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Product datasheet for MR208977

Eif2d (NM_001136070) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Eif2d
Synonyms:	D1Ertd5e; Lgtn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR208977 representing NM_001136070
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGAATGTGCCGCTGCTTAGAGAAGTTGGCAAGTGTCAGCGGAATATGTTCGGTCGGTCTACAGCCT
CCTCAAAAGGCAGCAGCAACAGCAGAAGCAGCAGCAGTACCTCCCCAAAGAAGGGCCCTCGCAGGGAAGC
TGATGCGCTAATGTTTATACAGATCTTTATCCACCTGTTGAAAAGCAACATTGGCACAGGCTTCCTGGGA
CTGCCCCTGGCTGTGAAAAATGCTGGATTGTTGGTGGGGCCTGTCAGCCTCTTGGCCATCGGGGCGCTCA
CAGTGCACTGTATGGATATCCTGCTGAACTGTGCCTGCCATCTCACTCAGAGACTGCAGAGGAGTTTTGT
GAACTATGAAGAGACCACAATGTACAGCCTGGAAACGTGTCCAAGTCCTTGGCTGAGGACGCACTCAGTG
TGGGGCAGGTACGTTGTGAGCTTCCTGCTGATCGTCACTCAGCTGGGCTTCTGCAGCGTGTACTTCATGT
TTCTGGCGGACAACTTACAACAGATCATGGAAGAAGCCCACTTCACCTCCAACGTCTGCCAGCCGAGGCA
GAGCCTGGTGATGACCTCCATCCTGGACACTCGCTTCTATATGCTCACCATCCTGCCCTTCCTCATCCTG
CTGGTGCTCATCCAGAACCCACAGGTGTTGTCCATCTTCTCTACCTTGGCCACCATCACCACCCTGAGCA
GCCTGGCTCTGATCTTCGAGTATCTCATCCAGACCCCACACCACAGCAACCTGCCCCTGGTTGCAAACTG
GAAGACTTTCTTGCTGTTCTTTGGCACGGCTATCTTCACCTTTGAAGGCGTGGGGATGGTTCTGCCTCTC
AAAAGCCAGATGAAGAGCCCGCAGCAGTTCCCCGCTGTGCTGTATCTGGGGATGTCCTTTGTCATCTTCC
TCTACATCTGCCTGGGGACTCTGGGCTACATGAAGTTTGGGACAGACACTCAGGCCAGCATCACCCTCAA
CTTGCCCATTTGCTGGCTGTACCAGTCAGTCAAGCTGATGTACTCTGTGGGCATCTTCTTCACCTATGCC
CTCCAGTTCCACGTCCCAGCTGAGATCATCGTCCCCTATGTCGTCTCAAGAGTGTCTGAGAACTGGGCTC
TGTTCGTAGACCTGACTGTCCGCACAGCCTTGGTCTGCCTGACCTGTTTCTCAGCCGTCCTCATCCCCCG
CCTGGACCTGGTCATCTCCCTGGTGGGCTCTGTGAGCAGTAGCGCCCTGGCCATCATCATCCCGCCGCTG
CTGGAGATTGCCACATTTTACTCTGAGAACATAAGCTGTGCCACCATTGTCAAGGACATCATGATCAGCA
TCCTGGGCCTCTTAGGGTGTGTACTTGGGACATACCAAGCCCTGTACGAGATGACCCAGCAGACCCACTT
TTACATGGCCAACTCTACAAGGGTCCACATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208977 representing NM_001136070
Red=Cloning site Green=Tags(s)

MGNVPLLREVGKCQRNMFGRSTASSKGSSNSRSSSSTSPKKGPRREADALMFIQIFIHLLKSNIGTGFLG
LPLAVKNAGLLVGPVSLLAIGALTVHCMDILLNCACHLTQRLQRSFVNYEETTMYSLETCPSPWLRTHSV
WGRYVVSFLLIVTQLGFCSVYFMFLADNLQQIMEEAHFTSNVCQPRQSLVMTSILDTRFYMLTILPFLIL
LVLIQNPQVLSIFSTLATITTLSSLALIFEYLIQTPHHSNLPLVANWKTFLLFFGTAIFTFEGVGMVLPL
KSQMKSPQQFPAVLYLGMSFVIFLYICLGTLGYMKFGTDTQASITLNLPICWLYQSVKLMYSVGIFFTYA
LQFHVPAEIIVPYVVSRVSENWALFVDLTVRTALVCLTCFSAVLIPRLDLVISLVGSVSSSALAIIIPPL
LEIATFYSENISCATIVKDIMISILGLLGCVLGTYQALYEMTQQTHFYMANSTRVHI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9016_h11.zip

Restriction Sites: SgfI-MluI

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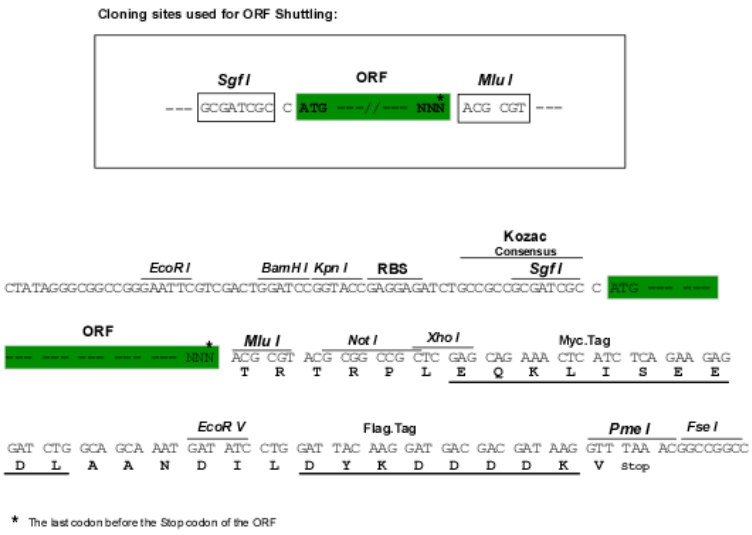
Cloning Scheme:



ACCN: NM_001136070

ORF Size: 1431 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq Size: 1976 bp

RefSeq ORF: 1713 bp

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Locus ID: 16865

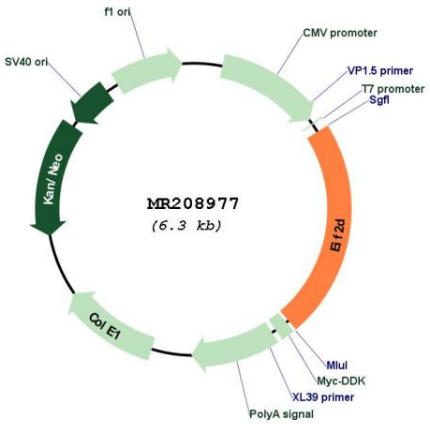
UniProt ID: Q61211

Cytogenetics: 1 56.9 cM

MW: 63.3 kDa

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]

Product images:



Circular map for MR208977

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