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Product datasheet for MC228737

Apbb1 (NM_001253886) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apbb1 (NM_001253886) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apbb1
Synonyms:	Fe65; Rir
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC228737 representing NM_001253886
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCTGTTCCATCATCCCTGAGCCAGTCGGCCATTAACGCTAACAGCCACGGAGGCCCTGCACTCAGCT
TCCCCTTACCCCTGCACGCTGCCCATAACCAGCTGCTCAACGCCAAGCTGCAAGCCACAGCTGTGGTACC
CAAGGACCTTCGAAGTGCTATGGGAGAGGGTAGTGTGCCTGAACCAGGCCCTGCCAATGCCAAGTGGTTA
AAGGAAGGCCAGAACCAGCTTCGGAGGGCTGCCACAGCCCACCGAGACCAGAACCGAAATGTGACCTTGA
CCTTGGCGGAGGAGGCCAGCCAGGAGGCTGAGACGGCACCTTTGGGTCCCAAAGGCTTAATGCATCTATA
CTCTGAGCTGGAGCTCTCGGCCCACAATGCAGCCAACCGAGGGCTTCATGGATCCGCCTTGATCATCAAC
ACCCAGGAACAGGGACCAGATGAAGGAGAGGAGAAGGCAGCAGGAGAGGCTGAGGAGGATGATGAAGACG
AAGAGGAGGAGGAGGAGGAGGAGGACTTGTCTTCTCCTCCAGGGCTACCTGAGCCTCTGGAGAATGTGGA
AGTCCCCTCTGGGCCCCAGGCCCTCACAGACGGCCCCCGGGAACACAGCAAGAGTGCTAGCCTCCTATTT
GGCATGCGAAACAGTGCAGCCAGTGATGAGGACTCAAGCTGGGCCACCTTATCACAGGGCAGCCCCTCCT
ATGGCTCCCCGGAGGACACAGATTCCTTCTGGAACCCCAACGCTTTCGAGACGGATTCCGATCTACCGGC
TGGATGGATGAGGGTACAGGACACCTCAGGGACCTACTACTGGCACATCCCAACAGGGACCACCCAGTGG
GAACCCCCAGGCCGGGCCTCCCCCTCACAGGGGAGCAGCCCCCAAGAAGAGTCCCAGCTCACCTGGACTG
GCTTTGCTCACCAAGAAGGCTTTGAGGAAGGAGAGTTTTGGAAGGATGAACCCAGTGAGGAGGCCCCAAT
GGAGTTGGGACTGAAGGACCCCGAGGAGGCGACATTGTCCTTCCCAGCTCAGAGCCTCAGCCCAGAACCA
GTTCCCCAGGAGGAAGAGAAGCTGTCCCAACGGAATGCCAACCCAGGGATCAAGTGTTTCGCTGTGCGCT
CCCTAGGCTGGGTAGAGATGACCGAGGAGGAGCTGGCCCCAGGACGCAGCAGTGTGGCAGTCAACAATTG
TATCCGCCAGCTCTCCTACCACAAAAACAATCTACATGATCCGATGGCTGGGGGCTGGGGAGAGGGAAAG
GATCTGCTGCTCCAGCTGGAGGACGAGACTCTAAAGTTGGTGGAGCCACAGAACCAGACGCTGCTGCATG
CACAGCCCATCGTCAGCATTCGTGTGTGGGGCGTTGGGCGGGACAGTGGAAGGGACTTTGCCTACGTAGC
TCGAGATAAGCTGACCCAGATGCTCAAGTGCCACGTGTTTCGCTGTGAGGCACCTGCCAAGAACATCGCC
ACCAGCCTGCATGAGATCTGCTCCAAGATCATGTCTGAACGGCGCAATGCTCGCTGCTTGGTCAATGGAC
TCTCCCTAGACCACTCTAAACTCGTGGATGTCCCTTTCCAAGTGGAATTCCCAGCACCAAAGAATGAGCT
GGTGCAGAAGTTCCAAGTCTATTACCTGGGAAATGTGCCAGTTGCTAAACCTGTTGGGGTAGACGTGATT
AATGGGGCCCTGGAGTCAGTCCTGTCTTCCAGTAGCCGTGAGCAGTGGACTCCAAGTCACGTCAGCGTGG
CCCCTGCCACCCTCACCATCTTGCACCAGCAGACAGAAGCGGTGCTGGGGGAGTGCCGGGTGCGGTTTCT
CTCCTTCCTGGCTGTGGGCAGAGATGTGCACACATTCGCGTTCATCATGGCTGCCGGCCCAGCCTCCTTC
TGCTGTCACATGTTTTGGTGTGAGCCCAATGCTGCCAGTCTCTCAGAGGCTGTGCAGGCTGCATGCATGC
TCCGCTACCAGAAGTGTCTGGATGCTCGCTCCCAGACCTCCACCTCCTGCCTCCCAGCACCCCCTGCGGA
GTCAGTTGCAAGACGTGTAGGGTGGACAGTCCGCAGGGGTGTTCAGTCGCTGTGGGGTTCCCTCAAGCCC
AAACGTCTGGGATCCCAGACCCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001253886

Insert Size: 2127 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).

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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001253886.1, NP_001240815.1
RefSeq Size:	2916 bp
RefSeq ORF:	2127 bp
Locus ID:	11785
UniProt ID:	Q9QXJ1
Cytogenetics:	7 55.9 cM
Gene Summary:	Adapter protein that forms a transcriptionally active complex with the gamma-secretase-derived amyloid precursor protein (APP) intracellular domain. Plays a central role in the response to DNA damage by translocating to the nucleus and inducing apoptosis. May act by specifically recognizing and binding histone H2AX phosphorylated on 'Tyr-142' (H2AXY142ph) at double-strand breaks (DSBs), recruiting other pro-apoptosis factors such as MAPK8/JNK1. Required for histone H4 acetylation at double-strand breaks (DSBs). Its ability to specifically bind modified histones and chromatin modifying enzymes such as KAT5/TIP60, probably explains its transcription activation activity. Function in association with TSHZ3, SET and HDAC factors as a transcriptional repressor, that inhibits the expression of CASP4. Associates with chromatin in a region surrounding the CASP4 transcriptional start site(s).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (4) lacks an in-frame exon in the coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1. Variants 2 and 4 encode the same isoform (2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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