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Product datasheet for MR206835

Eif5 (NM_173363) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif5 (NM_173363) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif5
Synonyms:	2810011H21Rik; D12Ertd549e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206835 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGTCAACGTCAACCGCAGCGTGTCAGACCAGTTCTATCGCTACAAGATGCCCCGTTTGATTGCTA
AGGTTGAGGGCAAAGGAAATGGAATCAAGACAGTTATAGTCAACATGGTTGACGTTGCAAAGGCGCTTAA
TCGGCCTCCAACGTATCCCACCAAATATTTTGGTTGTGAGCTGGGAGCACAGACCCAGTTTGATGTTAAG
AATGACCGTTACATTGTCAATGGATCTCATGAGGCGAATAAGCTGCAAGACATGTTGGATGGATTCATTA
AAAAATTTGTTCTCTGTCCTGAGTGTGAGAATCCTGAAACAGATCTGCATGTCAATCCAAAGAAGCAAAC
AATAGGTAATTCTTGTAAAGCCTGTGGGTACCGAGGCATGCTTGACACACATCATAAACTCTGTACATTC
ATTCTCAAAAACCCACCTGAGAATAGTGACATTGGTACAGGAAAGAAAGAAAAGGAAAAGAAAAATAGAA
AGGGCAAGGACAAGGAAAATGGCTCTGTATCTACCAGTGAGACACCACCACCTCCACCACCAAATGAAAT
TAGTCCTCCACATGCTGTGGAAGAAGAGGAAGATGATGATTGGGGGGAGGATACAACTGAGGAAGCTCAA
AGGCGCAGAATGGATGAAATCAGTGACCATGCAAAAGGTCTGACACTTAGTGATGATTTGGAAAGAACTG
TAGAAGAGCGTGTTAACATCCTGTTTGATTTTGTTAAGAAAAAGAAAGAAGAGGGCATTATTGATTCATC
TGATAAAGAAATTGTGGCTGAGGCAGAAAGACTGGATGTAAAAGCCATGGGTCCTCTTGTTTTGACAGAA
GTTCTCTTTGATGAGAAGATAAGAGAGCAAATCAAGAAATACAGGCGCCATTTTCTAAGATTTTGTCATA
ACAACAAAAAGGCTCAGCGGTACCTTCTTCATGGTTTGGAATGTGTGGTAGCAATGCATCAAGCTCAGCT
GATCTCCAAGATCCCACACATCCTGAAGGAGATGTATGATGCCGACCTGTTAGAGGAGGAGGTCATTATC
AGCTGGTCAGAAAAGGCCTCTAAGAAATATGTCTCAAAAGAACTTGCCAAAGAGATTCGTGTCAAAGCAG
AGCCATTTATTAAATGGTTGAAGGAAGCAGAGGAAGAATCTTCTGGTGGTGAGGAAGAAGATGAAGACGA
AAATATTGAGGTCGTATATTCGAAAACTGCCAGTGTACCAAAAGTTGAAACTGTGAAGTCTGACAACAAG
GATGATGACATTGATATTGACGCCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

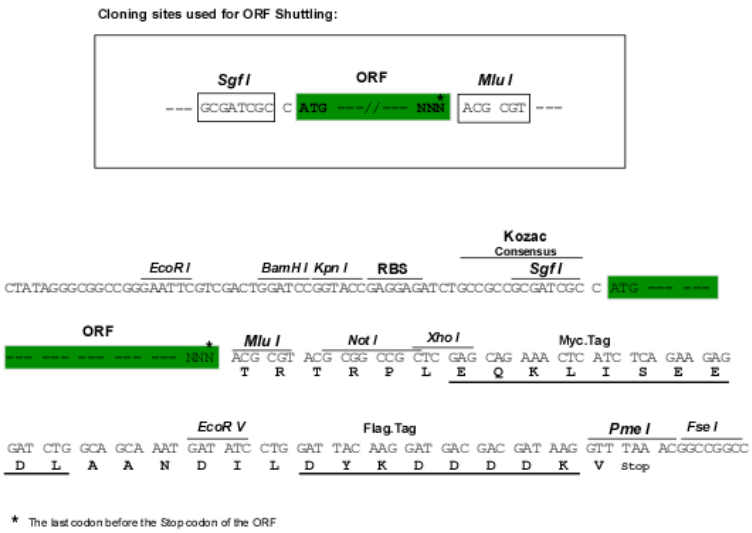
>MR206835 protein sequence
Red=Cloning site Green=Tags(s)

MSVNVNRSVSDQFYRYKMPRLIAKVEGKGNGIKTVIVNMVDVAKALNRPPTYPTKYFGCELGAQTQFDVK
NDRYIVNGSHEANKLQDMLDGFIKKFVLCPECENPETDLHVNPKKQTIGNSCKACGYRGMLDTHHKLCTF
ILKNPPENSDIGTGKKEKEKKNRKGKDKENGSVSTSETPPPPPPNEISPPHAVEEEEDDDWGEDTTEEAQ
RRRMDEISDHAKGLTLSDDLERTVEERVNILFDFVKKKKEEGIIDSSDKEIVAEAERLDVKAMGPLVLTE
VLFDEKIREQIKKYRRHFLRFCHNNKKAQRYLLHGLECVVAMHQAQLISKIPHILKEMYDADLLEEEVII
SWSEKASKKYVSKELAKEIRVKAEPFIKWLKEAEEESSGGEEEDEDENIEVVYSKTASVPKVETVKSDNK
DDDIDIDAI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173363

ORF Size: 1290 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_173363.5, NP_775539.1

RefSeq Size: 3966 bp

RefSeq ORF: 1290 bp

Locus ID: 217869

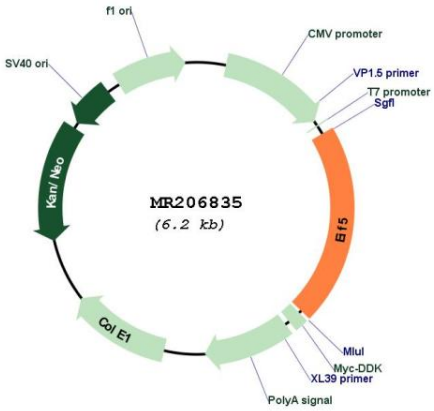
UniProt ID: P59325

Cytogenetics: 12 61.03 cM

MW: 49 kDa

Gene Summary: Catalyzes the hydrolysis of GTP bound to the 40S ribosomal initiation complex (40S.mRNA.Met-tRNA[F].eIF-2.GTP) with the subsequent joining of a 60S ribosomal subunit resulting in the release of eIF-2 and the guanine nucleotide. The subsequent joining of a 60S ribosomal subunit results in the formation of a functional 80S initiation complex (80S.mRNA.Met-tRNA[F]).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206835