

Product datasheet for **RC204788**

EIF3E (NM_001568) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3E (NM_001568) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF3E
Synonyms:	eIF3-p46; EIF3-P48; EIF3S6; INT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC204788 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGAGTACGACTTGACTACTCGCATCGCGCACTTTTTGGATCGGCATCTAGTCTTTCCGCTTCTTG
AATTTCTCTCTGTAAAGGAGATATAAATGAAAAGGAATTATTACAAGGTAATTTGGACCTTCTTAGTGA
TACCAACATGGTAGACTTTGCTATGGATGTATACAAAAACCTTTATTCTGATGATATTCCTCATGCTTTG
AGAGAGAAAAGAACCACAGTGGTTGCACAACGAAACAGCTTCAGGCAGAAAACAGAACCAATTGTGAAGA
TGTTTTGAAGATCCAGAACTACAAGGCAATGCAGTCAACCAGGGATGGTAGGATGCTCTTTGACTACCT
GGCGGACAAGCATGGTTTTAGGCAGGAATTTAGATACACTCTACAGATATGCAAAATCCAGTACGAA
TGTGGGAATTACTCAGGAGCAGCAGAATATCTTTATTTTTTTAGAGTGTGGTCCAGCAACAGATAGAA
ATGCTTTAAGTTCCTCTGGGAAAGCTGGCCTCTGAAATCTTAATGCAGAATGGGATGCAGTCTGGA
AGACCTTACACGGTTAAAAGAGACCATAGATAAATTTCTGTGAGTTCTCCACTTCAGTCTTTCAGCAG
AGAACATGGCTCATTCACTGGTCTCTGTTTGTCTTCAATCACCCAAAGGTCGCGATAATATTATTG
ACCTCTTCTTTATCAGCCACAATATCTTAATGCAATTGAGCAATGTGTCCACACATTCTTCGCTATTT
GACTACAGCAGTCATAACAAACAAGGATGTTCCGAAACGTCGGCAGGTTCTAAAAGATCTAGTTAAAGTT
ATTC AACAGGAGTCTTACACATAAAGACCCAATTACAGAAATTTGTTGAATGTTTATATGTTAACTTTG
ACTTTGATGGGGCTCAGAAAAAGCTGAGGGAATGTGAATCAGTGTGTTGTAATGACTTCTTCTTGGTGGC
TTGTCTTGAGGATTTCAATGAAAATGCCGCTCTTTCATATTTGAGACTTCTGTGCGATCCACCAGTGT
ATCAGCATTAAACATGTTGGCAGATAAATGAACATGACTCCAGAAGAAGCTGAAAGGTGGATTGTAATTT
TGATTAGAAATGCAAGACTGGATGCCAAGATTGATTCTAAATAGGTCATGTGGTTATGGGTAACAAATGC
AGTCTCACCCATACAGCAAGTGATTGAAAAGACCAAAAAGCCTTTCTTTTAGAAGCCAGATGTTGGCCATG
AATATTGAGAAGAACTTAATCAGAATAGCAGGTGAGGCTCCTAACTGGGCAACTCAAGATTCTGGCT
TCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204788 protein sequence
Red=Cloning site Green=Tags(s)

MAEYDLTTRIAHFLDRHLVFPLLEFLSVKEIYNEKELLQGKLDLLSDTNMVFAMDVYKNLYSDDIPHAL
REKRTTVVAQLKQLQAETEPIVKMFEDPETTRQMQSTRDGRMLFDYLADKHGFRQYELDTLYRYAKFOYE
CGNYSGAAEYL YFFRVLVPATDRNALSSLWGKLASEILMQNWDVAVMEDLTRLKETIDNNSVSSPLQSLQQ
RTWL IHWLSLFVFFNHPKGRDNIIDFLYQPQYLNAIQTMCPHILRYLTTAVITNKDVRKRRQVLKDLVKV
IQQESYTYKDPITEFVECLYVNFDFDGAQKKLRECESVLVNDFFLVACLEDFIENARLFIETFCRIHQ
ISINMLADKLNMTPEEAERWIVNLIRNARLDAKIDSKLGHVVMGNNAVSPYQQVIEKTKSLSFRSMLAM
NIEKKLNQNSRSEAPNWTQDSGFY

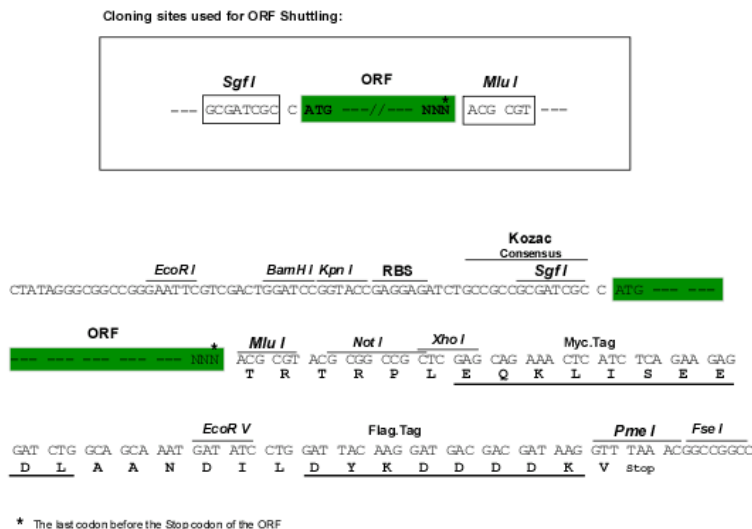
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6068_g12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001568

ORF Size: 1335 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_001568.3](#)

RefSeq Size: 1516 bp

RefSeq ORF: 1338 bp

Locus ID: 3646

UniProt ID: [P60228](#)

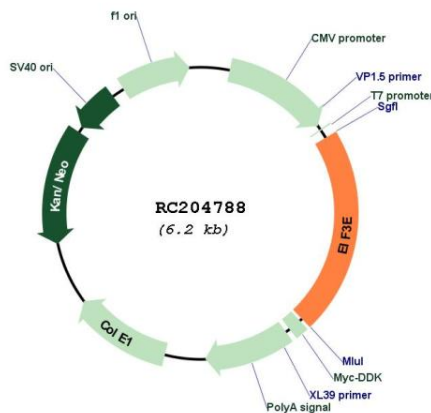
Cytogenetics: 8q23.1

Domains: PCI

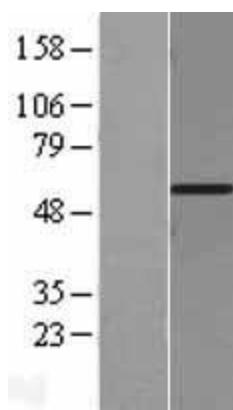
MW: 52.2 kDa

Gene Summary: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAⁱ and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773). Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway (PubMed:17468741). May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins (PubMed:17310990, PubMed:17324924).[UniProtKB/Swiss-Prot Function]

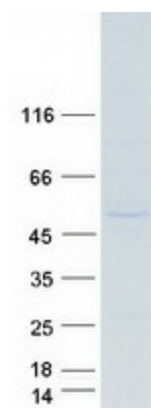
Product images:



Circular map for RC204788



Western blot validation of overexpression lysate (Cat# [LY400602]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204788 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF3E protein (Cat# [TP304788]). The protein was produced from HEK293T cells transfected with EIF3E cDNA clone (Cat# RC204788) using MegaTran 2.0 (Cat# [TT210002]).