

## Product datasheet for **SC313930**

### EIF2B4 (NM\_172195) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EIF2B4 (NM_172195) Human Untagged Clone
Tag:	Tag Free
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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**Fully Sequenced ORF:** >SC313930 representing NM\_172195.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCCAACCCAGCAGCCGGCTGCGCCGAGTACTCGTGCCCCCAAACCTCCCGGAGTCTCTCTGGCTCA
CTTTGTCCCTGTTTTCTGATGCAGACTCGGGATCCGGGATGAAGGCGGAGCTTCCCCTGGCCTGGG
GCAGTGGGGAGGAAATGACCAAAGAAGAAAAGCTGCAGCTTCGGAAGGAAAAGAAACAGCAGAAGAAG
AAACGGAAGGAAGAAAAGGGGGCAGAACCAGAGACTGGCTCTGTGTATCTGCAGCCCAATGTCAAGGC
CCAACCAGAGAACTGCCAGAATCGGGCATTAGTTGGGCACTCCTCGGGAGAAAGTTCCAGCTGGTCGG
AGTAAGGCCGAACCTCGGGCTGAGCGTCGAGCCAAGCAGGAGGCCGAGCGGGCCCTGAAACAGGCAAGA
AAAGGGGAACAAGGAGGACCACCTCCTAAGGCCAGCCCCAGCACAGCTGGAGAAACCCCTCAGGAGTG
AAGCGTCTCCCTGAGTACCCTCAGGTTGATGACCTACTTCTGAGAAGGCTTGTTAAAAAACAGAGCGT
CAACAGGTTCTACACGAAAGGATTATGGATCCAAAGTCAGTCTTCTCTCACCTACCCAGTACAGC
AGACAAAACCTCTGACCCAGTTTATGAGCATCCCATCCTCTGTGATCCACCCAGCCATGGTGCGACTC
GGCCTGCAGTACTCCAGGGCCTGGTCAGTGGCTCCAATGCCCGGTGATTGCCCTGCTTCGTGCCTTG
CAGCAGGTGATTAGGATTACACAACACCGCCTAATGAAGAACTCTCCAGGGATCTAGTGAATAAACTA
AAACCCTACATGAGCTTCTGACTCAGTGCCGTCCCCTGTGAGCGAGCATGCACAACGCCATCAAGTTC
CTTAACAAGGAAATCACCAGTGTGGCAGTTCCAAGCGGGAAGAGGAGGCCAAGTCAGAACTTCGAGCA
GCCATTGATCGGTATGTGCAAGAGAAGATTGTGCTAGCAGCTCAGGCAATTTACGCTTTGCTTACCAG
AAGATCAGTAATGGAGATGTGATCCTGGTATATGGATGCTCATCTCTGGTATCACGAATTTTACGAG
GCTTGGACAGAGGGCCGGCGGTTTCGGGTGAGTGGTGGACAGCCGCCATGGTGAAGGAAGGCAC
ACACTACGTTCTCTAGTCCATGCTGGTGTCCAGCCTCCTACCTGCTGATTCTCTGCAGCCTCTATGTG
CTCCAGAGGTTTCCAAGGTGCTATTGGGAGCTCATGCACTCTTGGCCAACGGGTCTGTGATGTCACGG
GTAGGGACAGCACAGTTAGCCCTGGTGGCTCGAGCCATAATGTACCAGTCTGTTTGTGTGAAACA
TACAAGTTCTGTGAGCGTGTGCAGACTGATGCCTTTGTCTCTAATGAGCTAGATGACCCTGATGATCTG
CAATGTAAGCGGGGAGAACATGTTGCGCTGGCTAACTGGCAGAACCACGCATCCCTACGTTGTTGAAT
CTAGTCTATGATGTGACTCCCCAGAGCTTGTGGATCTGGTATCACGGAGCTGGGGATGATCCCTTGC
AGTTCTGTACCTGTTGTTCTACGAGTCAAGAGCAGTGACCAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_172195
- Insert Size:** 1632 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_172195.3](#)

**RefSeq Size:** 1719 bp

**RefSeq ORF:** 1632 bp

**Locus ID:** 8890

**UniProt ID:** [Q9UI10](#)

**Cytogenetics:** 2p23.3

**MW:** 59.6 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]  
Transcript Variant: This variant (1) uses an alternate in-frame splice junction compared to variant 4. The resulting isoform (1, also known as the 'long' isoform) has the same N- and C-termini but is 1 aa shorter compared to isoform 4.