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Product datasheet for MC222508

Eif4g2 (NM_013507) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif4g2 (NM_013507) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eif4g2
Synonyms:	DAP; DAP-5; E130105L11Rik; Na; Nat; Nat1; Natm1; p97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222508 representing NM_013507
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

GTGGAGAGTGCGATTGCAGAAGGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGGG
GTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCCTGGGGAAAACCCCAGGGCAAAACGC
TCAGAAATGGATTCCTGCACGAAGCACTAGACGAGATGACAACTCCGCAGCAAACAACTCCGCAAATGAA
AAAGAACGACATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCCTGAAAAGTTTG
ACAAGCTATGCCTTGAGCTCCTCAATGTGGGTGTAGAGTCTAAACTCATCCTTAAAGGGGTCATACTGCT
GATTGTGGACAAAGCCTTAGAAGAGCCAAAGTATAGCTCGCTGTATGCTCAGCTATGTCTGCGATTGGCA
GAAGATGCACCAAACTTTGATGGCCCAGCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACAACATTCA
GACGCCTCTTGATTTCCAAATTGCAAGATGAATTTGAAAACCGAACCAGAAATGTTGATGTCTATGATAA
GCGTGAAAATCCCCTCCTTCCTGAGGAGGAGGAACAGAGAGCCATTGCTAAGATCAAGATGTTGGGGAAC
ATCAAATTCATTGGAGAACTTGGCAAGCTTGATCTTATTCATGAATCTATCCTTCATAAGTGCATCAAAA
CACTTTTGGAAAAGAAGAAGAGAGTCCAACTCAAAGATATGGGAGAGGATTTGGAGTGCCTCTGTCAGAT
AATGAGGACAGTGGGACCTCGATTAGACCATGAACGAGCCAAGTCCTTAATGGATCAGTACTTTGCCAGA
ATGTGTTCCTTAATGTTAAGTAAGGAATTGCCAGCCAGGATTCGTTTCCTACTGCAGGATACTGTAGAGT
TGCGAGAGCACCATTGGGTTCCTCGCAAGGCTTTTCTTGACAATGGACCAAAGACGATCAATCAAATCCG
TCAAGATGCAGTAAAAGATCTAGGAGTGTTTATTCCTGCTCCTATGGCTCAAGGGAGGAATGACTTCTTC
CTGGAGGGACCGTTCATGCCGCCAAGGATGAAAATGGATAGGGACCCACTTGGGGGACTTGCTGATATGT
TTGGACAAATGCCAGGTAGTGGAATTGGTACTGGTCCAGGAGTTATCCAGGATAGATTTTCACCCACAAT
GGGACGTCATCGTTCAAATCAGCTCTTCAATGGCCATGGGGGGCACATCATGCCTCCCACGCAATCGCAG
TTTGGAGAGATGGGGGGCAAGTTTATGAAAAGCCAGGGGCTAAGCCAGCTCTACCATAACCAGAGTCAGG
GACTCTTATCCCAGCTACAAGGACAGTCGAAGGATATGCCACCTCGGTTTTCTAAGAAAGGACAGCTTAA
TGCAGATGAGATTAGTTTGAGGCCTGCTCAGTCGTTTCTAATGAATAAAAATCAGGTGCCAAAGCTTCAG
CCCCAGATAACTATGATTCCTCCCAGTGCACAGCCACCACGCACTCAAACACCGCCTCTGGGACAGACAC
CTCAACTTGGTCTCAAAACTAATCCACCACTTATCCAGGAAAAGCCTGCCAAGACTAGCAAAAAGCCACC
ACCATCAAAGGAAGAACTACTTAAACTGACCGAAGCCGTTGTGACTGACTATCTGAACAGTGGAAATGCC
AACGACGCTGTCAGTGGTGTGAGAGAAATGAGAGCTCCAAAACACTTTCTTCCTGAGATGCTAAGCAAAG
TGATCATCCTGTCACTTGATAGAAGTGATGAAGATAAAGAAAAAGCAAGCTCTTTAATCAGTTTACTCAA
ACAGGAAGGGATAGCCACAAGTGACAACTTCATGCAGGCTTTCCTGAATGTATTGGAGCAGTGCCCCAAA
CTGGAGGTTGACATCCCCTTGGTGAAATCTTACTTGGCACAGTTTGCAGCTCGTGCTATAATTTCAGAGT
TGGTGAGCATTTCCGAACTAGCTCAACCACTGGAGAGTGGCACCCACTTCCCTCTCTTCTTACTTTGTCT
TCAACAATTAGCTAAATTGCAAGACCGAGAGTGGTTAACCGAACTTTTTCAACAAAGCAAGGTCAATATG
CAGAAAATGCTGCCAGAAATTGATCAGAATAAGGATCGAATGTTGGAGATTTTGGAAGGAAAGGGACTGA
GTTTCTTATTCCCACTCCTTAAATTGGAGAAGGAACTATTGAAGCAAATTAAGCTGGATCCATCCCCTCA
AACTATATATAAATGGATTAAAGATAACATCTCTCCCAAACTTCATGTAGATAAAGGATTCGTGAACATC
TTAATGACCAGCTTCTTACAGTACATTTCTAGTGAAGTAAGCCCACCCAGCGATGAAACAGATTCTTCCT
CTGCTCCTTCCAAAGAGCAGTTAGAGCAGGAAAAACAGCTGCTGCTCTCTTTTAAGCCAGTGATGCAGAA
ATTTCTTCATGATCATGTGGATCTACAGGTCAGTGCCCTGTATGCTTTGCAGGTGCACTGTTACAACAGC
AGCTTCCCAAAAGGCATGTTACTTCGATTTTTTGTTCACTTCTATGACATGGAAATTATTGAAGAGGAAG
CTTTCTTAGCTTGGAAGGAAGACATAACTCAAGAGTTTCCAGGAAAAGGCAAGGCTTTGTTCCAGGTGAA
TCAGTGGCTAACCTGGCTAGAAACTGCTGAAGAAGAAGAATCAGAGGAAGAAGCTGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_013507

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:	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_013507.3, NP_038535.2
RefSeq Size:	7760 bp
RefSeq ORF:	2721 bp
Locus ID:	13690
UniProt ID:	Q62448
Cytogenetics:	7 58.0 cM
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. Transgene expression of the apolipoprotein B mRNA-editing enzyme (APOBEC-1) causes extensive editing of this mRNA, which could contribute to the potent oncogenesis induced by overexpression of APOBEC-1. 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. Two alternatively spliced transcript variants that encode different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no quality transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.