

Product datasheet for **RC202617**

BAIAP2L1 (NM_018842) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAIAP2L1 (NM_018842) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAIAP2L1
Synonyms:	IRTKS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202617 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCGGGGGCCCGAGGAGGTGAACCGGCTCACGGAGAGCACCTACCGAATGTTATGGAACAGTTCA
 ATCCTGGGCTGCGAAATTTAATAAACCTGGGGAAAAATTATGAGAAAGCTGTAAACGCTATGATCCTGGC
 AGGAAAAGCCTACTACGATGGAGTGCCCAAGATCGGTGAGATTGCCACTGGGTCCCCCGTGTCAACTGAA
 CTGGGACATGTCCTCATAGAGATTTCAAGTACCACAAGAACTCAACGAGAGTCTTGATGAAAAATTTTA
 AAAAAATCCACAAAGAGATTATCCATGAGCTGGAGAAGAAGATAGAAGTCTGACGTGAAATATATGAACGC
 AACTCTAAAAAGATACCAAACAGAACACAAGAATAAATTAGAGTCTTTGGAGAAATCCCAAGCTGAGTTG
 AAGAAGATCAGAAGGAAAAGCCAAGGAAGCCGAAACGCACTCAAATATGAACACAAAGAAATGAGTATG
 TGGAGACCGTTACTTCTCGTCAGAGTGAATCCAGAAATTCATTGCAGATGGTTGCAAAGAGGCTCTGCT
 TGAAGAGAAGAGGCGCTTCTGCTTCTGGTTGATAAGCACTGTGGCTTTGCAAACCATACATTATTAT
 CACTTACAGTCTGCAGAACTACTGAATCCAAGCTGCCTCGGTGGCAGGAGACCTGTGTTGATGCCATCA
 AAGTGCCAGAGAAAATCATGAATATGATCGAAGAAATAAAGACCCAGCCTCTACCCCGTGTCTGGAAC
 TCCTCAGGCTTACCCATGATCGAGAGAAGCAATGTGGTTAGGAAAGATTACGACACCCCTTCTAAATGC
 TCACCAAAGATGCCCGCCGCTCCTTCAGGCAGAGCATATACCAGTCCCTTGATCGATATGTTAATAACC
 CAGCCACGGCTGCCCGAATTCACAAAGGTAATAATTAACAGGTAATCCGAAGATCCCAGTTTACA
 GCGATCAGTTTCGGTTGCAACGGGACTGAACATGATGAAGAAGCAGAAAGTGAAGACCATCTCCCGCAC
 ACTGCGGGCTCCAACAAGACCTTACTCAGCTTTGCACAGGGAGATGTCATCACGCTGCTCATCCCGAGG
 AGAAGGATGGCTGGCTCTATGGAGAACACGACGTCCTCAAGGCGAGGGTTGGTTCCCGCTGCTACAC
 GAAGTTGCTGGAAGAAAATGAGACAGAAGCAGTGACCGTGCCACGCCAAGCCCAACACCAAGTGAAGAAGC
 ATCAGCACCGTGAACCTGTCTGAGAATAGCAGTGTGTCATCCCCCACCAGACTACTTGAAGTCTTGT
 CCATGGGGCAGCTGCCGACAGGAGAGCAGATTCGGCCAGGACGACATCCACCTTTAAGGCCACGCGTC
 CAAGCCCAGACCGCGCTCCTAACGATGCCAACGGGACTGCAAAGCCGCTTTTCTCAGCGGAGAAAAAC
 CCCTTGGCACTGTGAACTCCGCCGACTGTGACGAATGATCGCTCGGCACCCATCATTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202617 protein sequence
 Red=Cloning site Green=Tags(s)

MSRGPPEEVNRLTESTYRNVMEQFNPGLRNLINLGKNYEKAVNAMILAGKAYYDGVAKIGEIATGSPVSTE
 LGHVLIEISSTHKKLNESLDENFKKFHKEIIHELEKKIELDVKYMNATLKRYQTEHKNKLESLEKSQAE
 KKIRRKSSQSRNALKYEHKEIEYVETVTSRQSEIQKFIADGCKEALLEEKRRFCFLVDKHCFANHIHY
 HLQSAELLNSKLRWQETCVDAIKVPEKIMNMIEEIKTPASTPVSQTPQASPMIERSNVVRKDYDTLSKC
 SPKMPPAPSGRAYTSPLIDMFNNPATAAPNSQRVNNSTGTSEDPSLQRSVSVATGLNMMKKQKVKTFIPH
 TAGSNKTLLSFAQGDVITLLIPEEKDGLYGEHDVSKARGWFPSSYTKLLEENETEAVTVPTSPPTVRS
 ISTVNLSENSVVIPPPDLLECLSMGAAADRRADSARTTSTFKAPASKPETAAPNDANGTAKPPFLSGEN
 PFATVKLRPTVTNDRSAPIIR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6436_g05.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018842

ORF Size: 1533 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. [More info](#)

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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018842.5](#)

RefSeq Size: 3682 bp

RefSeq ORF: 1536 bp

Locus ID: 55971

UniProt ID: [Q9UHR4](#)

Cytogenetics: 7q21.3-q22.1

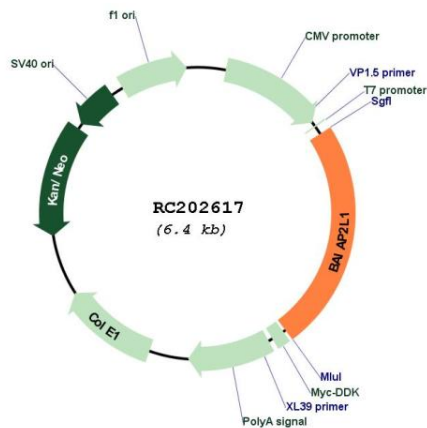
Domains: SH3

Protein Families: Druggable Genome

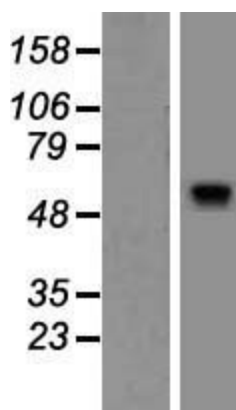
MW: 56.9 kDa

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]

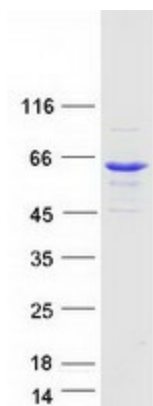
Product images:



Circular map for RC202617



Western blot validation of overexpression lysate (Cat# [LY412882]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202617 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified BAIAP2L1 protein (Cat# [TP302617]). The protein was produced from HEK293T cells transfected with BAIAP2L1 cDNA clone (Cat# RC202617) using MegaTran 2.0 (Cat# [TT210002]).