

## Product datasheet for **RC213587**

### EIF5 (NM\_183004) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF5 (NM_183004) 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:**

>RC213587 representing NM\_183004  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTCTGTCAATGTCAACCCGAGCGTGTACAGACCAGTTCTATCGTACAAGATGCCCCGTCTGATTGCCA  
 AGGTTGAGGGCAAAGGCAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGGCGCTTAA  
 TCGGCCTCCAACGTATCCACCAAAATTTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG  
 AATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTACATTA  
 AAAAAATTTGTTCTCTGTCTGAATGTGAGAATCCTGAAACAGATTTGCATGTCAATCCAAAGAAGCAAAC  
 AATAGGTAATTCTTGTAAAGCCTGTGGCTATCGAGGCATGCTTGACACACATCATAAACTCTGCACATTC  
 ATTCTCAAAAACCCACCTGAGAATAGTGACAGTGGTACAGGAAAGAAAAGAAAAGAAAAGAAAACAGAA  
 AGGGCAAAGACAAGGAAAATGGCTCCGTATCCAGCAGTGAGACACCACCACCACCACCACCAATGA  
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 GAACAATTGAGGAGAGGGTCAATATCCTCTTTGATTTTGTAAAGAAAAGAAAAGAGAGGGTGTATTGA  
 TTCATCTGACAAAGAAATCGTTGCTGAAGCAGAAAGACTGGATGTAAAAGCCATGGGCCCTCTTGTCTA  
 ACTGAAGTTCTTTTTAATGAGAAGATTAGAGAACAGATTAAGAAATACAGGCGCCATTTCTACGATTTT  
 GTCACAACAACAAAAAGCCCAACGGTACCTTCTTCATGGTTTGGAGTGTGTGGTAGCAATGCATCAAGC  
 TCAGCTTATCTCCAAGATTCCACATATCTGAAGGAGATGTACGATGCAGACCTTTTAGAAGAAGAGGTC  
 ATCATCAGCTGGTCGAAAAGGCCTCTAAGAAATATGTCTCCAAGAACTTGCCAAGAGATTCGTGTCA  
 AAGCAGAACCATTATAAAATGGTTGAAGGAGGCAGAGGAAGAATCTTCTGGTGGCGAAGAAGAAGATGA  
 AGATGAGAACATTGAGGTGGTGTATTCAAGGCTGCCAGTGTACCGAAAGTTGAGACTGTAAGTCAGAC  
 AACAAGGATGACGACATCGATATTGATGCCATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC213587 representing NM\_183004  
 Red=Cloning site Green=Tags(s)

MSVNVNRSVSDQFYRYKMPRLIAKVEGKNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK  
 NDRYIVNGSHEANKLQDMLDGFIKKFVLCPEENPETDLHVNPKKQITIGNSKACGYRGMLDTHHKLCTF  
 ILKNPPENS DSGTGKKEKEKKNRKGDKENGVS SSETPPPPPPNEINPPPHTEEEEEDDWGEDTTEE  
 AQRRRMDEISDHAKVLTLSDDLERTIEERVNILFDVKKKKEEGVIDSSDKEIVAEERLDVKAMGPLVL  
 TEVLFNEKIREQIKKYRRHFLRFCHNNKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEV  
 IISWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEDENIEVVYSKAASVPKVETVKSD  
 NKDDIDIDAI

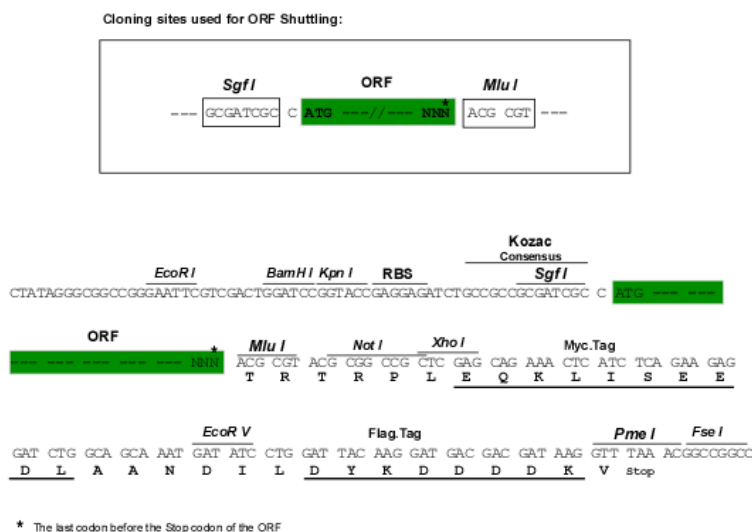
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6534\\_c02.zip](https://cdn.origene.com/chromatograms/mk6534_c02.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_183004

**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\\_183004.5](#)
**RefSeq Size:** 5782 bp

**RefSeq ORF:** 1296 bp

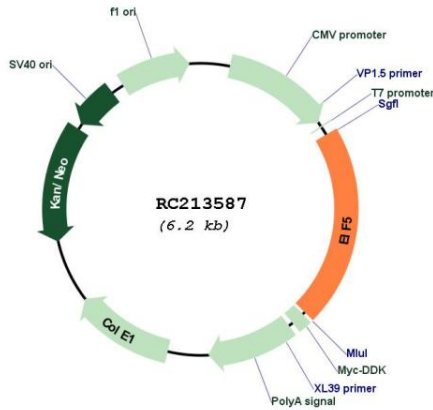
**Locus ID:** 1983

**UniProt ID:** [P55010](#)
**Cytogenetics:** 14q32.32

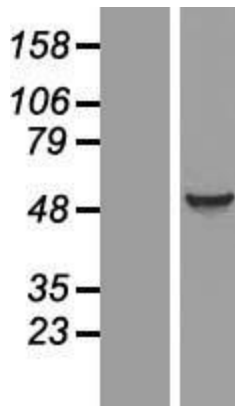
**MW:** 49 kDa

**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 RC213587



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]).