

Product datasheet for **MR210249**

Eif2b5 (NM_172265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eif2b5 (NM_172265) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eif2b5
Synonyms:	C81315
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210249 representing NM_172265
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCCACTGCGGCGGTGCCTGGCGTGC GGCCGGCCGAGCGAGCAAACGCGGCGGCGGCGCTCGG
 GCGGCGGGGAACCCAAGGTGCGGAGGAGGAGCCGCCGCCCTCCAGGCAGTTCTAGTGGCCGATAG
 CTTCAACC GCGCTTCTTCCCATCTCCAAGGACCAGCCTCGGGTCTCTTGCCCTGGCCAACGTTGCG
 CTAATTGACTATACTCTGGAGTTCCTGACTGCCACGGGTGTACAGGAAACATTTGTCTTTTGCTGCTGGA
 AAGCTGCTCAGATCAAAGAACACTTACAGAAATCCAAGTGGTCCATCCTACGTCCCCAACGTTGTTGCG
 GATAATCACATCAGAGCTATACCGATCACTAGGAGACGTCTCCGTGACGTGCGATGCCAAGGCCCTGGT
 CGCTCTGACTTTCTTTGATATATGGAGATGTCATCTCAAATATCAATATCTGCAGAGCCCTGGAGGAAC
 ACAGGTTAAGAAGGAAGCTAGAAAAAATGTCTCTGTGATGACAATGGTCTTCAAAGAGTCGTACCCGAG
 CCACCCTACACGCTGCCATGAGGACAACGTGGTGTGGTGTGGACAGCGCCACCAACAGGGTTCTTCAC
 TTCCAGAAGACCAAGGCCCTCCGGCGCTTTTCCCTTCCATTGAGCCTGTTCCAGGGCAGTGGAGACGGAG
 TGGAGATTCGATATGATTTGTTGGACTGTCACATCAGCATCTGCTCTCCTCAGGTAGCTCAGCTCTTCAC
 AGACAATTTGACTACCAAACCTCGAGATGATTTGTACGAGGCATATTAATGAATGAGGAGGTCCTAGGA
 AACCAGATTCACTTGCATGTGACAACTAGGGAATATGGTGCCCGGTCTCCAACCTACACATGACTCAG
 CTGTTTGTGCTGACGTATCCGCCGATGGGTCTACCCTCACTCCAGAAGTAAACTTCACTGACAGCAC
 CACCCAGAGCTACACTATTCCCGACACAACATCTACCGAGGGCCTGAAGTCAGCCTGGGCCATGGCAGC
 GTCCTGGAGGAAAATGTCTTTGGGAGCTGGCACTGTGATCGGCAGCAACTGCTCCATCACCAACAGTG
 TCATCGGCCCTAACTGCCATATTGGTGATAATGTGGTACTGGACCAGGCCTACCTGTGGCAGGGATTTCG
 AGTGGCTGCTGGAGCACAAATACACCAATCTCTGCTCTGTGACAGAGCTGAGGTCAAGGAGCGAGTCAAA
 CTGAAGCCATACTGTGTTCTCACTTCCCAGGTGGTAGTGGGCCAGACATCACGCTGCCGAGGGCTCGG
 TGATCTCTTGCATCCTCCAGATGCAGAGGAAGATGAAGATGATGGCCAGTTTAGTGATGATTCTGGAGC
 TGACCAAGAAAAGGAGAAAGTGAAGCTGAAAGGTTACAATCCAGCAGAAGTTGGCCTTGAAGGCCAGGGA
 TACCTCTGAAAGCTGAGGGTGTGAACTCGAAAGAAGATGAGGAGCTACGGCAGAGTCTCTGGGGACTCA
 TGATCAAGACGGAGGAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 AGCAGGCTCCCTCAGCTGGATGACATCAGAGTTTTCCAGAACGAGGTCCTGGGAACGCTGCAGCGGGC
 AGAGAGGAGAACATCTCCTGTGAAAATCTAGTCTGGAGATCAACTCTCTCAAGCATGCCTACAACATTA
 GCCTAAAGGAAGTATGACAGGTCCTGACCCTTGTAGTCTGGAGTCCCTGCAACAAGTCGATGGCCT
 GCTTGACCCAAACCGCTACTGTGCCTTGTGCTTCTCTGCTCAAAGCCTGGAGCCCTGTTTAAAGGAAC
 TACATAAAGCGTGCAGCTGACCCTTGGAAAGCATTGGCAGCCATTGAGGACTTCTTCTTGGAAATGAAA
 CTCTCGTTACTTCCATGGCCAAGGTCCTGATGGCTTTCTACCAGCTGGAGATCTTGGCTGAGGAAACAA
 CTTGAGCTGGTTCAGCCAAAGAGACACAACCTGACGAAGGCCAGCAGTTACGGAAGAATCAACAGCTGCAG
 AGGTTTCATCCAGTGGCTGAGAGAGGCAGAAGAAGAGTTCATCCGAAGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210249 representing NM_172265
 Red=Cloning site Green=Tags(s)

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MAATAAVPGAAAGRASKRGGGGSGGGTQGAEEEEPPPLQAVLVADSFNRRFFPISKDQPRVLLPLANVA
LIDYTLLEFLTATGVQETFVFCCKWAAQIKEHLQKSKWCHPTSPNVVRIITSELYRSLGDVLRDVKALV
RSDFLLIYGDVISNINICRALEEHLRRKLEKNVSVMTMVFKESSPSHPTRCHEDNVVMVAVDSATNRVLH
FQKTQGLRRFSFPLSLFQSGDGVVEIRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGILMNEEVLG
NQIHLHVTTREYGARVSNLHMYSACADVIRRWVYPLTPEVNFDTSTTQSYTHSRHNIYRGPEVSLGHGS
VLEENVLLGAGTVIGSNCSITNSVIGPNCHIGDNVVLQAYLWQGVRAAGAQIHQSLLCDRAEVKERVK
LKPYCVLTSQVVVGPDITLPEGSVISLHPPDAEEDEDDGQFSDDSGADQEKEKVKLKGYNPAEVGLEGGQ
YLWKAEGVNSKEDEELRQSLWGLMIKTEEESETESEGSVDPEELDSRAGSPQLDDIRVFQNEVLGTLQRG
REENISCNLVLINSLKHAYNISLKEVMQVLTLLVLEFPLQQVDGLLDPNRYCALLLPLLKAWSPVLRN
YIKRAADHLEALAAIEDFFLEHETLVTSMAKVLMAFYQLEILAEETILSWFSQRDTTDEGQQLRKNQQLQ
RFIQWLEAEESSEDD
  
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9103_g03.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



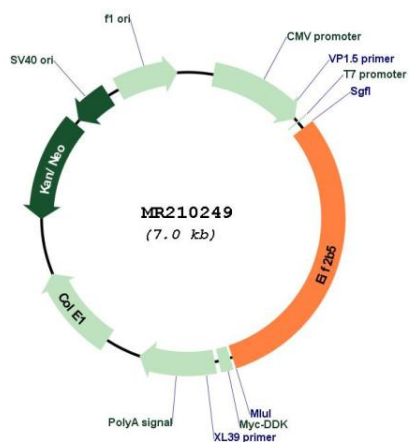
* The last codon before the Stop codon of the ORF

ACCN: NM_172265

ORF Size: 2151 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<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:	NM_172265.2 , NP_758469.1
RefSeq Size:	2556 bp
RefSeq ORF:	2154 bp
Locus ID:	224045
UniProt ID:	Q8CHW4
Cytogenetics:	16 A3
MW:	80.1 kDa
Gene Summary:	Catalyzes the exchange of eukaryotic initiation factor 2-bound GDP for GTP.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210249