

Product datasheet for **MR224059**

Baiap2 (NM_001037754) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR224059 representing NM_001037754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGCTCACGAAAAATGTCTACAAGACCATCATGGAGCAGT
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGCAAGAACTATGAGAAAGCACTGGCAGGTGTACACCTT
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCTAAG
 GAAGTTGGGGACGTCCTCTCCAGATGGCTGAGGTGCACCGCAGATCCAGAACCAGTTGGAAGAGACGC
 TGAAGTCTTTTACAATGAGCTGCTCACGCAGCTGGAGCAGAAAGTAGAACTGGACTCCAGGTATCTAAG
 TGCTGCACTGAAGAAATACCAAACGGAACAGAGGAGCAAAAGGGGACGCCCTGGACAAGTGTCAAGGCTGAG
 CTGAAGAAGCTCCGCAAGAAGAGCCAAGGGAGTAAAGACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT
 ACATCGATGCCATCAGCAATAAGCAGGGCGAGCTGGAGAACTACGTGTCTGACGGCTACAAGACAGCACT
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAGTGCCTGTGGCCAAGAAGCTCTGCTGCT
 TACCATTCCAAGGCAAGGAGTTGCTGGCCAGAAAGCTGCCTCTGTGGCAGCAAGCTGTGCCGACCCCA
 ACAAGATCCCAGACCGTGTCTCAGCTGATGCAACAGATGGCCAATAGCAATGGCTCCATCCTTCCAAG
 TGCCCTGTGAGCTTCCAAGTCCAACCTGGTCTCAGATCCCATTCTGGAGCCAAGCCCTTGCCAGTG
 CCACCTGAGCTGGCACCATTTGTGGGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACACTCCCCG
 TGCGCAAGAGCGTGACGCCGAAGAACAGCTATGCCACCACTGAGAACAAGACACTGCCACGTTCAAGCTC
 CATGGCAGCTGGCCTAGAAGCTAATGGCCGATGCGGGTCAAGGCCATTTCTCCACGCGGCGGGTGAC
 AATAGCACTCTGCTGAGCTTCAAGGAGGGCGACCTCATCAGCTGCTAGTGCCTGAGGCCGCTGACGGT
 GGCATATGGGGAGAGTGAGAAGACCAAGATGCGGGGCTGGTCCCTTCTCTACACCCGGTCTCTGGA
 CAGTGACGGAAGTGACAGATTGCATATGAGCCTGCAGCAGGGCAAGAGCAGCAGCACAGGCAACCTCCTA
 GACAAGGATGACCTGGCCCTCCCCCTCTGACTACGGCAGTCTCTCCCGGCATTCCCCACCCAGACAG
 CCGGCACATTCAAGCAGAGACCTACAGCGTGGCCGTTCTGCTTCTCTCAGGGTCTGGATGACTACGG
 GGCACGGTCTGTGAGCAGTGGCAGTGGCAGCTGGTGTCCACAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224059 representing NM_001037754
 Red=Cloning site Green=Tags(s)

MSLSRSEEMHRLTENYKTIMEQFNPSLRNFIAMGKNYEKALAGVTFAAKGYFDALVKMGELASESQGSK
 ELGDVLFQMAEVHRQIQNLEETLKSFHNEELLTQLEQKVELDSRYLSAALKKYQTEQRSGDALDKCQAE
 LKKLRKKSQGSKNPQKYSKELQYIDAI SNKQGELENYVSDGYKTALTEERRRFCLVEKQCAVAKNSAA
 YHSKGKELLAQKLPLWQACADPNKIPDRAVQLMQQMANSNGSILPSALSASKSNLVISDPVPGAKPLPV
 PPELAPFVGSQSKLSDSYSNTLPVRKSVTPKNSYATTENKTLPRSSSMAAGLERNRMRVKAIFSHAAGD
 NSTLLSFKEGDLITLLVPEARDGWHYGESEKTKMRGWFPFSYTRVLDSDGSDRLHMSLQQGKSSSTGNLL
 DKDDLALPPPDTSSRAFPQTAGTFKQRPYSVAVPAFSQGLDDYGARSVSSSGSGLTVSTV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001037754

ORF Size: 1446 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_001037754.3](#), [NP_001032843.1](#)
RefSeq Size: 3066 bp

RefSeq ORF: 1449 bp

Locus ID: 108100

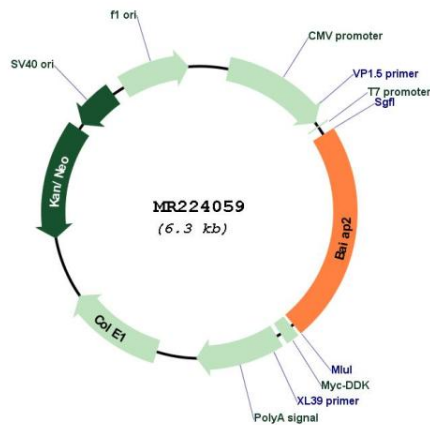
UniProt ID: [Q8BKX1](#)

Cytogenetics: 11 E2

MW: 53.7 kDa

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]

Product images:



Circular map for MR224059