTTAATGTTAGAGCTAAAGGTGATAAGATAGCAATATGGACTACTGAATGTGAAAACAGA GAAGCTGTTACACATATAGGGAGGGTACAAGGAAAGGTTAGGACTTCTCCAAAGATA GTGATTGGTTATCAGTCCCACGCAGACACAGCTACTAAGAGCGGCTCCACCACTAAAAAT AGGGTTTGTGTTAAGAAGACACCTTCTGAGTATTCTCATAGGAGACTGCGTCAAGCAA TCGAGATTTGGGAGCTGAACAAAGCCTTTCAAAAAGCAGAGTGACTGCATTTAAAAT TGATTTCCATCTTAATGTACTCAGATATAAGAGAAGTCTCATTGCGCTTTGNNCTGNAC TCTGNGTCATTTTTTTTTTTTTTTTGGCTANATTNCCCTNCCATCAAGAATACAGTCCAT CCCAGATCTAATGTGTTCTGCCACTTGNATA
Restriction Sites:	NotI-NotI
ACCN:	NM_001968
Insert Size:	2500 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).
RefSeq:	NM_001968.2 , NP_001959.1
RefSeq Size:	2493 bp
RefSeq ORF:	654 bp
Locus ID:	1977
UniProt ID:	P06730
Domains:	IF4E
Protein Pathways:	Insulin signaling pathway, mTOR signaling pathway

Gene Summary:

The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (1) encodes the shortest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.