

Product datasheet for **SC104882**

BAIAP2L1 (AK074419) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAIAP2L1 (AK074419) Human Untagged Clone
Tag:	Tag Free
Symbol:	BAIAP2L1
Synonyms:	IRTKS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK074419, the custom clone sequence may differ by one or more nucleotides

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GAACACGACGTGTCCAAGGCGAGGGGTTGGTCCCGTCGTCGTACACGAAGTTGCTGGAAGAAAATGAGA
CAGAAGCAGTGACCGTGCCACGCCAAGCCCCACACCAGTGAGAAGCATCAGCACCGTGAACCTGTCTGA
GAATAGCAGTGTGTGCATCCCCCACCAGCTACTTGAATGCTGTCCATGGGGGACAGCTGCCGACAGG
AGAGCAGATTCGGCCAGGACGACATCCACCTTTAAGGCCCCAGCGTCCAAGCCCGAGACCGGGCTCCTA
ACGATGCCAACGGGACTGCAAAGCCGCCTTTTCTCAGCGGAGAAAACCCCTTTGCCACTGTGAAACTCCG
CCCGACTGTGACGAATGATCGCTCGGCACCCATCATTGATGAGAGGACAGCCAAGGACTCTCCGGGCC
TCTCCGGTTCTCCCTTGCAGGAATGATGGGCGCATCCTGTCTGCCACGTGCTGACGGTCGGGAAGCTTCAG
TGGAGAGGCCCTAACTCTAATGTCGCCTGCTTAAGCAAATCATGCTTCTCTGTTTCACGTAGTTGGGTTGA
CAAGTTTCTGCCTTAAGATAAATGAGTAATAGTCTAATGACCAGCTCAGCCATTTAAAAATTTTCTTC
CTATTCTGTTCAAGAAACAGTAACTTGGTTTCAATCTTACTGTATTTTTTAAATGAATTTTTCTCTTA
ATAACAGCCAGAATAAGGGATAGTCTATGCTTTCAGGACTGGCTTCTGCACCTGATATGAATGAGACCA
GTTTTATTTTATAAAGCATGTGCTTAAATAGCATTATGTCTAAAGAAGATATCAGTAAGTTTGCATCT
TAGCATGCAAATCATAATTTTAAGCAATATAAATTATGAAAATACTATATAAATGTAATTTAACTTAAAA
TGTTTAAAGTGTAGAGCTTCCAGAGATGGAGAAACCCCCACCCTCCCTCCAACCAGCCAGAGCTGTAGAG
TGCTAAGACGCTTTGCCTGCCCTTATCAGACCCACAGTGCAGTGCAGGAAATCTCCTCCGAGAGCTCC
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CGGAGTCACGGCTCCTTGTGTTCTCACTCAGCTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTCAA
ACTGCTCGGGTCTGTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATACGTGTAAGCCAG
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GGTTACATGCAGGTAAGCCAGTGGACGTGGCCGATGCTTCAGGCTCCTTCCAGCCAGGTCCAGCAGTGTT
ACCATCTGCTTCTCCTGGGAGGACAAACCAGGCACCCCAACCATGAAGTGGCTGCAGGCACCATGAACTA
TGTTAAACAACCCAGTCTGTACTACAGAAAGGGCTGCAGCCACATGAGAATTCAGTCCACACAAGCCCA
TGGCCGTGTTCCCACTTCAGCCACAGGGCTCAGGGAGCCCATCTGGCGCTAAGGGGAAGTCTGGGGT
GTGGGTGACACCTGGCCTTTGGCGTTCTGCCTTGGGGAGGTTTCTGGTTTTGTTACGGGGTGAAGAATA
GGACCTGGGGTCTCGGATGCAACCTGCAGACCCGCTGGCTCACCAACCCAGGTTCTGCCTCCAGAC
CAGAACGGGATGGCCTGGTCTTGGCACCGAGGTGCCTGCTCTGTAATATCAAGGGATTACAACCTTA
ATAATAAAGCAGAAGTTGAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK074419 unedited
 GGTTTCNCAATAGNATACGACTCCTATAGGCGGCCGNAATTCGCACGAGGATATCACGT
 AAGTTTGCATCTTAGCATGCAAATCATAATTTTAAAGCAATATAAATTATGAAAATACTAT
 ATAAATGTAATTTAACTTAAAATGTTTAAAGTGTAGAGCTTCCAGAGATGGAGAAACCCCC
 ACCCTCCCTCAAACCACGCCAGAGCTGTAGAGTGTAGAGCTTTCGCTGCCCTTATCA
 CAGCCACACGTAGCACTCGACGAAATCTCCTCCGAGAGCTCCTTTTCTTGGTAGTTAGGA
 GTCGCCAACGGATTTCGCTGCACACGCCCATCCAGGACACAGGCCCTGGGGCTCGGAGTCA
 CGGCTCCTTGTTTCTCACTCAGCTAGTTGGCCAAAGCTGCATCCATTACCAGTACACTC
 AAAGTGTCTGGGGTCTGGTTTCTCCGTGTTTGAATCAGGTACAGACTCTCAAAGGATAC
 GTGTAAGCCAGGATGACCTCTGGTGCCTGGAGAAGGGCGGGTTTTTCAGCCTAGCAGCC
 ATGATGCCCTCGGAACCTGGCCCTATGGTATGGATGTGAGGACTACGCACTGGCTGCCCT
 GAGCCCGNGCTGGAATCATCTCTGGCTGCCAAGGATCTGGACCTATTTTGGAGTGGAG
 AGTCATGGTTAAAATCCAGCCCGGCCANGTACCGGGATCCCAGCATTTTGTGAGGCC
 CGAGCAGGGGATCACCTNGAGTCAGGAGTCTCTACTNAAAATACAAAAATTAGACAGGT
 GTGGTGGTGGGCGCCTCAGGGAGGGCTTGNNANNANAATAAATTTTAAACCCGNGGAGG
 AAAAATTTTTATTGAGCCCATAAATAGGTTGTTGGCTCCACCCCGGGCTCTCCCTGT
 GGGGGTTCGGGGGAGCTGGGA

3' Read Nucleotide Sequence:

>OriGene 3' read for AK074419 unedited
 NAAGGTCTACTATGTACGGGCCGTTTTNAGATCGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTATGTTTTCAAATCTGCTTATTATTTAAA
 GTTGAATCCCTTGATATTTACAAAACAAGCACCTTGGTGCCAAAGACCAAGCCATGCC
 CGTTTTGGTTTGGGAGGCAAAACCTGGGGTTGGGTGAACCACGGGTCTGCAGGTTGCAT
 CCGAAACCCCAAGTCTATTTTTCCACCCGTAACAAAACCAAAAACCTCCCAAGGCA
 AAACGCCAAAGGCCAGGTGTCACCCACACCCCAACAGTTCCTTAAACGCCAAATGGGGC
 TCCCTGAACCCTGTGGCTGAAGTGGGGAACACGGCCATGGGGCTTGGGGGACTGAATTC
 TCATGTGGCTGCAGCCCTTTTTGTAGTACAAACTGGGGTTGTTAACATAATTCAAGGGGC
 CTGCAGCCCTTCATGGGGGGGTGCCTGGTTTGTCTCCAGGAAAAACAAATGTTAAC
 ACTGCTGGACCTGGCTGGAAGAACCTGAAACATCGGCCACGTCCACTGGCTTACCTGGA
 GTGAACCTTTCCAATCTCAACCTCATAGGATACTACACTTATGGCAAGGCTAAAGGAGA
 GGGGGTAAGTCAAACCCAGCACCCAGCAACACACACGGTGAACGGCCGGGCTGGGAAT
 GCANACATGATCCTGGGCTCACTGCAACCTCTGCTCCCGGGGTTAAAAAGTGATTTTCC
 CGGCTAAACCTCCTGAATGGCGCCACCACCACCTGGCTAATTTTTTGGATTTTAA
 GAAAAGACTCCGGGACCTCAGGGAT

Restriction Sites:

NotI-NotI

ACCN:

AK074419

Insert Size:

1500 bp

OTI Disclaimer:

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).

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:

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: [AK074419.1](#)

RefSeq Size: 2296 bp

RefSeq ORF: 2296 bp

Locus ID: 55971

Cytogenetics: 7q21.3-q22.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the IMD (IRSp53/MIM homology domain) family. Members of this family can be subdivided in two groups, the IRSp53-like and MIM-like, based on the presence or absence of the SH3 (Src homology 3) domain. The protein encoded by this gene contains a conserved IMD, also known as F-actin bundling domain, at the N-terminus, and a canonical SH3 domain near the C-terminus, so it belongs to the IRSp53-like group. This protein is the substrate for insulin receptor tyrosine kinase and binds to the small GTPase Rac. It is involved in signal transduction pathways that link deformation of the plasma membrane and remodeling of the actin cytoskeleton. It also promotes actin assembly and membrane protrusions when overexpressed in mammalian cells, and is essential to the formation of a potent actin assembly complex during EHEC (Enterohemorrhagic Escherichia coli) pedestal formation. [provided by RefSeq, Oct 2009]