

Product datasheet for **SC107570**

eIF2B epsilon (EIF2B5) (NM_003907) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	eIF2B epsilon (EIF2B5) (NM_003907) Human Untagged Clone
Tag:	Tag Free
Symbol:	eIF2B epsilon
Synonyms:	CACH; CLE; EIF-2B; EIF2Bepsilon; LVWM
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_003907, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGCCCTGTAGTGGCGCCGCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGCGGCGCGGGG
CGGGAGGCAGCGGTGGCGGGGAGCCAGAGGGCGGAGGAGGAACCGCCGCCCTACAAGCAGTTCT
GGTGGCCGATAGCTTCGATCGCCGCTTCTCCCATCTCCAAGGACCAGCCTCGGGTCTCTTGCCCTG
GCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGACTGCCACAGGTGTACAGGAAACATTTGTCT
TTTGTGTGCGAAAGCTGCTCAAATCAAAGAACATTTACTGAAGTCAAAGTGGTGGCCGCTACATCTCT
CAATGTGGTTCGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATGTCTCCGTGATGTTGATGCC
AAGGCTTTGGTGCCTCTGACTTCTTCTGGTGTATGGGATGTCATCTCAAACATCAATATCACCAGAG
CCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGATCTTCAAGGA
GTCATCCCCCAGCCACCAACTCGTTGCCACGAAGACAATGTGGTAGTGGCTGTGGATAGTACCACAAAC
AGGGTTCTCCATTTTCAAGAACCCAGGGTCTCCGGCGTTTTGCATTTCTCTGAGCCTGTTTCAGGGCA
GTAGTGATGGAGTGGAGTTCGATATGATTTACTGGATTGTCATATCAGCATCTGTTCTCCTCAGGTGGC
ACAACTCTTTACAGACAACCTTTGACTACAAACTCGAGATGACTTTGTGCGAGGTCTCTAGTGAATGAG
GAGATCTAGGGAACAGATCCACATGCACGTAACAGCTAAGGAATATGGTGGCCGTGTCTCCAACCTAC
ACATGTAAGTCACTGTCTGTGCTGACGTCATCCGCCGATGGGTCTACCCTCTCAGCCAGAGGCGAACTT
CACTGACAGCACCACCCAGAGCTGCACTCATTCCCGGCACAACATCTACCGAGGGCTGAGGTGACGCTG
GGCCATGGCAGCATCTAGAGGAAAAATGTCTCCTGGGCTCTGGCACTGTATTGGCAGCAATTGCTTTA
TCACCAACAGTGTCTATTGGCCCCGGCTGCCACATTGGTGATAACGTGGTGTGGACAGACCTACCTGTG
GCAGGGTGTTTCGAGTGGCGGCTGGAGCACAGATCCATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAG
GAACGAGTGACACTGAAACCACGCTCTGTCTCACTTCCAGGTGGTCTGGGCCCCAAATATCACGCTGC
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CTACAGCGGGGCAAGAGGAGAACATTTCTGTGACAATCTCGTCTGGAATCAACTCTCTCAAGTATG
CCTATAACATAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCTGGAGTTCCCCTGCAACA
GATGGATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCTCTGCTAAAGGCCTGGAGCCCT
GTTTTTAGGAACTACATAAAGCGCGCAGCCGACCATTGGAAGCGTTAGCAGCCATTGAGGACTTCTCC
TAGAGCATGAAGCTCTTGGTATTTCCATGGCCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCTGGC
TGAGGAAACAATTCTGAGCTGGTTCAGCCAAAGAGATACAACTGACAAGGGCCAGCAGTTGCGCAAGAAT
CAACAGCTGCAGAGGTTCATCCAGTGGCTAAAAGAGGCAGAAGAGGAGTCACTGAAGATGACTGA

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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_003907 unedited <pre> NGGTTACATTTGTATACGACTCACTATAGGCGCCGCGNAATTCGCACGAGGAGAAGAA GAGGCGGCCCCCTGTAGTGGCGCCGCTGGTGTGGTGGTTAGTCGGGCTAACAAGCGCAGC GGCGCGGGGGCCGGGAGGCAGCGGTGGCGGGGGAGCCAGAGGGGCGGAGGAGGAACCGCCG CCGCCCCACAAAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCCATCTCC AAGGACCAGCCTCGGGTCCTCTTGCCCCTGCCAATGTGGCATTAAATTGACTACACTCTG GAATTCCTGACTGCCACAGGTGTACAGGAAACATTTGTCTTTTGTGCTGGAAAGCTGCT CAAATCAAAGAACATTTACTGAAGTCAAAGTGGTGCCGCCCTACATCTCTCAATGTGGTT CGAATAATTACATCAGAGCTCTATCGATCACTGGGAGATGTCCTCCGTGATGTTGATGCC AAGGCTTTGGTGCCTCTGACTTTCTTCTGGTGTATGGGATGTCATCTCAAACATCAAT ATCACCAGAGCCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTG ATGACGATGATCTTCAAGGAGTCATCCCCAGCCACCAACTCGTTGCCACGAAGACCAT GTGGTAGTGGCTGTGGATAGTACCACAAACAGGGTTCTCCATTTTCAGAAGACCCAGGGT CTNCGCGGTTTNTGCATTTCTCTGAGCCTGTTTCAGGGCAGTAGTGATGGAGTGGGAGGN TCGATATGATTTACTGGATTGCATATCAGCATCTGTTCTCCTCAGGTGGCACAACCTCTT TACAGACCACTNTGACTACCCAACCTCGAGATGACTTTGTGCGAGGTCTCTTANNTGATGA GAGATCCTAGGNNACCAGATCCCATGCACGTAACAGCTAGGAATATGTTGCCCGTGTCTC CAACTAC </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_003907
Insert Size:	3000 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
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_003907.1 , NP_003898.1

RefSeq Size: 2898 bp

RefSeq ORF: 2898 bp

Locus ID: 8893

UniProt ID: [Q13144](#)

Cytogenetics: 3q27.1

Gene Summary: This gene encodes one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Mutations in this gene and the genes encoding other EIF2B subunits have been associated with leukoencephalopathy with vanishing white matter. [provided by RefSeq, Nov 2009]