EIF4EBP2 cDNA Clone – Eukaryotic Translation Initiation Factor 4e Binding Protein 2 (Human)

PRODUCT OVERVIEW

Product Name	EIF4EBP2, cDNA Clone
Full Product Name	EIF4EBP2 cDNA Clone
Product Gene Name	EIF4EBP2 cdna clone
Sequence	atgtcctcgt cagccggcag cggccaccag cccagccaga gccgcgccat ccccacccgc accgtggcca tcagcgacgc cgcgcagcta cctcatgact attgcaccac gcccgggggg acgctcttct ccaccacacc gggaggaact cgaatcattt atgacagaaa gtttctgttg gatcgtcgca attctcccat ggctcagacc ccaccctgcc acctgcccaa tatcccagga gtcactagcc ctggcacctt aattgaagac tccaaagtag aagtaaacaa tttgaacaac ttgaacaatc acgacaggaa acatgcagtt ggggatgatg ctcagttcga gatggacatc tga
Molecular Weight	12,939 Da
OMIM	602224
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 EIF4EBP2 cdna clone	MBS1271203 is a cDNA clone targeting EIF4EBP2.
Other Notes	Small volumes of EIF4EBP2 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 EIF4EBP2. It may not necessarily be applicable to this product.

NCBI GI #	13477190
NCBI GeneID	1979
NCBI Accession #	BC005057
UniProt Related Accession #	Q13542
NCBI Official Full Name	Homo sapiens eukaryotic translation initiation factor 4E binding protein 2, mRNA
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E binding protein 2
NCBI Official Symbol	EIF4EBP2
NCBI Official Synonym Symbols	4EBP2; PHASII
UniProt Protein Name	Eukaryotic translation initiation factor 4E-binding protein 2
Protein Family	Eukaryotic translation initiation factor 4E-binding protein
UniProt Gene Name	EIF4EBP2
UniProt Synonym Gene Names	eIF4E-binding protein 2
UniProt Entry Name	4EBP2_HUMAN
NCBI Protein Information	eukaryotic translation initiation factor 4E-binding protein 2

NCBI Summary for EIF4EBP2	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]
UniProt Comments for EIF4EBP2	4E-BP2: eukaryotic translation initiation factor 4E binding protein 2 Protein type: Translation initiation; Translation Chromosomal Location of Human Ortholog: 10q21-q22 Cellular Component: cytoplasm Molecular Function: eukaryotic initiation factor 4E binding; protein binding; translation repressor activity Biological Process: memory; negative regulation of translational initiation; regulation of synaptic plasticity; regulation of synaptic transmission; social behavior; TOR signaling pathway; translation
Research Articles on EIF4EBP2	**1.** results highlight stabilization of a phosphorylation-induced fold as the essential mechanism for phospho-regulation of the 4E-BP:eIF4E interaction and exemplify a new mode of biological regulation mediated by intrinsically disordered proteins
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