

## Product datasheet for **RC219752**

### APBB3 (NM\_133173) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	APBB3 (NM_133173) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APBB3
Synonyms:	FE65L2; SRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC219752 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCTGGCAAGGATTACATGCTGGCCATCATTCTGGTCAACTGCGATGATGACTTGTGGGGGACCACA  
 GTCTGGAGGTGGAGGCTGCCTGCCTCCTGGCTGGAGGAAGATCCACGATGCTGCAGGTACTIONACTACTG  
 GCATGTACCCAGCGGTAGCACCCAGTGGCAGCGCCCAACCTGGGAAGTAGGAGATGCAGAGGACCCAGGC  
 ACGGGAACGGAGGGGATCTGGGACTGCGGCCCCCAAGGGAGATCCTTCTCCAGCCTGGAGAGTTCAC  
 TGGACCGGAGTAACCTCTGTCTGGTATGGTGGGGAATCCTACATCCAGAGCATGGAGCCAGGGGCTAA  
 GTGCTTTGCAGTCCGCTCTCTGGGCTGGGTAGAGGTACCTGAAGAGGACCTGGCACCAGGGGAAGAGCAGT  
 ATTGCAGTCAATAACTGTATCCAGCAGCTGGCCAGACCCGAGCCGAGCCAGCCTCCAGATGGTGCCT  
 GGGGTGAGGGCCAGAATGCTGATGATCCTGAAGAAGGATGCCATGAGCCTAGTGAATCCCCTGGACCA  
 CAGTCTGATCCACTGCCAGCCTCTGGTGCACATCCGTGTGTGGGCGTGGGGAGCTCCAAGGGCCGTGAC  
 AGGGACTTCGCTTTTGTGGCAAGTGACAAAGATAGCTGTATGCTCAAGTGCCATGTGTTTCGCTGTGATG  
 TCCTGCCAAGGCCATTGCCAGTGCCTACATGGGCTTTGTGCCAGATCTTGTGAGAGCGAGTAGAGGT  
 CAGTGGTGTGCTCTTGTGCTCCCGAGACCCATCTCTCTGAAGACCTGCCACGGCAAGTGGAGCTG  
 CTGGATGCGGTAAAGCAAGCTGCTCAGAAGTACGAGGCACTGTATATGGGGACTGCCAGTACCAAGG  
 CCATGGGCATGGATGTGCTGAACGAGGCCATTGGTACCCTACCAGCCAGGGGGGACCCGGAATGCCTGGGT  
 CCCACCATGCTCAGTGTGCTGACTCTCTCATGACTGCACACCCATTACAGGAGAGCCAGTACAGAG  
 GAGGAGCCATTGTGGCAGTGCCTGTGCGCCTTGTGACATTTATTGGTGTGGCCGCGACCCACACACCT  
 TTGGCCTCATCGCTGACTGGGCCGTGAGAGCTCCAGTGGCAGCCTTCTGGTGGCAGCCCAAGGAGG  
 GGGACTCTCTGAAGCTGTGACAGGCTGCCTGTATGGTTTCCAGTACCAGAAAGTGTCTTGTGGCCTCTGACGT  
 CGAGGCAAGGCCCTGGGGTGGCCAGGCCCTGCCCCGCTGCGGCTCAAGCGGACCAGCTCCATGGATTCCC  
 CAGGAGTCCCCTGCCCTCCCCTGCTCAAAGGAGGGTTGGCGGTGCAGGGGCAACCCCTCGAAAGCG  
 GGGTGTCTTCTCTTCTTGTGATGCCTCCGGCTGAAACCTCTCTGCTCCATATGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219752 protein sequence  
 Red=Cloning site Green=Tags(s)

MLGKDYMLAIIILVNCDDDLWGDHSLVEAGLPPGWRKIHDAAGTYWHVPSGSTQWQRPTWELGDAEDPG  
 TGTEGIWGLRPPKGRSFSLESSLDRSNLSWYGGESYIQSMEPGAKCFAVRSLGWVEVPEEDLAPGKSS  
 IAVNNCIQQLAQTRSRSQPPDGAWGEGQNMLMILKGDAMSLVNPLDHSLIHCQPLVHIRVWGVGSSKGRD  
 RDFAFVASDKDSCMLKCHVFRCDVPAKAIASALHGLCAQILSERVEVSGDASCCSPDIPSPEDLPRQVEL  
 LDVAVSQAQKYEALYMGTLPVTKAMGMDVLNEAIGTLTARGDRNAVPTMLSVSDSLMTHAPIQAEASTE  
 EEPLWQCPVRLVTFIGVGRDPHTFGLIADLGRQSFQCAAFWCQPHAGGLSEAVQAACMVQYQKCLVASAA  
 RGKAWGAQARARLRKRTSSMDSPPGGLPLPLLKGGVGGAGATPRKRGVFSLLDAFRLKPSLLHMP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6303\\_f09.zip](https://cdn.origene.com/chromatograms/mk6303_f09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133173

**ORF Size:** 1458 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_133173.2](#)
**RefSeq Size:** 2146 bp

**RefSeq ORF:** 1461 bp

**Locus ID:** 10307

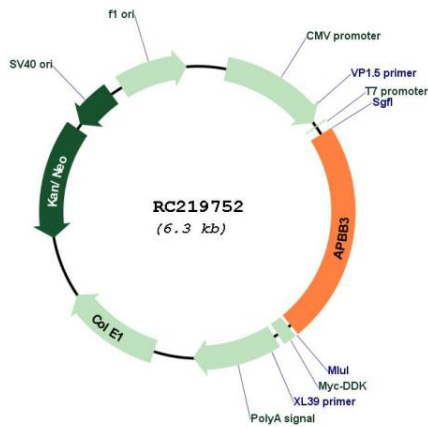
**UniProt ID:** [O95704](#)
**Cytogenetics:** 5q31.3

**Domains:** WW, PID

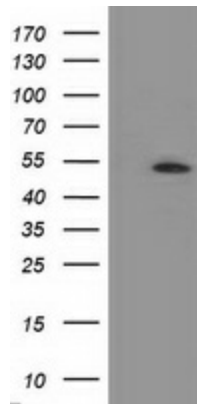
**MW:** 52.6 kDa

**Gene Summary:** The protein encoded by this gene is a member of the APBB protein family. It is found in the cytoplasm and binds to the intracellular domain of the Alzheimer's disease beta-amyloid precursor protein (APP) as well as to other APP-like proteins. It is thought that the protein encoded by this gene may modulate the internalization of APP. Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

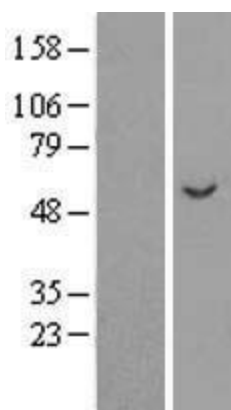
**Product images:**



Circular map for RC219752



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY APBB3 (Cat# RC219752, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-APBB3 (Cat# [TA503752]). Positive lysates [LY408843] (100ug) and [LC408843] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408843]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219752 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).