

## Product datasheet for **SC110154**

### **BAIAP2 (NM\_017450) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BAIAP2 (NM_017450) 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:** >OriGene ORF within SC110154 sequence for NM\_017450 edited (data generated by NextGen Sequencing)

```

ATGTCTCTGTCTCGCTCAGAGGAGATGCACCGGCTCACGGAAAATGTCTATAAGACCATC
ATGGAGCAGTTCAACCCTAGCCTCCGGAACCTTCATCGCCATGGGGAGAATTACGAGAAG
GCACTGGCAGGTGTGACGTATGCAGCCAAAGGCTACTTTGACGCCCTGGTGAAGATGGGG
GAGCTGGCCAGCGAGAGCCAGGGCTCCAAGAAGCTCGGAGACGTTCTCTCCAGATGGCT
GAAGTCCACAGGCAGATCCAGAATCAGCTGGAAGAAATGCTGAAGTCTTTTCACAACGAG
CTGCTTACGCAGCTGGAGCAGAAGGTGGAGCTGGACTCCAGGTATCTGAGTGCTGCGCTG
AAGAAATACCAGACTGAGCAAAGGAGCAAAGGCGACGCCCTGGACAAGTGTCAAGCTGAG
CTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCAAGAATCCTCAGAAGTACTCGGACAAG
GAGCTGCAGTACATCGACGCCATCAGCAACAAGCAGGGCGAGCTGGAGAATTACGTGTCC
GACGGCTACAAGACCGCACTGACAGAGGAGCGCAGGGCTTCTGCTTCTGGTGGAGAAG
CAGTGCGCCGTGGCCAAGAAGCTCCGCGGCCCTACACTCCAAGGGCAAGGAGCTGTGGCG
CAGAAGCTGCCGCTGTGGCAACAGGCTGTGCCGACCCAGCAAGATCCCGGAGCGCGCG
GTGCAGCTCATGCAGCAGGTGGCCAGCAACGGCGCCACCCTCCCAGCGCCCTGTGGCC
TCCAAGTCCAACCTGGTCATTTCCGACCCATTCCGGGGGCAAGCCCTGCCGGTGGCC
CCCAGCTGGCACCGTTCTGGGGCGGATGTCTGCCAGGAGAGCACACCATCATGAAC
GGCGTACAGGCCCGGATGGCGAGGACTACAGCCCGTGGGCTGACCGCAAGGCTGCCAG
CCCAAATCCCTGTCTCCTCCGAGTCTCAGAGCAAGCTCAGCGACTCCTACTCCAACACA
CTCCCCGTGCGCAAGAGCGTGACCCAAAAAACAGCTATGCCACCACCGAGAACAAGACT
CTGCCTCGCTCGAGCTCCATGGCAGCCGGCTGGAGCGCAATGGCCGTATGCGGGTGAAG
GCCATTTCTCCACGCTGTGGGACAACAGCACCCCTCCTGAGCTTCAAGGAGGGTGAC
CTATTACCCTGCTGGTGCCTGAGGCCCGGATGGCTGGCACTACGGAGAGAGTGAGAAG
ACCAAGATGCGGGCTGGTTTCCCTTCTCCTACACCCGGGTCTTGACAGCGATGGCAGT
GACAGGCTGCACATGAGCCTGCAGCAAGGGAAGAGCAGCAGCACGGGCAACCTCCTGGAC
AAGGACGACTGGCCATCCCACCCCGATTACGGCGCCGCTCCCGGGCCTTCCCAGC
CAGACGGCCAGCGGCTTCAAGCAGAGGCCCTACAGTGTGGCCGTGCCCGCCTTCCCAG
GGCCTGGATGACTATGGAGCGCGGTCCATGAGCAGTGGCAGCGGCACGCTGGTGTCCACA
GTGTGA
    
```

Clone variation with respect to NM\_017450.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_017450 unedited
TGCATATTTGTATACGACTCCTATAGGCGGCNCGCAATTCGCACGAGGGTCCGCTTTCG
TCTCCGTCCTGTGTCGGTTACCGCCGCTGTGCCCGCCTTGCCTCCCCCGCTCCGGTCT
GTGGTGCAGCCGGGACCCAGGACCATGTCTGTCTCGCTCAGAGGAGATGCANNCCGGC
TCACGGAAAATGTCTATAAGACCATCATGGAGCAGTTCAACCCTAGCCTCCGGAACCTCA
TGCCATGGGGAAGAATTACGAGAAGGCACTGGCAGGTGTGACGTATGCAGCCAAAGGCT
ACTTTGACGCCCTGGTGAAGATGGGGGAGCTGGCCAGCGAGAGCCAGGGCTCCAAGAAC
TCGGAGACGTTCTCTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTGGAAG
AAATGCTGAAGTCTTTTACAACGAGCTGCTTACGCAGCTGGAGCAGAAGGTGGAGCTGG
ACTCCAGGTATCTGAGTGTGCGCTGAAGAAATACCAGACTGAGCAAAGGAGCAAAGGCG
ACGCCCTGGACAAGTGTGAGGCTGAGCTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCA
AGAATCCTCAGAAGTACTCGGACAAGGAGCTGCAGTACATCGACGCCATCAGCAACAAGC
AGGGCGAGCTGGAGAATTACGTGTCCGACGGCTACAAGACCGCACTGACAGAGGAGCGCA
NGCGCTTCTGCTTCTGTGGTGGAGAAGCAGTGGCCGCTGGCCAAGAAGCTCCGCGNCTACC
ACTCCCAGGGCAAGGAGCTGCTGGCGCANAAGCTGCCGCTGTGCCAGGCTGTGCCGA
CCCAGCAAGATCCCCGACGCGCCGTGACGTTTATGCACAAGGTGGCCGACCCGGTGCACC
CTCCAAGCCCTGTGGCTCCAGTACCTG
    
```



RefSeq Size: 3168 bp

RefSeq ORF: 1566 bp

Locus ID: 10458

UniProt ID: [Q9UQB8](#)

Cytogenetics: 17q25.3

Domains: 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 (1) shares identical sequence with variants 2, 3 and 4, but diverges after amino acid 511 resulting in a distinct 10 amino acid sequence at the C-terminus. This transcript variant is alternatively referred to as BAP2-alpha, short form, or variant S. 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.