

Product datasheet for **SC108336**

EIF2B4 (NM_015636) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B4 (NM_015636) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF2B4
Synonyms:	EIF-2B; EIF2B; EIF2Bdelta
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015636, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGCTGTGGCCGTGGCTGTTCCGCGAGGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCCTGGGC
CTGGGGCAGTGGGGAGGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAA
GAAGAAACGGAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAA
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TTCCAAGTGCTATTGGGAGTCACTGACTCTTGGCCAACGGGTCTGTGATGTCACGGGTAGGGACAGCA
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AGAACATGTTGCGCTGGTAACGGCAGAACACGCATCCCTACGTTGTTGAATCTAGTCTATGATGTG
ACTCCCCAGAGCTTGTGGATCTGGTATCACGGAGCTGGGGATGATCCCTTGCACTTCTGTACCTGTTG
TTCTACGAGTCAAGAGCAGTGACCAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015636 unedited
 ACGACTACTATAGGGCGGCCGGAATTCGGCACGGGGCGGCTCAGCCTCCACCCGGTGG
 CGCTGTGGACCCTGCAGCCGCGGAGCGAGGCAGCGGGGCGGCTCCGTGACCACGGCGGGC
 GGAGCCTAGGACTGAGGGCGATGGCTGTGTGGCCGTGGCTGTTTCGCGAGGACTCGGGAT
 CCGGGATGAAGGCGGAGCTTCCCCTGGGCCTGGGGCAGTGGGGAGGAAATGACCAAAG
 AAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAAGAAGAACGGAAGGAAGAAA
 AGGGGGCAGAACCAGAGACTGGCTCTGCTGTATCTGCAGCCCAATGTCAAGGCCCAACCA
 GAGAACTGCCAGAATCGGGCATTCAATTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTC
 GGAGTAAGGCCGAACCTTCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGA
 AACAGGCAAGAAAAGGGGAACAAGGAGGACCACCTCCTAAGGCCAGCCCCAGCACAGCTG
 GAGAAACCCCTCAGGAGTGAAGCGTCTCCCTGAGTACCCTCAGGTTGATGACCTACTTC
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 CTAGAAGAGCCTANGGAAATGGACTGGANGGAGGAAAGGTGCNTGGTGCANAGTGAGAAG
 GATAGGTGCTTGGGTCANAGTAGTCTTACTGGTCACTTCCTTTACAGNNTATCCCATCCT
 TTNTAACTCTNGGCCATNGNTCCTGTNCCCTTGNNTTGTGAGGNTCCTACACGAAGGAT
 TATGGATCCAAGTCAGTCTCTCTCACTACCCNAGTCAGCAGACAAACTCTCTGACCAG
 TNATGAGGTAGATCCTATGAANTGNCATACTTTGAGTCTGAGAGTTTANTAGTCGTATGG
 AAGTCTATATCTGAATGACTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015636 unedited
 ACCTCAGAGNACCAGGCCGCTTTCTAAGATCGGTTTTTTTTTTTTTTTTTTTGGCTGAGGGT
 AGGGAGTATGGCATTATTAACCCTGTGTTTTCCCCGTCAGTGGTCACTGCTCTTGACTC
 GTAGAACAACAGGTACAGAACTGCAAGGGATCATCCCCAGCTCCGTGATCACCAGATCCA
 CAAGCTCTGGGGAGTCACATCATAGACTAGATTCAACAACCGTAGGGATGCGTGGTTCT
 GCCAGTTAGCCAGCGCAACATGTTCTCCCCGTTACATTGCAGATCATCAGGGTCATCTA
 GCTCATTAGAGACAAAGGCATCAGTCTGCACACGCTCACAGAACTGTATGTTTCACAGC
 AAACCAGCACTGTACATTATGGGCTCGAGCCACCAGGGCTAACTGTGCTGTCCCTACCC
 GTGACATCACAGACCCGTTGGCCAAGAGTGCATGAGCTCCCAATAGCACCTTGAAACCT
 CTGGGAGCACATAGGAGGCTGCAGGAATCAGCAGGTAGGAGGCTGGGACACCAGCATGGA
 CTAGAGAACGTAGTGTGTGCCTTCTCCAGCCATGGCCGGCTGTCCACCACTACCACCC
 GAAACCGCCGGCCCTCTGTCCAAGCCCCCTGAAGAATTCGTGATACCAGAGATGAGCATC
 CATATACCAGGATCACATCTCCATTACTGATCTTCTGGTAAGCAAAGCGTAAATTTGCT
 GAGCTGTAGCACAAATCTTTCTTGGCCATACCGATCAATGGCTGCTCGAAGTTCTGAC
 CTGGCCTAAATGGAGTAAAATCCCTAACCGAACAAGGAAATGGACACCTTTATACCCTCT
 GATGATCATGGCCAGGGGCTGAATTTGCCGATGATGACAAGCCATAGAAGGCTCANA
 GAAGGCCACAGTCATAATGGCCAACCATTCCTTTACCCCTGCATAGGGCAACAAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_015636

Insert Size:

2320 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_015636.2](#), [NP_056451.2](#)

RefSeq Size: 1643 bp

RefSeq ORF: 1569 bp

Locus ID: 8890

UniProt ID: [Q9UI10](#)

Cytogenetics: 2p23.3

Domains: IF-2B

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]
Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence and uses an alternate in-frame splice junction compared to variant 4. The resulting isoform (3) has a shorter and distinct N-terminus and lacks an internal aa compared to isoform 4.