

Product datasheet for **RN209576**

Eif4g2 (NM_001017374) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4g2 (NM_001017374) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Eif4g2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN209576 representing NM_001017374
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

GTGGAGAGTGCATTGCAGAAGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGGG
 GTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCTTGGGAAAACCCAGGGCAAACGC
 TCAGAAATGGATTCTGCACGAAGCACTAGACGAGATGACAACCTCCGACGAAACAACCTCCGAAATGAA
 AAAGAACGACATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCTGAAAAGTTTG
 ACAAGCTATGCCTTGAGCTCCTCAATGTGGGTGTAGAGTCTAACTCATCCTTAAAGGGTCTACTGCT
 GATTGTGGACAAAGCCCTAGAAGAGCCAAAGTATAGTCACTGTATGCTCAGCTATGCTGCGATTGGCA
 GAAGATGCACAAACTTTGATGGCCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACAACATTCA
 GACGCTCTTGATTTCAAATGCAAGATGAATTTGAAAACCGAACAGAAATGTTGATGTCTATGATAA
 GCGTGAATAATCCCTCCTCCCTGAGGAGGAGAACAGAGAGCCATTGCTAAGATCAAGATGTTGGGGAAC
 ATCAAATTCATTGGAGAACTTGGCAAGCTTGATCTTATTCATGAATCTATCCTTCATAAGTGCATCAAAA
 CACTTTTGGAAAAGAAGAAGAGAGTCCAACCAAGATATGGGAGAGGATTTGGAGTGCCTCTGTAGAT
 AATGAGGACAGTGGACCTCGATTAGACCATGAACGAGCCAAGTCTTAATGGATCAGTACTTTGCCAGA
 ATGTGTTCTTAATGTTAAGTAAGGAATTGCCAGCCAGGATTCGTTTCTACTGCAGGATACCGTAGAGT
 TGCGAGAGCACCATTGGGTTCTCGAAGGCTTTTCTTGACAATGGACCAAGACGATCAATCAAATCCG
 TCAAGATGCAGTAAAAGATCTAGGAGTGTATTCCTGCTCCTATGGCTCAAGGGAGGAATGACTTCTTC
 CTGGAGGGACCGTTCATGCCCAAGGATGAAAATGGATAGGGACCCACTTGGGGGACTCGCTGATATGT
 TTGGACAAATGCCAGGTAGTGGAAATGGTACTGGTCCAGGATTTACAGGATAGATTTTCAACCAAT
 GGGACGTCATCGTTCAAATCAGCTCTTCAATGGCCATGGGGGACACATCATGCCTCCACGCAATCGCAG
 TTTGGAGAGATGGGGGCAAGTTTATGAAAAGCCAGGGGTAAGCCAGCTCTACCATAACCAAGAGTCAGG
 GACTCTTATCCCAGTGAAGGACAGTGAAGGATATGCCACCTCGGTTTTCTAAGAAAAGGACAGCTTAA
 TGCAGATGAGATTAGTTTGGGCTGCTCAGTCGTTTCTAATGAATAAAAATCAGGTGCCAAAGCTTCAG
 CCCCAGATAACTATGATTCCTCCAGTGCACAGCCACCACGCACTCAAACACCACCTCTGGGACAGACAC
 CTCAACTTGGTCTCAAACTAATCCACCCTTATTCAGGAAAAGCCTGCCAAGACTAGCAAAAAGCCACC
 ACCATCAAAGGAAGAAGTAACTTAACTGACCGAAGCTGTTGTAAGTATCTGAACAGTGAAATGCC
 AACGACGCTGTCAGTGGTGTGAGAGAAATGAGAGCTCCAAAACACTTTCTCCTGAGATGTTAAGCAAAG
 TGATCATCCTGCACTTGATAGAAGTATGAAGATAAAGAAAAAGCAAGCTCTTTGATCAGTTTACTCAA
 ACAGGAAGGGATAGCCACAAGTGAACCTTATGCAAGGCTTTCCTGAATGTATTGGAGCAGTGCCCCAAA
 CTGGAGGTTGACATCCCCTTGGTGAATCTTACTTGGCACAGTTTGGGGCTCGTGTATAATTTAGAGT
 TGGTGAGCATTTCAGAAGTCAACCACTGGAGAGTGGCACCCACTTCCCTCTCTTACTTTGTCT
 TCAACAATTAGCTAAATTAAGACCGAGAATGGTTAACCGAACTTTTCAACAAAGCAAGGTCAATATG
 CAGAAAATGCTGCCAGAAATGATCAGAATAAGGATCGAATGTTGGAGATTTTGAAGGAAAGGGACTGA
 GTTCTTATTCCCACTCCTTAAATTTGAGAAGGAACTATTGAAGCAAATTAAGCTGGATCCATCCCCTCA
 AACTATATAAATGGATTAAGATAACATCTCTCCAAAACCTCATGTAGATAAAGGATTTGTGAACATC
 TTAATGACCAGCTTCTTACAGTACATTTCTAGTGAAGTTAGCCACCCAGCGATGAAACAGATTCTTCT
 CTGCTCCTTCAAAGAACAGTTAGAGCAGGAAAAACAGCTGCTGCTCTTTTTAAGCCAGTGATGCAGAA
 GTTCTTCATGATCATGTGGATCTACAGGTCAGTGCCCTGTATGCTTTGCAGGTGCACTGTTACAACAGC
 AGCTTCCAAAAGGCATGTTACTTCGATTTTTTGTTCATTTCTATGACATGGAAATATTGAAGAGGAAG
 CTTTCTTAGCTTGAAGGAAGACATAACTCAAGAGTTTCCAGGAAAAGGCAAGGCTTTGTTCCAGGTGAA
 TCAGTGGCTAACCTGGCTAGAACTGCTGAAGAAGAAGAATCAGAGGAAGAAGCTGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001017374

Insert Size:	2721 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_001017374.2</u> , <u>NP_001017374.2</u>
RefSeq Size:	5008 bp
RefSeq ORF:	2721 bp
Locus ID:	361628
Cytogenetics:	1q33
Gene Summary:	Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies in human indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. This also appears to be true for mouse and rat. [provided by RefSeq, Jul 2008]