

Product datasheet for RC201767

EIF3S3 (EIF3H) (NM_003756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF3S3 (EIF3H) (NM_003756) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF3S3
Synonyms:	eIF3-gamma; eIF3-p40; EIF3S3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201767 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCGTCCCGAAGGAAGGTACCGGCTCTACTGCCACCTCTTCCAGCTCCACCGCCGGCGCAGCAGGGA
AAGGCAAAGGCAAAGGCGGCTCGGGAGATTAGCCGTGAAGCAAGTGCAGATAGATGGCCTTGTGGTATT
AAAGATAATCAACATTATCAAGAAGAAGGACAAGGAAGTGAAGTTGTTCAAGGAGTGCTTTGGGCTG
GTTGTAGAAGATCGGCTTGAATACCAACTGCTTTCCCTCCCTCAGCACACAGAGGATGATGCTGACT
TTGATGAAGTCCAATATCAGATGGAATGATGCGGAGCCTTCGCCATGTAACATTGATCATCTTCACGT
GGGCTGGTATCAGTCCACATACTATGGCTCATTGTTACCGGGCACTCCTGGACTCTCAGTTTAGTTAC
CAGCATGCCATTGAAGAATCTGTCTGTTCTATTTATGATCCCATAAAAACTGCCAAGGATCTCTCTCAC
TAAAGGCATACAGACTGACTCCTAAACTGATGGAAGTTTGTAAAGAAAAGGATTTTTCCCTGAAGCATT
GAAAAAGCAAATATCACCTTTGAGTACATGTTTGAAGAAGTGCCGATTGTAATTAATAATTCACATCTG
ATCAATGTCCTAATGTGGGAAGTGAAGAAGTCAAGTCAAGTGAATGCTCAGCCTTG
CCAGCAGCAATCATTTGGGAAGAATCTACAGTTGCTGATGGACAGAGTGGATGAAATGAGCCAAGATAT
AGTTAAATACAACACATACATGAGGAATACTAGTAAACAACAGCAGCAGAAACATCAGTATCAGCAGCGT
CGCCAGCAGGAGAATATGCAGCGCCAGAGCCGAGGAGAACCCTCCCTGAGGAGGACTGTCCAAAC
TCTTCAAACCACAGCCGCTGCCAGGATGGACTCGCTCATTGCAGGCCAGATAAAACACTTACTG
CCAGAACATCAAGGAGTTCACTGCCAAAACCTAGGCAAGCTCTTCATGGCCAGGCTCTTCAAGAATAC
AACAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201767 protein sequence
 Red=Cloning site Green=Tags(s)

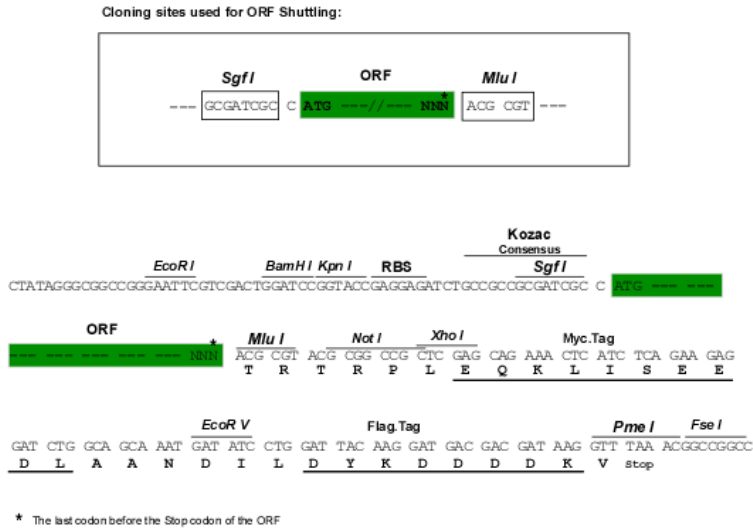
MASRKEGTGSTATSSSSTAGAAGKKGKGGSGDSAVKQVQIDGLVVLKIIKHYQEEGGTEVVQGVLLGL
 VVEDRLEITNCFPFPHQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSY
 QHAIEESVLLIYDPIKTAQGLSLKAYRLTPKLMVCKEKDF SPEALKKANITFEYMFEEVPIVIKNSHL
 INVLMWELEKKS AVADKHELLSLASSNHLGKNLQLLMDRVDEMSQDIVKYNTYMRNTSKQQQKHQYQQR
 RQQENMQRQSRGEPPLPEEDLSKLFKPPQPPARMDSLLIAGQINTYCNIKEFTAQN LGKLFMAQALQEY
 NN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6125_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003756

ORF Size: 1056 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_003756.3](#)

RefSeq Size: 1286 bp

RefSeq ORF: 1059 bp

Locus ID: 8667

UniProt ID: [O15372](#)

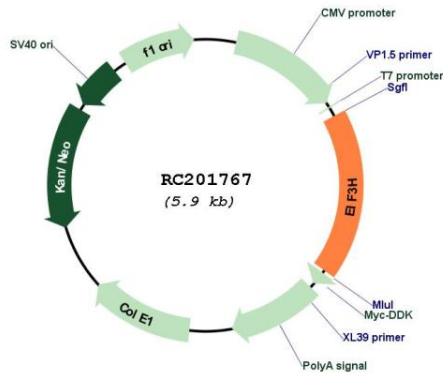
Cytogenetics: 8q23.3-q24.11

Domains: JAB_MPN

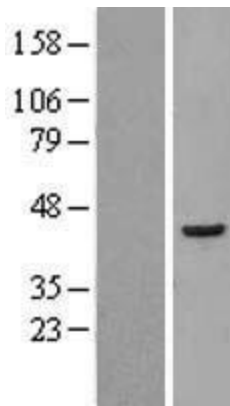
MW: 39.9 kDa

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]

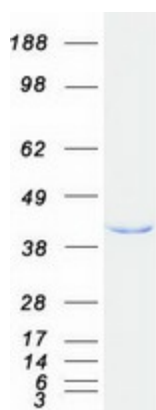
Product images:



Circular map for RC201767



Western blot validation of overexpression lysate (Cat# [LY401234]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201767 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF3H protein (Cat# [TP301767]). The protein was produced from HEK293T cells transfected with EIF3H cDNA clone (Cat# RC201767) using MegaTran 2.0 (Cat# [TT210002]).