

Product datasheet for **RC228577**

APBB2 (NM_004307) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APBB2 (NM_004307) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APBB2
Synonyms:	FE65L; FE65L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC228577 representing NM_004307
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGAAGTACTTCCAGCTGACTCAGGTGTTGACACCTTGGCAGTGTTTATGGCCAGCAGCGGAACTA
 CAGACGTACAAAATCGGAACAGCCAGCCACACCACAAACACCCCTTAACCTCCGATCCTCCACAAATGA
 ACTGTTGAACGCTGAAATAAAACACACAGAAAACCAAGAACAGCACACCTCCCAAATGCAGGAAAAATAT
 GCACTAACTAACATCCAGGCGGCCATGGCCTCTCGGATCCAGCTGCACAGCCCTGCTGGGAAATGGCT
 CTGCCAACATCAAGCTGGTGA AAAATGGGGAGAACCAGCTCCGTAAGGCTGCAGAGCAAGGGCAGCAGGA
 CCCCACAAAACCTGAGCCCACTGCAGTCATCAACATAACTTCTGAGAAGTTAGAGGGTAAAGAGCCC
 CACCCACAGGATTCCTCGAGCTGTGAGATTTTACCCTCCAGCCAGGAGAACTAAGAGCTTCCTAAATT
 ACTATGCAGATCTGGAACCTCAGCCAGAGAAGTACAGCAGAACCGAGGCAATCACCATGGGACTGCGGA
 AGAGAAATCCCAGCCAGTCCAGGGCCAGGCTCCACCATCATTGGGAATGGCGATTTGCTGCTGCAGAAA
 CCAAACAGACCCAGTCCAGCCCTGAAGACGGCCAAGTAGCCACAGTGTATCCAGCCAGAAAACCAAGA
 AGGATCATCCGAAAACAGGGGCCAAAACCGACTGTGCACTGCACCCGATCCAGAACCTGGCACCGAGCGA
 TGAGGAGTCCAGCTGGACAACGTTGTCCCAAGACAGTGCCTCACCCAGCTCCCGGATGAAAACAGCAGAT
 ATATGGAGTGTCACTCATTTCAGACTGATCCAGATTTGCCGCTGGCTGGAAAAGAGTCAGTGACATTG
 CCGGGACCTATTATTGGCACATCCCAACAGGAACGACTCAGTGGGAACGGCCCGTCTCCATCCCAGCAGA
 TCTCCAGGGTTCTAGGAAAGGGTCACTTAGTTCTGTAACGCCATCTCCACCCAGAGAACGAGAAAACAG
 CCATGGAGTGATTTTGTGTTCTGAATGGGGAAAAGATTAATAGTGACATTTGGAAGGATTTGCATGCAG
 CCACTGTTAACC CGGACCCAGTTTAAAAGAGTTGAAGGAGCAACCCTACGCTATGCATCTTTGAAACT
 CAGAAATGCCCCACACCCTGATGATGATTCTTGATAGTATCAACAGTGACCCAGAAGCCAAGTGT
 GCTGTGCGTTCTCTGGGATGGGTAGAGATGGCAGAAGAGGACCTCGCCCCGGTAAAAGTGTGTTGCGG
 TCAACAACTGCATCAGGCAACTTCTACTGCAAAAATGACATCCGAGACACAGTCGGGATTTGGGGAGA
 GGGGAAAGACATGTACCTGATCCTGGAGAATGACATGCTCAGCCTGGTGGACCCCATGGACCGCAGCGTG
 CTGCACTCGCAGCCATCGTCAGCATCCGCGTGTGGGCGTGGGCCGCGACAATGGCCGGGATTTTGCTT
 ATGTAGCAAGAGATAAAGATAACAAGATTTTGAATGTCATGATTTTCGATGTGACACACCAGCAAAAGC
 CATTGCCACAAGTCTCCACGAGATCTGCTCCAAGATTATGGCTGAACGGAAGAATGCCAAAGCGCTGGCC
 TGCAGCTCCTTACAGGAAAGGGCAATGTGAACCTCGATGTCCCTTTGCAAGTAGATTTTCAACACCAA
 AGACTGAGCTGGTCCAGAAGTCCACGTCAGTACTTGGGATGTTACCTGTAGACAAACAGTCCGGAAT
 GGATATTTTGAACAGTGCCATAGAAAATCTTATGACCTCATCCAACAAGGAGGACTGGCTGTCAAGTGAAC
 ATGAACGTGGCTGATGCCACTGTGACTGTATCAGTGA AAAAGAATGAAGAGGAAGTCTTAGTGGAATGTC
 GTGTGCGATTCTGTCTTCATGGGTGTTGGGAAGGACGTCACACATTTGCCTTCATCATGGACACGGG
 GAACCAGCGCTTTGAGTGCCACGTTTTCTGGTGCAGCCTAATGCTGGTAACGTGTCTGAGGCGGTGCAG
 GCCGCTGCATGTTACGATATCAGAAGTCTTGGTAGCCAGGCCGCTTCTCAGAAAGTTCGACCACCTC
 CACCGCCAGCAGATTCAGTAACCAGAAGAGTACAACCAATGAAAACGAGGGTCTTATCCCTCATTGA
 CACTTTGAAACAGAAACGCCCTGTACCGAAATGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228577 representing NM_004307
 Red=Cloning site Green=Tags(s)

MSEVLPADSGVDTLAVFMASSTGTTDVTNRNSPATPPNTLNLRSSHNELLNAEIKHTETKNSTPPKCRKKY
 ALTNIQAAMGLSDPAAQPLLGNLSANIKLVKNGENQLRKAAEQGQDPNKNLSPTAVINITSEKLEGKEP
 HPQDSSSCEILPSQPRRTKSFLNYYADLETSARELEQNRGNHHGTAEKSSQPVQGGASTIIGNGDLILLQK
 PNRPQSSPEDGGVATVSSSPETKKDHPKTGAKTDCALHRIQNLAPSDEESSWTTLSQDSASPSSPDETAD
 IWSDHSFQTDPLPPGWKRVSIDAGTYWHIPTGTTQWERPVSIADLQGSRKGLSSVTPSPTENEKQ
 PWSDFAVLNGGKINSIDIWKDLHAATVNPDP SLKEFEGATLRYASLKL RNAPHPDDDDSCSINSDPKACF
 AVRSLGWVEMAEEDLAPGKSSVAVNNCIRQLSYCKNDIRDVTGIVGEGKMYLILENDMLSLVDPMDRSV
 LHSQPIVSIIRVWGVGRDNGRDFAYVARDKTRILKCHVFRCDTPAKAIATSLHEICSKIMAERKNAKALA
 CSSLQERANVNLDPVLPQVDFPTPKTEL VQKFHVQYLGMLPVDKPVGMDILNSAIENLMTSSNKEDWLSVN
 MNVADATVTVISEKNEEEVLVECRVRF L SFGVGVKDVHTFAFIMDTGNQRF ECHVFVWCEPNAGNVSEAVQ
 AACMLRYQKCLVARPPSQKVRPPPPPADSVTRRVTTNVKRGVLSLIDTLKQKRPVTEMP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_004307

ORF Size: 2277 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_004307.2](#)

RefSeq ORF: 2280 bp

Locus ID: 323

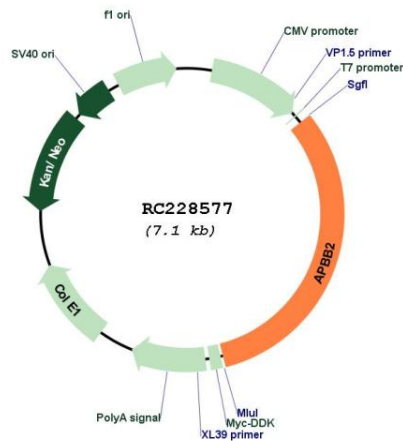
Cytogenetics: 4p14-p13

Protein Families: Transcription Factors

MW: 83.3 kDa

Gene Summary: The protein encoded by this gene interacts with the cytoplasmic domains of amyloid beta (A4) precursor protein and amyloid beta (A4) precursor-like protein 2. This protein contains two phosphotyrosine binding (PTB) domains, which are thought to function in signal transduction. Polymorphisms in this gene have been associated with Alzheimer's disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC228577