

Product datasheet for **RN213194**

Baiap2 (NM_057196) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Baiap2 (NM_057196) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Baiap2
Synonyms:	Irsp53
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213194 representing NM_057196
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGGCTCACGGAAAATGTCTACAAGACCATCATGGAGCAGT
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGGAAGAACTATGAGAAAGCACTGGCAGGTGTACCTT
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTTAAG
 GAACTTGGGGACGTCTCTTCCAGATGGCCGAAGTCCACCGCAGATCCAGAACCAGCTGGAAGAGATGC
 TGAAGGCCTTTCACAATGAGCTGCTCACACAGCTGGAGCAGAAAGTAGAACTGGATTCCAGGTATCTGAG
 TGCTGCGTGAAGAAATACCAAACAGAACAGGAGCAAAAGGGGACGCCCTGGACAAGTGTGAGGCTGAG
 CTAAGAAGCTCCGTAAGAAGAGCCAAGGGAGTAAAGACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT
 ACATCGATGCCATCAGCAACAAGCAGGGCAGCTGGAGAAGTACGTGTCTGACGGCTACAAGACAGCACT
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAATGTGCAGTGGCCAAGAAGCTCCGCTGCC
 TACCACTCCAAGGCAAGGAGTTACTAGCCAGAAAGCTGCCTTTGTGGCAGCAAGCCTGTGCTGACCCCA
 ACAAGATCCCAGACCGTGTGCCAGCTGATGCAGCAGATGGCCAACAGCAATGGCTCCATCCTTCCAAG
 TGCCCTGTGAGCCTCCAAGTCCAACCTGGTTCATCTCAGACCCATTCCCGGGGCCAAGCCCTTGCCAGTG
 CCGCCGGAAGTGGCCCGTTCGTGGGGCGGATGTCTGCTCAGGAGAATGTACCTGTGATGAATGGCGTGC
 CAGGCGCGGACAGCGAGGACTACAACCCCTGGGCCGACCAGGAGCTGCCAGCCAAATCCCTGTCTCC
 CCCGAGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACACTCCCGTGGCAAGAGCGTGACCCCG
 AAGAACAGCTATGCCACCACTGAGAACAAGACGCTGCCACGGTCAAGTCCATGGCAGCCGGCCTAGAAC
 GTAACGGCCGATGCGGGTCAAGGCCATTTTCTCCACGGCCGCGGACAAATAGCACTGTGAGCTT
 CAAGGAGGGCGACCTCATCACGCTGCTAGTGCCGAGGCCGAGACGGCTGGCACTATGGCGAGAGCGAG
 AAGACCAAGATGCGGGGCTGGTTCCTTCTCCTACACTCGGGTCTGGCAGCGACGGAAGTGACAGGT
 TGCACATGAGCCTGCAGCAGGGTAAGAGCAGCAGCACAGGCAACCTCCTGGACAAGGATGACCTGGCCCT
 CCCTCCTCCTGACTATGGCAGTCTCCCGGCATTCCCGAGTACAGCAGCTGGGACTTTCAAGCAAAGA
 CCCTACAGTGTGGCAGTCTCTGCCTTCTCTCAGGGTCTGGATGACTACGGGGCACGGTCTGTGAGCAGTG
 GCAGTGGCACGCTGGTGTCCACAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_057196

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_057196.1](#), [NP_476544.1](#)

RefSeq Size: 1798 bp

RefSeq ORF: 1569 bp

Locus ID: 117542

UniProt ID: [Q6GMN2](#)

Cytogenetics: 10q32.3

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 (By similarity).[UniProtKB/Swiss-Prot Function]