

Product datasheet for **RG228761**

APBB2 (NM_001166053) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APBB2 (NM_001166053) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	APBB2
Synonyms:	FE65L; FE65L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG228761 representing NM_001166053
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCAGAAGTACTTCCAGCTGACTCAGGTGTTGACACCTTGGCAGTGTTTATGGCCAGCAGCGGA
CAGACGTACAAAATCGGAACAGCCAGCCACACCACAAACACCCCTAACCTCCGATCCTCCACAATGA
ACTGTTGAACGCTGAAATAAAACACACAGAAACCAAGAACAGCACACCTCCCAAATGCAGGAAAAATAT
GCACTAACTAACATCCAGGCGGCCATGGCCTCTCGGATCCAGCTGCACAGCCCTGCTGGGAAATGGCT
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CCCCAACAAAACCTGAGCCCACTGCAGTCATCAACATAACTTCTGAGAAGTTAGAGGGTAAAGAGCCC
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CCAGGGTCTAGGAAAGGGTCACTTAGTTCTGTAAACGCCATCTCCACCCAGAGAACGAGGATTTGCAT
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GGAACAGCGCTTTGAGTGCCACGTTTTCTGGTGCAGCCTAATGCTGGTAACGTGTCTGAGGCGGTGCA
GGCCGCTGCATGTTACGATATCAGAAGTGCTTGGTAGCCAGGCCGCTTCTCAGAAAAGTTCGACCACCT
CCACCGCCAGCAGATTAGTAACCAGAAGAGTCAACCAATGTAACGAGGGGTCTTATCCCTCATTG
ACACTTTGAAACAGAAACGCCCTGTACCGAAATGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228761 representing NM_001166053
 Red=Cloning site Green=Tags(s)

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MSEVLPADSGVDTLAVFMASSTGTTDVTNRNSPATPPNTLNLRSSHNELLNAEIKHTETKNSTPPKCRKKY
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WSDHSFQTDPDLPPGWKRVSDIAGTYWHIPTGTTQWERPVSIADLQGSRKGSLSVTPSPPTPENEDLH
AATVNPDPPLKEFEGATLRYASLKLRNAPHDDDDSCSINSNDPEAKCFVRSGLGWVEMAEDLAPGKSSV
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AYVARDKDTRILKCHVFRCDTPAKAIATSLHEICSKIMAERKNAKALACSSLQERANVLDVPLQDFPTP
KTEL VQKFHVQYLGMPLVDKPVGMDILNSAIENLMTSSNKEDWLSVNMNVADATVTVISEKNEEVLVEC
RVRFLSFMGVGKDVHTFAFIMDTGNQRFECHVFWCEPNAGNVSEAVQAACMLRYQKCLVARPPSQKVRPP
PPPADSVTRRVTTNVKRGVLSLIDTLKQKRPVTEMP
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TRTRPLE - GFP Tag - V

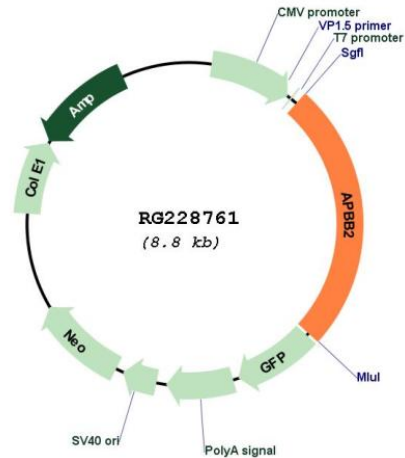
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001166053

ORF Size: 630 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_001166053.1](#), [NP_001159525.1](#)

RefSeq Size: 7018 bp

RefSeq ORF: 633 bp

Locus ID: 323

UniProt ID: [Q92870](#)

Cytogenetics: 4p14-p13

Protein Families: Transcription Factors

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]