OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC201740

EIF3F (NM_003754) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3F (NM_003754) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF3F
Synonyms:	eIF3-p47; EIF3S5; MRT67
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201740 representing NM_003754
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACACCGGCGGTACCAGTAAGTGCTCCTCCGGCCACGCCAACCCCAGTCCCGGCGGCGGCCCCAG
CCTCAGTTCCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTTCCCGCTGCGGCTCCAGCCTCATCCTC
AGACCCTGCGGCAGCAGCGGCTGCAACTGCGGCTCCTGGCCAGACCCCGGCCTCAGCGCAAGCTCCAGCG
CAGACCCCAGCGCCCGCTCTGCCTGGTCCTGCTCTTCCAGGGCCCTTCCCCGGCGGCCGCGTGGTCAGGC
TGCACCCAGTCATTTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTGCTGCCCGAGTTAT
CGGGACCCTGTTGGGAACTGTCGACAAACACTCAGTGGAGGTCACCAATTGCTTTTCAGTGCCGCACAAT
GAGTCAGAAGATGAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAACTGCATAAAAAAGTTT
CTCCAAATGAGCTCATCCTGGGCTGGTACGCTACGGGCCATGACATCACAGAGCACTCTGTGCTGATCCA
TGAGTACTACAGCCGAGAGGCCCCCAACCCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGC
ATGAGCATCAAAGCCTACGTCAGCACTTTAATGGGAGTCCCTGGGAGGACCATGGGAGTGATGTTCACGC
CTCTGACAGTGAAATACGCGTACTACGACACTGAACGCATCGGAGTTGACCTGATCATGAAGACCTGCTT
TAGCCCCAACAGAGTGATTGGACTCTCAAGTGACTTGCAGCAAGTAGGAGGGGCATCAGCTCGCATCCAG
GATGCCCTGAGTACAGTGTTGCAATATGCAGAGGATGTACTGTCTGGAAAGGTGTCAGCTGACAATACTG
TGGGCCGCTTCCTGATGAGCCTGGTTAACCAAGTACCGAAAATAGTTCCCGATGACTTTGAGACCATGCT
CAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACACAGTCACAGATTGCACTC
AATGAAAAACTTGTAAACCTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC201740 representing NM_003754
Red=Cloning site Green=Tags(s)

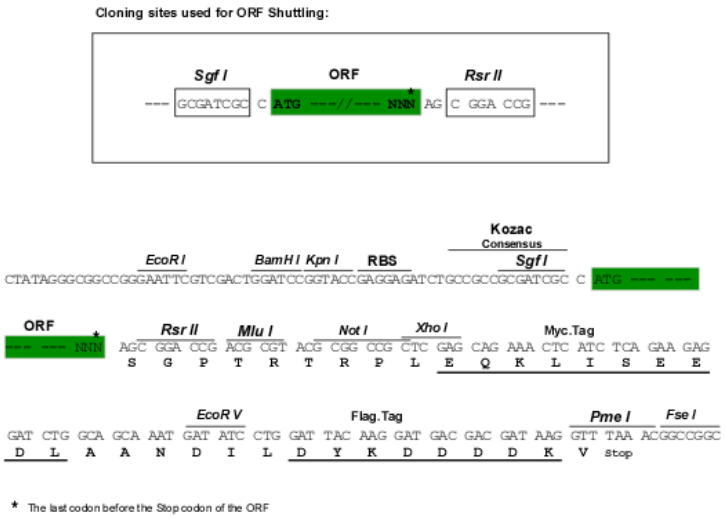
MATPAVPVSAPPATPTPVPAAAPASVPAPTPAPAAAPVPAAAPASSSDPAAAAAATAAPGQTPASAQAPA
QTPAPALPGPALPGPFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFSVPHN
ESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGR
MSIKAYVSTLMGVPGRTMGVMFTPLTVKYAYYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQ
DALSTVLQYAEDVLSGKVSADNTVGRFLMSLVNQVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIAL
NEKLVNL

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2847_c05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_003754

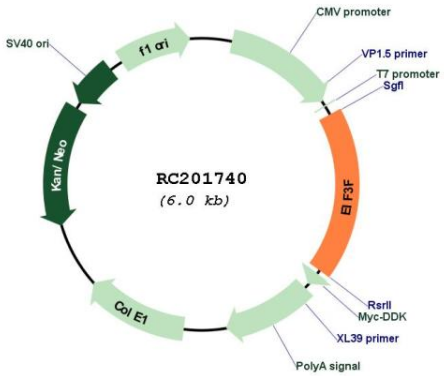
ORF Size: 1071 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

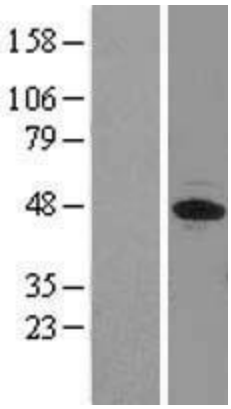
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003754.1, NP_003745.1
RefSeq Size:	1274 bp
RefSeq ORF:	1074 bp
Locus ID:	8665
UniProt ID:	O00303
Cytogenetics:	11p15.4
Domains:	JAB_MPN
Protein Families:	Druggable Genome
MW:	37.4 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).[UniProtKB/Swiss-Prot Function]

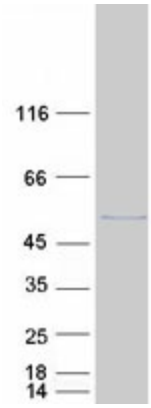
Product images:



Circular map for RC201740



Western blot validation of overexpression lysate (Cat# [LY418450]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201740 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF3F protein (Cat# [TP301740]). The protein was produced from HEK293T cells transfected with EIF3F cDNA clone (Cat# RC201740) using MegaTran 2.0 (Cat# [TT210002]).