

## Product datasheet for **MG224735**

### Baiap2 (NM\_130862) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Baiap2 (NM_130862) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Baiap2
Synonyms:	IRSp53; R75030
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224735 representing NM\_130862  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCGCTTTACGCTCGGAGGAGATGCACCGGCTCACGAAAAATGTCTACAAGACCATCATGGAGCAGT  
 TCAACCCAGCCTCCGCAACTTCATCGCCATGGGCAAGAACTATGAGAAAGCACTGGCAGGTGTACACCTT  
 CGCTGCCAAAGGCTATTTTCGATGCTCTGGTAAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTTAAG  
 GAAGTTGGGGACGTCCTCTCCAGATGGCTGAGGTGCACCGCAGATCCAGAACCAGTTGGAAGAGACGC  
 TGAAGTCTTTTACAATGAGCTGCTCACGCAGCTGGAGCAGAAAGTAGAACTGGACTCCAGGTATCTAAG  
 TGCTGCACTGAAGAAATACCAAACGGAACAGAGGAGCAAGGGGACGCCCTGGACAAGTGTGAGGCTGAG  
 CTGAAGAAGCTCCGCAAGAAGAGCCAAGGGAGTAAAGACCCTCAGAAGTACTCAGACAAGGAGCTGCAGT  
 ACATCGATGCCATCAGCAATAAGCAGGGCGAGCTGGAGAAGTACGTGTCTGACGGCTACAAGACAGCACT  
 CACTGAGGAGCGCAGGAGTTCTGCTTCTGGTGGAAAAGCAGTGCCTGTGGCCAGAAGCTGTGCTGCT  
 TACCATTCCAAGGCAAGGAGTTGCTGGCCAGAAGCTGCCTCTGTGGCAGCAAGCTGTGCCGACCCCA  
 ACAAGATCCCAGACCGTGTGTCCAGCTGATGCAACAGATGGCCAATAGCAATGGCTCCATCCTTCCAAG  
 TGCCCTGTGAGCTTCCAAGTCCAACCTGGTTCATCTCAGATCCCATTCTGGAGCCAAAGCCCTTGCCAGTG  
 CCACCTGAGCTGGCACCATTTGTGGGGCGGATGTCTGCTCAGGAGAAATGTACCTGTGATGAATGGCGTGC  
 CAGGCCCGGACAGCGAGGACTACAACCCCTGGGCTGACCGAAAGGCTGCCAGCCCAATCCCTGTCTCC  
 CCCGAGTCTCAAAGCAAGCTGAGCGACTCGTACTCCAACACACTCCCGTGCGCAAGAGCGTGACGCCG  
 AAGAACAGCTATGCCACCCTGAGAACAAGACACTGCCACGTTCAAGTCCATGGCAGCTGGCCTAGAAC  
 GTAATGGCCGATGCGGGTCAAGGCCATTTTCTCCACGCGCCGGTGACAATAGCACTGTGCTGAGCTT  
 CAAGGAGGGCGACCTCATCACGCTGCTAGTGCCTGAGGCCCGTGACGGCTGGCACTATGGGGAGAGTGAG  
 AAGACCAAGATGCGGGGCTGTTCCCTTCTCCTACACCCGGTCTGGACAGTGACGGAAGTGACAGAT  
 TGCATATGAGCCTGCAGCAGGGCAAGAGCAGCAGCACAGGCAACCTCCTAGACAAGGATGACCTGGCCCT  
 CCCCCCTCTGACTACGGCACGCTCTCCCGGCATTCCCACCCAGACAGCCGGCACATTCAAGCAGAGA  
 CCCTACAGCGTGGCCGTTCTGCCTTCTCAGGGTCTGGATGACTACGGGGCACGGTCTGTGAGCAGTG  
 GCAGTGGCACGCTGGTGTCCACAGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224735 representing NM\_130862  
 Red=Cloning site Green=Tags(s)

MSLSRSEEMHRLTENYKTIMEQFNPSLRNFIAMGKNYEKALAGVTFAAKGYFDALVKMGELASESQGSK  
 ELGDVLFQMAEVHRQIQNQLLEETLKSFNHLLTQLEQKVELDSRYLSAALKKYQTEQRSGDALDKCQAE  
 LKKLRKKSQGSKNPQKYSDELQYIDAI SNKQGELENYVSDGYKTALTEERRRF CFLVEKQCAVAKNSAA  
 YHSKGKELLAQKLPLWQACADPNKIPDRAVQLMQMANSNGSILPSALSASKSNLVISDPVPGAKPLPV  
 PPELAPFVGRMSAQENVPVMNGVAGPDSYDNPWADRKAAPKSLSPQSQSKLSDSYSNTLPVRKSVTP  
 KNSYATTENKTLPRSSMAAGLERNGRMVKAIFSHAAGDNSTLLSFKEGDLITLLVPEARDGWHYGESE  
 KTKMRGWFPFSYTRVLDSDGSDRLHMSLQQGKSSSTGNLLDKDDLALPPPDTGTSRAFPQTAGTFKQR  
 PYSVAVPAFSQGLDDYGARSVSSSGTLVSTV

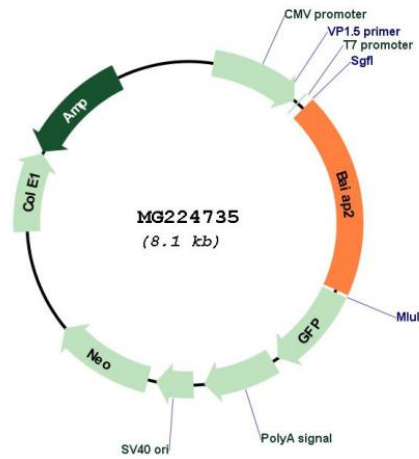
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:


**Plasmid Map:**


ACCN:	NM_130862
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. <a href="#">More info</a>
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"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
RefSeq:	<a href="#">NM_130862.4</a> , <a href="#">NP_570932.2</a>
RefSeq Size:	3186 bp
RefSeq ORF:	1569 bp
Locus ID:	108100
UniProt ID:	<a href="#">Q8BKX1</a>
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]