

Product datasheet for **SC126884**

eIF2B epsilon (EIF2B5) (AK056400) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	eIF2B epsilon (EIF2B5) (AK056400) 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 AK056400, the custom clone sequence may differ by one or more nucleotides

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AAAAAGAGAAAAAGGTGCTGCTGCGCCTTTTCAAGCCTTGGACCTTTACGCCCGCACTTTCTCTGCCCC
GAAAGCTTACTGCTTAACTCCAGTACAACCTTACTGGTGCGCCTGGATCCACCCCGTCTCCACTCTGCTT
AAGACACAGGAGGCTGATAGGCTGGAAGAATGAATAGATGACATAAAATAGTCATTGTTATCCCCACATA
ACTTGGCAGCAAGATTGTGGAACCTCTGCAGTCAGACAGATCGGGTTCCAATACCAGTTCTTCCACTTACT
AGCTGGGTAAACTTCCTTCATCCTTCTGAGAGTTCAAGAAACGTTTGTGAACGAATGAATAAGATGTTT
TGCAGAGATAATGCTTGATCGTGCCTGGCCAAAATCAGCGCTCAATGGAATTACTGGTCTCCCTACTA
TATGCCTGCCACCTTCTCTATTTATGCAGGTTCTGAGTTCCTCGCAGCGGGGAACATCTGGCTCGGTTT
TATCTCCCAAGGCGCTGGGTTCCAGAGTTTCTAGAATGAATACGGAGGGCTACATATTTACATGCG
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CTATCACGCCACAAGAATCTCGGCTTGTTACCTACAAATGAAGGCCGACGATACTTGCAGACCGAGTCT
GACATCTATGGGACCCCACTCTACCCTGCGCCTCAGGGGCCGGGACAACCGTGACCCGTACCGACTCCT
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GTCTCCTTCCCTTCGTTAATTAGTCCATCGCATTTCAAGTGTGGATCCTTTTGTCCCCTACTGCGTGC
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CTTCCCATCTCCAAGGACCAGCCTCGGGTGAGCGCCGCGCAGCGAGCAGCCAGAGGGCAGGAAGGGTA
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AGGACAAAATGGGTTTAGTGGTTGATTGCCATCAGCCCCGAGTTGTCTAGACAATGGGGTATTGGACTC
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CCCTCGAAAAAGCCTAATGGCTGTTTCTTTTGACAAGTGACGGGAGATGGCTAACCTCTGACGCTTAGA
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GATTTCCAGTATTATCCTTTGCCAGCAGTGAAGTCCATTCTGTACAGCTCTGTGTCTGATACAAGGCA
CATAGATTCTGTACTTACCATCCCCAAATTGCAATGTCTCAGACTCAGGCTTAGAGCATGGCATGAACAT
CAAAGGCAAGAACCTGTTTATCTTTGAATTGGAAGATACAGCAAAATTACACTGTTTGGAAATACGAAT
AGAGGAGTGAAAATTGTTGCAGTGGGTACCCAAAGGGATTGAGACCTCAAGTTTTTTTTCATCTTGTA
TCCTTCAGGTCCTTGGCCCTGGCCAATGTGGCATTAAATTGACTACACTCTGGAATTCCTGACTGCCAC
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CCTGCACTTTTCTTCCATGTTTCGCCATCTTTTCCAGTTTTTTCAGGATGAATGTAAGGGAAGGGGAA
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GGAGGTGAGCAGCTGAACTTTGTATCTGTCTGTCTGGGTTTTCTGTGACAAAGATTAAGAATAAAT
TGGGTTTTTCTGAATCTCATT

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5' Read Nucleotide Sequence:	>OriGene 5' read for AK056400 unedited NGGGGGACCCCCCTNTCTCCCCNNNGGGTTCGCATTTTGTAAACGACTTTTATAGG GCGGCCGCGAATTCGCACGAGGATGGCGGCCCTTTTTGGCGCCGCTGGTGTGGTGGT TAGTCGGGCTAACAAAGCGCAGCGCGCGGGCCGGGAGGCAGCGGTGGCGGGGAGCCAG AGGGGCGGAGGAGGAACCGCCGCCGCCCTACAAGCAGTTCTGGTGGCCGATAGCTTCGA TCGCCGCTTCTCCCCATCTCCAAGGACCAGCCTCGGGTGAGCGCCGCGACGCGAGCAG CCAGAGGGCAGGAAGGGTGGCAGGGCTGGAGCAAGTTCTATTTTCGGCTAACTACAACAG CATGCCCTTGAAGGACCTGCGTCTATGCTGTTATCCTAAAACCGGATGCAGAGGGACTGT CTAAACCTGATGACTGCTGACCAAGTTAGTGGCCGCGAGATTTGGGCATTCTGTAATGCT GTCCACCTCGGGTTTGAAGGAATGAAGAGAGCTAAATGTAGAAACAGCGCTTGAGAGAA GCCTTCACGCGGGGATTCACTGCCCTAGAAGAGGCTGCGCCGCTTTAACCTTGCCGAT GACGGTTGCTTANGTGAAAAGAAACGACCTTTGCCTCTNGAAGGGCCGTAATATGCCTT TAAAGAGCGGGTAGATCTCANGCAGTGATTTTTTTTTTTCTTCCAGTTCTAATGAT AGCCCGGGCTATCTGTCGAAAGGACAAATGGGTTTAGTGGTTGATTGCATCAGCCCCGA GTGTCTAACATGGGGATTGGACTCANGTGGTCGTTACAGTCATTTAGAAAGAGGGACT GCATTGATTTAGGGAAATCCTTTTTATTCTTCAAAGCTATAGCTGTTATTTTGGCAT GACCGGAATGGTTCCTTTGCCCTTAAAGGGTTCAGGAANAATCTTTGGGAAAAGCCTTA CCAGCTTT
Restriction Sites:	NotI-NotI
ACCN:	AK056400
Insert Size:	1700 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:	A TrueClone.
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:	AK056400.1
RefSeq Size:	2542 bp
RefSeq ORF:	2542 bp
Locus ID:	8893
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]