

## Product datasheet for **MC216701**

### **Baiap2 (NM\_001037754) Mouse Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Baiap2 (NM_001037754) Mouse Untagged Clone |
| Tag:                      | Tag Free                                   |
| Symbol:                   | Baiap2                                     |
| Synonyms:                 | IRSp53; R75030                             |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**Fully Sequenced ORF:** >MC216701 representing NM\_001037754  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGGCTCACGAAAAATGTCTACAAGACCATCATGGAGCAGT  
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGCAAGAATATGAGAAAGCACTGGCAGGTGTCACCTT  
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTTAAG  
 GAACTTGGGGACGTCCTCTCCAGATGGCTGAGGTGCACCGCAGATCCAGAACCAGTTGGAAGAGACGC  
 TGAAGTCTTTTACAATGAGCTGCTCACGCAGCTGGAGCAGAAAGTAGAACTGGACTCCAGGTATCTAAG  
 TGCTGCACTGAAGAAATACCAAACGGAACAGAGGAGCAAAAGGGGACGCCCTGGACAAGTGTGAGGCTGAG  
 CTGAAGAAGCTCCGCAAGAAGAGCCAAGGGAGTAAGAACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT  
 ACATCGATGCCATCAGCAATAAGCAGGGCGAGCTGGAGAACTACGTGTCTGACGGCTACAAGACAGCACT  
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAGTGCCTGTGGCCAGAAGCTGTGCCGACCCCA  
 TACCATTCCAAGGCAAGGAGTTGCTGGCCAGAAAGCTGCCTCTGTGGCAGCAAGCTGTGCCGACCCCA  
 ACAAGATCCCAGACCGTGTGTCCAGCTGATGCAACAGATGGCCAATAGCAATGGCTCCATCCTTCCAAG  
 TGCCCTGTGAGCTTCCAAGTCCAACCTGGTTCATCTCAGATCCCATTCTGGAGCCAAGCCCTTGCCAGTG  
 CCACCTGAGCTGGCACCATTTGTGGGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACACTCCCCG  
 TGCGCAAGAGCGTGACGCCGAAGAACAGCTATGCCACCACTGAGAACAAGACACTGCCACGTTCAAGCTC  
 CATGGCAGCTGGCCTAGAAGCTAATGGCCGATGCGGGTCAAGGCCATTTCTCCACGCGGCCGGTGAC  
 AATAGCACTCTGCTGAGCTTCAAGGAGGGCGACCTCATCAGCTGCTAGTGCCTGAGGCCGCTGACGGCT  
 GGCATATGGGGAGAGTGAGAAGACCAAGATGCGGGGCTGGTCCCTTCTCTACACCCGGGCTGGA  
 CAGTGACGGAAGTGACAGATTGCATATGAGCCTGCAGCAGGGCAAGAGCAGCAGCACAGGCAACCTCCTA  
 GACAAGGATGACCTGGCCCTCCCCCTCTGACTACGGCAGTCTCCCCGGCATTCCCCACCCAGACAG  
 CCGGCACATTCAAGCAGAGACCTACAGCGTGGCCGTTCTGCTTCTCTCAGGGTCTGGATGACTACGG  
 GGCACGGTCTGTGAGCAGTGGCAGTGGCAGCTGGTGTCCACAGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001037754
- Insert Size:** 1449 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\\_001037754.3](#), [NP\\_001032843.1](#)

RefSeq Size: 3066 bp

RefSeq ORF: 1449 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 filipodia 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 (3) differs in the 3' UTR and coding sequence and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (c) has a shorter and distinct C-terminus and lacks an internal segment compared to isoform a.