EIF4E cDNA Clone – Eukaryotic Translation Initiation Factor 4e (Human)

PRODUCT OVERVIEW

Product Name	EIF4E, cDNA Clone
Full Product Name	EIF4E cDNA Clone
Product Gene Name	EIF4E cdna clone
Sequence	atggcgactg tcgaaccgga aaccacccct actcctaatc ccccgactac agaagaggag aaaacggaat ctaatcagga ggttgctaac ccagaacact atattaaaca tcccctacag aacagatggg cactctggtt ttttaaaaat gataaaagca aaacttggca agcaaacctg cggctgatct ccaagtttga tactgttgaa gacttttggg ctctgtacaa ccatatccag ctgtctagta atttaatgcc tggctgtgac tactcacttt ttaaggatgg tattgagcct atgtgggaag atgagaaaaa caaacgggga ggacgatggc taattacatt gaacaaacag cagagacgaa gtgacctcaa tcgcttttgg ctagagacac ttctgtgcct tattggagaa tcttttgatg actacagtga tgatgtatgt ggcgctgttg ttaatgttag agctaaaggt gataagatag caatatggac tactgaatgt gaaaacagag aagctgttac acatataggg agggtataca aggaaaggtt aggacttcct ccaaagatag tgattggtta tcagtcccac gcagacacag ctactaagag cggctccacc actaaaaata ggtttgttgt ttaa
Molecular Weight	25,097 Da
Sequence Positions	1-115. Full length.
OMIM	133440
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for EIF4E cdna clone	MBS1266653 is a cDNA clone targeting EIF4E.
Other Notes	Small volumes of EIF4E cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF4E. It may not necessarily be applicable to this product.

NCBI GI #	15214958
NCBI GeneID	1977
NCBI Accession #	BC012611
UniProt Secondary Accession #	Q96E95; B7Z6V1; D6RCQ6
UniProt Related Accession #	P06730
NCBI Official Full Name	Homo sapiens eukaryotic translation initiation factor 4E, mRNA
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E
NCBI Official Symbol	EIF4E
NCBI Official Synonym Symbols	CBP; EIF4F; AUTS19; EIF4E1; eIF-4E; EIF4EL1
UniProt Protein Name	Eukaryotic translation initiation factor 4E
UniProt Synonym Protein Names	eIF-4F 25 kDa subunit; mRNA cap-binding protein
Protein Family	Eukaryotic translation initiation factor

UniProt Gene Name	EIF4E
UniProt Synonym Gene Names	EIF4EL1; EIF4F; eIF-4E; eIF4E
UniProt Entry Name	IF4E_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 4E
NCBI Summary for EIF4E	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]
UniProt Comments for EIF4E	EIF4E: a protein of the eukaryotic initiation factor 4E family. Recognizes and binds the 7-methylguanosine-containing mRNA cap during an early step in the initiation of protein synthesis and facilitates ribosome binding by inducing the unwinding of the mRNAs secondary structures. Phosphorylation increases the ability of the protein to bind to mRNA caps and to form the EIF4F complex. Protein type: Translation; Translation initiation Chromosomal Location of Human Ortholog: 4q23 Cellular Component: cytoplasm; cytosol; eukaryotic translation initiation factor 4F complex; mRNA cap complex; perinuclear region of cytoplasm; stress granule Molecular Function: enzyme binding; eukaryotic initiation factor 4G binding; protein binding; RNA cap binding; translation initiation factor activity Biological Process: G1/S transition of mitotic cell cycle; mRNA export from nucleus; negative regulation of autophagy; poly(A) tail shortening; positive regulation of mitotic cell cycle; regulation of translation; RNA export from nucleus; translational initiation Disease: Autism, Susceptibility To, 19
Research Articles on EIF4E	**1.** This review will present eIF4E's structure and functions. It will also expose the use of eIF4E as a therapeutic target in cancer
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