

Product datasheet for **RC206301**

EIF5 (NM_001969) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5 (NM_001969) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF5
Synonyms:	EIF-5; EIF-5A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206301 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGTCAATGTCAACCCGAGCGTGTGACACCAGTTCTATCGTACAAGATGCCCCGTCTGATTGCCA
 AGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGGCGCTTAA
 TCGGCCTCCAACGTATCCACCAAAATTTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG
 AATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTGTTA
 AAAAATTTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAAC
 AATAGGTAATTTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTC
 ATTCTCAAAAACCCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAAGAAAAGAAAAGAAAACAGAA
 AGGGCAAAGACAAGGAAAATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCAATGA
 AATTAATCCTCCTCCACATACAATGGAAGAAGAGGAGGATGATGACTGGGGAGAAGATACAACCTGAGGAA
 GCTCAAAGGCGTCGAATGGATGAAATCAGTGACCATGCAAAAAGTTCTGACTCAGTGATGATTTGGAAA
 GAACAATTGAGGAGAGGGTCAATATCCTCTTTGATTTTGTAAAGAAAAGAAAAGAGAGGGTGTATTGA
 TTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGACTGGATGTAAAAGCCATGGGCCCTCTTGTCTA
 ACTGAAGTTCTTTTTAATGAGAAGATTAGAGAAGATTAAGAAATACAGGCGCCATTTCTACGATTTT
 GTCACAACAACAAAAAGCCAAACGGTACCTTCTTCATGGTTTGGAGTGTGTGGTAGCAATGCATCAAGC
 TCAGCTTATCTCCAAGATTCCACATATCTGAAGGAGATGTACGATGCAGACCTTTTAGAAGAAGAGGTC
 ATCATCAGCTGGTCGAAAAGGCCTCTAAGAAATATGTCTCCAAGAAGTTGCCAAAGAGATTCGTGTCA
 AAGCAGAACCATTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAAGAAGATGA
 AGATGAGAACATTGAGGTGGTGTATTCTGAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAGTCAGAC
 AACAAGGATGACGACATCGATATTGATGCCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206301 protein sequence
 Red=Cloning site Green=Tags(s)

MSVNVNRSVSDQFYRYKMPRLIAKVEGKNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK
 NDRYIVNGSHEANKLQDMLDGFIKKFVLCPEENPETDLHVNPKKQITIGNSKACGYRGMLDTHHKLCTF
 ILKNPPENS DSGTGKKEKEKKNRKGDKENGVS SSETPPPPPPNEINPPPHMEEEEEDDWDGDTTEE
 AQRRRMDEISDHAKVLTLSDDLERTIEERVNILFDVVKKKKEGVIDSSDKEIVAEERLDVKAMGPLVL
 TEVLFNEKIREQIKKYRRHFLRFCHNNKAKRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV
 IISWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEDDENIEVVYSKAASVPKVETVKSD
 NKDDIDIDAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6534_c02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001969

ORF Size: 1293 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_001969.5](#)

RefSeq Size: 5963 bp

RefSeq ORF: 1296 bp

Locus ID: 1983

UniProt ID: [P55010](#)

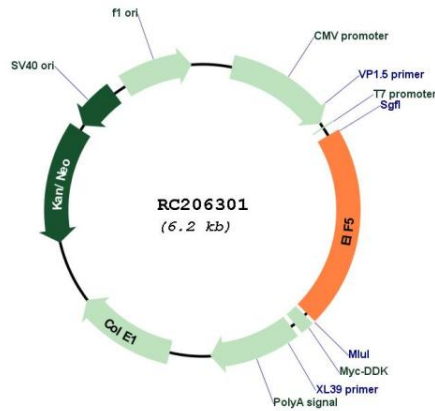
Cytogenetics: 14q32.32

Domains: eIF2B_5, eIF5C

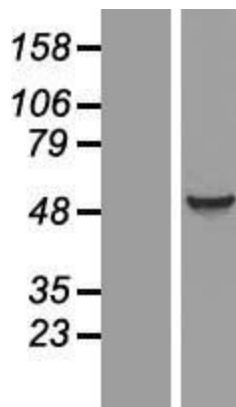
MW: 49.2 kDa

Gene Summary: Eukaryotic translation initiation factor-5 (EIF5) interacts with the 40S initiation complex to promote hydrolysis of bound GTP with concomitant joining of the 60S ribosomal subunit to the 40S initiation complex. The resulting functional 80S ribosomal initiation complex is then active in peptidyl transfer and chain elongations (summary by Si et al., 1996 [PubMed 8663286]).[supplied by OMIM, May 2010]

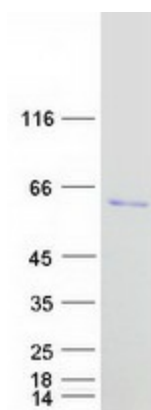
Product images:



Circular map for RC206301



Western blot validation of overexpression lysate (Cat# [LY405302]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC213587] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EIF5 protein (Cat# [TP306301]). The protein was produced from HEK293T cells transfected with EIF5 cDNA clone (Cat# RC206301) using MegaTran 2.0 (Cat# [TT210002]).