

## Product datasheet for **SC110153**

### **BAIAP2 (NM\_006340) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BAIAP2 (NM_006340) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAIAP2
Synonyms:	BAP2; FLAF3; IRSP53; WAML
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_006340, the custom clone sequence may differ by one or more nucleotides

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ATGTCTCTGTCTCGCTCAGAGGAGATGCACCGGCTCACGGAAAATGTCTATAAGACCATCATGGAGCAGT
TCAACCCTAGCCTCCGGAACCTCATCGCCATGGGAAGAATTACGAGAAGGCACTGGCAGGTGTGACGTA
TGCAGCCAAAGGCTACTTTGACGCCCTGGTGAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCCAAA
GAACTCGGAGACGTTCTCTTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTGGAAGAAATGC
TGAAGTCTTTTCAACAACGAGCTGCTTACGCAGCTGGAGCAGAAGGTGGAGCTGGACTCCAGGTATCTGAG
TGCTGCGCTGAAGAAATACCAGACTGAGCAAAGGAGCAAAGGCGACGCCCTGGACAAGTGTGAGGCTGAG
CTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCAAGAATCCTCAGAAGTACTCGGACAAGGAGCTGCAGT
ACATCGACGCCATCAGCAACAAGCAGGGCGAGCTGGAGAATTACGTGTCCGACGGCTACAAGACCGCACT
GACAGAGGAGCGCAGGCGCTTCTGCTTCTGGTGGAGAAGCAGTGCGCCGTGGCCAAGAACTCCGCGGCC
TACCACTCCAAGGCAAGGAGCTGCTGGCGCAGAAGTGGCGCTGTGGCAACAGGCTGTGCCGACCCCA
GCAAGATCCCGGAGCGCGGTCAGCTCATGCAGCAGGTGGCCAGCAACGGCGCCACCCTCCCCAGCGC
CCTGTCCGGCTCCAAGTCCAACCTGGTCAATTCGACCCATTCCGGGGGCCAAGCCCTGCCGGTGCC
CCCAGCTGGCACCGTTCGTGGGGCGGATGTCTGCCCAGGAGAGCACACCATCATGAACGGCGTACAG
GCCCGGATGGCGAGGACTACAGCCCGTGGGCTGACCGCAAGGCTGCCAGCCAAATCCCTGTCTCTCC
GCAGTCTCAGAGCAAGCTCAGCGACTCTACTCCAACACACTCCCCGTGCCAAGAGCGTGACCCCAAAA
AACAGCTATGCCACCACCAGAAACAAGACTCTGCCTCGCTCGAGTCCATGGCAGCCGGCTGGAGCGCA
ATGGCCGTATGCGGGTGAAGGCCATCTTCTCCACGCTGCTGGGGACAACAGCACCCCTCTGAGCTTCAA
GGAGGTGACCTCATTACCTGCTGGTGCCTGAGGCCCGCATGGCTGGCACTACGGAGAGAGTGAAGA
ACCAAGATGCGGGCTGGTTTCCCTTCTCTACACCCGGTCTTGACAGCGATGGCAGTGACAGGCTGC
ACATGAGCTGCAGCAAGGGAAGAGCAGCAGCAGCGGCAACCTCCTGGACAAGGAGACCTGGCCATCCC
ACCCCGGATTACGGCGCGCCTCCCGGCCCTTCCCGCCAGACGGCCAGCGGCTTCAAGCAGAGGCC
TACAGTGTGGCCGTGCCGCTTCTCCAGGGCTGGATGACTATGGAGCGCGTCCATGAGCAGCGCC
ATGTGGAAGTGGCCAGATTCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006340 unedited

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ATTTGTAATACGACTCACTATAGGGCGGCCGAATTCGGCACAGGGTCCGCTTTCGTCT
CCGTCCTGCTGCCGTTACCGCCGCTGCTGCCGCCGCTTGGCTCCCCCGCTCCGGTCTGTG
GTGCAGCCGGGACCCAGGACCATGTCTCTGTCTCGCTCAGAGGAGATGCACCGGCTCACG
GAAAATGTCTATAAGACCATCATGGAGCAGTTC AACCTAGCCTCCGGAACCTTATCGCC
ATGGGAAGAATTACGAGAAGGCACTGGCAGGTGTGACGTATGCAGCCAAAGGCTACTTT
GACGCCCTGGTGAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCCAAAGAACTCGGA
GACGTTCTTTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTGGAAGAAATG
CTGAAGTCTTTTCAACAACGAGCTGCTTACGCAGCTGGAGCAGAAGGTGGAGCTGGACTCC
AGGTATCTGAGTGTGCGCTGAAGAAATACCAGACTGAGCAAAGGAGCAAAGGCGACGCC
CTGGACAAGTGTGAGGCTGAGCTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCAAGAAT
CCTCAGAAGTACTCGGACAAGGAGCTGCAGTACATCGACGCCATCAGCAACAAGCAGGGC
GAGCTGGAGAAATACGTGTCCGACGGCTACCAGACCGCACTGACAGAGGAGCGCAGGCGC
TTCTGCTTCTGGTGGAGAGCAGTGCGCCGTGGCCAAGAAGTCCGCGCTACACTCNCA
GGGGCANGAGCTGCTGGCGCAAAGCTGCCGCTGTGGCACAGGCCGTGTGCCGACCAAGCA
GATCCCGAGCGCNCGTGCANCTCATGCAGCAGGTGGCCAGNAACGGGGCACCCCTCNCAG
CGCCCTGTNNGNCTCAGTCCACCTGGTCAATTNCCGACCCATCN
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006340 unedited AAGCCTGTTTCTTAGGCAGGGANAGCAGCAGGGCAGCCAGGCTCCCCTCCCAGCCACCAG CTGGCCAAATGTCCTCCCTTAACTCAGGGGTACCCAAGGCTCCATGGCCATGTGACCAGA GGCGTGTACCCTCAAGAGGCGGCCCTCAGCCCTGGGCAGCCCAGCCACTGGGTCTCGCC CTTCAGGGGCTGCGCCCCACTTGCCCGGCCCTGCCTAGAACAGCTGGGATCCAGTCCA GGCCAGACTCAAGTGGGCAAGACCAGGCAGCCGGGGCCTGGATGTTCTCTACACAGGAA CGCACAGATGATGACAGAACAGGCTACATGGGAAGGGCGGGGAAGCCACCAGATGGGCA GCACTGCAGATGTGGCCATCAGCTGAGGAGGGGGCAGACCTGTCGTTGGTCACTGTCGG CTTCAGCTGGACGTGGGCAAAGGATTCTAACTCTAGTCAGGCGGCTCAGAATCTGGCCA CTTCCACATCGGCGCTGCTCATGGACCGCTCCATAGTCATCCAGGCCCTGCGAGAAGG CGGGCACGGCCACACTGTAGGGCCTCTGCTTGAAGCCGCTGGCCGTCTGGGCGNGAAGG CCCGGGAGGCGGCCCGTAATCGGTGGTGGGATGGCCAGGTCGTCCTTGTCCAGGAGGT TGCCCGTGTGCTGCTTCCCTTGCTGCAGGCTCATGTGCAGCCTGTCCTGCCATCGC TGTCGAAGACCCGGGTGTAGGAGAAGGGAACCAGCCCCATCTTGGTCTTCACTCTCTC CGTAGTGCCAGCCATCGCGGCCCTCAGGCCAGCAGGGTAATGACGTCACCCTCCTGAAGC TACAGAGGGTGTGTTGTCCCTACAGCGTGGGAGAAGATGCCCTACCCGATACGGCCAT TGGCTCCAGCCCGCTGCCATGTAGCTCCACCGAGCCAGTCTGCTCTCCGTGTGGCATA CTGTTNTTGAGTCCCCCCTTCC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006340
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<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>
<b>RefSeq:</b>	<u><a href="#">NM_006340.1</a></u> , <u><a href="#">NP_006331.1</a></u>
<b>RefSeq Size:</b>	2129 bp
<b>RefSeq ORF:</b>	1563 bp
<b>Locus ID:</b>	10458
<b>UniProt ID:</b>	<u><a href="#">Q9UQB8</a></u>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	SH3

**Protein Families:** Druggable Genome

**Protein Pathways:** Adherens junction, Regulation of actin cytoskeleton

**Gene Summary:** The protein encoded by this gene has been identified as a brain-specific angiogenesis inhibitor (BAI1)-binding protein. This adaptor protein links membrane bound G-proteins to cytoplasmic effector proteins. This protein functions as an insulin receptor tyrosine kinase substrate and suggests a role for insulin in the central nervous system. It also associates with a downstream effector of Rho small G proteins, which is associated with the formation of stress fibers and cytokinesis. This protein is involved in lamellipodia and filopodia formation in motile cells and may affect neuronal growth-cone guidance. This protein has also been identified as interacting with the dentatorubral-pallidoluysian atrophy gene, which is associated with an autosomal dominant neurodegenerative disease. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jan 2009]

**Transcript Variant:** This variant (3) shares identical sequence with variants 1, 2 and 4, but diverges after amino acid 511 resulting in a distinct 9 amino acid sequence at the C-terminus. This transcript variant is alternatively referred to as BAP2-beta or variant T. **Sequence Note:** This RefSeq record was created from transcript and genomic sequence data because transcript sequence consistent with the reference genome assembly was not available for all regions of the RefSeq transcript. The extent of this transcript is supported by transcript alignments.