

Product datasheet for **MR210249**

Eif2b5 (NM_172265) Mouse Tagged ORF Clone

Product data:

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



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

TTTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCCACTGCGGCGGTGCCTGGCGCTGCGGCCGGCCGAGCGAGCAAACGCGGCGGCGGCGGTTCGG
 GCGGCGGGGGAACCAAGGTGCGGAGGAGGAGCCGCCGCCCTCCAGGCAGTTCTAGTGGCCGATAG
 CTTCAACCGCCGCTTCTCCCATCTCCAAGGACCAGCCTCGGGTCTCTTGCCCTGGCCAACGTTGCG
 CTAATTGACTATACTCTGGAGTTCCTGACTGCCACGGGTGTACAGGAAACATTTGTCTTTTGTCTGCTGGA
 AAGTGCTCAGATCAAAGAACAATTACAGAAATCCAAGTGGTGCCATCTACGTCCCCAACGTTGTTTCG
 GATAATCACATCAGAGCTATACCGATCACTAGGAGACGTCTCCGTGACGTCGATGCCAAGGCCTTGGTG
 CGCTCTGACTTTCTCTGATATATGGAGATGTCATCTCAAATATCAATATCTGCAGAGCCCTGGAGGAAC
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 CCACCTACACGCTGCCATGAGGACAACGTGGTGATGGCTGTGGACAGCGCCACCAACAGGGTTCTTAC
 TTCCAGAAGACCAAGGCCTCCGGCGCTTTTCCTTTCATTGAGCCTGTTCAGGGCAGTGAGACGGAG
 TGGAGATTCGATATGATTTGTTGGACTGTCACATCAGCATCTGCTCTCCTCAGGTAGCTCAGCTCTTAC
 AGACAATTTTGACTACCAAACTCGAGATGATTTGTACGAGGCATATTAATGAATGAGGAGTCTTAGGA
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 GTCCTGGAGGAAAATGTCTTTGGGAGCTGGCACTGTATCGGCAGCAACTGCTCCATACCAACAGTG
 TCATCGGCCCTAACTGCCATATTGGTGATAATGTGGTACTGGACAGGCCTACCTGTGGCAGGGAGTTTCG
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 AGCAGGCTCCCTCAGCTGGATGACATCAGAGTTTCCAGAACGAGGTCTGGGAACGCTGCAGCGGGGC
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 GCTTGACCCAAACCGCTACTGTGCCTTGTGCTTCTCTGCTCAAAGCCTGGAGCCCTGTTTAAAGGAAC
 TACATAAAGCGTGACGTGACCACTTGAAGCATTGGCAGCATTGAGGACTTCTTCTTGAACATGAAA
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 CTTGAGCTGGTTACGCCAAAGAGACAACTGACGAAGGCCAGCAGTTACGGAAGAATCAACAGCTGCAG
 AGGTTTCATCAGTGGCTGAGAGAGGCAGAAGAAGTATCCGAAGATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210249 representing NM_172265

Red=Cloning site Green=Tags(s)

MAATAAVPGAAAGRASKRGGGGSGGGTQGAEEPPPLQAVLVADSFNRRFFPISKDQPRVLLPLANVA
LIDYTFLEFLTATGVQETTFVCCWKAQIKEHLQKSKWCHPTSPNVVRIITSELYRSLGDVLRDVKALV
RSDFLLIYGDVISINICRALEEHLRRKLEKNVSVMTMVFKESSPHPTRCHEDNVVMAVDSATNRVLH
FQKTQGLRRFSFPLSLFQSGDGVIRYDLLDCHISICSPQVAQLFTDNFDYQTRDDFVRGILMNEEVLG
NQIHLHVTTREYGARVSNLHMYSACADVIRRWYPLTPEVNFTDSTTQSYTHSRHNIYRGPEVSLGHGS
VLEENVLLGAGTVIGSNCSITNSVIGPNCHIGDNVVLDAQYLWQGVRAAGAQIHQSLLCDRAEVKERVK
LKPYCVLT SQVVVGPDITLPEGSVISLHPPDAEEDDGGQFSDDSGADQEKEVKLGYNPAEVGLEGG
YLWKAEGVNSKEDEELRQSLWGLMIKTEESESESEGSVDPEELDSRAGSPQLDDIRVFQNEVLGTLQRG
REENISCENLVLEINSLKHAYNISLKEVMQVLTLLVLEFPLQQVDGLLDPNRYCALLPLLKAWSPVLRN
YKRAADHLEALAAIEDFFLEHETLVTSMAKVLMAFYQLEILAEETILSWFSQRDTTDEGQQLRKNQQLQ
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

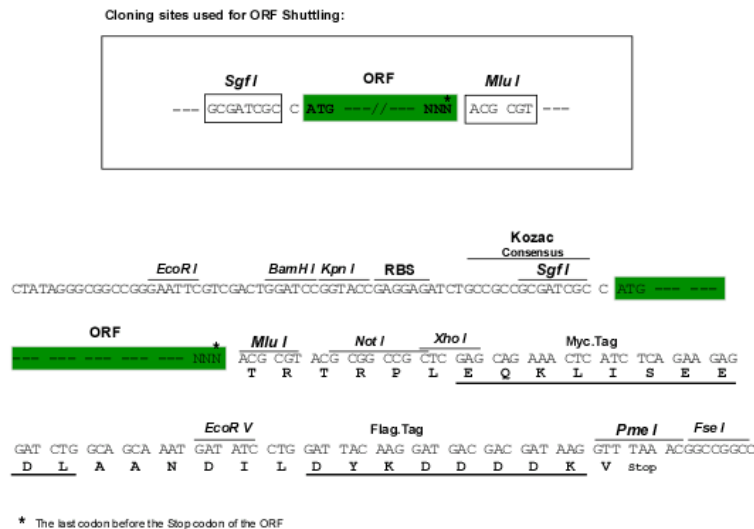
Chromatograms:

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

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

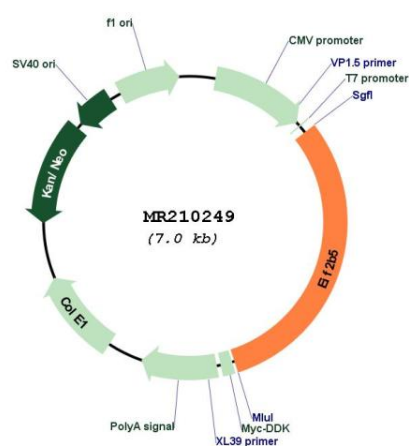
NM_172265

ORF Size:

2151 bp

OTI Disclaimer:	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. 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:	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