

Product datasheet for **RR213194**

Baiap2 (NM_057196) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR213194 representing NM_057196
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGGCTCACGGAAAATGTCTACAAGACCATCATGGAGCAGT
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGGAAGAACTATGAGAAAGCACTGGCAGGTGTACACCTT
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTTAAG
 GAAGTTGGGGACGTCCTCTCCAGATGGCCGAAGTCCACCGCAGATCCAGAACCAGCTGGAAGAGATGC
 TGAAGGCTTTTACAATGAGCTGCTCACACAGCTGGAGCAGAAAGTAGAACTGGATTCCAGGTATCTGAG
 TGCTGCGTGAAGAAATACCAAACAGAACAGAGGAGCAAAAGGGGACGCCCTGGACAAGTGTGAGGCTGAG
 CTAAGAAGCTCCGTAAAGAGCCAAGGGAGTAAAGACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT
 ACATCGATGCCATCAGCAACAAGCAGGGCAGCTGGAGAAGTACGTGTCTGACGGCTACAAGACAGCACT
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAATGTGCAGTGGCCAAGAAGCTCCGCTGCC
 TACCCTCCAAGGCAAGGAGTTACTAGCCAGAAAGCTGCCTTTGTGGCAGCAAGCCTGTGCTGACCCCA
 ACAAGATCCCAGACCGTGTGCCAGCTGATGCAGCAGATGGCCAACAGCAATGGCTCCATCCTTCCAAG
 TGCCCTGTGAGCCTCCAAGTCCAACCTGGTTCATCTCAGACCCATTCCCGGGGCCAAGCCCTTGCCAGTG
 CCGCCGGAAGTGGCCCGTTCTGGGGCGGATGTCTGCTCAGGAGAAATGTACCTGTGATGAATGGCGTGC
 CAGGCGCGGACAGCGAGGACTACAACCCCTGGGCCGACCGAAAGGCTGCCAGCCCAATCCCTGTCTCC
 CCCGAGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACTCCCGTGGCAAGAGCGTGACCCCG
 AAGAACAGCTATGCCACCACTGAGAACAAGACGCTGCCACGGTCAAGTCCATGGCAGCCGGCTAGAAC
 GTAACGGCCGATGCGGGTCAAGGCCATTTTCTCCACGCGCCGCGGACAAATAGCACTGTCTGAGCTT
 CAAGGAGGGCGACCTCATCACGCTGCTAGTGCCCGAGGCCGAGACGGCTGGCACTATGGCGAGAGCGAG
 AAGACCAAGATGCGGGGCTGGTCCCTTCTCCTACACTCGGGTCTGGCAGCGACGGAAGTGACAGGT
 TGCACATGAGCCTGCAGCAGGTAAGAGCAGCAGCACAGGCAACCTCCTGGACAAGGATGACCTGGCCCT
 CCCTCCTCTGACTATGGCAGTCTCCCGGCATTCCCAGTCAGACAGCTGGGACTTTCAAGCAAAGA
 CCCTACAGTGTGGCAGTCTCTGCCTTCTCAGGGTCTGGATGACTACGGGGCACGGTCTGTGAGCAGTG
 GCAGTGGCAGCTGGTGTCCACAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213194 representing NM_057196
 Red=Cloning site Green=Tags(s)

MSLSRSEEMHRLTENYKTIMEQFNPSLRNFIAMGKNEYKALAGVTFAAKGYFDALVKMGELASESQGSK
 ELGDVLFQMAEVHRQIQNLEMLKAFHNELLTQLEQKVELDSRYLSAALKKYQTEQRSGDALDKCQAE
 LKKLRKKSQGSKNPQKYSKELQYIDAISNKQGELENYVSDGYKTALTEERRRFCLVEKQCAVAKNSAA
 YHSKGKELLAQKLPWQQACADPNKIPDRAAQLMQMANSNGSILPSALSASKSNLVIDPVGAKPLPV
 PPELAPFVGRMSAQENVPMNGVAGADSEYNPWADRKAAPKSLSPQSQSKLSDSYSNTLPVRKSVTP
 KNSYATTENKTLPRSSMAAGLERNGRMRVKAIFSHAAGDNSTLLSFKEGDLITLLVPEARDGWHYGESE
 KTKMRGWFPFSYTRVLDSDGSDRLHMSLQQGKSSSTGNLLDKDDLALPPPDTGTSSRAFPSQTAGTFKQR
 PYSVAVPAFSQGLDDYGARSVSSGSGTLVSTV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

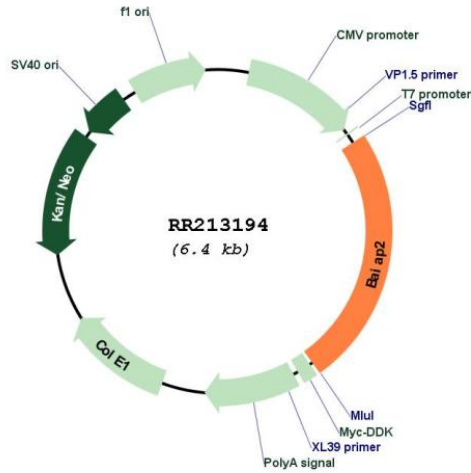
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_057196
ORF Size:	1566 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:	<ol style="list-style-type: none">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
MW:	57.5 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 (By similarity).[UniProtKB/Swiss-Prot Function]