

Product datasheet for **SC324640**

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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003907.2
 TGGCTGCGGTGGCAGCTTCCTTGCGGAAGTGGTGACCGTGAGAGAAGAAGATGGCGGCC
 CTGTAGTGGCGCCGCTGGTGTGGTGGTATGTCGGGCTAACAAGCGCAGCGGCGCGGGC
 CGGGAGGCAGCGGTGGCGGGGGAGCCAGAGGGCGGAGGAGGAACCGCCGCCGCCCTAC
 AAGCAGTTCTGGTGGCCGATAGCTTCGATCGCCGCTTCTTCCCATCTCCAAGGACCAGC
 CTCGGGTCTCTTGCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGA
 CTGCCACAGGTGTACAGGAAACATTTGCTTTTGTGCTGGAAAGCTGCTCAAATCAAAG
 AACATTTACTGAAGTCAAAGTGGTGCCGCCCTACATCTCTCAATGTGGTTCGAATAATTA
 CATCAGAGCTCTATCGATCACTGGGAGATGTCCTCCGTGATGTTGATGCCAAGGCTTTGG
 TGCGCTCTGACTTTCTTCTGGTGTATGGGGATGTCATCTCAAACATCAATATCACCAGAG
 CCCTTGAGGAACACAGGTTGAGACGGAAGCTAGAAAAAATGTTTCTGTGATGACGATGA
 TCTTCAAGGAGTCATCCCCAGCCACCAACTCGTTGCCACGAAGACAATGTGGTAGTGG
 CTGTGGATAGTACCACAAACAGGGTTCTCCATTTTCAGAAGACCCAGGGTCTCCGGCGTT
 TTGCATTTCTCTGAGCCTGTTTCAGGGCAGTAGTGATGGAGTGGAGGTTGATATGATT
 TACTGGATTGTATATCAGCATCTGTTCTCCTCAGGTGGCACAACCTTTACAGACAAC
 TTGACTACCAAACCTCGAGATGACTTTGTGCGAGGTCTCTTAGTGAATGAGGAGATCCTAG
 GGAACCAGATCCACATGCACGTAACAGCTAAGGAATATGGTGCCCGTGTCTCAACCTAC
 ACATGTAAGTCACTGTCTGTGCTGACGTCATCCGCCGATGGGTCTACCCTCTACCCAG
 AGGCGAAGTCACTGACAGCACCACCCAGAGCTGCACTCATTCCCGGCACAACATCTACC
 GAGGGCTGAGGTGAGCTGGGCGATGGCAGCATCCTAGAGGAAAATGTGCTCCTGGGCT
 CTGGCACTGTCTTGGCAGCAATTGCTTTATCACCAACAGTGTCTTGGCCCCGGCTGCC
 ACATTGGTGATAACGTGGTGTGGACAGACCTACCTGTGGCAGGGTGTTCGAGTGGCGG
 CTGGAGCACAGATCCATCAGTCTCTGCTTTGTGACAATGCTGAGGTCAAGGAACGAGTGA
 CACTGAAACCAAGCTCTGCTCACTTCCAGGTGGTCTGGGGCCAAATATCACGCTGC
 CTGAGGGCTCGGTGATCTCTTGCACCCTCCAGATGCAGAGGAAGATGAAGATGATGGCG
 AGTTCAGTGATGATTCTGGGGCTGACCAAGAAAAGGACAAAGTGAAGATGAAAGGTTACA
 ATCCAGCAGAAGTAGGAGCTGCTGGCAAGGGCTACCTCTGAAAGCTGCAGGCATGAACA
 TGGAGGAAGAGGAGGAAGTGCAGCAGAATCTGTGGGACTCAAGATCAACATGGAAGAAG
 AGAGTGAAAGTGAAGTGAAGTGAAGTATGGATTCTGAGGAGCCGACAGCCGGGAGGCT
 CCCCTCAGATGGATGACATCAAAGTGTTCAGAAATGAAGTTTATGGAACACTACAGCGGG
 GCAAAGAGGAGAACATTTCTTGTGACAATCTCGTCTGGAATCAACTCTCTCAAGTATG
 CCTATAACGTAAGTCTAAAGGAGGTGATGCAGGTACTGAGCCACGTGGTCTGGAGTTCC
 CCCTGCAACAGATGGATTCCCCGCTTGACTCAAGCCGCTACTGTGCCCTGCTGCTTCCTC
 TGCTAAAGGCCTGGAGCCCTGTTTTAGGAACTACATAAAGCGCGCAGCCGACCATTTGG
 AAGCGTTAGCAGCCATTGAGGACTTCTCCTAGAGCATGAAGCTCTTGGTATTTCCATGG
 CCAAGGTACTGATGGCTTTCTACCAGCTGGAGATCCTGGCTGAGGAAACAATTCTGAGCT
 GGTTACAGCAAGAGATACAACGACAAGGGCCAGCAGTTGCGCAAGAATCAACAGCTGC
 AGAGGTTTCATCCAGTGGCTAAAAGAGGCAGAAGAGGAGTCATCTGAAGATGACTGAAGTC
 AACTGCCTGCTCCTTTGGGTGTGATTGAGTGCCCTCCTGGCTCCTGGGCTGGGACAAGT
 GAGGAACTAGCTGCAGAGGGATGAGTGACCACCATCCAGGCTGAGACTGAAAGGAGCAGA
 GGCTGGAAGTACAGTATTCTTTCCCTGCTAGCAACCATGTGCCTCCCATCCTGACTGTG
 GAGTTGGGATGTGGAAGTGGGGCTGGAACAAAGCTTCTGCCTAGGGAGGAGCTAAGCAGG
 CCCGGCAGTTGGAGGAAGGCCAGAGGAACAGCTTTGTGCTCCGGCTTTCCCTCAGGGAAC
 AGCAGAGAGCAGTTGGCTCTTTCTGCTGCTTGTATATGTTAATATTAAGAGAGTGGTG
 TAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_003907

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 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_003907.2 , NP_003898.2
RefSeq Size:	2898 bp
RefSeq ORF:	2166 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]