

Product datasheet for **SC126863**

FE65 (APBB1) (NM_145689) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_145689) Human Untagged Clone
Tag:	Tag Free
Symbol:	FE65
Synonyms:	FE65; MGC:9072; RIR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_145689, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGTTCCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACGGAGGCCCGCACTGAGCC
TACCCCTGCCTCTGCACGCTGCCACAACCAGCTGCTCAACGCCAAGCTGCAGGCCACAGCTGTGGGACC
CAAGACCTGCGCAGCGCCATGGGGAGGGTGGTGGCCCTGAGCCAGGCCCTGCCAATGCCAAGTGGCTA
AAAGAGGGCCAGAACCAGCTCCGGCGGGCCGCCACGGCCACCGTGACCAGAATCGCAATGTGACCTTGA
CCTTGGCGGAGGAGGCCAGCCAGGAGCCTGAGATGGCACCCCTTGGGCCCAAAGGCTGATACACCTGTA
CTCTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCTACGAGGACCTGGCCTGATCAGC
ACTCAAGAGCAGGGGCCAGATGAGGGAGAGGAGAAGGGCGCCGGGGAGGCCGAGGAGGAGGAGGATG
ATGATGATGAAGAGGAGGAGGAGGACTTATCTTCTCCCCAGGGTGCCTGAGCCCTGGAGAGTGTGA
GGCCCTCCAGGCCCAAGCCCTTACAGATGGCCCCGGGAACACAGCAAGAGTGCCAGCCTCCTGTTT
GGCATGCGGAACAGTGCAGCCAGTGATGAGGACTCAAGCTGGGCTACCTTATCCAGGGCAGCCCTCCT
ATGGCTCCCAGAGGACACAGATTCTTCTGGAACCCCAACGCCTTCGAGACGGATTCGGACCTGCCGGC
TGGATGGATGAGGGTCCAGGACACCTCAGGGACCTATTACTGGCACATCCAACAGGGACACCCAGTGG
GAACCCCGGGCGGGCCTCCCCCTCACAGGGGAGCAGCCCCAAGAGGAGTCCCAGCTCACCTGGACAG
GTTTTGCTCATGGAGAAGGCTTTGAGGATGGAGAATTTTGAAGGATGAACCCAGTGATGAGGCCCAAT
GGAGCTGGGACTGAAGGAACCTGAGGAGGGGACGTTGACCTTCCCAGCTCAGAGCCTCAGCCAGAGCCG
TTGCCCAAGAGGAGGAGAAGCTTCCCCACGGAATACCAACCCAGGGATCAAGTGTTTCGCCGTGCGCT
CCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCTGGACGCAGCAGTGTGGCAGTCAACAATTG
CATCCGTCAGCTCTTACCACAAAAACAACCTGCATGACCCCATGTCTGGGGCTGGGGGAAGGAAAG
GATCTGCTACTGCAGCTGGAGGATGAGACACTAAAGCTAGTGGAGCCACAGAGCCAGGCACTGTCACG
CCCAACCCATCATCAGCATCCGCGTGTGGGGCGTCGGGCGGGACAGTGGAAAGGACTTTGCCTACGTAGC
TCGTGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC
ACCAGCCTGCATGAGATCTGCTCTAAGATCATGGCCGAACGGCGTAATGCCCGCTGCTTGGTAAATGGAC
TCTCCCTGGACCACTCTAACTTGTGGATGTCCCTTTCCAAGTGAATTCACAGCGCCTAAGAATGAGTT
GGTCCAGAAGTTCGAAGTCTATTACCTGGGGAATGTACCTGTTGCTAAACCTGTTGGGGTAGATGTGATT
AATGGGGCCCTCGAGTCAGTCTGTCTCCAGCAGCCGTGAACAATGGACCCCAAGTCATGTCAGTGTGG
CCCCTGTACCCTCACCATCTTGCACCAGCAGACAGAGGCACTGCTGGGAGAGTGTGGGTGCGTTTCT
CTCCTTCTGGCGTGGCAGAGATGTCCACACGTTTGCATTATCATGGCTGCCGGCCAGCCTCCTTC
TGCTGCCACATGTCTGGTGCAGCCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAGGCTGCGTGATGC
TTGCTACCAGAAGTGTCTGGATGCCCGTTCAGGCCTCCACCTCCTGCCTCCCAGCACCCCTGCTGA
GTCTGTGGCACGGCGTGTAGGGTGGACTGTCCGCAGGGGTGTTCAAGTTCGCTGTGGGGCTCCCTGAAGCC
AAACGGCTGGGGGCCATACCCCATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_145689 unedited</p> <pre>CTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTGTGATGGAGAAGCCGCGCGGAG CCCGAACCCCGCAGCCTGAGCCACCTCCGTCATCTGGGCCCGGGCCACCCGCGCAGGA GCTGCCAAGGCCATGTCTGTTCCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGC CACGGAGGCCCGCACTGAGCCTACCCCTGCCTCTGCACGCTGCCACAACCAGCTGCTC AACGCCAAGCTGCAGGCCACAGCTGTGGGACCCAAGGACCTGCGCAGCGCCATGGGGGAG GGTGGGTGGGCCCTNANCCCAAGCCCCCTGGCCAATGCCTATGTGGCTACACTGAGGGCC CGGACCCAGCTCTCGGCGTGCACGACACGTGACCACCGTGACCAAGAATCACACTTGGGA CTTTGACCCCTTGCGGTAGGATGCCTAACCCAGGAATCCTGAAGATGGCACCCCTTGCT ACCCAAAGGCACAGATACACCCTGTAGCTCTGAGCTAGCAGCTCGTCACATAACTGTGA TGCCAACCGACGGCCTACTAGGAACCTGTACCGATCATTACCTTCTGAATATTCTGAC CTGATGATGGACACGAGAAAGCCACCTGAAAAGCCGTTTGTCCCATGAGAATATTAGCA ATATCTGGAGGCCATTTCTTTGTACAGCCTCTTAATGCTTAAAACCACGGACGACGCT CACAATCAGACTGGCCAGCCACCTGCCCCCGGCAAGAATTATGCAGCCTTGTGCTA CGCTGAGGATCCCTGTTTCTACCCACATTGGGCTCGGCCACCCTGCACTTTTACCAC CTGCAAAAATTCACCTTTTTTTTTTAAATAACAATTGAACTCGCGCCCCAAAGCTTGGAA AATCCTTTCCCAATAACTTGTCTTTGCCCCGAAGGAGGCTTACTTCTTAAACCAAGA AGGAACAACCGGTTTGTGTCTTTCCCTGTTTACCGTGGCGCCCCAGATTTTCCGCTCT TTCCAGCCTGCCACGCTGGCT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_145689 unedited</p> <pre>CGGGCAGCCTTCTATNATCGAGTTTTTTTTTTTTTTTTTTCAGAGCAGACAGACTTTA TTAGTGATATCAATACAGCAGAGGTGCCATGGAGCAGGGGAAGGGACCCATGCCTGGA CCAGTCCCTTCTCCTTCTGCCCCGCTGGGTCCAGGAGGATGAGGCCTGGCCTGGACCA GTTCTCCTGTTCCACCTGAAACACATGGGGATGGAGAACCAGGGCTGGCCTTGCTTCT GCTCCTCTTGTACCCTCCAGTGTATCACTTCTTGAAGGGATTAGATCTCTCCCTCC CCAGCTCTAGGCAGGGAACCGTAGCTACTGGGGAGGGGCATATTTGGGAGGCCTGAGGC CTATGAATAGCCTCTAGACCCCTCCCTGACCCACACCCCTTAGTCCCTGGGGCCCAACA CAAGCAGGTGGAGGGAAGGTGGGGCTTCTTATGGGGTATGGGCCCCAGCCGTTGGG CTTCAGGAGCCCCACAGCGACTGAACACCCCTGCGGACAGTCCACCCTACACGCGTGC CACAGACTCAGCAGGGGGTCTGGGAGGAGGAGGTGGAGGCCTGGGAACGGGCATCCAG ACACTTCTGGTAGCGAAGCATGCACGCAGCCTGCACAGCCTCTGAGAGGCTGGCAGCATT GGGCTCGCACCAGAACATGTGGCAGCAGAAGGAGGCTGGGCCGCGCAGCCATGATGAATGC AAACGTGTGGACATCTCTGCCACGCCAGNAAGAGAGGAAACGCACCCGACACTCTCCCC ACACTGCCTCTGTCTGCTGGTGAAGATGTTGAGGGTAGCAGGGGCCACTGACATGACT TGGGTCCATAGNTCACGGCTGCTGGAGGACAGACTGACTCGAGGGGCCCTTATCACATT TACCCACAGTTTAGCAACAGTACATCCCACGTATAGACT</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_145689
Insert Size:	2820 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_145689.1](#), [NP_663722.1](#)

RefSeq Size: 2634 bp

RefSeq ORF: 2127 bp

Locus ID: 322

UniProt ID: [O00213](#)

Cytogenetics: 11p15.4

Domains: WW, PID

Protein Families: Transcription Factors

Protein Pathways: Alzheimer's disease

Gene Summary: The protein encoded by this gene is a member of the Fe65 protein family. It is an adaptor protein localized in the nucleus. It interacts with the Alzheimer's disease amyloid precursor protein (APP), transcription factor CP2/LSF/LBP1 and the low-density lipoprotein receptor-related protein. APP functions as a cytosolic anchoring site that can prevent the gene product's nuclear translocation. This encoded protein could play an important role in the pathogenesis of Alzheimer's disease. It is thought to regulate transcription. Also it is observed to block cell cycle progression by downregulating thymidylate synthase expression. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate, in-frame exon in the coding region compared to variant 1. This results in a protein that maintains the reading frame but is a shorter isoform (b, also known as delta E9), compared to isoform a. This encoded isoform (b) is widely expressed in all non-neuronal cells but is not expressed in differentiated neurons.