

Product datasheet for **MC217500**

Baiap2 (NM_130862) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Baiap2 (NM_130862) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Baiap2
Synonyms:	IRSp53; R75030
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217500 representing NM_130862
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGGCTCACGGAAAATGTCTACAAGACCATCATGGAGCAGT
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGCAAGAACTATGAGAAAGCACTGGCAGGTGTACCTT
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCTAAG
 GAACTTGGGGACGTCTCTTCCAGATGGCTGAGGTGCACCGCAGATCCAGAACCAGTTGGAAGAGACGC
 TGAAGTCTTTTACAATGAGCTGCTCACGCAGCTGGAGCAGAAAGTAGAACTGGACTCCAGGTATCTAAG
 TGCTGCACTGAAGAAATACCAAACGGAACAGAGGAGCAAAAGGGGACGCCCTGGACAAGTGTGAGGCTGAG
 CTGAAGAAGCTCCGCAAGAAGAGCCAAGGGAGTAAAGACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT
 ACATCGATGCCATCAGCAATAAGCAGGGCGAGCTGGAGAACTACGTGTCTGACGGCTACAAGACAGCACT
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAGTGCCTGTGGCCAAGAAGCTCTGCTGCT
 TACCATTCCAAGGCAAGGAGTTGCTGGCCAGAAGCTGCCTCTGTGGCAGCAAGCCTGTGCCGACCCCA
 ACAAGATCCCAGACCGTGTGTCCAGCTGATGCAACAGATGGCCAATAGCAATGGCTCCATCCTTCCAAG
 TGCCCTGTGAGCTTCCAAGTCCAACCTGGTCTCAGATCCCATTCTGGAGCCAAGCCCTTGCCAGTG
 CCACCTGAGCTGGCACCATTTGTGGGGCGGATGTCTGCTCAGGAGAATGTACCTGTGATGAATGGCGTGC
 CAGGCCCGGACAGCGAGGACTACAACCCCTGGGCTGACCGAAAGGCTGCCAGCCCAAATCCCTGTCTCC
 CCCGAGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACACTCCCGTGCGCAAGAGCGTGACGCCG
 AAGAACAGCTATGCCACCACTGAGAACAAGACACTGCCACGTTCAAGTCCATGGCAGCTGGCCTAGAAC
 GTAATGGCCGATGCGGGTCAAGGCCATTTTCTCCACGCGCCGGTGACAATAGCACTCTGCTGAGCTT
 CAAGGAGGGCGACCTCATCACGCTGCTAGTGCCTGAGGCCCGTGACGGCTGGCACTATGGGGAGAGTGAG
 AAGACCAAGATGCGGGGCTGGTTCCTTCTCCTACACCCGGGCTCTGGACAGTGACGGAAGTGACAGAT
 TGCATATGAGCCTGCAGCAGGGCAAGAGCAGCAGCACAGGCAACCTCCTAGACAAGGATGACCTGGCCCT
 CCCCCCTCTGACTACGGCACGTCTCCCGGCATTCCCACCCAGACAGCCGGCACATTCAAGCAGAGA
 CCCTACAGCGTGGCCGTTCTGCCTTCTCTCAGGGTCTGGATGACTACGGGGCACGGTCTGTGAGCAGTG
 GCAGTGGCACGCTGGTGTCCACAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_130862

Insert Size: 1569 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:

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_130862.4](#), [NP_570932.2](#)

RefSeq Size: 3186 bp

RefSeq ORF: 1569 bp

Locus ID: 108100

UniProt ID: [Q8BKX1](#)

Cytogenetics: 11 E2

Gene Summary: Adapter protein that links membrane-bound small G-proteins to cytoplasmic effector proteins. Necessary for CDC42-mediated reorganization of the actin cytoskeleton and for RAC1-mediated membrane ruffling. Involved in the regulation of the actin cytoskeleton by WASF family members and the Arp2/3 complex. Plays a role in neurite growth. Acts synergetically with ENAH to promote filopodia formation. Plays a role in the reorganization of the actin cytoskeleton in response to bacterial infection. Participates in actin bundling when associated with EPS8, promoting filopodial protrusions.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (b) has a shorter and distinct C-terminus compared to isoform a. 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.