

Product datasheet for **RN202016**

Eif2d (NM_001017489) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2d (NM_001017489) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif2d
Synonyms:	Lgtn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN202016 representing NM_001017489
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTCGCTAAGGCCTTTTCGGGTCAGTCCAACACAGCCATCAAGGGATCGGACAGGAGAAAACCTTCGGG
 CCGATGTGACAGTTGCTTTCCACCCCTCGGAACAGATCAGGTCTCTGAATTGATCCCTGGAAGGAAGA
 ACTAAACGTTGTGAAGTTGTACGCTCACAAAGGGGATGCAGTGACTGTGTACACGAGTGGTGGTAACCCC
 ATCCTATTTGAAGTGGAGAAAACTTGTATCCAACAGTGTACACACTGTGGTCCCATCCTGATCTTCTAC
 CAGCCTTTATAACATGGCCTCTGGTACTCGAAAACTGGTCGGGGGAGCAGATTTGATGCTGCCCGGGT
 AGTGGTCCCCCTACTGGTCTGCCTCAGGTACAGCAAGGCGACCTCTGCGCCATTGCCTTGGTGGGAAC
 AGAGCGCCCGTTGCAGTCGGAGTAGCTGCCATGTCCACAGCTCAGATGCTGGCTTCAGGCCTGAAGGGAA
 AAGGCATCTCTGTCTCCACACTTATCAGGACCACTTGTGGAGATCTGGAGACAAGTCTCTCCACCTGC
 CATTGCCCACTGGATCCACAGATAGCTGCGAAGAGAAGGCGGACCTTGGTCTGCACGGAAACCTGAGG
 AGTCTGAGCCTGGAAGGAGAAGAGGAAAATGGGCAGGTTCTTAACCCAGAAAGCCTCTGATGACCCCACT
 CCAGGGCCCTGAGCCAGGACTCCGTGGATGGCAAGCCCTTCAGGAGCAATGGATGAGCTGTTAGAGCA
 GTGCTTCTGCATGCTTTGAAGAGTCGAGTCAAAAAAGCTGACCTCCCTTGGTCCACAGCACGCTCCTT
 GGCAGTCACATGTTCTCCTGCTGTCTGAAGGACAGCAACTGGATATAAAGAAGTCAAGCTATAAAAAAGC
 TCTCTAAGTTCCTGCAGCACATGCAGCAGGAGCAGATTGTCCAAGTCAAGGAGCTGAGCAAGGGGTGGA
 GAGCATTGTGGCTGTAGACTGGAGGCACCCGAGGATCACATCCTTCATCGTCCCCGAGCCGTCCTGGCT
 TCCAGACTGTCCAGGAAGGTAGCAGGGAAAAGCCCTATCTCCCTCCAGATATAAAATCCCTCTACTGCG
 TCCCTGCCAACATGACCCAGCTTCTCCTGGAGTCTGGCCACAAGAAGGGGAGCACCTCGAGGGCAGTGA
 GGTCGGAAGGATCATCACTGACTATGCCAAGAGAAACAACCTGGTGGATGCAGACAACAGGAATCTGGTG
 AAGTTGGATCCCATCTTATGTGACTGTATCTTAGAGAAAATGAGCAGCACTGGTTCATGAAGCTCCGT
 GGGACTCTCCTGACCAGGTGTTTAAAAATCTGCAGCCTGCCTACCAAGTGCATTTCTGGCCAGGA
 ACCCATTATAAAGAAAGGAAAACCTGTCCAATTGATATCACCTTGTACTGAAGACTTATAATAAAAAAG
 GTGACTGTGGTCCGAACTTGGAGACCTATGGTCTAGATCCATGCTCAGTGGCCGCCATTCTCCAGCAGC
 GATGTCAGGCCAGCACCATCGTCTCTCCTGCCCTGGGGCCAAAGATAGTCTGCAGGTGCAGGTCCAGGG
 AAACCAGATCCACCACCTCGGCCAGCTATTGCTTGAAGAGTATCGGCTCCCTGAAAATACATCCAAGGC
 CTAGAAAAGGCCCCCAACCTGGCAAGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001017489
- Insert Size:** 1713 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:	<u>NM_001017489.1</u> , <u>NP_001017489.1</u>
RefSeq Size:	2040 bp
RefSeq ORF:	1713 bp
Locus ID:	498225
UniProt ID:	<u>Q5PPG7</u>
Cytogenetics:	13q13
Gene Summary:	Translation initiation factor that is able to deliver tRNA to the P-site of the eukaryotic ribosome in a GTP-independent manner. The binding of Met-tRNA(I) occurs after the AUG codon finds its position in the P-site of 40S ribosomes, the situation that takes place during initiation complex formation on some specific RNAs. Its activity in tRNA binding with 40S subunits does not require the presence of the aminoacyl moiety. Possesses the unique ability to deliver non-Met (elongator) tRNAs into the P-site of the 40S subunit. In addition to its role in initiation, can promote release of deacylated tRNA and mRNA from recycled 40S subunits following ABCE1-mediated dissociation of post-termination ribosomal complexes into subunits (By similarity).[UniProtKB/Swiss-Prot Function]