

Product datasheet for **SC310273**

BAIAP2 (NM_017451) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAIAP2 (NM_017451) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAIAP2
Synonyms:	BAP2; FLAF3; IRSP53; WAML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310273 representing NM_017451.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTCTCTGTCTCGTCTCAGAGGAGATGCACCGGCTCACGGAAAATGTCTATAAGACCATCATGGAGCAG
TTCAACCCTAGCCTCCGGAACCTCATCGCCATGGGGAAGAATTACGAGAAGGCAGTGGCAGGTGTGACG
TATGCAGCCAAAGGCTACTTTGACGCCCTGGTGAAGATGGGGAGCTGGCCAGCGAGAGCCAGGGCTCC
AAAGAACTCGGAGACGTTCTCTCCAGATGGCTGAAGTCCACAGGCAGATCCAGAATCAGCTGGAAGAA
ATGCTGAAGTCTTTTACAACGAGCTGCTTACGCAGCTGGAGCAGAAGTGGAGCTGGACTCCAGGTAT
CTGAGTGTGCGCTGAAGAAATACCAGACTGAGCAAAGGAGCAAAGGCGACGCCCTGGACAAGTGTGAG
GCTGAGCTGAAGAAGCTTCGGAAGAAGAGCCAGGGCAGCAAGAATCCTCAGAAGTACTCGGACAAGGAG
CTGCAGTACATCGACGCCATCAGCAACAAGCAGGGCGAGCTGGAGAATTACGTGTCCGACGGCTACAAG
ACCGCACTGACAGAGGAGCGCAGGGCTTCTGCTTCTGGTGGAGAAGCAGTGGCCGTGGCCAAGAAC
TCCGCGGCTACCACTCCAAGGGCAAGGAGCTGCTGGCGAGAAGCTGCCGTGTGGCAACAGGCCGTGT
GCCGACCCAGCAAGATCCCGGAGCGCGGGTGCAGCTCATGCAGCAGGTGGCCAGCAACGGCGCCACC
CTCCCCAGCGCCCTGTCGGCCTCCAAGTCCAACCTGGTCAATTTCCGACCCATTCCGGGGCCAAGCCC
CTGCCGTTGCCCCCGAGCTGGCACCGTTCGTGGGGCGGATGTCTGCCAGGAGAGCACACCCATCATG
AACGGCGTACAGGCCCGGATGGCGAGGACTACAGCCCGTGGGCTGACCGCAAGGCTGCCAGCCAAA
TCCCTGTCTCCTCCGAGTCTCAGAGCAAGCTCAGCGACTCCTACTCCAACACTCCCCGTGCGCAAG
AGCGTGACCCAAAAACAGCTATGCCACCACCGAGAACAAGACTCTGCCTCGTTCGAGCTCCATGGCA
GCCGGCTGGAGCGCAATGGCCGTATGCCGGTGAAGGCCATCTTCTCCACGCTGCTGGGACAACAGC
ACCTCCTGAGCTTCAAGGAGGGTACCTCATTACCTGCTGGTGCCTGAGGCCCGGATGGTGGCAC
TACGGAGAGAGTGAGAAGACCAAGATGCCGGGCTGGTTTCCCTTCTCCTACACCCGGGCTTTGGACAGC
GATGGCAGTGACAGGCTGCACATGAGCCTGCAGCAAGGGAAGAGCAGCAGCACGGCAACCTCCTGGAC
AAGGACGACTGGCCATCCCACCCCGGATTACGGCGCCGCTCCCGGGCCTTCCCGCCAGAGCGCC
AGCGGCTTCAAGCAGAGGCCCTACAGTGTGGCCGTGCCCGCTTCTCCAGGGCCTGGATGACTATGGA
GCGCGGTCCATGAGCAGGAATCCCTTTGCCACGTCCAGCTGAAGCCGACAGTGACCAACGACAGGTGT
GATCTGTCCGCCAAGGGCCAGAAGGCCGGGAGCACGGGGATGGGAGCGCCCGCACCTGGCTGGAAGA
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_017451

Insert Size: 1659 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_017451.2</u>
RefSeq Size:	2894 bp
RefSeq ORF:	1659 bp
Locus ID:	10458
UniProt ID:	<u>Q9UQB8</u>
Cytogenetics:	17q25.3
Domains:	SH3
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Regulation of actin cytoskeleton
MW:	60.9 kDa

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 (2) shares identical sequence with variants 1, 3 and 4, but diverges after amino acid 511 resulting in a distinct 41 amino acid sequence at the C-terminus. This transcript variant is alternatively referred to as the long form or variant L.

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.