

Product datasheet for **SC111588**

FE65 (APBB1) (NM_001164) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FE65 (APBB1) (NM_001164) 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_001164, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGTTCCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACGGAGGCCCGCACTGAGCC
TACCCCTGCCTCTGCACGCTGCCACAACCAGCTGCTCAACGCCAAGCTGCAGGCCACAGCTGTGGGACC
CAAGACCTGCGCAGCGCCATGGGGAGGGTGGTGGCCCTGAGCCAGGCCCTGCCAATGCCAAGTGGCTA
AAAGAGGGCCAGAACCAGCTCCGGCGGGCCGCCACGGCCACCGTGACCAGAATCGCAATGTGACCTTGA
CCTTGGCGGAGGAGGCCAGCCAGGAGCCTGAGATGGCACCCCTTGGGCCCAAAGGCTGATACACCTGTA
CTCTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCTACGAGGACCTGGCCTGATCATCAGC
ACTCAAGAGCAGGGGCCAGATGAGGGAGAGGAGAAGGGCGCCGGGGAGGCCGAGGAGGAGGAGGATG
ATGATGATGAAGAGGAGGAGGAGGACTTATCTTCTCCCCAGGGTGCCTGAGCCCTGGAGAGTGTGGA
GGCCCTCCAGGCCCAAGCCCTTACAGATGGCCCCGGGAACACAGCAAGAGTGCCAGCCTCCTGTTT
GGCATGCGGAACAGTGCAGCCAGTGTGAGGACTCAAGCTGGGCTACCTTATCCAGGGCAGCCCTCCT
ATGGCTCCCAGAGGACACAGATTCCTTCTGGAACCCCAACGCCTTCGAGACGGATTCGACCTGCCGGC
TGGATGGATGAGGGTCCAGGACACCTCAGGGACCTATTACTGGCACATCCAACAGGGACCACCCAGTGG
GAACCCCGGGCGGGCCCTCCCCCTCACAGGGGAGCAGCCCCAAGAGGAGTCCCAGCTCACCTGGACAG
GTTTTGCTCATGGAGAAGGCTTTGAGGATGGAGAATTTTGAAGGATGAACCCAGTGTGAGGCCCAAT
GGAGCTGGGACTGAAGGAACCTGAGGAGGGGACGTTGACCTTCCCAGCTCAGAGCCTCAGCCCAGAGCCG
TTGCCCAAGAGGAGGAGAAGCTTCCCCACGGAATACCAACCCAGGGATCAAGTGTTTCGCCGTGCGCT
CCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCTGGACGCAGCAGTGTGGCAGTCAACAATTG
CATCCGTCAGCTCTTACCACAAAAACAACCTGCATGACCCATGTCTGGGGCTGGGGGAAGGAAAG
GATCTGCTACTGCAGCTGGAGGATGAGACACTAAAGCTAGTGGAGCCACAGAGCCAGGCACTGCTGCACG
CCCAACCCATCATCAGCATCCGCGTGTGGGGCGTCGGGCGGGACAGTGAAGAGAGAGGGACTTTGCCTA
CGTAGCTCGTGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAAC
ATCGCCACCAGCCTGCATGAGATCTGCTAAGATCATGGCCGAACGGCGTAATGCCCGCTGCTTGGTAA
ATGGACTCTCCCTGGACCACTCTAAACTTGTGGATGTCCCTTTCCAAGTGAATTCACAGCGCTAAGAA
TGAGTTGGTCCAGAAGTCCAAGTCTATTACCTGGGGAATGTACCTGTTGCTAACCTGTTGGGGTAGAT
GTGATTAATGGGGCCCTCGAGTCAGTCTGTCTCCAGCAGCCGTGAACAATGGACCCCAAGTCATGTCA
GTGTGGCCCTGTACCCTCACCATCTTGACACAGCAGACAGAGGCAGTGTGGGAGAGTGTGGGTGCG
TTTCTCTCTTCTGGCCGTGGGCAGAGATGTCCACACGTTTGCATTATCATGGCTGCCGGCCAGCC
TCCTTCTGCTGCCACATGTTCTGGTGCGAGCCCAATGCTGCCAGCCTCTCAGAGGCTGTGCAAGGCTGCGT
GCATGTTGCTACCAGAAGTGTCTGGATGCCCGTTCACAGGCCTCCACCTCCTGCTCCAGCACCCCC
TGCTGAGTCTGTGGCACGGCGTGTAGGGTGGACTGTCCGCAGGGGTGTTGAGTGTGGGGCTCCCTG
AAGCCCAACGGCTGGGGCCCATACCCATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001164 unedited
 TTCAAATTTTGTAAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGAGCCCCG
 AACCCCGCAGCCTGAGCCACCTCCGTCACTCTGGGCCCGGGGCTCACCGCGCAGGAGCTG
 CCAAGGCCATGTCTGTTCCATCATCACTGAGCCAGTCGGCCATTAATGCCAACAGCCACG
 GAGGCCCGCAGCTGAGCCTACCCCTGCCTCTGCACGCTGCCACAACCAGCTGCTCAACG
 CCAAGCTGCAGGCCACAGCTGTGGGACCCAAGGACCTGCGCAGCGCCATGGGGGAGGGTG
 GTGGCCTGAGCCAGGCCCTGCCAATGCCAAGTGGCTAAAAGAGGGGCCAGAACCAGCTCC
 GCGGGCCGCCACGGCCACCGTGACCAGAATCGCAATGTGACCTTGACCTTGGCGGAGG
 AGGCCAGCCAGGAGCCTGAGATGGCACCCCTGGGCCCAAAGGCCTGATACACCTGTACT
 CTGAGCTGGAGCTCTCAGCTCACAACGCAGCCAACCGAGGCCTACGANGACCTGGCCTGA
 TCATCAGCACTCAAGAGCAGGGCCANATGANGGAGAAGAGAAAGCGCCGNGAAGCCC
 ANNGAGANGANGATGATGATGATGAAAAAGATNGAGGAGACTTATCTTTCTTCCCA
 GGGCTGCCCTGAGCCCCTGGAGAGTGTGGAAGGCCCTCCAAGCCCCAAGCCCTTAC
 AGAGGCCCCCGGAACCAAGCAGAAGGCCAGCCCTCTGTTTGGCATTGCGGAAAGT
 GCACCCAGTGATGAAGACTTAACCTTGGCTACCTTATCCAAGGCAAGCCCTCTATGGTTC
 CCAGAAGAAACAAAATCCTTTGGAACCCACGCCTTCAAACGTATCCAACCTGCGCCTT
 TATGATAAAAGGTCCAACACACCTTAGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001164 unedited
 GTACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTATAGCAGTGCAGACAG
 ACTTTATTAGTGATATCAATACAGCAGAGGTGCCCATGGAGCAGGGGGAAGGGACCCATG
 CCTGGACCACTCCCTTCTCCTTCTGCCCTGCTGGGTCCAGGAGGATGAGGCCTGGCCT
 GGACCACTTCTCCTGTTCCACCTGAAACACATGGGGATGGAGAACCAGGGCTGGCCTTG
 CTCTCTGCTCCTCTTGTACCCTCCAGTGTATCACTTCTTGAAGGGATTAGATCTCT
 CCCTCCCCAGCTCCTAGGCAGGGAACCGTAGCTACTGGGGAGGGGCATATTTGGGAGGCC
 TGAGGCCATAGGAATAGCCTCTAGACCCCTCCCTGACCCACACCCTTATGTTCCCTGGGGC
 CCAACACAAGCAGGTGGAGGGAAGGTGGGGCTTCTTCATGGGGTATGGGCCCCAGCCG
 TTTGGGCTTCAGGGAGCCCCACAGCGACTGAACACCCCTGCGGACAGTCCACCCTACAGC
 CCGTGCCACAGACTCAGCAGGGGTGCTGGGAGCAGGAGGTGGAGGCCTGGGAACGGCC
 ATCCAGCACTTCTGGTAGCGAAGCATGCACGCAGCCTGCACAGCCTCTGAGAGCTGGC
 AGCATTGGGCTCGACCCAGAACATGTGGCAGCAGAAGGAGGCTGGGCCGCGCAGCCATGAT
 GAATGCAAACGTGTGGACATCTCTGCCACGCCAGNAAGGAGAGGAAACGCCACCCGACAC
 TCTCCAGCACTGGCTCTGTCTGCTGGTGAAGATGGTGAAGGTAGCAGGGGCCACACTG
 ACATGACTTGGNGTCCATTGTTACGGCTGCTGGAGACCAGACTGACTCNAGGGCCCCAT
 TATCACATCTACCCAACAGGTTTAGCACAGGTACATC

Restriction Sites:

NotI-NotI

ACCN:

NM_001164

Insert Size:

2680 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:	<ol style="list-style-type: none">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:	<u>NM_001164.2, NP_001155.1</u>
RefSeq Size:	2653 bp
RefSeq ORF:	2133 bp
Locus ID:	322
UniProt ID:	<u>O00213</u>
Cytogenetics:	11p15.4
Domains:	WW, PID
Protein Families:	Transcription Factors
Protein Pathways:	Alzheimer's disease
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a, also known as E9). This isoform is exclusively expressed in neurons.</p>