

Product datasheet for **RC210634**

EIF2B4 (NM_001034116) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B4 (NM_001034116) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EIF2B4
Synonyms:	EIF-2B; EIF2B; EIF2Bdelta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210634 representing NM_001034116.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTGCTGTGGCCGTGGCTGTTCCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGG
CCTGGGCGAGTGGGGAGGAAATGACCAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAACAGCAG
AAGAAGAAACGGAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGT
CAAGTAGGCCCAACCAGAGAAGTCCAGAAATCGGGCATTAGTTGGGCACTCCTCGGAGAGAAAGTTCCA
GCTGGTCGGAGTAAGGCCGAAGTTCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGCCCTGAAA
CAGGCAAGAAAAGGGGAACAAGGAGGACCCTCTAAGGCCAGCCCCAGCACAGCTGGAGAAACCCCC
TCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGTTGATGACCTACTTCTGAGAAGGCTTGTAAAAA
CCAGAGCGTCAACAGGTTCTACACGAAAGGATTATGGATCCAAAGTCAGTCTCTCTCACCTACCC
CAGTACAGCAGACAAAACCTCTGACCCAGTTTATGAGCATCCCATCCTCTGTGATCCACCCAGCCATG
GTGCGACTCGGCTGCAGTACTCCAGGCGCTGGTCAGTGGCTCCAATGCCCGGTGATTGCCCTGCTT
CGTGCCTTGCAGCAGGTATTACAGATTACACAACACCGCTAATGAAGAACTCTCCAGGGATCTAGTG
AATAAACTAAAACCTACATGAGCTTCTGACTCAGTGCCGTCCCTGTGAGCGAGCATGCACAACGCC
ATCAAGTTCCTTAACAAGGAAATCACCAGTGTGGGCGAGTTCAGCGGGAAGAGGAGGCCAAGTCAGAA
CTTCGAGCAGCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTCACGCTTT
GCTTACCAAGAAGATCAGTAATGGAGATGTATCCTGGTATATGGATGCTCATCTCTGGTATCACGAAT
CTTCAGGAGGCTTGGACAGAGGGCCGCGGTTTCGGGTGGTAGTGGTGGACAGCCGGCCATGGCTGGAA
GGAAGGCACACACTACGTTCTCTAGTCCATGCTGGTGTCCAGCCTCTACCTGCTGATTCTGCAGCC
TCCTATGTGCTCCAGAGGTTTCCAAGGTGCTATTGGGAGCTCATGCACTCTTGCCAACGGGTCTGTG
ATGTACGCGGTAGGGACAGCAGTTAGCCCTGGTGGCTCGAGCCATAATGTACAGTGTCTGGTTTGC
TGTGAAACATACAAGTTCTGTGAGCGTGTGCACTGATGCCTTTGTCTCTAATGAGCTAGATGACCTT
GATGATCTGCAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAACTGGCAGAACCACGCATCCCTACGG
TTGTTGAATCTAGTCTATGATGTGACTCCCCAGAGCTTGTGGATCTGGTATCACGGAGCTGGGGATG
ATCCCTTGCAGTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC
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Protein Sequence:

>Peptide sequence encoded by RC210634
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAAVAVAVREDSGSGMKAELPPGPVAVGREMTKEEKLQLRKEKKQKKKRKEEKGAEPTGSVSAQAQC
QVGPTRELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETP
SGVKRLPEYPQVDDLLRLVKKPERQVPTRKDYGSKVSLFSLHPQYSRQNSLTQFMSIPSSVIHPAM
VRLGLQYSQGLVSGSNARCIALLRALQQVIQDYTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNA
IKFLNKEITSVGSSKREEEAKSELRAAIDRYVQEKIVLAAQAISRFAYQKISNGDVILVYGCSSLVSRI
LQEAWTEGRRFRVVDVSRPWLEGRHRLSLVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSV
MSRVGTAQLALVARAHNVPLVCCETYKFCERVQTDAFVSNELDDPDDLQCKRGEHVALANWQNHASLR
LLNLVYDVTPPELVDLVITELGMIPCSSVPVLRVKSSDQ
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Chromatograms:

https://cdn.origene.com/chromatograms/mk6367_a01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001034116

ORF Size: 1571 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: [NM_001034116.2](#)

RefSeq Size: 1763 bp

RefSeq ORF: 1572 bp

Locus ID: 8890

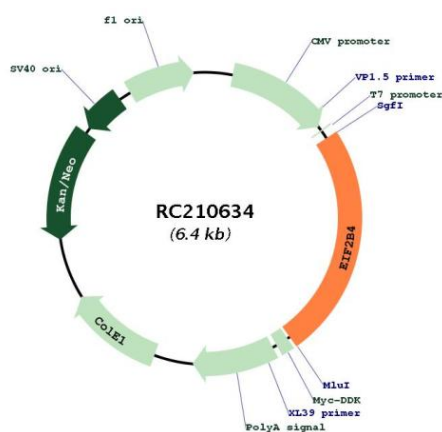
UniProt ID: [Q9UI10](#)

Cytogenetics: 2p23.3

MW: 57.6 kDa

Gene Summary: Eukaryotic initiation factor 2B (EIF2B), which is necessary for protein synthesis, is a GTP exchange factor composed of five different subunits. The protein encoded by this gene is the fourth, or delta, subunit. Defects in this gene are a cause of leukoencephalopathy with vanishing white matter (VWM) and ovarioleukodystrophy. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210634