

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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACACCGCGGTACCAAGTAAAGTCTCTCCGGCCACGCCAACCCAGTCCCGGCGGGCCCCAG
CCTCAGTTCAGCGCCAACGCCAGCACCGGCTGCGGCTCCGGTCCCGCTGCGGCTCCAGCCTATCCTC
AGACCTGCGGCAGCAGCGGCTGCAACTGCGGCTCCTGGCCAGACCCCGGCTCAGCGCAAGCTCCAGCG
CAGACCCAGCGCCCGCTCTGCCTGGTCTGCTTCCAGGGCCCTCCCGCGGCCCGGTGGTCAGGC
TGCACCCAGTCATTTGGCCTCCATTGTGGACAGCTACGAGAGACGCAACGAGGGTCTGCCGAGTTAT
CGGGACCTGTTGGAACTGTCGACAAACTCAGTGGAGGTACCAATTGCTTTTCAGTGCCGCACAAT
GAGTCAGAAGATGAAGTGGCTGTTGACATGGAATTTGCTAAGAATATGTATGAACTGCATAAAAAAGTTT
CTCCAAATGAGCTCATCCTGGGCTGGTACGCTACGGGCCATGACATCACAGAGCACTCTGTGCTGATCCA
TGAGTACTACAGCCGAGAGGCCCAACCCATCCACCTCACTGTGGACACAAGTCTCCAGAACGGCCGC
ATGAGCATCAAAGCCTACGTACGACTTTAATGGGAGTCCCTGGGAGGACCATGGGAGTGATGTTACGC
CTCTGACAGTGAATACGCGTACTACGACTGAACGCATCGGAGTTGACCTGATCATGAAGACCTGCTT
TAGCCCCAACAGAGTGATTGGACTCTCAAGTGACTTGCAGCAAGTAGGAGGGGCATCAGCTCGCATCCAG
GATGCCCTGAGTACAGTGTGCAATATGCAGAGGATGTACTGTCTGAAAGGTGTCAGTGACAATACTG
TGGCCGCTTCTGATGAGCCTGGTTAAACCAAGTACCGAAAATAGTTCCCGATGACTTTGAGACCATGCT
CAACAGCAACATCAATGACCTTTTGATGGTGACCTACCTGGCCAACCTCACACAGTCACAGATTGCACTC
AATGAAAACTTGTAACCTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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

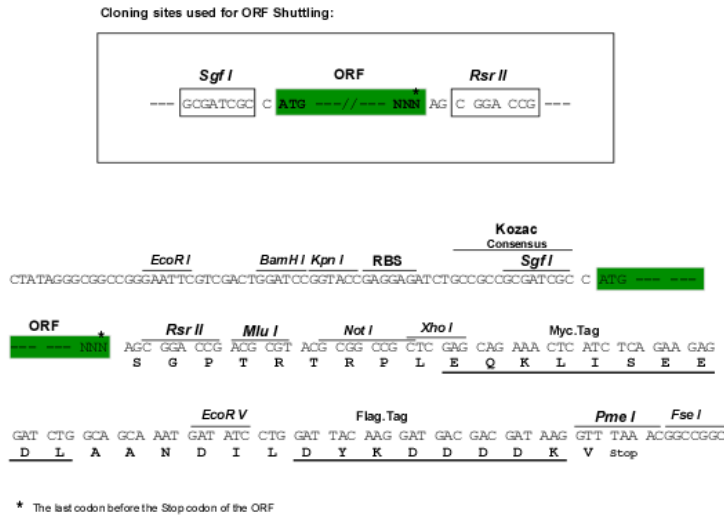
MATPAVVSAPPATPTVPAAAPASVPAPTAPAAAPVPAAPASSSDPAAAAAATAAPGQTPASAQAPA
 QTPAPALPGPALPGPFPGRRVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFVPHN
 ESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGR
 MSIKAYVSTLMGVPGRTMGVMFTPLTVKYAYYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQ
 DALSTVLQYAEVDLSGKVSADNTVGRFLMSLVNQVPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIAL
 NEKLVNL

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_003754

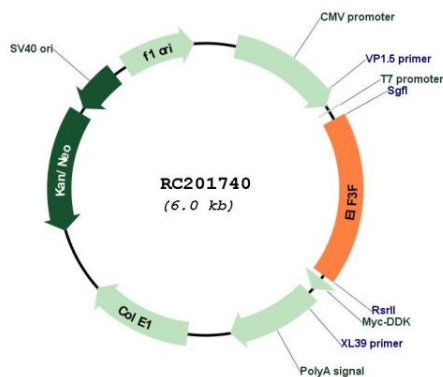
ORF Size: 1071 bp

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.

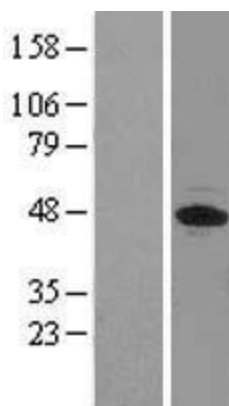
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<ol style="list-style-type: none">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_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-tRNA ⁱ 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 untransfected 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]).